

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
BASELINE GROUND WATER ANALYSES
Narrative**

FORMS ARE PROVIDED FOR EACH WELL AND ARE INCLUDED IN ATTACHMENTS 8.1-8.5

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FORM 8 – BASELINE GROUND WATER ANALYSES

GROUND WATER MONITORING

Background water quality samples were collected at the proposed Camp Hope Run Landfill in March 2005 (see **ATTACHMENT 8-1**), June 2005 (See **ATTACHMENT 8-2**), August 2005 (see **ATTACHMENT 8-3**), September 2005 for private water wells (see **ATTACHMENT 8-4**), November 2005 (see **ATTACHMENT 8-5**), March 2006 (see **ATTACHMENT 8-6**), and June 2006 (see **ATTACHMENT 8-7**). Additional information concerning mine drainage parameters can be found in **Form 7** in the charts (see **ATTACHMENT 7-8**) and piper diagrams (see **ATTACHMENT 7-9**).

SURFACE WATER MONITORING

In addition to ground water monitoring, five surface water sampling events were performed at the proposed Camp Hope Run Landfill. Surface waters samples were collected in July 2005 (see **ATTACHMENT 8-8**), September 2005 (See **ATTACHMENT 8-9**), November 2005 (see **ATTACHMENT 8-10**), March 2006 (see **ATTACHMENT 8-11**), AND June 2006 (see **ATTACHMENT 8-12**). Additional information concerning mine drainage parameters and can be found in **Form 7** in the charts (see **ATTACHMENT 7-8**) and piper diagrams (see **ATTACHMENT 7-12**).

SAMPLING AND ANALYSIS PLAN

A Sampling and Analysis Plan (SAP) has been prepared for the proposed Camp Hope Run Landfill facility and is included as **ATTACHMENT 8-13**. As noted in this SAP, a total of 20 monitoring wells and 7 surface water sampling points have been proposed to monitor groundwater and surface water at the proposed municipal solid waste facility. An undetermined number of leachate samples will also be collected. All samples will be collected quarterly and submitted for laboratory analysis.

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**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-1
March 2005 Ground Water Monitoring Wells**

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FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis.

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W3A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 73.50 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1708.07 ft./MSL

Sampling Depth: 73.50 ft

Volume of Water Column: 17.30 gal.

Total Well Depth: 100.00 ft.

Sampling Method: ☒ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.90

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 11:25

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-001

Final Lab Analysis Completion Date 05/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W3A
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	174	SM4500-CO ₂ D
Calcium, Total	332	EPA 200.7
Calcium, Dissolved	332	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	3250	EPA 200.7
Iron (ug/l), Dissolved	3290	EPA 200.7D
Magnesium, Total	63.5	EPA 200.7
Magnesium, Dissolved	63.5	EPA 200.7D
Manganese (ug/l), Total	9900	EPA 200.7
Manganese (ug/l), Dissolved	9910	EPA 200.7D
Nitrate Nitrogen	0.16	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	7.52	SM4500-H+B
Potassium, Total	2	EPA 200.7
Potassium, Dissolved	2	EPA 200.7D
Sodium, Total	5.7	EPA 200.7
Sodium, Dissolved	5.9	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1620	EPA 120.1
Sulfate	944	EPA 300.0
Total Alkalinity	175	SM 18 2320B
Total Dissolved Solids	1480	SM2540-C
Total Organic Carbon	2.4	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	34	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W3A
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W3C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 160.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.20 ft

Elevation of Water Level: 1617.90 ft./MSL

Sampling Depth: 162.58 ft

Volume of Water Column: 21.50 gal.

Total Well Depth: 196.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 11:50

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-002

Final Lab Analysis Completion Date 04/01/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W3C
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	130	SM4500-CO ₂ D
Calcium, Total	42.6	EPA 200.7
Calcium, Dissolved	42.6	EPA 200.7D
Chemical Oxygen Demand	46	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	870	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	5.1	EPA 200.7
Magnesium, Dissolved	5.1	EPA 200.7D
Manganese (ug/l), Total	360	EPA 200.7
Manganese (ug/l), Dissolved	80	EPA 200.7D
Nitrate Nitrogen	0.19	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	7.68	SM4500-H+B
Potassium, Total	1	EPA 200.7
Potassium, Dissolved	0.9	EPA 200.7D
Sodium, Total	4.6	EPA 200.7
Sodium, Dissolved	4.5	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	264	EPA 120.1
Sulfate	< 10	EPA 300.0
Total Alkalinity	131	SM 18 2320B
Total Dissolved Solids	170	SM2540-C
Total Organic Carbon	9.5	SM 18 5310-C
Total Phenolics (ug/l)	168	EPA 420.1
Turbidity (NTU)	21	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3C
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	110	EPA 200.7
Barium, Dissolved	100	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W3C
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	9.3	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3C
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3C
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
3-Methylhexane	



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MUNICIPAL WASTE LANDFILLS

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Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

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Monitoring Point Number: W4A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 72.85 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.35 ft

Elevation of Water Level: 1706.11 ft./MSL

Sampling Depth: 73.90 ft

Volume of Water Column: 7.00 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 2.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 12:40

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☐ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-003

Final Lab Analysis Completion Date 04/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W4A
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	42	SM4500-CO ₂ D
Calcium, Total	6.6	EPA 200.7
Calcium, Dissolved	6.5	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	5410	EPA 200.7
Iron (ug/l), Dissolved	5250	EPA 200.7D
Magnesium, Total	4.7	EPA 200.7
Magnesium, Dissolved	4.3	EPA 200.7D
Manganese (ug/l), Total	1640	EPA 200.7
Manganese (ug/l), Dissolved	1290	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	6.51	SM4500-H+B
Potassium, Total	1.6	EPA 200.7
Potassium, Dissolved	1.6	EPA 200.7D
Sodium, Total	6.2	EPA 200.7
Sodium, Dissolved	6.9	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	109	EPA 120.1
Sulfate	< 10	EPA 300.0
Total Alkalinity	42	SM 18 2320B
Total Dissolved Solids	< 50	SM2540-C
Total Organic Carbon	1	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	20	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	2.5	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	120	EPA 200.7
Barium, Dissolved	100	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	1.3	EPA 200.8
Lead, Dissolved	1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W4A
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	0.5	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 196.10 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1582.86 ft./MSL

Sampling Depth: 200.99 ft

Volume of Water Column: 5.00 gal.

Total Well Depth: 203.89 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 12:30

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-004

Final Lab Analysis Completion Date 05/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W4C
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	2.63	EPA 350.1
Bicarbonate (as CaCO ₃)	36	SM4500-CO ₂ D
Calcium, Total	213	EPA 200.7
Calcium, Dissolved	193	EPA 200.7D
Chemical Oxygen Demand	2800	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	8220	EPA 200.7
Iron (ug/l), Dissolved	120	EPA 200.7D
Magnesium, Total	65.5	EPA 200.7
Magnesium, Dissolved	63.3	EPA 200.7D
Manganese (ug/l), Total	13600	EPA 200.7
Manganese (ug/l), Dissolved	18900	EPA 200.7D
Nitrate Nitrogen	0.12	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	6.6	SM4500-H+B
Potassium, Total	5.1	EPA 200.7
Potassium, Dissolved	4.4	EPA 200.7D
Sodium, Total	42.9	EPA 200.7
Sodium, Dissolved	47.5	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1450	EPA 120.1
Sulfate	875	EPA 300.0
Total Alkalinity	36	SM 18 2320B
Total Dissolved Solids	1140	SM2540-C
Total Organic Carbon	2.7	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	400	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	2.5	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	11.1	EPA 200.8
Lead, Dissolved	1.1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	60	EPA 200.7
Zinc, Dissolved	80	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W4C
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	0.5	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 14 . 00 "

Depth to Water Level: 86.60 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.30 ft

Elevation of Water Level: 1666.03 ft./MSL

Sampling Depth: 86.46 ft

Volume of Water Column: 4.00 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 14:20

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-005

Final Lab Analysis Completion Date 04/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W6A
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.6	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	65.8	EPA 200.7
Calcium, Dissolved	87.6	EPA 200.7D
Chemical Oxygen Demand	29	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	31100	EPA 200.7
Iron (ug/l), Dissolved	98600	EPA 200.7D
Magnesium, Total	12.9	EPA 200.7
Magnesium, Dissolved	15.8	EPA 200.7D
Manganese (ug/l), Total	1800	EPA 200.7
Manganese (ug/l), Dissolved	2030	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	4.02	SM4500-H+B
Potassium, Total	2.2	EPA 200.7
Potassium, Dissolved	2.9	EPA 200.7D
Sodium, Total	2.7	EPA 200.7
Sodium, Dissolved	2.5	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	576	EPA 120.1
Sulfate	266	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	430	SM2540-C
Total Organic Carbon	1.6	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	75	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	10.3	EPA 200.8
Arsenic, Dissolved	10.2	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	6	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	2.4	EPA 200.8
Lead, Dissolved	2.3	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	210	EPA 200.7
Zinc, Dissolved	400	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W6A
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	1.2	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 87.13 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.04 ft

Elevation of Water Level: 1666.32 ft./MSL

Sampling Depth: 85.35 ft

Volume of Water Column: 73.00 gal.

Total Well Depth: 197.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 14:00

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-006

Final Lab Analysis Completion Date 05/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W6C
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.17	EPA 350.1
Bicarbonate (as CaCO ₃)	11	SM4500-CO ₂ D
Calcium, Total	33.4	EPA 200.7
Calcium, Dissolved	32.9	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	5700	EPA 200.7
Iron (ug/l), Dissolved	5290	EPA 200.7D
Magnesium, Total	4.8	EPA 200.7
Magnesium, Dissolved	4.7	EPA 200.7D
Manganese (ug/l), Total	460	EPA 200.7
Manganese (ug/l), Dissolved	440	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	5.84	SM4500-H+B
Potassium, Total	1.1	EPA 200.7
Potassium, Dissolved	1	EPA 200.7D
Sodium, Total	1	EPA 200.7
Sodium, Dissolved	0.8	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	240	EPA 120.1
Sulfate	96	EPA 300.0
Total Alkalinity	11	SM 18 2320B
Total Dissolved Solids	166	SM2540-C
Total Organic Carbon	< 1.0	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	4.6	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	2.5	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	3.8	EPA 200.8
Lead, Dissolved	1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	40	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W6C
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	1.3	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 86.64 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.36 ft

Elevation of Water Level: 1667.64 ft./MSL

Sampling Depth: 87.55 ft

Volume of Water Column: 22.00 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.45

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 13:40

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-007

Final Lab Analysis Completion Date 05/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W6E
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.12	EPA 350.1
Bicarbonate (as CaCO ₃)	83	SM4500-CO ₂ D
Calcium, Total	144	EPA 200.7
Calcium, Dissolved	141	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	3410	EPA 200.7
Iron (ug/l), Dissolved	1800	EPA 200.7D
Magnesium, Total	16.1	EPA 200.7
Magnesium, Dissolved	15.7	EPA 200.7D
Manganese (ug/l), Total	1970	EPA 200.7
Manganese (ug/l), Dissolved	2170	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	7.23	SM4500-H+B
Potassium, Total	1.4	EPA 200.7
Potassium, Dissolved	1.3	EPA 200.7D
Sodium, Total	1	EPA 200.7
Sodium, Dissolved	1.3	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	748	EPA 120.1
Sulfate	325	EPA 300.0
Total Alkalinity	83	SM 18 2320B
Total Dissolved Solids	562	SM2540-C
Total Organic Carbon	1.9	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	21	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	2.5	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	50	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	2.1	EPA 200.8
Lead, Dissolved	1.1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W6E
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	2	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 158.85 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.25 ft

Elevation of Water Level: 1669.83 ft./MSL

Sampling Depth: 166.90 ft

Volume of Water Column: 6.00 gal.

Total Well Depth: 169.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.45

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 10:40

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-008

Final Lab Analysis Completion Date 04/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W22C
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.43	EPA 350.1
Bicarbonate (as CaCO ₃)	24	SM4500-CO ₂ D
Calcium, Total	124	EPA 200.7
Calcium, Dissolved	127	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	11400	EPA 200.7
Iron (ug/l), Dissolved	6190	EPA 200.7D
Magnesium, Total	31.9	EPA 200.7
Magnesium, Dissolved	32.8	EPA 200.7D
Manganese (ug/l), Total	3140	EPA 200.7
Manganese (ug/l), Dissolved	3010	EPA 200.7D
Nitrate Nitrogen	0.18	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	6.47	SM4500-H+B
Potassium, Total	4.7	EPA 200.7
Potassium, Dissolved	4.6	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	829	EPA 120.1
Sulfate	433	EPA 300.0
Total Alkalinity	24	SM 18 2320B
Total Dissolved Solids	570	SM2540-C
Total Organic Carbon	2.9	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1.6	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	2.5	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	9.6	EPA 200.8
Lead, Dissolved	1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W22C
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	18.8	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	139	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	20.9	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	0.5	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	3/24/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 83.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.33 ft

Elevation of Water Level: 1744.67 ft./MSL

Sampling Depth: 91.18 ft

Volume of Water Column: 5.60 gal.

Total Well Depth: 92.33 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/24/05

Sample Collection Time: 10:40

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0503498-009

Final Lab Analysis Completion Date 04/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W22E
Sample Date	3/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	5.63	EPA 350.1
Bicarbonate (as CaCO ₃)	12	SM4500-CO ₂ D
Calcium, Total	93.1	EPA 200.7
Calcium, Dissolved	82.1	EPA 200.7D
Chemical Oxygen Demand	1400	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	375000	EPA 200.7
Iron (ug/l), Dissolved	135000	EPA 200.7D
Magnesium, Total	71	EPA 200.7
Magnesium, Dissolved	61.5	EPA 200.7D
Manganese (ug/l), Total	22000	EPA 200.7
Manganese (ug/l), Dissolved	17000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	5.45	SM4500-H+B
Potassium, Total	10.5	EPA 200.7
Potassium, Dissolved	6.4	EPA 200.7D
Sodium, Total	4.8	EPA 200.7
Sodium, Dissolved	5	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1090	EPA 120.1
Sulfate	700	EPA 300.0
Total Alkalinity	12	SM 18 2320B
Total Dissolved Solids	800	SM2540-C
Total Organic Carbon	6.7	SM 18 5310-C
Total Phenolics (ug/l)	< 20.0	EPA 420.1
Turbidity (NTU)	28000	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	3/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	3.8	EPA 200.8
Arsenic, Dissolved	2.5	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	25	EPA 200.7
Cadmium, Dissolved	7	EPA 200.7D
Chromium, Total	70	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	207	EPA 200.8
Lead, Dissolved	6.7	EPA 200.8D
Mercury, Total	0.8	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	2.5	EPA 200.8
Selenium, Dissolved	2.5	EPA 200.8D
Silver, Total	10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	1080	EPA 200.7
Zinc, Dissolved	70	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W22E
Sample Date	3/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	3/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	2.5	EPA 200.8
Beryllium, Total	20	EPA 200.7
Cobalt, Total	330	EPA 200.7
Nickel, Total	470	EPA 200.7
Thallium, Total	0.5	EPA 200.8
Vanadium, Total	50	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	3/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-2
June 2005 Ground Water Monitoring Wells**

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FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 47.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1782.27 ft./MSL

Sampling Depth: 48.00 ft

Volume of Water Column: 1.00 gal.

Total Well Depth: 48.73 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/29/05

Sample Collection Time: 15:15

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506566-001

Final Lab Analysis Completion Date 07/11/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W1A
Sample Date	6/29/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.4	EPA 350.1
Bicarbonate (as CaCO ₃)	43	SM4500-CO ₂ D
Calcium, Total	7.6	EPA 200.7
Calcium, Dissolved	7.1	EPA 200.7D
Chemical Oxygen Demand	150	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	32700	EPA 200.7
Iron (ug/l), Dissolved	24400	EPA 200.7D
Magnesium, Total	4.6	EPA 200.7
Magnesium, Dissolved	4.9	EPA 200.7D
Manganese (ug/l), Total	1460	EPA 200.7
Manganese (ug/l), Dissolved	1390	EPA 200.7D
Nitrate Nitrogen	0.1	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	6.27	SM4500-H+B
Potassium, Total	1.8	EPA 200.7
Potassium, Dissolved	1.8	EPA 200.7D
Sodium, Total	6.6	EPA 200.7
Sodium, Dissolved	6.4	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	180	EPA 120.1
Sulfate	60	EPA 300.0
Total Alkalinity	43	SM 18 2320B
Total Dissolved Solids	130	SM2540-C
Total Organic Carbon	6.5	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	380	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1A
Sample Date	6/29/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	< 10	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1A
Sample Date	6/29/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1A
Sample Date	6/29/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1A
Sample Date	6/29/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40. ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 74.10 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.51 ft

Elevation of Water Level: 1753.50 ft./MSL

Sampling Depth: 112.10 ft

Volume of Water Column: 36.23 gal.

Total Well Depth: 129.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.40

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/29/05

Sample Collection Time: 14:30

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506566-002

Final Lab Analysis Completion Date 07/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W1C
Sample Date	6/29/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	1	EPA 350.1
Bicarbonate (as CaCO ₃)	27	SM4500-CO ₂ D
Calcium, Total	259	EPA 200.7
Calcium, Dissolved	253	EPA 200.7D
Chemical Oxygen Demand	20	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	105000	EPA 200.7
Iron (ug/l), Dissolved	102000	EPA 200.7D
Magnesium, Total	115	EPA 200.7
Magnesium, Dissolved	112	EPA 200.7D
Manganese (ug/l), Total	27700	EPA 200.7
Manganese (ug/l), Dissolved	27000	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	5.94	SM4500-H+B
Potassium, Total	3.2	EPA 200.7
Potassium, Dissolved	3.2	EPA 200.7D
Sodium, Total	13.5	EPA 200.7
Sodium, Dissolved	11.8	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1870	EPA 120.1
Sulfate	1340	EPA 300.0
Total Alkalinity	27	SM 18 2320B
Total Dissolved Solids	1940	SM2540-C
Total Organic Carbon	2.3	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	34	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	6/29/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	< 10	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	6	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	310	EPA 200.7
Zinc, Dissolved	290	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	6/29/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	6/29/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	300	EPA 200.7
Nickel, Total	290	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	6/29/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 62.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.59 ft

Elevation of Water Level: 1765.86 ft./MSL

Sampling Depth: 79.00 ft

Volume of Water Column: 11.42 gal.

Total Well Depth: 80.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/29/05

Sample Collection Time: 15:40

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506566-003

Final Lab Analysis Completion Date 07/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W1E
Sample Date	6/29/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	1.88	EPA 350.1
Bicarbonate (as CaCO ₃)	17	SM4500-CO ₂ D
Calcium, Total	229	EPA 200.7
Calcium, Dissolved	224	EPA 200.7D
Chemical Oxygen Demand	380	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	156000	EPA 200.7
Iron (ug/l), Dissolved	141000	EPA 200.7D
Magnesium, Total	110	EPA 200.7
Magnesium, Dissolved	107	EPA 200.7D
Manganese (ug/l), Total	31000	EPA 200.7
Manganese (ug/l), Dissolved	30700	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	5.74	SM4500-H+B
Potassium, Total		
Potassium, Dissolved	3.8	EPA 200.7D
Sodium, Total	8.2	EPA 200.7
Sodium, Dissolved	7.9	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1810	EPA 120.1
Sulfate	1180	EPA 300.0
Total Alkalinity	17	SM 18 2320B
Total Dissolved Solids	1870	SM2540-C
Total Organic Carbon	2.1	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1900	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	6/29/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 5.0	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	150	EPA 200.7
Zinc, Dissolved	160	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	6/29/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	6/29/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 10	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 10	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	280	EPA 200.7
Nickel, Total	250	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	6/29/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W3A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 75.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1706.57 ft./MSL

Sampling Depth: 82.10 ft

Volume of Water Column: 16.50 gal.

Total Well Depth: 100.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/14/05

Sample Collection Time: 14:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506306-002

Final Lab Analysis Completion Date 06/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W3A
Sample Date	6/14/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.14	EPA 350.1
Bicarbonate (as CaCO ₃)	205	SM4500-CO ₂ D
Calcium, Total	328	EPA 200.7
Calcium, Dissolved	326	EPA 200.7D
Chemical Oxygen Demand	22	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	13700	EPA 200.7
Iron (ug/l), Dissolved	250	EPA 200.7D
Magnesium, Total	64.6	EPA 200.7
Magnesium, Dissolved	63.6	EPA 200.7D
Manganese (ug/l), Total	12900	EPA 200.7
Manganese (ug/l), Dissolved	12500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	7.19	
pH (standard units), Laboratory	7.19	SM4500-H+B
Potassium, Total	2	EPA 200.7
Potassium, Dissolved	2	EPA 200.7D
Sodium, Total	4	EPA 200.7
Sodium, Dissolved	4.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	931	
Specific Conductance (umhos/cm), Laboratory	1620	EPA 120.1
Sulfate	999	EPA 300.0
Total Alkalinity	205	SM 18 2320B
Total Dissolved Solids	1580	SM2540-C
Total Organic Carbon	7.1	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	90	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	6/14/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	6/14/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	6/14/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	6/14/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 73.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.35 ft

Elevation of Water Level: 1705.66 ft./MSL

Sampling Depth: 83.00 ft

Volume of Water Column: 7.20 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/14/05

Sample Collection Time: 15:40

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☐ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506306-003

Final Lab Analysis Completion Date 06/28/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W4A
Sample Date	6/14/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1
Bicarbonate (as CaCO ₃)	41	SM4500-CO ₂ D
Calcium, Total	5.9	EPA 200.7
Calcium, Dissolved	6.4	EPA 200.7D
Chemical Oxygen Demand	37	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	2870	EPA 200.7
Iron (ug/l), Dissolved	250	EPA 200.7D
Magnesium, Total	4.2	EPA 200.7
Magnesium, Dissolved	4.3	EPA 200.7D
Manganese (ug/l), Total	1180	EPA 200.7
Manganese (ug/l), Dissolved	1140	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.91	
pH (standard units), Laboratory	6.32	SM4500-H+B
Potassium, Total	1.6	EPA 200.7
Potassium, Dissolved	1.6	EPA 200.7D
Sodium, Total	7	EPA 200.7
Sodium, Dissolved	6.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	135	
Specific Conductance (umhos/cm), Laboratory	109	EPA 120.1
Sulfate	19	EPA 300.0
Total Alkalinity	41	SM 18 2320B
Total Dissolved Solids	84	SM2540-C
Total Organic Carbon	0.6	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	350	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	6/14/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	100	EPA 200.7
Barium, Dissolved	100	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	6/14/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	6/14/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	6/14/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 195.90 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1583.06 ft./MSL

Sampling Depth: 198.70 ft

Volume of Water Column: 3.30 gal.

Total Well Depth: 201.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 8:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-001

Final Lab Analysis Completion Date 07/05/05

Name/Affiliation of Person who Filled out Form _____

Comments: Dark grey.

I.D. No.	
Monitoring Point No.	W4C
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	48.4	EPA 350.1
Bicarbonate (as CaCO ₃)	44	SM4500-CO ₂ D
Calcium, Total	242	EPA 200.7
Calcium, Dissolved	255	EPA 200.7D
Chemical Oxygen Demand	42	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	100	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	68.1	EPA 200.7
Magnesium, Dissolved	71.1	EPA 200.7D
Manganese (ug/l), Total	9610	EPA 200.7
Manganese (ug/l), Dissolved	11500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.03	
pH (standard units), Laboratory	6.69	SM4500-H+B
Potassium, Total	4.8	EPA 200.7
Potassium, Dissolved	4.4	EPA 200.7D
Sodium, Total	39.4	EPA 200.7
Sodium, Dissolved	36	EPA 200.7D
Specific Conductance (umhos/cm), Field	928	
Specific Conductance (umhos/cm), Laboratory	1460	EPA 120.1
Sulfate	981	EPA 300.0
Total Alkalinity	44	SM 18 2320B
Total Dissolved Solids	1270	SM2540-C
Total Organic Carbon	2.5	SM 18 5310-C
Total Phenolics (ug/l)		
Turbidity (NTU)	720	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	6/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 14 . 00 "

Depth to Water Level: 86.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.30 ft

Elevation of Water Level: 1665.79 ft./MSL

Sampling Depth: 86.90 ft

Volume of Water Column: 2.17 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/14/05

Sample Collection Time: 10:35

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506306-004

Final Lab Analysis Completion Date 06/28/05

Name/Affiliation of Person who Filled out Form _____

Comments: Mostly clear.

I.D. No.	
Monitoring Point No.	W6A
Sample Date	6/14/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.72	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	54.1	EPA 200.7
Calcium, Dissolved	61.1	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	21900	EPA 200.7
Iron (ug/l), Dissolved	4610	EPA 200.7D
Magnesium, Total	9.9	EPA 200.7
Magnesium, Dissolved	10.9	EPA 200.7D
Manganese (ug/l), Total	990	EPA 200.7
Manganese (ug/l), Dissolved	1450	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.15	
pH (standard units), Laboratory	3.83	SM4500-H+B
Potassium, Total	1.9	EPA 200.7
Potassium, Dissolved	2.1	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	530	
Specific Conductance (umhos/cm), Laboratory	506	EPA 120.1
Sulfate	262	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	440	SM2540-C
Total Organic Carbon	2.4	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	35	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	6/14/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	170	EPA 200.7
Zinc, Dissolved	190	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	6/14/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchlorethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	6/14/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	40	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	6/14/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 86.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.04 ft

Elevation of Water Level: 1665.47 ft./MSL

Sampling Depth: 87.60 ft

Volume of Water Column: 72.50 gal.

Total Well Depth: 197.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/14/05

Sample Collection Time: 12:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506306-005

Final Lab Analysis Completion Date 06/28/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W6C
Sample Date	6/14/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.17	EPA 350.1
Bicarbonate (as CaCO ₃)	15	SM4500-CO ₂ D
Calcium, Total	29.9	EPA 200.7
Calcium, Dissolved	29.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	< 50	EPA 200.7
Iron (ug/l), Dissolved	550	EPA 200.7D
Magnesium, Total	3.7	EPA 200.7
Magnesium, Dissolved	3.9	EPA 200.7D
Manganese (ug/l), Total	290	EPA 200.7
Manganese (ug/l), Dissolved	300	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.8	
pH (standard units), Laboratory	5.98	SM4500-H+B
Potassium, Total	1	EPA 200.7
Potassium, Dissolved	1	EPA 200.7D
Sodium, Total	10.6	EPA 200.7
Sodium, Dissolved	1.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	205	
Specific Conductance (umhos/cm), Laboratory	206	EPA 120.1
Sulfate	91	EPA 300.0
Total Alkalinity	15	SM 18 2320B
Total Dissolved Solids	146	SM2540-C
Total Organic Carbon	0.5	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	19	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	6/14/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	6/14/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	6/14/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	6/14/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 88.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.36 ft

Elevation of Water Level: 1666.08 ft./MSL

Sampling Depth: 92.20 ft

Volume of Water Column: 21.50 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/14/05

Sample Collection Time: 12:20

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506306-006

Final Lab Analysis Completion Date 06/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	W6E
Sample Date	6/14/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.15	EPA 350.1
Bicarbonate (as CaCO ₃)	80	SM4500-CO ₂ D
Calcium, Total	141	EPA 200.7
Calcium, Dissolved	143	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	< 50	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	14.9	EPA 200.7
Magnesium, Dissolved	15.1	EPA 200.7D
Manganese (ug/l), Total	1610	EPA 200.7
Manganese (ug/l), Dissolved	860	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field	6.87	
pH (standard units), Laboratory	6.95	SM4500-H+B
Potassium, Total	1.3	EPA 200.7
Potassium, Dissolved	1.4	EPA 200.7D
Sodium, Total	1.7	EPA 200.7
Sodium, Dissolved	1.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	587	
Specific Conductance (umhos/cm), Laboratory	720	EPA 120.1
Sulfate	366	EPA 300.0
Total Alkalinity	80	SM 18 2320B
Total Dissolved Solids	570	SM2540-C
Total Organic Carbon	0.7	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	16	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	6/14/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	6/14/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	6/14/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	6/14/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 162.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.25 ft

Elevation of Water Level: 1665.98 ft./MSL

Sampling Depth: 165.00 ft

Volume of Water Column: 4.10 gal.

Total Well Depth: 169.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 10:30

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-002

Final Lab Analysis Completion Date 06/30/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear but murky.

I.D. No.	
Monitoring Point No.	W22C
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.43	EPA 350.1
Bicarbonate (as CaCO ₃)	33	SM4500-CO ₂ D
Calcium, Total	127	EPA 200.7
Calcium, Dissolved	128	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	930	EPA 200.7
Iron (ug/l), Dissolved	580	EPA 200.7D
Magnesium, Total	31	EPA 200.7
Magnesium, Dissolved	31.5	EPA 200.7D
Manganese (ug/l), Total	1370	EPA 200.7
Manganese (ug/l), Dissolved	1540	EPA 200.7D
Nitrate Nitrogen	0.17	EPA 300.0
pH (standard units), Field	5.62	
pH (standard units), Laboratory	6.66	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	4.5	EPA 200.7D
Sodium, Total	3.4	EPA 200.7
Sodium, Dissolved	3.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	481	
Specific Conductance (umhos/cm), Laboratory	776	EPA 120.1
Sulfate	425	EPA 300.0
Total Alkalinity	33	SM 18 2320B
Total Dissolved Solids	620	SM2540-C
Total Organic Carbon	1.4	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	75	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	6/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



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MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 85.10 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.33 ft

Elevation of Water Level: 1743.37 ft./MSL

Sampling Depth: 86.90 ft

Volume of Water Column: 3.30 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 9:55

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-003

Final Lab Analysis Completion Date 07/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W22E
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	1.22	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	91.8	EPA 200.7
Calcium, Dissolved	92.2	EPA 200.7D
Chemical Oxygen Demand	20	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	104000	EPA 200.7
Iron (ug/l), Dissolved	98600	EPA 200.7D
Magnesium, Total	64.6	EPA 200.7
Magnesium, Dissolved	65	EPA 200.7D
Manganese (ug/l), Total	17700	EPA 200.7
Manganese (ug/l), Dissolved	15500	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field	3.84	
pH (standard units), Laboratory	3.33	SM4500-H+B
Potassium, Total	5.4	EPA 200.7
Potassium, Dissolved	5.3	EPA 200.7D
Sodium, Total	3.9	EPA 200.7
Sodium, Dissolved	3.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	677	
Specific Conductance (umhos/cm), Laboratory	1260	EPA 120.1
Sulfate	778	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1060	SM2540-C
Total Organic Carbon	1.7	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	240	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	5	EPA 200.7
Cadmium, Dissolved	5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	30	EPA 200.7
Copper, Dissolved	40	EPA 200.7D
Lead, Total	7.5	EPA 200.8
Lead, Dissolved	10.7	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	300	EPA 200.7
Zinc, Dissolved	300	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W22E
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	5	EPA 200.7
Cobalt, Total	180	EPA 200.7
Nickel, Total	220	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	6/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 43.10 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.68 ft

Elevation of Water Level: 1637.25 ft./MSL

Sampling Depth: 43.10 ft

Volume of Water Column: 11.10 gal.

Total Well Depth: 60.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 11:50

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-006

Final Lab Analysis Completion Date 07/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: Brown - Silty.

I.D. No.	
Monitoring Point No.	NW1B
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.42	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	396	EPA 200.7
Calcium, Dissolved	399	EPA 200.7D
Chemical Oxygen Demand	20	HACH 8000
Chloride	5	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	137000	EPA 200.7
Iron (ug/l), Dissolved	120000	EPA 200.7D
Magnesium, Total	108	EPA 200.7
Magnesium, Dissolved	108	EPA 200.7D
Manganese (ug/l), Total	18400	EPA 200.7
Manganese (ug/l), Dissolved	15600	EPA 200.7D
Nitrate Nitrogen	0.1	EPA 300.0
pH (standard units), Field	5.75	
pH (standard units), Laboratory	3.9	SM4500-H+B
Potassium, Total	3.8	EPA 200.7
Potassium, Dissolved	3.6	EPA 200.7D
Sodium, Total	6.9	EPA 200.7
Sodium, Dissolved	6.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	1088	
Specific Conductance (umhos/cm), Laboratory	2200	EPA 120.1
Sulfate	1580	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2400	SM2540-C
Total Organic Carbon	1.4	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1800	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	6/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 87.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1591.97 ft./MSL

Sampling Depth: 88.50 ft

Volume of Water Column: 34.85 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 10:45

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-003

Final Lab Analysis Completion Date 07/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	NW1C
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.2	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	310	EPA 200.7
Calcium, Dissolved	299	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	4	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	41200	EPA 200.7
Iron (ug/l), Dissolved	8660	EPA 200.7D
Magnesium, Total	78.2	EPA 200.7
Magnesium, Dissolved	80.4	EPA 200.7D
Manganese (ug/l), Total	13300	EPA 200.7
Manganese (ug/l), Dissolved	13700	EPA 200.7D
Nitrate Nitrogen	0.16	EPA 300.0
pH (standard units), Field	3.45	
pH (standard units), Laboratory	3.28	SM4500-H+B
Potassium, Total	5	EPA 200.7
Potassium, Dissolved	5.1	EPA 200.7D
Sodium, Total	37.9	EPA 200.7
Sodium, Dissolved	16.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	750	
Specific Conductance (umhos/cm), Laboratory	1800	EPA 120.1
Sulfate	1100	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1680	SM2540-C
Total Organic Carbon	1	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	85	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	40	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	50	EPA 200.7
Zinc, Dissolved	60	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	90	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW2C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 03 . 00 "

Depth to Water Level: 58.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1547.10 ft./MSL

Sampling Depth: 64.00 ft

Volume of Water Column: 11.00 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 14:10

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-007

Final Lab Analysis Completion Date 07/07/05

Name/Affiliation of Person who Filled out Form _____

Comments: Dark - Murky.

I.D. No.	
Monitoring Point No.	NW2C
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.34	EPA 350.1
Bicarbonate (as CaCO ₃)	18	SM4500-CO ₂ D
Calcium, Total	3.9	EPA 200.7
Calcium, Dissolved	5.1	EPA 200.7D
Chemical Oxygen Demand	870	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	2550	EPA 200.7
Iron (ug/l), Dissolved	280	EPA 200.7D
Magnesium, Total	3.4	EPA 200.7
Magnesium, Dissolved	3.7	EPA 200.7D
Manganese (ug/l), Total	1150	EPA 200.7
Manganese (ug/l), Dissolved	1190	EPA 200.7D
Nitrate Nitrogen	0.15	EPA 300.0
pH (standard units), Field	5.82	
pH (standard units), Laboratory	6.45	SM4500-H+B
Potassium, Total	2.1	EPA 200.7
Potassium, Dissolved	2.7	EPA 200.7D
Sodium, Total	1.2	EPA 200.7
Sodium, Dissolved	1.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	69	
Specific Conductance (umhos/cm), Laboratory	67	EPA 120.1
Sulfate	18	EPA 300.0
Total Alkalinity	18	SM 18 2320B
Total Dissolved Solids	52	SM2540-C
Total Organic Carbon	< 0.5	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	5000	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	40	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW2C
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	6/15/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 3.50 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 4.68 ft

Elevation of Water Level: 1670.34 ft./MSL

Sampling Depth: 7.70 ft

Volume of Water Column: 30.69 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 13:30

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-004

Final Lab Analysis Completion Date 07/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: Light - Dark - Murky.

I.D. No.	
Monitoring Point No.	NW3B
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	197	EPA 200.7
Calcium, Dissolved	195	EPA 200.7D
Chemical Oxygen Demand	43	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	335000	EPA 200.7
Iron (ug/l), Dissolved	322000	EPA 200.7D
Magnesium, Total	126	EPA 200.7
Magnesium, Dissolved	126	EPA 200.7D
Manganese (ug/l), Total	32500	EPA 200.7
Manganese (ug/l), Dissolved	39800	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.74	
pH (standard units), Laboratory	4.3	SM4500-H+B
Potassium, Total	6.7	EPA 200.7
Potassium, Dissolved	6.7	EPA 200.7D
Sodium, Total	4	EPA 200.7
Sodium, Dissolved	4.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	970	
Specific Conductance (umhos/cm), Laboratory	2120	EPA 120.1
Sulfate	1520	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2380	SM2540-C
Total Organic Carbon	1.2	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1000	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	11.7	EPA 200.8
Lead, Dissolved	6.1	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	150	EPA 200.7
Zinc, Dissolved	150	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	90	EPA 200.7
Nickel, Total	110	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	6/15/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 76.60 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.53 ft

Elevation of Water Level: 1596.16 ft./MSL

Sampling Depth: 78.10 ft

Volume of Water Column: 31.60 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/05

Sample Collection Time: 13:55

Sample Collector's Name: Scott J Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506352-005

Final Lab Analysis Completion Date 06/30/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW3C
Sample Date	6/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1
Bicarbonate (as CaCO ₃)	7	SM4500-CO ₂ D
Calcium, Total	36.6	EPA 200.7
Calcium, Dissolved	35.1	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	40800	EPA 200.7
Iron (ug/l), Dissolved	36500	EPA 200.7D
Magnesium, Total	22.2	EPA 200.7
Magnesium, Dissolved	21.3	EPA 200.7D
Manganese (ug/l), Total	6630	EPA 200.7
Manganese (ug/l), Dissolved	6380	EPA 200.7D
Nitrate Nitrogen	0.07	EPA 300.0
pH (standard units), Field	5.81	
pH (standard units), Laboratory	5.79	SM4500-H+B
Potassium, Total	3	EPA 200.7
Potassium, Dissolved	2.9	EPA 200.7D
Sodium, Total	12	EPA 200.7
Sodium, Dissolved	11.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	349	
Specific Conductance (umhos/cm), Laboratory	519	EPA 120.1
Sulfate	284	EPA 300.0
Total Alkalinity	7	SM 18 2320B
Total Dissolved Solids	426	SM2540-C
Total Organic Carbon	0.6	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	31	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	6/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	40	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	6/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	6/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	6/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 62.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.99 ft

Elevation of Water Level: 1590.42 ft./MSL

Sampling Depth: 65.20 ft

Volume of Water Column: 8.11 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 9:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-007

Final Lab Analysis Completion Date 07/01/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear - No odor - No black streaks.

I.D. No.	
Monitoring Point No.	NW4B
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.31	EPA 350.1
Bicarbonate (as CaCO ₃)	9	SM4500-CO ₂ D
Calcium, Total	76.3	EPA 200.7
Calcium, Dissolved	79.4	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	18600	EPA 200.7
Iron (ug/l), Dissolved	17100	EPA 200.7D
Magnesium, Total	29.9	EPA 200.7
Magnesium, Dissolved	31.1	EPA 200.7D
Manganese (ug/l), Total	9460	EPA 200.7
Manganese (ug/l), Dissolved	9840	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.88	
pH (standard units), Laboratory	5.84	SM4500-H+B
Potassium, Total	5.4	EPA 200.7
Potassium, Dissolved	5.5	EPA 200.7D
Sodium, Total	11.8	EPA 200.7
Sodium, Dissolved	11.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	413	
Specific Conductance (umhos/cm), Laboratory	693	EPA 120.1
Sulfate	395	EPA 300.0
Total Alkalinity	9	SM 18 2320B
Total Dissolved Solids	580	SM2540-C
Total Organic Carbon	0.5	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	16	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	60	EPA 200.7
Zinc, Dissolved	60	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 1	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	40	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 107.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.79 ft

Elevation of Water Level: 1544.68 ft./MSL

Sampling Depth: 109.20 ft

Volume of Water Column: 21.50 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 9:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-006

Final Lab Analysis Completion Date 07/01/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW4C
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.26	EPA 350.1
Bicarbonate (as CaCO ₃)	58	SM4500-CO ₂ D
Calcium, Total	49.5	EPA 200.7
Calcium, Dissolved	48.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	3800	EPA 200.7
Iron (ug/l), Dissolved	150	EPA 200.7D
Magnesium, Total	16.2	EPA 200.7
Magnesium, Dissolved	15.9	EPA 200.7D
Manganese (ug/l), Total	4780	EPA 200.7
Manganese (ug/l), Dissolved	4700	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.54	
pH (standard units), Laboratory	6.81	SM4500-H+B
Potassium, Total	4.3	EPA 200.7
Potassium, Dissolved	6.6	EPA 200.7D
Sodium, Total	33.7	EPA 200.7
Sodium, Dissolved	15.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	283	
Specific Conductance (umhos/cm), Laboratory	441	EPA 120.1
Sulfate	171	EPA 300.0
Total Alkalinity	58	SM 18 2320B
Total Dissolved Solids	304	SM2540-C
Total Organic Carbon	0.7	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	17	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	40	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW4C
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	6/16/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 23 ' 33 . 00 "

Depth to Water Level: 30.60 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1674.29 ft./MSL

Sampling Depth: 32.40 ft

Volume of Water Column: 26.10 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 8:05

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-004

Final Lab Analysis Completion Date 07/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear - No odor.

I.D. No.	
Monitoring Point No.	NW5B
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.2	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	73.5	EPA 200.7
Calcium, Dissolved	44.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	49500	EPA 200.7
Iron (ug/l), Dissolved	40600	EPA 200.7D
Magnesium, Total	40.7	EPA 200.7
Magnesium, Dissolved	40.7	EPA 200.7D
Manganese (ug/l), Total	15100	EPA 200.7
Manganese (ug/l), Dissolved	16500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.09	
pH (standard units), Laboratory	4.43	SM4500-H+B
Potassium, Total	5.2	EPA 200.7
Potassium, Dissolved	2	EPA 200.7D
Sodium, Total	16.7	EPA 200.7
Sodium, Dissolved	10.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	496	
Specific Conductance (umhos/cm), Laboratory		EPA 120.1
Sulfate	417	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	592	SM2540-C
Total Organic Carbon	0.9	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	90	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	200	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW5B
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 23 ' 32 . 00 "

Depth to Water Level: 100.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.90 ft

Elevation of Water Level: 1603.72 ft./MSL

Sampling Depth: 102.30 ft

Volume of Water Column: 15.97 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 8:05

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-005

Final Lab Analysis Completion Date 07/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW5C
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.28	EPA 350.1
Bicarbonate (as CaCO ₃)	14	SM4500-CO ₂ D
Calcium, Total	76.6	EPA 200.7
Calcium, Dissolved	81.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	57500	EPA 200.7
Iron (ug/l), Dissolved	70400	EPA 200.7D
Magnesium, Total	46.8	EPA 200.7
Magnesium, Dissolved	54.6	EPA 200.7D
Manganese (ug/l), Total	14400	EPA 200.7
Manganese (ug/l), Dissolved	17800	EPA 200.7D
Nitrate Nitrogen	0.28	EPA 300.0
pH (standard units), Field	5.93	
pH (standard units), Laboratory	5.96	SM4500-H+B
Potassium, Total	2.3	EPA 200.7
Potassium, Dissolved	4.3	EPA 200.7D
Sodium, Total	14.8	EPA 200.7
Sodium, Dissolved	36	EPA 200.7D
Specific Conductance (umhos/cm), Field	590	
Specific Conductance (umhos/cm), Laboratory	955	EPA 120.1
Sulfate	571	EPA 300.0
Total Alkalinity	14	SM 18 2320B
Total Dissolved Solids	822	SM2540-C
Total Organic Carbon	0.9	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	21	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	50	EPA 200.7
Zinc, Dissolved	50	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW6B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 17 . 00 "

Depth to Water Level: 42.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.22 ft

Elevation of Water Level: 1586.79 ft./MSL

Sampling Depth: 44.00 ft

Volume of Water Column: 21.50 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 10:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-002

Final Lab Analysis Completion Date 07/05/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	NW6B
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.44	EPA 350.1
Bicarbonate (as CaCO ₃)	47	SM4500-CO ₂ D
Calcium, Total	24.2	EPA 200.7
Calcium, Dissolved	21.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	740	EPA 200.7
Iron (ug/l), Dissolved	90	EPA 200.7D
Magnesium, Total	11.6	EPA 200.7
Magnesium, Dissolved	11.2	EPA 200.7D
Manganese (ug/l), Total	2000	EPA 200.7
Manganese (ug/l), Dissolved	1840	EPA 200.7D
Nitrate Nitrogen	0.09	EPA 300.0
pH (standard units), Field	6.66	
pH (standard units), Laboratory	6.8	SM4500-H+B
Potassium, Total	6.2	EPA 200.7
Potassium, Dissolved	4.8	EPA 200.7D
Sodium, Total	14.4	EPA 200.7
Sodium, Dissolved	35.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	242	
Specific Conductance (umhos/cm), Laboratory	368	EPA 120.1
Sulfate	138	EPA 300.0
Total Alkalinity	47	SM 18 2320B
Total Dissolved Solids	240	SM2540-C
Total Organic Carbon	0.6	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	120	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	80	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 18 . 00 "

Depth to Water Level: 78.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.08 ft

Elevation of Water Level: 1548.37 ft./MSL

Sampling Depth: 90.40 ft

Volume of Water Column: 30.49 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/16/05

Sample Collection Time: 9:30

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0506356-001

Final Lab Analysis Completion Date 07/05/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear - No odor.

I.D. No.	
Monitoring Point No.	NW6C
Sample Date	6/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	70	SM4500-CO ₂ D
Calcium, Total	17.9	EPA 200.7
Calcium, Dissolved	17.9	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	540	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	6.1	EPA 200.7
Magnesium, Dissolved	6.4	EPA 200.7D
Manganese (ug/l), Total	1350	EPA 200.7
Manganese (ug/l), Dissolved	1370	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field	6.75	
pH (standard units), Laboratory	6.93	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	6.2	EPA 200.7D
Sodium, Total	1.6	EPA 200.7
Sodium, Dissolved	14.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	153	
Specific Conductance (umhos/cm), Laboratory	210	EPA 120.1
Sulfate	40	EPA 300.0
Total Alkalinity	70	SM 18 2320B
Total Dissolved Solids	146	SM2540-C
Total Organic Carbon	0.5	SM 18 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	29	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	6/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	50	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	6/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	6/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	6/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-3
August 2005 Ground Water Monitoring Wells**

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FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 75.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1752.19 ft./MSL

Sampling Depth: 83.90 ft

Volume of Water Column: 9.59 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/22/05

Sample Collection Time: 16:24

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-002

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, slight sulfur odor.

I.D. No.	
Monitoring Point No.	W1B
Sample Date	8/22/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.57	EPA 350.1
Bicarbonate (as CaCO ₃)	80	SM4500-CO ₂ D
Calcium, Total	276	EPA 200.7
Calcium, Dissolved	252	EPA 200.7D
Chemical Oxygen Demand	25	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	189000	EPA 200.7
Iron (ug/l), Dissolved	153000	EPA 200.7D
Magnesium, Total	128	EPA 200.7
Magnesium, Dissolved	120	EPA 200.7D
Manganese (ug/l), Total	34200	EPA 200.7
Manganese (ug/l), Dissolved	32300	EPA 200.7D
Nitrate Nitrogen	0.23	EPA 300.0
pH (standard units), Field	6.09	
pH (standard units), Laboratory	6.05	SM4500-H+B
Potassium, Total	3.7	EPA 200.7
Potassium, Dissolved	3.6	EPA 200.7D
Sodium, Total	10.5	EPA 200.7
Sodium, Dissolved	11.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	661	
Specific Conductance (umhos/cm), Laboratory	1890	EPA 120.1
Sulfate	1310	EPA 300.0
Total Alkalinity	80	SM 18 2320B
Total Dissolved Solids	1970	SM2540-C
Total Organic Carbon	5.2	SM 19 5310-C
Total Phenolics (ug/l)	10.2	EPA 420.1
Turbidity (NTU)	150	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1B
Sample Date	8/22/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	7	EPA 200.7
Cadmium, Dissolved	6	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	3340	EPA 200.7
Zinc, Dissolved	2270	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1B
Sample Date	8/22/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchloroethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1B
Sample Date	8/22/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	250	EPA 200.7
Nickel, Total	260	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1B
Sample Date	8/22/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 75.10 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.51 ft

Elevation of Water Level: 1752.50 ft./MSL

Sampling Depth: 97.10 ft

Volume of Water Column: 35.57 gal.

Total Well Depth: 129.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/22/05

Sample Collection Time: 14:40

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-001

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W1C
Sample Date	8/22/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.22	EPA 350.1
Bicarbonate (as CaCO ₃)	26	SM4500-CO ₂ D
Calcium, Total	274	EPA 200.7
Calcium, Dissolved	255	EPA 200.7D
Chemical Oxygen Demand	19	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	114000	EPA 200.7
Iron (ug/l), Dissolved	104000	EPA 200.7D
Magnesium, Total	116	EPA 200.7
Magnesium, Dissolved	114	EPA 200.7D
Manganese (ug/l), Total	27800	EPA 200.7
Manganese (ug/l), Dissolved	27000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field		
pH (standard units), Laboratory	5.81	SM4500-H+B
Potassium, Total	3.1	EPA 200.7
Potassium, Dissolved	3.3	EPA 200.7D
Sodium, Total	6	EPA 200.7
Sodium, Dissolved	6.4	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1830	EPA 120.1
Sulfate	1330	EPA 300.0
Total Alkalinity	26	SM 18 2320B
Total Dissolved Solids	1990	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	17	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	8/22/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	< 10	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	270	EPA 200.7
Zinc, Dissolved	260	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	8/22/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	8/22/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	280	EPA 200.7
Nickel, Total	330	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1C
Sample Date	8/22/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W1E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: _____ ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: _____ ft

Elevation of Water Level: _____ ft./MSL

Sampling Depth: _____ ft

Volume of Water Column: _____ gal.

Total Well Depth: _____ ft.

Sampling Method: ☐ Pumped ☐ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/22/05

Sample Collection Time: 17:20

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-003

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W1E
Sample Date	8/22/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.25	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	252	EPA 200.7
Calcium, Dissolved	245	EPA 200.7D
Chemical Oxygen Demand	76	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.6	EPA 300.0
Iron (ug/l), Total	104000	EPA 200.7
Iron (ug/l), Dissolved	96400	EPA 200.7D
Magnesium, Total	118	EPA 200.7
Magnesium, Dissolved	120	EPA 200.7D
Manganese (ug/l), Total	32100	EPA 200.7
Manganese (ug/l), Dissolved	32400	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.01	
pH (standard units), Laboratory	3.6	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	4.4	EPA 200.7D
Sodium, Total	5.6	EPA 200.7
Sodium, Dissolved	5.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	565	
Specific Conductance (umhos/cm), Laboratory	1860	EPA 120.1
Sulfate	1280	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1820	SM2540-C
Total Organic Carbon	3.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	900	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	8/22/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	7	EPA 200.7
Cadmium, Dissolved	7	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	290	EPA 200.7
Zinc, Dissolved	280	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	8/22/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	8/22/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	340	EPA 200.7
Nickel, Total	430	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W1E
Sample Date	8/22/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W3A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 78.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1703.27 ft./MSL

Sampling Depth: 81.40 ft

Volume of Water Column: 13.99 gal.

Total Well Depth: 100.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/23/05

Sample Collection Time: 9:04

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-004

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W3A
Sample Date	8/23/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	248	SM4500-CO ₂ D
Calcium, Total	344	EPA 200.7
Calcium, Dissolved	314	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	19400	EPA 200.7
Iron (ug/l), Dissolved	490	EPA 200.7D
Magnesium, Total	69.8	EPA 200.7
Magnesium, Dissolved	69.4	EPA 200.7D
Manganese (ug/l), Total	14200	EPA 200.7
Manganese (ug/l), Dissolved	13600	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.2	
pH (standard units), Laboratory	6.88	SM4500-H+B
Potassium, Total	2.4	EPA 200.7
Potassium, Dissolved	2.3	EPA 200.7D
Sodium, Total	3.6	EPA 200.7
Sodium, Dissolved	3.5	EPA 200.7D
Specific Conductance (umhos/cm), Field		
Specific Conductance (umhos/cm), Laboratory	1540	EPA 120.1
Sulfate	930	EPA 300.0
Total Alkalinity	248	SM 18 2320B
Total Dissolved Solids	1460	SM2540-C
Total Organic Carbon	1.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	64	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	8/23/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	8/23/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchloroethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	8/23/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	50	EPA 200.7
Nickel, Total	50	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W3A
Sample Date	8/23/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 74.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.35 ft

Elevation of Water Level: 1702.31 ft./MSL

Sampling Depth: 79.90 ft

Volume of Water Column: 6.70 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.45

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 13:51

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508482-003

Final Lab Analysis Completion Date 09/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W4A
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	43	SM4500-CO ₂ D
Calcium, Total	7.7	EPA 200.7
Calcium, Dissolved	7.6	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	180	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	4.7	EPA 200.7
Magnesium, Dissolved	4.6	EPA 200.7D
Manganese (ug/l), Total	1040	EPA 200.7
Manganese (ug/l), Dissolved	1030	EPA 200.7D
Nitrate Nitrogen	0.08	EPA 300.0
pH (standard units), Field	5.76	
pH (standard units), Laboratory	6.26	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.6	EPA 200.7D
Sodium, Total	5.8	EPA 200.7
Sodium, Dissolved	5.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	86	
Specific Conductance (umhos/cm), Laboratory	112	EPA 120.1
Sulfate	14	EPA 300.0
Total Alkalinity	43	SM 18 2320B
Total Dissolved Solids	80	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	21	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	90	EPA 200.7
Barium, Dissolved	90	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4A
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 104.50 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.40 ft

Elevation of Water Level: 1674.53 ft./MSL

Sampling Depth: 104.50 ft

Volume of Water Column: 31.00 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 14:45

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508482-004

Final Lab Analysis Completion Date 09/15/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Murky brown.

I.D. No.	
Monitoring Point No.	W4B
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.15	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	105	EPA 200.7
Calcium, Dissolved	104	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	35100	EPA 200.7
Iron (ug/l), Dissolved	3380	EPA 200.7D
Magnesium, Total	33.8	EPA 200.7
Magnesium, Dissolved	32.2	EPA 200.7D
Manganese (ug/l), Total	6070	EPA 200.7
Manganese (ug/l), Dissolved	5910	EPA 200.7D
Nitrate Nitrogen	0.31	EPA 300.0
pH (standard units), Field	4.22	
pH (standard units), Laboratory	3.47	SM4500-H+B
Potassium, Total	2.5	EPA 200.7
Potassium, Dissolved	2.4	EPA 200.7D
Sodium, Total	25.2	EPA 200.7
Sodium, Dissolved	15.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	392	
Specific Conductance (umhos/cm), Laboratory	1010	EPA 120.1
Sulfate	560	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	786	SM2540-C
Total Organic Carbon	1.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	190	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4B
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	130	EPA 200.7
Copper, Dissolved	30	EPA 200.7D
Lead, Total	5.1	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	320	EPA 200.7
Zinc, Dissolved	150	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4B
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4B
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4B
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 196.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1582.16 ft./MSL

Sampling Depth: 200.20 ft

Volume of Water Column: 2.77 gal.

Total Well Depth: 201.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 0.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 13:37

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508482-005

Final Lab Analysis Completion Date 09/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Grey, murky.

I.D. No.	
Monitoring Point No.	W4C
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.41	EPA 350.1
Bicarbonate (as CaCO ₃)	9	SM4500-CO ₂ D
Calcium, Total	220	EPA 200.7
Calcium, Dissolved	221	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	200	EPA 200.7
Iron (ug/l), Dissolved	110	EPA 200.7D
Magnesium, Total	69.7	EPA 200.7
Magnesium, Dissolved	69.3	EPA 200.7D
Manganese (ug/l), Total	11900	EPA 200.7
Manganese (ug/l), Dissolved	12900	EPA 200.7D
Nitrate Nitrogen	0.18	EPA 300.0
pH (standard units), Field	5.55	
pH (standard units), Laboratory	5.29	SM4500-H+B
Potassium, Total	4.3	EPA 200.7
Potassium, Dissolved	4.3	EPA 200.7D
Sodium, Total	34	EPA 200.7
Sodium, Dissolved	33.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	516	
Specific Conductance (umhos/cm), Laboratory	1460	EPA 120.1
Sulfate	886	EPA 300.0
Total Alkalinity	9	SM 18 2320B
Total Dissolved Solids	1310	SM2540-C
Total Organic Carbon	1.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	240	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	4.4	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W4C
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 14 . 00 "

Depth to Water Level: 85.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.30 ft

Elevation of Water Level: 1664.39 ft./MSL

Sampling Depth: 88.00 ft

Volume of Water Column: 1.37 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 3.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/23/05

Sample Collection Time: 14:40

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-007

Final Lab Analysis Completion Date 09/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: _____

I.D. No.	
Monitoring Point No.	W6A
Sample Date	8/23/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.55	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	106	EPA 200.7
Calcium, Dissolved	99	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.8	EPA 300.0
Iron (ug/l), Total	86900	EPA 200.7
Iron (ug/l), Dissolved	80900	EPA 200.7D
Magnesium, Total	17.8	EPA 200.7
Magnesium, Dissolved	17.5	EPA 200.7D
Manganese (ug/l), Total	1750	EPA 200.7
Manganese (ug/l), Dissolved	1680	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	3.8	
pH (standard units), Laboratory	3.96	SM4500-H+B
Potassium, Total	3.2	EPA 200.7
Potassium, Dissolved	2.7	EPA 200.7D
Sodium, Total	2.9	EPA 200.7
Sodium, Dissolved	2.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	375	
Specific Conductance (umhos/cm), Laboratory	902	EPA 120.1
Sulfate	500	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	978	SM2540-C
Total Organic Carbon	1.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1000	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	8/23/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	10.2	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	410	EPA 200.7
Zinc, Dissolved	380	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	8/23/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	8/23/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	70	EPA 200.7
Nickel, Total	130	EPA 200.7
Thallium, Total	2.4	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6A
Sample Date	8/23/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 87.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.04 ft

Elevation of Water Level: 1663.97 ft./MSL

Sampling Depth: 97.50 ft

Volume of Water Column: 72.14 gal.

Total Well Depth: 197.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/23/05

Sample Collection Time: 13:27

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-006

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: _____

I.D. No.	
Monitoring Point No.	W6C
Sample Date	8/23/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	16	SM4500-CO ₂ D
Calcium, Total	33.3	EPA 200.7
Calcium, Dissolved	29.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	6250	EPA 200.7
Iron (ug/l), Dissolved	4810	EPA 200.7D
Magnesium, Total	4.4	EPA 200.7
Magnesium, Dissolved	4.2	EPA 200.7D
Manganese (ug/l), Total	330	EPA 200.7
Manganese (ug/l), Dissolved	290	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.44	
pH (standard units), Laboratory	5.89	SM4500-H+B
Potassium, Total	1.1	EPA 200.7
Potassium, Dissolved	1	EPA 200.7D
Sodium, Total	0.6	EPA 200.7
Sodium, Dissolved	0.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	251	
Specific Conductance (umhos/cm), Laboratory	227	EPA 120.1
Sulfate	85	EPA 300.0
Total Alkalinity	16	SM 18 2320B
Total Dissolved Solids	158	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	6	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	8/23/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	8/23/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchloroethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	8/23/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6C
Sample Date	8/23/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W6E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 17 . 00 "

Longitude: 78 ° 24 ' 13 . 00 "

Depth to Water Level: 89.60 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.36 ft

Elevation of Water Level: 1664.68 ft./MSL

Sampling Depth: 93.20 ft

Volume of Water Column: 20.46 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/23/05

Sample Collection Time: 11:25

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508448-005

Final Lab Analysis Completion Date 08/31/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W6E
Sample Date	8/23/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	86	SM4500-CO ₂ D
Calcium, Total	172	EPA 200.7
Calcium, Dissolved	158	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	8220	EPA 200.7
Iron (ug/l), Dissolved	4400	EPA 200.7D
Magnesium, Total	18.1	EPA 200.7
Magnesium, Dissolved	17.8	EPA 200.7D
Manganese (ug/l), Total	1460	EPA 200.7
Manganese (ug/l), Dissolved	1360	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.16	
pH (standard units), Laboratory	6.64	SM4500-H+B
Potassium, Total	1.4	EPA 200.7
Potassium, Dissolved	1.3	EPA 200.7D
Sodium, Total	0.8	EPA 200.7
Sodium, Dissolved	0.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	338	
Specific Conductance (umhos/cm), Laboratory	796	EPA 120.1
Sulfate	404	EPA 300.0
Total Alkalinity	86	SM 18 2320B
Total Dissolved Solids	646	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	3	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	8/23/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	8/23/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	8/23/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W6E
Sample Date	8/23/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 162.90 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.25 ft

Elevation of Water Level: 1665.78 ft./MSL

Sampling Depth: 164.00 ft

Volume of Water Column: 4.02 gal.

Total Well Depth: 169.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 0.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 16:45

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-001

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W22C
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	13	SM4500-CO ₂ D
Calcium, Total	123	EPA 200.7
Calcium, Dissolved	115	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	< 50	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	30.9	EPA 200.7
Magnesium, Dissolved	29.3	EPA 200.7D
Manganese (ug/l), Total	1690	EPA 200.7
Manganese (ug/l), Dissolved	1590	EPA 200.7D
Nitrate Nitrogen	0.45	EPA 300.0
pH (standard units), Field	4.51	
pH (standard units), Laboratory	5.69	SM4500-H+B
Potassium, Total	4.7	EPA 200.7
Potassium, Dissolved	4.5	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	3.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	823	
Specific Conductance (umhos/cm), Laboratory	748	EPA 120.1
Sulfate	449	EPA 300.0
Total Alkalinity	13	SM 18 2320B
Total Dissolved Solids	638	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	26	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22C
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W22E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: _____ ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: _____ ft

Elevation of Water Level: _____ ft./MSL

Sampling Depth: _____ ft

Volume of Water Column: _____ gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: _____

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 16:35

Sample Collector's Name: Randy Wood

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-002

Final Lab Analysis Completion Date 09/15/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W22E
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.15	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	100	EPA 200.7
Calcium, Dissolved	96.6	EPA 200.7D
Chemical Oxygen Demand	14	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	148000	EPA 200.7
Iron (ug/l), Dissolved	83200	EPA 200.7D
Magnesium, Total	71.6	EPA 200.7
Magnesium, Dissolved	71.5	EPA 200.7D
Manganese (ug/l), Total	21000	EPA 200.7
Manganese (ug/l), Dissolved	18700	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.46	
pH (standard units), Laboratory	3.17	SM4500-H+B
Potassium, Total	5.6	EPA 200.7
Potassium, Dissolved	5.8	EPA 200.7D
Sodium, Total	3.8	EPA 200.7
Sodium, Dissolved	3.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	1320	
Specific Conductance (umhos/cm), Laboratory	1370	EPA 120.1
Sulfate	885	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1210	SM2540-C
Total Organic Carbon	1.2	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	54	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	6	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	20	EPA 200.7D
Lead, Total	5.4	EPA 200.8
Lead, Dissolved	12.6	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	170	EPA 200.7
Zinc, Dissolved	200	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	180	EPA 200.7
Nickel, Total	200	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W22E
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 44.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.68 ft

Elevation of Water Level: 1636.35 ft./MSL

Sampling Depth: 44.50 ft

Volume of Water Column: 10.56 gal.

Total Well Depth: 60.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 10:58

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-005

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Murky brown - sulfur odor.

I.D. No.	
Monitoring Point No.	NW1B
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.15	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	419	EPA 200.7
Calcium, Dissolved	387	EPA 200.7D
Chemical Oxygen Demand	23	HACH 8000
Chloride	4	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	155000	EPA 200.7
Iron (ug/l), Dissolved	93700	EPA 200.7D
Magnesium, Total	116	EPA 200.7
Magnesium, Dissolved	108	EPA 200.7D
Manganese (ug/l), Total	18500	EPA 200.7
Manganese (ug/l), Dissolved	18300	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.36	
pH (standard units), Laboratory	4.28	SM4500-H+B
Potassium, Total	3.8	EPA 200.7
Potassium, Dissolved	3.8	EPA 200.7D
Sodium, Total	4.7	EPA 200.7
Sodium, Dissolved	4.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	2340	
Specific Conductance (umhos/cm), Laboratory	2230	EPA 120.1
Sulfate	1780	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2550	SM2540-C
Total Organic Carbon	2	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	150	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1B
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 88.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1590.87 ft./MSL

Sampling Depth: 110.00 ft

Volume of Water Column: 34.12 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 11:15

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-006

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW1C
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.13	EPA 350.1
Bicarbonate (as CaCO ₃)	82	SM4500-CO ₂ D
Calcium, Total	41.1	EPA 200.7
Calcium, Dissolved	40.2	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	480	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	9.2	EPA 200.7
Magnesium, Dissolved	9.2	EPA 200.7D
Manganese (ug/l), Total	1050	EPA 200.7
Manganese (ug/l), Dissolved	1080	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.31	
pH (standard units), Laboratory	6.58	SM4500-H+B
Potassium, Total	2.2	EPA 200.7
Potassium, Dissolved	2.2	EPA 200.7D
Sodium, Total	9.2	EPA 200.7
Sodium, Dissolved	9.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	361	
Specific Conductance (umhos/cm), Laboratory	328	EPA 120.1
Sulfate	92	EPA 300.0
Total Alkalinity	82	SM 18 2320B
Total Dissolved Solids	240	SM2540-C
Total Organic Carbon	1.4	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	260	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	70	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW1C
Sample Date	8/25/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW2C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 03 . 00 "

Depth to Water Level: 60.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1545.20 ft./MSL

Sampling Depth: 68.50 ft

Volume of Water Column: 8.46 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/26/05

Sample Collection Time: 9:30

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508532-001

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Murky grey.

I.D. No.	
Monitoring Point No.	NW2C
Sample Date	8/26/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	19	SM4500-CO ₂ D
Calcium, Total	4.2	EPA 200.7
Calcium, Dissolved	4.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	3130	EPA 200.7
Iron (ug/l), Dissolved	360	EPA 200.7D
Magnesium, Total	3.5	EPA 200.7
Magnesium, Dissolved	3.9	EPA 200.7D
Manganese (ug/l), Total	1330	EPA 200.7
Manganese (ug/l), Dissolved	1460	EPA 200.7D
Nitrate Nitrogen	0.05	EPA 300.0
pH (standard units), Field	4	
pH (standard units), Laboratory	5.63	SM4500-H+B
Potassium, Total	2	EPA 200.7
Potassium, Dissolved	2.1	EPA 200.7D
Sodium, Total	1.6	EPA 200.7
Sodium, Dissolved	1.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	92	
Specific Conductance (umhos/cm), Laboratory	76	EPA 120.1
Sulfate	20	EPA 300.0
Total Alkalinity	19	SM 18 2320B
Total Dissolved Solids	88	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	3000	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	8/26/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	40	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	8/26/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchloroethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	8/26/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW2C
Sample Date	8/26/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 5.50 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 4.68 ft

Elevation of Water Level: 1668.34 ft./MSL

Sampling Depth: 9.10 ft

Volume of Water Column: 29.37 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 14:48

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-009

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Light grey to clear.

I.D. No.	
Monitoring Point No.	NW3B
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	4.04	EPA 350.1D
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	200	EPA 200.7
Calcium, Dissolved	184	EPA 200.7D
Chemical Oxygen Demand	45	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	350000	EPA 200.7
Iron (ug/l), Dissolved	287000	EPA 200.7D
Magnesium, Total	126	EPA 200.7
Magnesium, Dissolved	118	EPA 200.7D
Manganese (ug/l), Total	37700	EPA 200.7
Manganese (ug/l), Dissolved	36400	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.36	
pH (standard units), Laboratory	3.74	SM4500-H+B
Potassium, Total	6.8	EPA 200.7
Potassium, Dissolved	6.8	EPA 200.7D
Sodium, Total	2.6	EPA 200.7
Sodium, Dissolved	2.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	2240	
Specific Conductance (umhos/cm), Laboratory	2220	EPA 120.1
Sulfate	271	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2530	SM2540-C
Total Organic Carbon	1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	190	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	11	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	10	EPA 200.7D
Zinc, Total	170	EPA 200.7
Zinc, Dissolved	160	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	100	EPA 200.7
Nickel, Total	100	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 78.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.53 ft

Elevation of Water Level: 1594.56 ft./MSL

Sampling Depth: 79.10 ft

Volume of Water Column: 30.88 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 15:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-010

Final Lab Analysis Completion Date 09/08/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear but with a slight rust brown tint.

I.D. No.	
Monitoring Point No.	NW3C
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 1.50	EPA 350.1D
Bicarbonate (as CaCO ₃)	39	SM4500-CO ₂ D
Calcium, Total	8	EPA 200.7
Calcium, Dissolved	8.1	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	9610	EPA 200.7
Iron (ug/l), Dissolved	550	EPA 200.7D
Magnesium, Total	5	EPA 200.7
Magnesium, Dissolved	4.8	EPA 200.7D
Manganese (ug/l), Total	1420	EPA 200.7
Manganese (ug/l), Dissolved	1390	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.33	
pH (standard units), Laboratory	6.13	SM4500-H+B
Potassium, Total	1.3	EPA 200.7
Potassium, Dissolved	1.4	EPA 200.7D
Sodium, Total	1.3	EPA 200.7
Sodium, Dissolved	1.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	180	
Specific Conductance (umhos/cm), Laboratory	112	EPA 120.1
Sulfate	29	EPA 300.0
Total Alkalinity	39	SM 18 2320B
Total Dissolved Solids	96	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	110	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	80	EPA 200.7
Barium, Dissolved	90	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	0.78	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 63.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.99 ft

Elevation of Water Level: 1589.92 ft./MSL

Sampling Depth: 69.50 ft

Volume of Water Column: 7.80 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.80

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 12:00

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508482-002

Final Lab Analysis Completion Date 09/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Dark grey, no odor.

I.D. No.	
Monitoring Point No.	NW4B
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	31	SM4500-CO ₂ D
Calcium, Total	26.8	EPA 200.7
Calcium, Dissolved	26.5	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	530	EPA 200.7
Iron (ug/l), Dissolved	100	EPA 200.7D
Magnesium, Total	11.7	EPA 200.7
Magnesium, Dissolved	11.7	EPA 200.7D
Manganese (ug/l), Total	4680	EPA 200.7
Manganese (ug/l), Dissolved	4680	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.26	
pH (standard units), Laboratory	6.24	SM4500-H+B
Potassium, Total	2.4	EPA 200.7
Potassium, Dissolved	2.4	EPA 200.7D
Sodium, Total	5.4	EPA 200.7
Sodium, Dissolved	5.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	171	
Specific Conductance (umhos/cm), Laboratory	286	EPA 120.1
Sulfate	107	EPA 300.0
Total Alkalinity	31	SM 18 2320B
Total Dissolved Solids	218	SM2540-C
Total Organic Carbon	0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1600	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 108.30 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.79 ft

Elevation of Water Level: 1543.73 ft./MSL

Sampling Depth: 117.90 ft

Volume of Water Column: 20.90 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/24/05

Sample Collection Time: 10:45

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508482-001

Final Lab Analysis Completion Date 09/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Dark grey, no odor.

I.D. No.	
Monitoring Point No.	NW4C
Sample Date	8/24/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.25	EPA 350.1
Bicarbonate (as CaCO ₃)	81	SM4500-CO ₂ D
Calcium, Total	29.1	EPA 200.7
Calcium, Dissolved	28.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	2130	EPA 200.7
Iron (ug/l), Dissolved	740	EPA 200.7D
Magnesium, Total	7.2	EPA 200.7
Magnesium, Dissolved	7.2	EPA 200.7D
Manganese (ug/l), Total	1600	EPA 200.7
Manganese (ug/l), Dissolved	1560	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.56	
pH (standard units), Laboratory	6.79	SM4500-H+B
Potassium, Total	3.2	EPA 200.7
Potassium, Dissolved	3.2	EPA 200.7D
Sodium, Total	9	EPA 200.7
Sodium, Dissolved	9.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	173	
Specific Conductance (umhos/cm), Laboratory	296	EPA 120.1
Sulfate	89	EPA 300.0
Total Alkalinity	81	SM 18 2320B
Total Dissolved Solids	212	SM2540-C
Total Organic Carbon	2.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	10500	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	8/24/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	8/24/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchloroethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	8/24/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	8/24/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 23 ' 33 . 00 "

Depth to Water Level: 33.40 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1671.49 ft./MSL

Sampling Depth: 38.00 ft

Volume of Water Column: 24.16 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 8:48

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-003

Final Lab Analysis Completion Date 09/08/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear - No odor.

I.D. No.	
Monitoring Point No.	NW5B
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	46.5	EPA 200.7
Calcium, Dissolved	42.9	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	61700	EPA 200.7
Iron (ug/l), Dissolved	15600	EPA 200.7D
Magnesium, Total	37.8	EPA 200.7
Magnesium, Dissolved	36.5	EPA 200.7D
Manganese (ug/l), Total	15300	EPA 200.7
Manganese (ug/l), Dissolved	13900	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.35	
pH (standard units), Laboratory	3.61	SM4500-H+B
Potassium, Total	1.9	EPA 200.7
Potassium, Dissolved	1.8	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	737	
Specific Conductance (umhos/cm), Laboratory	749	EPA 120.1
Sulfate	424	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	642	SM2540-C
Total Organic Carbon	1.2	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	72	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 23 ' 32 . 00 "

Depth to Water Level: 101.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.90 ft

Elevation of Water Level: 1602.72 ft./MSL

Sampling Depth: 109.00 ft

Volume of Water Column: 15.31 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.45

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 9:07

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-004

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form _____

Comments: Dark black, no odor.

I.D. No.	
Monitoring Point No.	NW5C
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	131	EPA 200.7
Calcium, Dissolved	125	EPA 200.7D
Chemical Oxygen Demand	16	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	99200	EPA 200.7
Iron (ug/l), Dissolved	62500	EPA 200.7D
Magnesium, Total	77.4	EPA 200.7
Magnesium, Dissolved	76.9	EPA 200.7D
Manganese (ug/l), Total	24600	EPA 200.7
Manganese (ug/l), Dissolved	26100	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.36	
pH (standard units), Laboratory	3.47	SM4500-H+B
Potassium, Total	5.7	EPA 200.7
Potassium, Dissolved	6.2	EPA 200.7D
Sodium, Total	60.1	EPA 200.7
Sodium, Dissolved	61.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	673	
Specific Conductance (umhos/cm), Laboratory	1590	EPA 120.1
Sulfate	917	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1510	SM2540-C
Total Organic Carbon	1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1700	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	20	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	9.8	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	110	EPA 200.7
Zinc, Dissolved	150	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	50	EPA 200.7
Nickel, Total	70	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW6B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 17 . 00 "

Depth to Water Level: 42.80 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.22 ft

Elevation of Water Level: 1585.99 ft./MSL

Sampling Depth: 47.00 ft

Volume of Water Column: 21.50 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 13:06

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-007

Final Lab Analysis Completion Date 09/06/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Light brown to clear.

I.D. No.	
Monitoring Point No.	NW6B
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	32	SM4500-CO ₂ D
Calcium, Total	88.2	EPA 200.7
Calcium, Dissolved	73.2	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	5430	EPA 200.7
Iron (ug/l), Dissolved	1260	EPA 200.7D
Magnesium, Total	35.7	EPA 200.7
Magnesium, Dissolved	30.4	EPA 200.7D
Manganese (ug/l), Total	5340	EPA 200.7
Manganese (ug/l), Dissolved	4740	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field	4.43	
pH (standard units), Laboratory	5.72	SM4500-H+B
Potassium, Total	3.3	EPA 200.7
Potassium, Dissolved	3	EPA 200.7D
Sodium, Total	10.6	EPA 200.7
Sodium, Dissolved	9.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	802	
Specific Conductance (umhos/cm), Laboratory	580	EPA 120.1
Sulfate	343	EPA 300.0
Total Alkalinity	32	SM 18 2320B
Total Dissolved Solids	460	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	30	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	140	EPA 200.7
Barium, Dissolved	140	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	150	EPA 200.7
Zinc, Dissolved	100	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	90	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6B
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 18 . 00 "

Depth to Water Level: 89.90 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.08 ft

Elevation of Water Level: 1537.27 ft./MSL

Sampling Depth: 112.30 ft

Volume of Water Column: 23.16 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 08/25/05

Sample Collection Time: 13:20

Sample Collector's Name: Scott Sanabria

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0508525-008

Final Lab Analysis Completion Date 09/07/05

Name/Affiliation of Person who Filled out Form _____

Comments: Dark grey and silty.

I.D. No.	
Monitoring Point No.	NW6C
Sample Date	8/25/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	71	SM4500-CO ₂ D
Calcium, Total	17.5	EPA 200.7
Calcium, Dissolved	16.7	EPA 200.7D
Chemical Oxygen Demand	310	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	1830	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	5.9	EPA 200.7
Magnesium, Dissolved	5.7	EPA 200.7D
Manganese (ug/l), Total	870	EPA 200.7
Manganese (ug/l), Dissolved	840	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.46	
pH (standard units), Laboratory	6.53	SM4500-H+B
Potassium, Total	2.6	EPA 200.7
Potassium, Dissolved	2.7	EPA 200.7D
Sodium, Total	6.6	EPA 200.7
Sodium, Dissolved	6.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	191	
Specific Conductance (umhos/cm), Laboratory	174	EPA 120.1
Sulfate	22	EPA 300.0
Total Alkalinity	71	SM 18 2320B
Total Dissolved Solids	152	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	6200	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	8/25/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	50	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	8/25/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene		
Bromoform (Tribromometane)		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane (Ethyl Chloride)		
3-Chloro-1propene		
Dibromochloromethane (Chlorodibromomethane)		
1,2 Dibromoethane (EDB)		
o-Dichlorobenzene (1,2-Dichlorobenzene)		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		
Dichlorodifluoromethane		
1,1-Dichloroethane (Ethylidene chloride)		
1,1-Dichloroethene (Vinylidene chloride)		
1,2-Dichloroethane (Ethylene dichloride)		
Cis 1,2-Dichloroethene		
Trans 1,2-Dichloroethene		
1,2-Dichloropropane (Propylene Dichloride)		
Cis-1,3Dichloropropene		
Trans-1,3-Dichloropropene		
Ethyl Benzene		
Methyl Bromide (Bromomethane)		
Methyl Chloride (Chloromethane)		
Methylene chloride		
Methyl Ethyl Ketone (2-Butanone)		
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
1,1,1,2-Tetrachloroethane		
1,1,2,2-Tetrachloroethane		
Tetrachloroethene (Perchlorethylene)		
Toluene		
1,1,1,-Trichloroethane (Methyl chloroform)		
1,1,2-Trichloroethane		
Trichloroethene		
Trichlorofluoromethane (CFC-11)		
1,2,3-Trichloropropane		
Vinyl chloride		
Xylene		

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	8/25/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone		
Acrylonitrile		
Bromochloromethane (Chlorobromometane)		
Bromodichloromethane (Dichlorobromomethane)		
Carbon Disulfide		
Trichloromethane (Chloroform)		
1,2-Dibromo-3-Chloropropane (DBCP)		
trans-1,4-Dichloro-2-Butene		
Methyl butyl ketone (2-Hexanone)		
Methylene bromide (Dibromomethane)		
Methyl iodide (Iodomethane)		
Styrene		
Vinyl Acetate		
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW6C
Sample Date	8/25/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-4
September 2005 Ground Water Monitoring Wells
(Private Water Wells)**

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June-17

DEP USE ONLY

Date Received

FORM 8
MUNICIPAL WASTE LANDFILLS
BASELINE GROUND WATER ANALYSES

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee	PA Waste LLC

Site Name	Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Levin Front Well

☒ Well ☐ Spring ☐ Stream ☐ Other☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County	Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: ° ' . "

Longitude: 0 1 .

Depth to Water Level: NR ft

Measured from: ☒ Land Surface ☐ TOC

Casing Stick Up:	NR	ft

Elevation of Water Level: NA ft./MSL

Sampling Depth:	NR	ft

Volume of Water Column: NA gal.

Total Well Depth:	120.00	ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 09/07/05

Sample Collection Time: 0:00

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s)	G0509150-002

Final Lab Analysis Completion Date 09/21/05

Name/Affiliation of Person who Filled out Form

Comments:

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	9/7/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	8	SM4500-CO ₂ D
Calcium, Total	76.6	EPA 200.7
Calcium, Dissolved	78.6	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	12	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	118000	EPA 200.7
Iron (ug/l), Dissolved	120000	EPA 200.7D
Magnesium, Total	49.5	EPA 200.7
Magnesium, Dissolved	50.7	EPA 200.7D
Manganese (ug/l), Total	21900	EPA 200.7
Manganese (ug/l), Dissolved	22200	EPA 200.7D
Nitrate Nitrogen	<0.05	EPA 353.2
pH (standard units), Field	5.08	
pH (standard units), Laboratory	5.18	SM4500-H+B
Potassium, Total	2.3	EPA 200.7
Potassium, Dissolved	2.4	EPA 200.7D
Sodium, Total	4	EPA 200.7
Sodium, Dissolved	4.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	365	
Specific Conductance (umhos/cm), Laboratory	1030	EPA 120.1
Sulfate	633	EPA 300.0
Total Alkalinity	8	SM 18 2320B
Total Dissolved Solids	954	SM2540-C
Total Organic Carbon	<0.5	SM 19 5310-C
Total Phenolics (ug/l)	<10.0	EPA 420.1
Turbidity (NTU)	85	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Front Well
Sample Date	9/7/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	<10	EPA 200.7
Barium, Dissolved	<10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	30	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	130	EPA 200.7
Zinc, Dissolved	130	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	9/7/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchlorethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	9/7/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	160	EPA 200.7
Nickel, Total	160	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Front Well
Sample Date	9/7/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

June-17

DEP USE ONLY

Date Received

FORM 8
MUNICIPAL WASTE LANDFILLS
BASELINE GROUND WATER ANALYSES

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee	PA Waste LLC

Site Name	Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Levin Back Well

☒ Well ☐ Spring ☐ Stream ☐ Other☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County	Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: ° ' . "

Longitude: 0 1 .

Depth to Water Level: NR ft

Measured from: ☒ Land Surface ☐ TOC

Casing Stick Up:	NR	ft

Elevation of Water Level: NA ft./MSL

Sampling Depth:	NR	ft

Volume of Water Column: NA gal.

Total Well Depth:	75.00	ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 09/07/05

Sample Collection Time: 0:00

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0509150-003

Final Lab Analysis Completion Date 09/20/05

Name/Affiliation of Person who Filled out Form

Comments:

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	9/7/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1
Bicarbonate (as CaCO ₃)	<5	SM4500-CO ₂ D
Calcium, Total	77.4	EPA 200.7
Calcium, Dissolved	79.1	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.4	EPA 300.0
Iron (ug/l), Total	114000	EPA 200.7
Iron (ug/l), Dissolved	102000	EPA 200.7D
Magnesium, Total	34.9	EPA 200.7
Magnesium, Dissolved	35.2	EPA 200.7D
Manganese (ug/l), Total	14900	EPA 200.7
Manganese (ug/l), Dissolved	14800	EPA 200.7D
Nitrate Nitrogen	<0.05	EPA 353.2
pH (standard units), Field	5.13	
pH (standard units), Laboratory	4.05	SM4500-H+B
Potassium, Total	2.5	EPA 200.7
Potassium, Dissolved	2.5	EPA 200.7D
Sodium, Total	1.1	EPA 200.7
Sodium, Dissolved	1.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	328	
Specific Conductance (umhos/cm), Laboratory	906	EPA 120.1
Sulfate	536	EPA 300.0
Total Alkalinity	<5	SM 18 2320B
Total Dissolved Solids	778	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	<10.0	EPA 420.1
Turbidity (NTU)	140	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	9/7/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	<10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	9/7/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchlorethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	9/7/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	<10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Back Well
Sample Date	9/7/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Gallaher Well

☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: ° ' . "

Longitude: ° ' . "

Depth to Water Level: NA ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NA ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: NA ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 09/07/05

Sample Collection Time: 0:00

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0509150-004

Final Lab Analysis Completion Date 09/20/05

Name/Affiliation of Person who Filled out Form

Comments:

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	9/7/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	<0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	12	SM4500-CO ₂ D
Calcium, Total	41.2	EPA 200.7
Calcium, Dissolved	40.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	54	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	100	EPA 200.7
Iron (ug/l), Dissolved	<50	EPA 200.7D
Magnesium, Total	29.1	EPA 200.7
Magnesium, Dissolved	28.8	EPA 200.7D
Manganese (ug/l), Total	5280	EPA 200.7
Manganese (ug/l), Dissolved	5210	EPA 200.7D
Nitrate Nitrogen	0.21	EPA 353.2
pH (standard units), Field	4.44	
pH (standard units), Laboratory	5.41	SM4500-H+B
Potassium, Total	5.7	EPA 200.7
Potassium, Dissolved	5.8	EPA 200.7D
Sodium, Total	22.1	EPA 200.7
Sodium, Dissolved	22.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	255	
Specific Conductance (umhos/cm), Laboratory	599	EPA 120.1
Sulfate	211	EPA 300.0
Total Alkalinity	12	SM 18 2320B
Total Dissolved Solids	406	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	<10.0	EPA 420.1
Turbidity (NTU)	0.6	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Gallaher Well
Sample Date	9/7/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	500	EPA 200.7
Zinc, Dissolved	490	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	9/7/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	9/7/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	60	EPA 200.7
Nickel, Total	210	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	9/7/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-5
November 2005 Ground Water Monitoring Wells**

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FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 47.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1780.57 ft./MSL

Sampling Depth: 48.00 ft

Volume of Water Column: 1.00 gal.

Total Well Depth: 48.73 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: > 1

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 8:45

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-002

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W-1A
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.76	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	16.5	EPA 200.7
Calcium, Dissolved	13.6	EPA 200.7D
Chemical Oxygen Demand	56	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	43700	EPA 200.7
Iron (ug/l), Dissolved	17100	EPA 200.7D
Magnesium, Total	8.9	EPA 200.7
Magnesium, Dissolved	6.2	EPA 200.7D
Manganese (ug/l), Total	2710	EPA 200.7
Manganese (ug/l), Dissolved	1980	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 300.0
pH (standard units), Field	4.38	
pH (standard units), Laboratory	3.6	SM4500-H+B
Potassium, Total	3.3	EPA 200.7
Potassium, Dissolved	3.8	EPA 200.7D
Sodium, Total	3.1	EPA 200.7
Sodium, Dissolved	4.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	221	
Specific Conductance (umhos/cm), Laboratory	300	EPA 120.1
Sulfate	93	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	176	SM2540-C
Total Organic Carbon	3.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1700	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	10	EPA 200.7
Chromium, Dissolved	20	EPA 200.7D
Copper, Total	50	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	6.4	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	120	EPA 200.7
Zinc, Dissolved	90	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	2	EPA 200.7
Cobalt, Total	50	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	11/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 76.61 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1751.38 ft./MSL

Sampling Depth: 80.00 ft

Volume of Water Column: 8.94 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/15/05

Sample Collection Time: 20:10

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-003

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	W-1B
Sample Date	11/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.33	EPA 350.1
Bicarbonate (as CaCO ₃)	56	SM4500-CO ₂ D
Calcium, Total	264	EPA 200.7
Calcium, Dissolved	266	EPA 200.7D
Chemical Oxygen Demand	50	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	140000	EPA 200.7
Iron (ug/l), Dissolved	135000	EPA 200.7D
Magnesium, Total	131	EPA 200.7
Magnesium, Dissolved	131	EPA 200.7D
Manganese (ug/l), Total	36900	EPA 200.7
Manganese (ug/l), Dissolved	36900	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.31	
pH (standard units), Laboratory	6.01	SM4500-H+B
Potassium, Total	3.6	EPA 200.7
Potassium, Dissolved	3.7	EPA 200.7D
Sodium, Total	8.2	EPA 200.7
Sodium, Dissolved	8.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	2350	
Specific Conductance (umhos/cm), Laboratory	1720	EPA 120.1
Sulfate	1510	EPA 300.0
Total Alkalinity	56	SM 18 2320B
Total Dissolved Solids	1920	SM2540-C
Total Organic Carbon	3.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	24	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	11/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	100	EPA 200.7
Zinc, Dissolved	80	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	11/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	11/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 1	EPA 200.7
Cobalt, Total	160	EPA 200.7
Nickel, Total	100	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	11/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 73.62 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.51 ft

Elevation of Water Level: 1753.98 ft./MSL

Sampling Depth: 95.00 ft

Volume of Water Column: 36.55 gal.

Total Well Depth: 129.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/15/05

Sample Collection Time: 20:55

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-004

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-1C
Sample Date	11/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.33	EPA 350.1
Bicarbonate (as CaCO ₃)	7	SM4500-CO ₂ D
Calcium, Total	268	EPA 200.7
Calcium, Dissolved	260	EPA 200.7D
Chemical Oxygen Demand	13	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	105000	EPA 200.7
Iron (ug/l), Dissolved	99500	EPA 200.7D
Magnesium, Total	119	EPA 200.7
Magnesium, Dissolved	116	EPA 200.7D
Manganese (ug/l), Total	31000	EPA 200.7
Manganese (ug/l), Dissolved	29500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.29	
pH (standard units), Laboratory	5.25	SM4500-H+B
Potassium, Total	3.4	EPA 200.7
Potassium, Dissolved	3	EPA 200.7D
Sodium, Total	12	EPA 200.7
Sodium, Dissolved	13	EPA 200.7D
Specific Conductance (umhos/cm), Field	2160	
Specific Conductance (umhos/cm), Laboratory	1630	EPA 120.1
Sulfate	1550	EPA 300.0
Total Alkalinity	7	SM 18 2320B
Total Dissolved Solids	1870	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	23	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	11/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	290	EPA 200.7
Zinc, Dissolved	280	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	11/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	11/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	1	EPA 200.7
Cobalt, Total	290	EPA 200.7
Nickel, Total	330	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	11/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-3A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 79.65 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1701.92 ft./MSL

Sampling Depth: 99.58 ft

Volume of Water Column: 13.43 gal.

Total Well Depth: 100.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 10:35

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-005

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-3A
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1
Bicarbonate (as CaCO ₃)	228	SM4500-CO ₂ D
Calcium, Total	285	EPA 200.7
Calcium, Dissolved	301	EPA 200.7D
Chemical Oxygen Demand	35	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	26400	EPA 200.7
Iron (ug/l), Dissolved	18200	EPA 200.7D
Magnesium, Total	61.4	EPA 200.7
Magnesium, Dissolved	64.7	EPA 200.7D
Manganese (ug/l), Total	13400	EPA 200.7
Manganese (ug/l), Dissolved	13800	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.32	
pH (standard units), Laboratory	7.14	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	2.1	EPA 200.7D
Sodium, Total	3.5	EPA 200.7
Sodium, Dissolved	3.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	1730	
Specific Conductance (umhos/cm), Laboratory	1280	EPA 120.1
Sulfate	758	EPA 300.0
Total Alkalinity	228	SM 18 2320B
Total Dissolved Solids	1210	SM2540-C
Total Organic Carbon	1.4	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	190	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	220	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	6.8	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchlorethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 1	EPA 200.7
Cobalt, Total	50	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	11/16/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 104.59 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.13 ft

Elevation of Water Level: 1676.52 ft./MSL

Sampling Depth: 107.95 ft

Volume of Water Column: 40.53 gal.

Total Well Depth: 166.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 15:45

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-003

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-3B
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.78	EPA 350.1
Bicarbonate (as CaCO ₃)	14	SM4500-CO ₂ D
Calcium, Total	377	EPA 200.7
Calcium, Dissolved	377	EPA 200.7D
Chemical Oxygen Demand	20	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	179000	EPA 200.7
Iron (ug/l), Dissolved	180000	EPA 200.7D
Magnesium, Total	116	EPA 200.7
Magnesium, Dissolved	116	EPA 200.7D
Manganese (ug/l), Total	20800	EPA 200.7
Manganese (ug/l), Dissolved	20800	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	5.97	
pH (standard units), Laboratory	5.17	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	5	EPA 200.7D
Sodium, Total	6.7	EPA 200.7
Sodium, Dissolved	8	EPA 200.7D
Specific Conductance (umhos/cm), Field	2560	
Specific Conductance (umhos/cm), Laboratory	1870	EPA 120.1
Sulfate	1810	EPA 300.0
Total Alkalinity	14	SM 18 2320B
Total Dissolved Solids	2450	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	5.5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-3B
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 74.60 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.35 ft

Elevation of Water Level: 1704.36 ft./MSL

Sampling Depth: 80.00 ft

Volume of Water Column: 6.53 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 12:14

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-003

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-4A
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.12	EPA 350.1
Bicarbonate (as CaCO ₃)	44	SM4500-CO ₂ D
Calcium, Total	9.6	EPA 200.7
Calcium, Dissolved	9.4	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	5750	EPA 200.7
Iron (ug/l), Dissolved	280	EPA 200.7D
Magnesium, Total	5.1	EPA 200.7
Magnesium, Dissolved	4.5	EPA 200.7D
Manganese (ug/l), Total	600	EPA 200.7
Manganese (ug/l), Dissolved	420	EPA 200.7D
Nitrate Nitrogen	0.16	EPA 300.0
pH (standard units), Field	4.13	
pH (standard units), Laboratory	6.45	SM4500-H+B
Potassium, Total	3.3	EPA 200.7
Potassium, Dissolved	1.7	EPA 200.7D
Sodium, Total	10.5	EPA 200.7
Sodium, Dissolved	6.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	160	
Specific Conductance (umhos/cm), Laboratory	128	EPA 120.1
Sulfate	17	EPA 300.0
Total Alkalinity	44	SM 18 2320B
Total Dissolved Solids	110	SM2540-C
Total Organic Carbon	2.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	150	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	100	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	6.7	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchlorethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	11/17/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 104.66 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.40 ft

Elevation of Water Level: 1674.37 ft./MSL

Sampling Depth: 104.97 ft

Volume of Water Column: 30.91 gal.

Total Well Depth: 151.50 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.90

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 11:50

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-004

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Murky brown.

I.D. No.	
Monitoring Point No.	W-4B
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.27	EPA 350.1
Bicarbonate (as CaCO ₃)	17	SM4500-CO ₂ D
Calcium, Total	284	EPA 200.7
Calcium, Dissolved	284	EPA 200.7D
Chemical Oxygen Demand	18	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	178000	EPA 200.7
Iron (ug/l), Dissolved	178000	EPA 200.7D
Magnesium, Total	95.7	EPA 200.7
Magnesium, Dissolved	95.8	EPA 200.7D
Manganese (ug/l), Total	18500	EPA 200.7
Manganese (ug/l), Dissolved	18600	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.34	
pH (standard units), Laboratory	5.7	SM4500-H+B
Potassium, Total	3.2	EPA 200.7
Potassium, Dissolved	3.4	EPA 200.7D
Sodium, Total	2.3	EPA 200.7
Sodium, Dissolved	3	EPA 200.7D
Specific Conductance (umhos/cm), Field	2240	
Specific Conductance (umhos/cm), Laboratory	1680	EPA 120.1
Sulfate	1510	EPA 300.0
Total Alkalinity	17	SM 18 2320B
Total Dissolved Solids	1980	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	14	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-4B
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	11/17/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 195.99 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1582.97 ft./MSL

Sampling Depth: 199.65 ft

Volume of Water Column: 3.31 gal.

Total Well Depth: 201.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 12:32

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-005

Final Lab Analysis Completion Date 12/22/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Grey, murky.

I.D. No.	
Monitoring Point No.	W-4C
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.11	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	220	EPA 200.7
Calcium, Dissolved	229	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	10100	EPA 200.7
Iron (ug/l), Dissolved	330	EPA 200.7D
Magnesium, Total	71.9	EPA 200.7
Magnesium, Dissolved	73.2	EPA 200.7D
Manganese (ug/l), Total	11300	EPA 200.7
Manganese (ug/l), Dissolved	11900	EPA 200.7D
Nitrate Nitrogen	0.14	EPA 300.0
pH (standard units), Field	4.24	
pH (standard units), Laboratory	4.57	SM4500-H+B
Potassium, Total	5	EPA 200.7
Potassium, Dissolved	4.8	EPA 200.7D
Sodium, Total	35.7	EPA 200.7
Sodium, Dissolved	35.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	1670	
Specific Conductance (umhos/cm), Laboratory	1320	EPA 120.1
Sulfate	1030	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1290	SM2540-C
Total Organic Carbon	1.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	260	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	7.8	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	50	EPA 200.7
Zinc, Dissolved	50	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	11/17/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 79.96 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.24 ft

Elevation of Water Level: 1629.41 ft./MSL

Sampling Depth: 84.00 ft

Volume of Water Column: 3.39 gal.

Total Well Depth: 83.50 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.90

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 14:00

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-011

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form _____

Comments: Brown/rust brown in color, no odor.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	36	SM4500-CO ₂ D
Calcium, Total	13.5	EPA 200.7
Calcium, Dissolved	14	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	29600	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	4.2	EPA 200.7
Magnesium, Dissolved	4.1	EPA 200.7D
Manganese (ug/l), Total	6100	EPA 200.7
Manganese (ug/l), Dissolved	< 10	EPA 200.7D
Nitrate Nitrogen	0.07	EPA 353.2
pH (standard units), Field	6.48	
pH (standard units), Laboratory	6.7	SM4500-H+B
Potassium, Total	1.3	EPA 200.7
Potassium, Dissolved	1.1	EPA 200.7D
Sodium, Total	6.4	EPA 200.7
Sodium, Dissolved	7.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	147	
Specific Conductance (umhos/cm), Laboratory	129	EPA 120.1
Sulfate	46	EPA 300.0
Total Alkalinity	36	SM 18 2320B
Total Dissolved Solids	104	SM2540-C
Total Organic Carbon	1.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	200	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	240	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	7.5	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	11/18/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 89.07 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.51 ft

Elevation of Water Level: 1620.29 ft./MSL

Sampling Depth: 93.75 ft

Volume of Water Column: 39.55 gal.

Total Well Depth: 147.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.40

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 13:25

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-013

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.37	EPA 350.1
Bicarbonate (as CaCO ₃)	46	SM4500-CO ₂ D
Calcium, Total	353	EPA 200.7
Calcium, Dissolved	339	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	23500	EPA 200.7
Iron (ug/l), Dissolved	21600	EPA 200.7D
Magnesium, Total	54	EPA 200.7
Magnesium, Dissolved	52.1	EPA 200.7D
Manganese (ug/l), Total	4000	EPA 200.7
Manganese (ug/l), Dissolved	3870	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.27	
pH (standard units), Laboratory	6.26	SM4500-H+B
Potassium, Total	3.1	EPA 200.7
Potassium, Dissolved	3	EPA 200.7D
Sodium, Total	2	EPA 200.7
Sodium, Dissolved	1.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	1789	
Specific Conductance (umhos/cm), Laboratory	1440	EPA 120.1
Sulfate	981	EPA 300.0
Total Alkalinity	46	SM 18 2320B
Total Dissolved Solids	1540	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	11/18/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 88.14 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.71 ft

Elevation of Water Level: 1620.10 ft./MSL

Sampling Depth: 94.77 ft

Volume of Water Column: 71.00 gal.

Total Well Depth: 194.50 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.45

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 13:48

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-010

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-7C
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.32	EPA 350.1
Bicarbonate (as CaCO ₃)	36	SM4500-CO ₂ D
Calcium, Total	348	EPA 200.7
Calcium, Dissolved	352	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	33400	EPA 200.7
Iron (ug/l), Dissolved	32300	EPA 200.7D
Magnesium, Total	58.2	EPA 200.7
Magnesium, Dissolved	58.6	EPA 200.7D
Manganese (ug/l), Total	4480	EPA 200.7
Manganese (ug/l), Dissolved	4500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.41	
pH (standard units), Laboratory	6.11	SM4500-H+B
Potassium, Total	3.1	EPA 200.7
Potassium, Dissolved	2.7	EPA 200.7D
Sodium, Total	4.2	EPA 200.7
Sodium, Dissolved	4.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	1940	
Specific Conductance (umhos/cm), Laboratory	1430	EPA 120.1
Sulfate	1060	EPA 300.0
Total Alkalinity	36	SM 18 2320B
Total Dissolved Solids	1540	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	100	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	40	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 18 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 85.55 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.39 ft

Elevation of Water Level: 1625.01 ft./MSL

Sampling Depth: 110.98 ft

Volume of Water Column: 17.46 gal.

Total Well Depth: 109.70 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.35

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 14:10

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-012

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, brown, no odor.

I.D. No.	
Monitoring Point No.	W-7E
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.17	EPA 350.1
Bicarbonate (as CaCO ₃)	117	SM4500-CO ₂ D
Calcium, Total	216	EPA 200.7
Calcium, Dissolved	210	EPA 200.7D
Chemical Oxygen Demand	50	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	159000	EPA 200.7
Iron (ug/l), Dissolved	140	EPA 200.7D
Magnesium, Total	39.9	EPA 200.7
Magnesium, Dissolved	29.7	EPA 200.7D
Manganese (ug/l), Total	7750	EPA 200.7
Manganese (ug/l), Dissolved	2960	EPA 200.7D
Nitrate Nitrogen	0.06	EPA 353.2
pH (standard units), Field	6.64	
pH (standard units), Laboratory	7.08	SM4500-H+B
Potassium, Total	8.5	EPA 200.7
Potassium, Dissolved	2.4	EPA 200.7D
Sodium, Total	32.3	EPA 200.7
Sodium, Dissolved	30.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	1162	
Specific Conductance (umhos/cm), Laboratory	1030	EPA 120.1
Sulfate	627	EPA 300.0
Total Alkalinity	117	SM 18 2320B
Total Dissolved Solids	902	SM2540-C
Total Organic Carbon	2.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	29	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	21.9	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	320	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	90	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	240	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	125	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	0.26	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	8.1	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	650	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	5	EPA 200.7
Cobalt, Total	90	EPA 200.7
Nickel, Total	150	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	70	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-22C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 165.42 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.25 ft

Elevation of Water Level: 1663.26 ft./MSL

Sampling Depth: 168.00 ft

Volume of Water Column: 2.36 gal.

Total Well Depth: 169.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/15/05

Sample Collection Time: 17:30

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-006

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Cloudy, brown

I.D. No.	
Monitoring Point No.	W-22C
Sample Date	11/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	14	SM4500-CO ₂ D
Calcium, Total	127	EPA 200.7
Calcium, Dissolved	120	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	380	EPA 200.7
Iron (ug/l), Dissolved	210	EPA 200.7D
Magnesium, Total	32.6	EPA 200.7
Magnesium, Dissolved	30.8	EPA 200.7D
Manganese (ug/l), Total	1510	EPA 200.7
Manganese (ug/l), Dissolved	1470	EPA 200.7D
Nitrate Nitrogen	0.51	EPA 300.0
pH (standard units), Field	4.36	
pH (standard units), Laboratory	5.93	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	4.3	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	3.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	751	
Specific Conductance (umhos/cm), Laboratory	724	EPA 120.1
Sulfate	438	EPA 300.0
Total Alkalinity	14	SM 18 2320B
Total Dissolved Solids	586	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	5.7	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	11/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	11/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	11/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 1	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	11/15/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 43.44 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.68 ft

Elevation of Water Level: 1636.91 ft./MSL

Sampling Depth: 44.37 ft

Volume of Water Column: 10.93 gal.

Total Well Depth: 60.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 18:35

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-005

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-1B
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.4	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	422	EPA 200.7
Calcium, Dissolved	417	EPA 200.7D
Chemical Oxygen Demand	19	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	161000	EPA 200.7
Iron (ug/l), Dissolved	159000	EPA 200.7D
Magnesium, Total	120	EPA 200.7
Magnesium, Dissolved	119	EPA 200.7D
Manganese (ug/l), Total	20700	EPA 200.7
Manganese (ug/l), Dissolved	20100	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.42	
pH (standard units), Laboratory	4.61	SM4500-H+B
Potassium, Total	3.7	EPA 200.7
Potassium, Dissolved	3.7	EPA 200.7D
Sodium, Total	4.3	EPA 200.7
Sodium, Dissolved	4.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	275	
Specific Conductance (umhos/cm), Laboratory	1940	EPA 120.1
Sulfate	1840	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2030	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	23	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	11/17/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 88.55 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1590.62 ft./MSL

Sampling Depth: 116.00 ft

Volume of Water Column: 33.96 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 18:08

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-004

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW-1C
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.19	EPA 350.1
Bicarbonate (as CaCO ₃)	91	SM4500-CO ₂ D
Calcium, Total	31.1	EPA 200.7
Calcium, Dissolved	31.5	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	2330	EPA 200.7
Iron (ug/l), Dissolved	610	EPA 200.7D
Magnesium, Total	6.4	EPA 200.7
Magnesium, Dissolved	6.5	EPA 200.7D
Manganese (ug/l), Total	500	EPA 200.7
Manganese (ug/l), Dissolved	500	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.46	
pH (standard units), Laboratory	6.75	SM4500-H+B
Potassium, Total	2	EPA 200.7
Potassium, Dissolved	1.9	EPA 200.7D
Sodium, Total	9.3	EPA 200.7
Sodium, Dissolved	9.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	223	
Specific Conductance (umhos/cm), Laboratory	228	EPA 120.1
Sulfate	86	EPA 300.0
Total Alkalinity	91	SM 18 2320B
Total Dissolved Solids	142	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	20	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	120	EPA 200.7
Barium, Dissolved	120	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	11/17/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-2C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 03 . 00 "

Depth to Water Level: 59.72 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1545.68 ft./MSL

Sampling Depth: 64.40 ft

Volume of Water Column: 6.78 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 17:01

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-006

Final Lab Analysis Completion Date 12/14/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Muddy, brown/black.

I.D. No.	
Monitoring Point No.	NW-2C
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.88	EPA 350.1
Bicarbonate (as CaCO ₃)	27	SM4500-CO ₂ D
Calcium, Total	32.6	EPA 200.7
Calcium, Dissolved	3.2	EPA 200.7D
Chemical Oxygen Demand	990	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	962000	EPA 200.7
Iron (ug/l), Dissolved	3530	EPA 200.7D
Magnesium, Total	91.9	EPA 200.7
Magnesium, Dissolved	3	EPA 200.7D
Manganese (ug/l), Total	41700	EPA 200.7
Manganese (ug/l), Dissolved	1040	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.74	
pH (standard units), Laboratory	5.94	SM4500-H+B
Potassium, Total	33	EPA 200.7
Potassium, Dissolved	5.5	EPA 200.7D
Sodium, Total	5.5	EPA 200.7
Sodium, Dissolved	2.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	107	
Specific Conductance (umhos/cm), Laboratory	71	EPA 120.1
Sulfate	49	EPA 300.0
Total Alkalinity	27	SM 18 2320B
Total Dissolved Solids	140	SM2540-C
Total Organic Carbon	1.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	17500	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	2430	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	720	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	680	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	91.2	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	2.4	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	1630	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	27	EPA 200.7
Cobalt, Total	540	EPA 200.7
Nickel, Total	1040	EPA 200.7
Thallium, Total	4.6	EPA 200.8
Vanadium, Total	330	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	11/17/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 6.89 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 4.68 ft

Elevation of Water Level: 1666.95 ft./MSL

Sampling Depth: 10.52 ft

Volume of Water Column: 28.45 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 14:35

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-008

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW3B
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.15	EPA 350.1D
Bicarbonate (as CaCO ₃)	5	SM4500-CO ₂ D
Calcium, Total	205	EPA 200.7
Calcium, Dissolved	207	EPA 200.7D
Chemical Oxygen Demand	43	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	< 50	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	129	EPA 200.7
Magnesium, Dissolved	131	EPA 200.7D
Manganese (ug/l), Total	37000	EPA 200.7
Manganese (ug/l), Dissolved	38000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.33	
pH (standard units), Laboratory	5.04	SM4500-H+B
Potassium, Total	6.6	EPA 200.7
Potassium, Dissolved	6.7	EPA 200.7D
Sodium, Total	2.6	EPA 200.7
Sodium, Dissolved	2.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	2590	
Specific Conductance (umhos/cm), Laboratory	1920	EPA 120.1
Sulfate	1930	EPA 300.0
Total Alkalinity	5	SM 18 2320B
Total Dissolved Solids	2450	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	24	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	180	EPA 200.7
Zinc, Dissolved	190	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3B
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	100	EPA 200.7
Nickel, Total	110	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW3B
Sample Date	11/17/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW3C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 78.64 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.53 ft

Elevation of Water Level: 1594.12 ft./MSL

Sampling Depth: 83.82 ft

Volume of Water Column: 30.60 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 14:07

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-009

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW3C
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.15	EPA 350.1D
Bicarbonate (as CaCO ₃)	39	SM4500-CO ₂ D
Calcium, Total	7.9	EPA 200.7
Calcium, Dissolved	7.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	12300	EPA 200.7
Iron (ug/l), Dissolved	10000	EPA 200.7D
Magnesium, Total	5.2	EPA 200.7
Magnesium, Dissolved	4.9	EPA 200.7D
Manganese (ug/l), Total	1440	EPA 200.7
Manganese (ug/l), Dissolved	1390	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.54	
pH (standard units), Laboratory	6.41	SM4500-H+B
Potassium, Total	1.5	EPA 200.7
Potassium, Dissolved	1.3	EPA 200.7D
Sodium, Total	1	EPA 200.7
Sodium, Dissolved	1	EPA 200.7D
Specific Conductance (umhos/cm), Field	104	
Specific Conductance (umhos/cm), Laboratory	105	EPA 120.1
Sulfate	38	EPA 300.0
Total Alkalinity	39	SM 18 2320B
Total Dissolved Solids	92	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	26	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	110	EPA 200.7
Barium, Dissolved	100	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	60	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	50	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW3C
Sample Date	11/17/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 63.33 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.99 ft

Elevation of Water Level: 1589.72 ft./MSL

Sampling Depth: 70.42 ft

Volume of Water Column: 7.70 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 17:30

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-007

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Muddy, brown.

I.D. No.	
Monitoring Point No.	NW4B
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.12	EPA 350.1
Bicarbonate (as CaCO ₃)	31	SM4500-CO ₂ D
Calcium, Total	28.1	EPA 200.7
Calcium, Dissolved	25.1	EPA 200.7D
Chemical Oxygen Demand	59	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	22800	EPA 200.7
Iron (ug/l), Dissolved	770	EPA 200.7D
Magnesium, Total	14.6	EPA 200.7
Magnesium, Dissolved	11.8	EPA 200.7D
Manganese (ug/l), Total	5550	EPA 200.7
Manganese (ug/l), Dissolved	4940	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.46	
pH (standard units), Laboratory	6.39	SM4500-H+B
Potassium, Total	5.3	EPA 200.7
Potassium, Dissolved	2.3	EPA 200.7D
Sodium, Total	6.3	EPA 200.7
Sodium, Dissolved	5.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	2190	
Specific Conductance (umhos/cm), Laboratory	280	EPA 120.1
Sulfate	111	EPA 300.0
Total Alkalinity	31	SM 18 2320B
Total Dissolved Solids	224	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	150	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	350	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	40	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	35.1	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	110	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	50	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	20	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4B
Sample Date	11/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 108.25 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.79 ft

Elevation of Water Level: 1543.73 ft./MSL

Sampling Depth: 131.00 ft

Volume of Water Column: 20.96 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.60

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 18:10

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-006

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Murky, brown.

I.D. No.	
Monitoring Point No.	NW4C
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.3	EPA 350.1
Bicarbonate (as CaCO ₃)	67	SM4500-CO ₂ D
Calcium, Total	30.2	EPA 200.7
Calcium, Dissolved	25.7	EPA 200.7D
Chemical Oxygen Demand	49	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	117000	EPA 200.7
Iron (ug/l), Dissolved	4370	EPA 200.7D
Magnesium, Total	14.4	EPA 200.7
Magnesium, Dissolved	6.3	EPA 200.7D
Manganese (ug/l), Total	3680	EPA 200.7
Manganese (ug/l), Dissolved	1280	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.38	
pH (standard units), Laboratory	6.78	SM4500-H+B
Potassium, Total	7.6	EPA 200.7
Potassium, Dissolved	3	EPA 200.7D
Sodium, Total	3.3	EPA 200.7
Sodium, Dissolved	3.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	2470	
Specific Conductance (umhos/cm), Laboratory	205	EPA 120.1
Sulfate	79	EPA 300.0
Total Alkalinity	67	SM 18 2320B
Total Dissolved Solids	152	SM2540-C
Total Organic Carbon	1.4	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	35000	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	13	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	420	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	70	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	80	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	70.9	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	280	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	80	EPA 200.7
Nickel, Total	110	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	50	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW4C
Sample Date	11/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 23 ' 33 . 00 "

Depth to Water Level: 34.75 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1670.14 ft./MSL

Sampling Depth: 45.33 ft

Volume of Water Column: 23.00 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.65

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 9:19

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-001

Final Lab Analysis Completion Date 12/09/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear - No odor.

I.D. No.	
Monitoring Point No.	NW5B
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	9	SM4500-CO ₂ D
Calcium, Total	45.1	EPA 200.7
Calcium, Dissolved	45.2	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	63100	EPA 200.7
Iron (ug/l), Dissolved	62100	EPA 200.7D
Magnesium, Total	38.4	EPA 200.7
Magnesium, Dissolved	38.1	EPA 200.7D
Manganese (ug/l), Total	14100	EPA 200.7
Manganese (ug/l), Dissolved	14200	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.47	
pH (standard units), Laboratory	5.71	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.8	EPA 200.7D
Sodium, Total	3.5	EPA 200.7
Sodium, Dissolved	4.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	655	
Specific Conductance (umhos/cm), Laboratory	657	EPA 120.1
Sulfate	414	EPA 300.0
Total Alkalinity	9	SM 18 2320B
Total Dissolved Solids	570	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	24	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5B
Sample Date	11/17/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW5C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 23 ' 32 . 00 "

Depth to Water Level: 102.05 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.90 ft

Elevation of Water Level: 1602.47 ft./MSL

Sampling Depth: 112.71 ft

Volume of Water Column: 15.15 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/17/05

Sample Collection Time: 13:00

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-002

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW5C
Sample Date	11/17/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.15	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	45.1	EPA 200.7
Calcium, Dissolved	45.7	EPA 200.7D
Chemical Oxygen Demand	19	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	22400	EPA 200.7
Iron (ug/l), Dissolved	12700	EPA 200.7D
Magnesium, Total	29.4	EPA 200.7
Magnesium, Dissolved	29.2	EPA 200.7D
Manganese (ug/l), Total	8640	EPA 200.7
Manganese (ug/l), Dissolved	8640	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.35	
pH (standard units), Laboratory	4.2	SM4500-H+B
Potassium, Total	4.7	EPA 200.7
Potassium, Dissolved	3.8	EPA 200.7D
Sodium, Total	83.4	EPA 200.7
Sodium, Dissolved	91.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	990	
Specific Conductance (umhos/cm), Laboratory	820	EPA 120.1
Sulfate	453	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	618	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	240	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	11/17/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	5.3	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	60	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW5C
Sample Date	11/17/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	11/17/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	50	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW5C
Sample Date	11/17/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-6B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 17 . 00 "

Depth to Water Level: 42.61 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.22 ft

Elevation of Water Level: 1586.18 ft./MSL

Sampling Depth: 50.08 ft

Volume of Water Column: 21.40 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.10

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 9:10

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-009

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW-6B
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	35	SM4500-CO ₂ D
Calcium, Total	45.5	EPA 200.7
Calcium, Dissolved	45.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	5970	EPA 200.7
Iron (ug/l), Dissolved	4760	EPA 200.7D
Magnesium, Total	19.3	EPA 200.7
Magnesium, Dissolved	19.4	EPA 200.7D
Manganese (ug/l), Total	3680	EPA 200.7
Manganese (ug/l), Dissolved	3690	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.51	
pH (standard units), Laboratory	6.21	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	2.6	EPA 200.7D
Sodium, Total	5.5	EPA 200.7
Sodium, Dissolved	5.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	354	
Specific Conductance (umhos/cm), Laboratory	391	EPA 120.1
Sulfate	184	EPA 300.0
Total Alkalinity	35	SM 18 2320B
Total Dissolved Solids	300	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	27	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	70	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	70	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	50	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 18 . 00 "

Depth to Water Level: 86.78 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.08 ft

Elevation of Water Level: 1540.39 ft./MSL

Sampling Depth: 119.89 ft

Volume of Water Column: 25.23 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.24

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 9:30

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-007

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy.

I.D. No.	
Monitoring Point No.	NW-6C
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.1	EPA 350.1
Bicarbonate (as CaCO ₃)	69	SM4500-CO ₂ D
Calcium, Total	20.3	EPA 200.7
Calcium, Dissolved	19.2	EPA 200.7D
Chemical Oxygen Demand	26	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	51500	EPA 200.7
Iron (ug/l), Dissolved	2200	EPA 200.7D
Magnesium, Total	11.3	EPA 200.7
Magnesium, Dissolved	6.2	EPA 200.7D
Manganese (ug/l), Total	1680	EPA 200.7
Manganese (ug/l), Dissolved	670	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	5.63	
pH (standard units), Laboratory	6.61	SM4500-H+B
Potassium, Total	4.8	EPA 200.7
Potassium, Dissolved	1.9	EPA 200.7D
Sodium, Total	4.2	EPA 200.7
Sodium, Dissolved	4.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	170	
Specific Conductance (umhos/cm), Laboratory	159	EPA 120.1
Sulfate	16	EPA 300.0
Total Alkalinity	69	SM 18 2320B
Total Dissolved Solids	110	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1700	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	16.2	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	220	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	30	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	20	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	47.9	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	200	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	70	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	20	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 43 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 25.35 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.39 ft

Elevation of Water Level: 1666.53 ft./MSL

Sampling Depth: 34.72 ft

Volume of Water Column: 12.98 gal.

Total Well Depth: 44.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 15:15

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-002

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form _____

Comments: Turbid, light grey/brown.

I.D. No.	
Monitoring Point No.	NW-7B
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.18	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	259	EPA 200.7
Calcium, Dissolved	260	EPA 200.7D
Chemical Oxygen Demand	20	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	177000	EPA 200.7
Iron (ug/l), Dissolved	176000	EPA 200.7D
Magnesium, Total	199	EPA 200.7
Magnesium, Dissolved	204	EPA 200.7D
Manganese (ug/l), Total	142000	EPA 200.7
Manganese (ug/l), Dissolved	143000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	5.13	
pH (standard units), Laboratory	4.58	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	3.9	EPA 200.7D
Sodium, Total	1.9	EPA 200.7
Sodium, Dissolved	1.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	2531	
Specific Conductance (umhos/cm), Laboratory	1920	EPA 120.1
Sulfate	1980	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	2690	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	25	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	20	EPA 200.7
Copper, Dissolved	20	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	150	EPA 200.7
Zinc, Dissolved	150	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	80	EPA 200.7
Nickel, Total	100	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 42 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 56.33 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.00 ft

Elevation of Water Level: 1634.76 ft./MSL

Sampling Depth: 93.32 ft

Volume of Water Column: 44.01 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.60

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 17:33

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-001

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy.

I.D. No.	
Monitoring Point No.	NW-7C
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.23	EPA 350.1
Bicarbonate (as CaCO ₃)	20	SM4500-CO ₂ D
Calcium, Total	107	EPA 200.7
Calcium, Dissolved	106	EPA 200.7D
Chemical Oxygen Demand	44	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	67600	EPA 200.7
Iron (ug/l), Dissolved	60100	EPA 200.7D
Magnesium, Total	44.1	EPA 200.7
Magnesium, Dissolved	43.4	EPA 200.7D
Manganese (ug/l), Total	14000	EPA 200.7
Manganese (ug/l), Dissolved	13400	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	4.33	
pH (standard units), Laboratory	5.9	SM4500-H+B
Potassium, Total	13.5	EPA 200.7
Potassium, Dissolved	12.7	EPA 200.7D
Sodium, Total	9.2	EPA 200.7
Sodium, Dissolved	8.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	851	
Specific Conductance (umhos/cm), Laboratory	867	EPA 120.1
Sulfate	620	EPA 300.0
Total Alkalinity	20	SM 18 2320B
Total Dissolved Solids	828	SM2540-C
Total Organic Carbon	2.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	150	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	90	EPA 200.7
Barium, Dissolved	70	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	5	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	50	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
Cyclopropene	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 55 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 45.32 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.27 ft

Elevation of Water Level: 1664.64 ft./MSL

Sampling Depth: 48.00 ft

Volume of Water Column: 2.18 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/22/05

Sample Collection Time: 11:00

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511490-001

Final Lab Analysis Completion Date 12/13/05

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy.

I.D. No.	
Monitoring Point No.	NW-8B
Sample Date	11/22/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	39	SM4500-CO ₂ D
Calcium, Total	20.9	EPA 200.7
Calcium, Dissolved	19.5	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.7	EPA 300.0
Iron (ug/l), Total	10800	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	10.6	EPA 200.7
Magnesium, Dissolved	10.3	EPA 200.7D
Manganese (ug/l), Total	800	EPA 200.7
Manganese (ug/l), Dissolved	1070	EPA 200.7D
Nitrate Nitrogen	0.1	EPA 353.2
pH (standard units), Field	4.87	
pH (standard units), Laboratory	10	SM4500-H+B
Potassium, Total	131	EPA 200.7
Potassium, Dissolved	87	EPA 200.7D
Sodium, Total	36.7	EPA 200.7
Sodium, Dissolved	36.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	990	
Specific Conductance (umhos/cm), Laboratory	660	EPA 120.1
Sulfate	234	EPA 300.0
Total Alkalinity	80	SM 18 2320B
Total Dissolved Solids	412	SM2540-C
Total Organic Carbon	6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	14000	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	11/22/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	140	EPA 200.7
Barium, Dissolved	40	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	30	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	19.4	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	50	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	11/22/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	11/22/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	11/22/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 54 . 00 "

Longitude: 78 ° 23 ' 21 . 00 "

Depth to Water Level: 114.94 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.29 ft

Elevation of Water Level: 1595.93 ft./MSL

Sampling Depth: 117.36 ft

Volume of Water Column: 25.22 gal.

Total Well Depth: 150.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/18/05

Sample Collection Time: 11:42

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511455-008

Final Lab Analysis Completion Date 12/08/05

Name/Affiliation of Person who Filled out Form _____

Comments: Clear.

I.D. No.	
Monitoring Point No.	NW-8C
Sample Date	11/18/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	35	SM4500-CO ₂ D
Calcium, Total	7.3	EPA 200.7
Calcium, Dissolved	7.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	5610	EPA 200.7
Iron (ug/l), Dissolved	5170	EPA 200.7D
Magnesium, Total	3	EPA 200.7
Magnesium, Dissolved	3	EPA 200.7D
Manganese (ug/l), Total	1030	EPA 200.7
Manganese (ug/l), Dissolved	1020	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 353.2
pH (standard units), Field	5.3	
pH (standard units), Laboratory	6.28	SM4500-H+B
Potassium, Total	10.4	EPA 200.7
Potassium, Dissolved	11.4	EPA 200.7D
Sodium, Total	4.1	EPA 200.7
Sodium, Dissolved	4.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	142	
Specific Conductance (umhos/cm), Laboratory	126	EPA 120.1
Sulfate	22	EPA 300.0
Total Alkalinity	35	SM 18 2320B
Total Dissolved Solids	78	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	14	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	11/18/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	90	EPA 200.7
Barium, Dissolved	90	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	11/18/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	11/18/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	11/18/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Levin Front Well

☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 04 . 86 "

Longitude: 78 ° 22 ' 54 . 55 "

Depth to Water Level: NR ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NR ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: 120.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 17:50

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-010

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form _____

Comments: Rust color, no odor.

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	12	SM4500-CO ₂ D
Calcium, Total	77.3	EPA 200.7
Calcium, Dissolved	77.9	EPA 200.7D
Chemical Oxygen Demand	11	HACH 8000
Chloride	12	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	120000	EPA 200.7
Iron (ug/l), Dissolved	120000	EPA 200.7D
Magnesium, Total	52.9	EPA 200.7
Magnesium, Dissolved	53.4	EPA 200.7D
Manganese (ug/l), Total	21000	EPA 200.7
Manganese (ug/l), Dissolved	20700	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.37	
pH (standard units), Laboratory	5.67	SM4500-H+B
Potassium, Total	2.5	EPA 200.7
Potassium, Dissolved	2.5	EPA 200.7D
Sodium, Total	8.5	EPA 200.7
Sodium, Dissolved	8.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	1450	
Specific Conductance (umhos/cm), Laboratory	968	EPA 120.1
Sulfate	672	EPA 300.0
Total Alkalinity	12	SM 18 2320B
Total Dissolved Solids	936	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	15	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Front Well
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	< 10	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	330	EPA 200.7
Zinc, Dissolved	160	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Front Well
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	160	EPA 200.7
Nickel, Total	170	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Front Well
Sample Date	11/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BEUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Date Prepared/Revised

June-17

DEP USE ONLY

Date Received

FORM 8 MUNICIPAL WASTE LANDFILLS BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Levin Back Well

☒ Well ☐ Spring ☐ Stream ☐ Other☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 04 . 29 "

Longitude: 78 ° 22 ' 56 . 48 "

Depth to Water Level: NA ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NA ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ GrabWell Purged: ☐ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 11/16/05

Sample Collection Time: 18:10

Sample Collector's Name: Hylton Hobday

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511409-011

Final Lab Analysis Completion Date 12/01/05

Name/Affiliation of Person who Filled out Form

Comments: Clear.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	11/16/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	48	SM4500-CO ₂ D
Calcium, Total	34.1	EPA 200.7
Calcium, Dissolved	34.6	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	18300	EPA 200.7
Iron (ug/l), Dissolved	210	EPA 200.7D
Magnesium, Total	1.9	EPA 200.7
Magnesium, Dissolved	2	EPA 200.7D
Manganese (ug/l), Total	570	EPA 200.7
Manganese (ug/l), Dissolved	600	EPA 200.7D
Nitrate Nitrogen	0.28	EPA 300.0
pH (standard units), Field	4.37	
pH (standard units), Laboratory	6.78	SM4500-H+B
Potassium, Total	0.7	EPA 200.7
Potassium, Dissolved	0.6	EPA 200.7D
Sodium, Total	1.2	EPA 200.7
Sodium, Dissolved	1.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	1790	
Specific Conductance (umhos/cm), Laboratory	186	EPA 120.1
Sulfate	41	EPA 300.0
Total Alkalinity	48	SM 18 2320B
Total Dissolved Solids	142	SM2540-C
Total Organic Carbon	1.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	120	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Back Well
Sample Date	11/16/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	11/16/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Levin Back Well
Sample Date	11/16/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Levin Back Well
Sample Date	11/16/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Gallaher Well

☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 04 . 86 "

Longitude: 78 ° 22 ' 54 . 55 "

Depth to Water Level: NA ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NA ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: NA ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 12/06/05

Sample Collection Time: 10:10

Sample Collector's Name: Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0512105-001

Final Lab Analysis Completion Date 12/15/05

Name/Affiliation of Person who Filled out Form _____

Comments: Sample collected at basement sink after allowing the pump to run at approximately 0.5 gpm for approximately 10 minutes.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	12/6/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	18	SM4500-CO ₂ D
Calcium, Total	33.9	EPA 200.7
Calcium, Dissolved	33.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	52	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	< 50	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	22.7	EPA 200.7
Magnesium, Dissolved	22.4	EPA 200.7D
Manganese (ug/l), Total	4700	EPA 200.7
Manganese (ug/l), Dissolved	4490	EPA 200.7D
Nitrate Nitrogen	0.87	EPA 300.0
pH (standard units), Field	5.74	
pH (standard units), Laboratory	5.69	SM4500-H+B
Potassium, Total	3.7	EPA 200.7
Potassium, Dissolved	3.5	EPA 200.7D
Sodium, Total	21.7	EPA 200.7
Sodium, Dissolved	21.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	540	
Specific Conductance (umhos/cm), Laboratory	511	EPA 120.1
Sulfate	121	EPA 300.0
Total Alkalinity	18	SM 18 2320B
Total Dissolved Solids	288	SM2540-C
Total Organic Carbon	1.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1.6	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Gallaher Well
Sample Date	12/6/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	300	EPA 200.7
Zinc, Dissolved	270	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	12/6/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Gallaher Well
Sample Date	12/6/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	76	EPA 200.7
Nickel, Total	150	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Gallaher Well
Sample Date	12/6/2005

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Camp Rattlesnake ☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 18 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: NA ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NA ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: NA ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 11/15/05

Sample Collection Time: 12:15

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0511366-001

Final Lab Analysis Completion Date 11/29/05

Name/Affiliation of Person who Filled out Form _____

Comments: Sample collected at basement sink after allowing the pump to run at approximately 0.5 gpm for approximately 10 minutes.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	11/15/2005

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.22	EPA 350.1
Bicarbonate (as CaCO ₃)	57	SM4500-CO ₂ D
Calcium, Total	289	EPA 200.7
Calcium, Dissolved	292	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	23700	EPA 200.7
Iron (ug/l), Dissolved	16700	EPA 200.7D
Magnesium, Total	48.7	EPA 200.7
Magnesium, Dissolved	48.2	EPA 200.7D
Manganese (ug/l), Total	4840	EPA 200.7
Manganese (ug/l), Dissolved	4430	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.21	
pH (standard units), Laboratory	6.52	SM4500-H+B
Potassium, Total	2.4	EPA 200.7
Potassium, Dissolved	2.4	EPA 200.7D
Sodium, Total	1.4	EPA 200.7
Sodium, Dissolved	1.6	EPA 200.7D
Specific Conductance (umhos/cm), Field	1960	
Specific Conductance (umhos/cm), Laboratory	1280	EPA 120.1
Sulfate	981	EPA 300.0
Total Alkalinity	57	SM 18 2320B
Total Dissolved Solids	1300	SM2540-C
Total Organic Carbon	1.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	19	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	11/15/2005

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 2	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	11/15/2005

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	11/15/2005

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 1	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	11/15/2005

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-6
March 2006 Ground Water Monitoring Wells**

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FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 43.75 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1784.52 ft./MSL

Sampling Depth: 43.88 ft

Volume of Water Column: 1.50 gal.

Total Well Depth: 48.73 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 14:00

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-007

Final Lab Analysis Completion Date 03/30/06

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-1A
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	7.5	EPA 200.7
Calcium, Dissolved	7.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	20300	EPA 200.7
Iron (ug/l), Dissolved	20800	EPA 200.7D
Magnesium, Total	5.9	EPA 200.7
Magnesium, Dissolved	6.1	EPA 200.7D
Manganese (ug/l), Total	1390	EPA 200.7
Manganese (ug/l), Dissolved	1460	EPA 200.7D
Nitrate Nitrogen	0.17	EPA 300.0
pH (standard units), Field	4.54	
pH (standard units), Laboratory	3.61	SM4500-H+B
Potassium, Total	2.3	EPA 200.7
Potassium, Dissolved	2.3	EPA 200.7D
Sodium, Total	4.2	EPA 200.7
Sodium, Dissolved	4.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	376	
Specific Conductance (umhos/cm), Laboratory	313	EPA 120.1
Sulfate	103	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	160	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	49.3	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	140	EPA 200.7
Zinc, Dissolved	140	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1A
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 74.42 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1753.57 ft./MSL

Sampling Depth: 80.94 ft

Volume of Water Column: 10.40 gal.

Total Well Depth: 90.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 13:11

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-008

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-1B
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.3	EPA 350.1
Bicarbonate (as CaCO ₃)	59	SM4500-CO ₂ D
Calcium, Total	321	EPA 200.7
Calcium, Dissolved	313	EPA 200.7D
Chemical Oxygen Demand	16	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	151000	EPA 200.7
Iron (ug/l), Dissolved	140000	EPA 200.7D
Magnesium, Total	178	EPA 200.7
Magnesium, Dissolved	176	EPA 200.7D
Manganese (ug/l), Total	40500	EPA 200.7
Manganese (ug/l), Dissolved	41500	EPA 200.7D
Nitrate Nitrogen	0.14	EPA 300.0
pH (standard units), Field	5.69	
pH (standard units), Laboratory	5.85	SM4500-H+B
Potassium, Total	4.5	EPA 200.7
Potassium, Dissolved	4.1	EPA 200.7D
Sodium, Total	6.2	EPA 200.7
Sodium, Dissolved	6.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	2557	
Specific Conductance (umhos/cm), Laboratory	2380	EPA 120.1
Sulfate	1860	EPA 300.0
Total Alkalinity	59	SM 18 2320B
Total Dissolved Solids	2540	SM2540-C
Total Organic Carbon	1.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	117	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	10	EPA 200.7
Cadmium, Dissolved	6	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	5.7	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	1170	EPA 200.7
Zinc, Dissolved	980	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	450	EPA 200.7
Nickel, Total	530	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1B
Sample Date	3/20/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 73.88 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.51 ft

Elevation of Water Level: 1753.72 ft./MSL

Sampling Depth: 101.30 ft

Volume of Water Column: 36.00 gal.

Total Well Depth: 129.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 12:48

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-009

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-1C
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.38	EPA 350.1
Bicarbonate (as CaCO ₃)	25	SM4500-CO ₂ D
Calcium, Total	273	EPA 200.7
Calcium, Dissolved	262	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	4	EPA 300.0
Fluoride	1.4	EPA 300.0
Iron (ug/l), Total	114000	EPA 200.7
Iron (ug/l), Dissolved	107000	EPA 200.7D
Magnesium, Total	119	EPA 200.7
Magnesium, Dissolved	114	EPA 200.7D
Manganese (ug/l), Total	31600	EPA 200.7
Manganese (ug/l), Dissolved	29000	EPA 200.7D
Nitrate Nitrogen	0.17	EPA 300.0
pH (standard units), Field	5.58	
pH (standard units), Laboratory	5.85	SM4500-H+B
Potassium, Total	3.2	EPA 200.7
Potassium, Dissolved	3.1	EPA 200.7D
Sodium, Total	8.8	EPA 200.7
Sodium, Dissolved	8.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	2232	
Specific Conductance (umhos/cm), Laboratory	2010	EPA 120.1
Sulfate	1440	EPA 300.0
Total Alkalinity	25	SM 18 2320B
Total Dissolved Solids	2100	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	48.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	6	EPA 200.7
Cadmium, Dissolved	5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	310	EPA 200.7
Zinc, Dissolved	280	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	290	EPA 200.7
Nickel, Total	340	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1C
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-1E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 48 . 00 "

Longitude: 78 ° 23 ' 09 . 00 "

Depth to Water Level: 70.90 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.59 ft

Elevation of Water Level: 1770.16 ft./MSL

Sampling Depth: 69.45 ft

Volume of Water Column: 8.25 gal.

Total Well Depth: 70.90 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 14:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-010

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-1E
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.14	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	201	EPA 200.7
Calcium, Dissolved	199	EPA 200.7D
Chemical Oxygen Demand	16	HACH 8000
Chloride	4	EPA 300.0
Fluoride	0.4	EPA 300.0
Iron (ug/l), Total	90900	EPA 200.7
Iron (ug/l), Dissolved	87100	EPA 200.7D
Magnesium, Total	94.8	EPA 200.7
Magnesium, Dissolved	95.3	EPA 200.7D
Manganese (ug/l), Total	26600	EPA 200.7
Manganese (ug/l), Dissolved	26700	EPA 200.7D
Nitrate Nitrogen	0.19	EPA 300.0
pH (standard units), Field	4.15	
pH (standard units), Laboratory	3.56	SM4500-H+B
Potassium, Total	3.9	EPA 200.7
Potassium, Dissolved	3.5	EPA 200.7D
Sodium, Total	4.1	EPA 200.7
Sodium, Dissolved	4.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	1873	
Specific Conductance (umhos/cm), Laboratory	1750	EPA 120.1
Sulfate	1180	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1610	SM2540-C
Total Organic Carbon	1.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	365	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1E
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	40	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	5	EPA 200.7
Cadmium, Dissolved	6	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	16.4	EPA 200.8
Lead, Dissolved	6.6	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	260	EPA 200.7
Zinc, Dissolved	250	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1E
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1E
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	250	EPA 200.7
Nickel, Total	310	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-1E
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
2-Methyl-1-propene	
2-Methyl-2-propene	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-3A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 73.08 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1708.49 ft./MSL

Sampling Depth: 78.64 ft

Volume of Water Column: 17.00 gal.

Total Well Depth: 100.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 16:25

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-008

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Cloudy (coal dust), no odor.

I.D. No.	
Monitoring Point No.	W-3A
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.2	EPA 350.1
Bicarbonate (as CaCO ₃)	244	SM4500-CO ₂ D
Calcium, Total	266	EPA 200.7
Calcium, Dissolved	259	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	19300	EPA 200.7
Iron (ug/l), Dissolved	15500	EPA 200.7D
Magnesium, Total	58.5	EPA 200.7
Magnesium, Dissolved	56.9	EPA 200.7D
Manganese (ug/l), Total	12000	EPA 200.7
Manganese (ug/l), Dissolved	11700	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	7.64	
pH (standard units), Laboratory	7.04	SM4500-H+B
Potassium, Total	2.5	EPA 200.7
Potassium, Dissolved	2.2	EPA 200.7D
Sodium, Total	3.3	EPA 200.7
Sodium, Dissolved	3.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	1595	
Specific Conductance (umhos/cm), Laboratory	1560	EPA 120.1
Sulfate	771	EPA 300.0
Total Alkalinity	244	SM 18 2320B
Total Dissolved Solids	1200	SM2540-C
Total Organic Carbon	1.4	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	126	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	40	EPA 200.7
Nickel, Total	40	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3A
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 02 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 102.05 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.13 ft

Elevation of Water Level: 1679.06 ft./MSL

Sampling Depth: 106.20 ft

Volume of Water Column: 42.00 gal.

Total Well Depth: 166.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 16:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-009

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-3B
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.75	EPA 350.1
Bicarbonate (as CaCO ₃)	15	SM4500-CO ₂ D
Calcium, Total	368	EPA 200.7
Calcium, Dissolved	366	EPA 200.7D
Chemical Oxygen Demand	19	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	184000	EPA 200.7
Iron (ug/l), Dissolved	182000	EPA 200.7D
Magnesium, Total	117	EPA 200.7
Magnesium, Dissolved	117	EPA 200.7D
Manganese (ug/l), Total	20800	EPA 200.7
Manganese (ug/l), Dissolved	20700	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.03	
pH (standard units), Laboratory	5.42	SM4500-H+B
Potassium, Total	4.8	EPA 200.7
Potassium, Dissolved	4.6	EPA 200.7D
Sodium, Total	4.9	EPA 200.7
Sodium, Dissolved	5.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	2696	
Specific Conductance (umhos/cm), Laboratory	2610	EPA 120.1
Sulfate	1930	EPA 300.0
Total Alkalinity	15	SM 18 2320B
Total Dissolved Solids	2600	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	13.5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	5940	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	< 10	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-3B
Sample Date	3/22/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 73.62 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.35 ft

Elevation of Water Level: 1705.34 ft./MSL

Sampling Depth: 75.62 ft

Volume of Water Column: 7.00 gal.

Total Well Depth: 84.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 8:25

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-001

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear.

I.D. No.	
Monitoring Point No.	W-4A
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	54	SM4500-CO ₂ D
Calcium, Total	9.1	EPA 200.7
Calcium, Dissolved	9.1	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	1170	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	4.5	EPA 200.7
Magnesium, Dissolved	4.4	EPA 200.7D
Manganese (ug/l), Total	130	EPA 200.7
Manganese (ug/l), Dissolved	60	EPA 200.7D
Nitrate Nitrogen	0.24	EPA 300.0
pH (standard units), Field	5.37	
pH (standard units), Laboratory	6.19	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.6	EPA 200.7D
Sodium, Total	8.5	EPA 200.7
Sodium, Dissolved	8.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	117	
Specific Conductance (umhos/cm), Laboratory	130	EPA 120.1
Sulfate	18	EPA 300.0
Total Alkalinity	54	SM 18 2320B
Total Dissolved Solids	66	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	36.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	50	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4A
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 102.34 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.40 ft

Elevation of Water Level: 1676.69 ft./MSL

Sampling Depth: 102.60 ft

Volume of Water Column: 32.00 gal.

Total Well Depth: 151.50 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 2.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 9:30

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-002

Final Lab Analysis Completion Date 04/19/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-4B
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.25	EPA 350.1
Bicarbonate (as CaCO ₃)	20	SM4500-CO ₂ D
Calcium, Total	267	EPA 200.7
Calcium, Dissolved	274	EPA 200.7D
Chemical Oxygen Demand	21	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	177000	EPA 200.7
Iron (ug/l), Dissolved	182000	EPA 200.7D
Magnesium, Total	91.7	EPA 200.7
Magnesium, Dissolved	93.8	EPA 200.7D
Manganese (ug/l), Total	18700	EPA 200.7
Manganese (ug/l), Dissolved	18700	EPA 200.7D
Nitrate Nitrogen	0.24	EPA 300.0
pH (standard units), Field	6.78	
pH (standard units), Laboratory	5.37	SM4500-H+B
Potassium, Total	3.1	EPA 200.7
Potassium, Dissolved	3.1	EPA 200.7D
Sodium, Total	1.8	EPA 200.7
Sodium, Dissolved	1.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	2133	
Specific Conductance (umhos/cm), Laboratory	1950	EPA 120.1
Sulfate	1440	EPA 300.0
Total Alkalinity	20	SM 18 2320B
Total Dissolved Solids	1950	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	67	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	10	EPA 200.7
Silver, Dissolved	10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4B
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 50 . 00 "

Longitude: 78 ° 24 ' 11 . 00 "

Depth to Water Level: 195.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.89 ft

Elevation of Water Level: 1583.96 ft./MSL

Sampling Depth: 196.96 ft

Volume of Water Column: 4.00 gal.

Total Well Depth: 201.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 8:50

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-003

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Gray, no odor.

I.D. No.	
Monitoring Point No.	W-4C
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.16	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	223	EPA 200.7
Calcium, Dissolved	200	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	460	EPA 200.7
Iron (ug/l), Dissolved	2700	EPA 200.7D
Magnesium, Total	70	EPA 200.7
Magnesium, Dissolved	69.1	EPA 200.7D
Manganese (ug/l), Total	9470	EPA 200.7
Manganese (ug/l), Dissolved	12800	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	3.39	
pH (standard units), Laboratory	3.1	SM4500-H+B
Potassium, Total	4.4	EPA 200.7
Potassium, Dissolved	3.5	EPA 200.7D
Sodium, Total	32.7	EPA 200.7
Sodium, Dissolved	27.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	1678	
Specific Conductance (umhos/cm), Laboratory	1690	EPA 120.1
Sulfate	994	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	1230	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	22.5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-4C
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 79.38 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.24 ft

Elevation of Water Level: 1629.99 ft./MSL

Sampling Depth: 81.60 ft

Volume of Water Column: 3.00 gal.

Total Well Depth: 83.50 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 12:30

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-004

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Brown/rust brown in color, no odor.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	45	SM4500-CO ₂ D
Calcium, Total	11.1	EPA 200.7
Calcium, Dissolved	11.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	16500	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	3.9	EPA 200.7
Magnesium, Dissolved	4	EPA 200.7D
Manganese (ug/l), Total	1760	EPA 200.7
Manganese (ug/l), Dissolved	< 10	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.96	
pH (standard units), Laboratory	6.49	SM4500-H+B
Potassium, Total	0.9	EPA 200.7
Potassium, Dissolved	0.9	EPA 200.7D
Sodium, Total	1.6	EPA 200.7
Sodium, Dissolved	1.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	111	
Specific Conductance (umhos/cm), Laboratory	104	EPA 120.1
Sulfate	15	EPA 300.0
Total Alkalinity	45	SM 18 2320B
Total Dissolved Solids	68	SM2540-C
Total Organic Carbon	1.1	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	97.5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	3/22/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 87.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.51 ft

Elevation of Water Level: 1621.66 ft./MSL

Sampling Depth: 93.48 ft

Volume of Water Column: 40.00 gal.

Total Well Depth: 147.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 11:40

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-005

Final Lab Analysis Completion Date 04/19/06

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.38	EPA 350.1
Bicarbonate (as CaCO ₃)	56	SM4500-CO ₂ D
Calcium, Total	372	EPA 200.7
Calcium, Dissolved	365	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	26000	EPA 200.7
Iron (ug/l), Dissolved	25500	EPA 200.7D
Magnesium, Total	57.4	EPA 200.7
Magnesium, Dissolved	56.8	EPA 200.7D
Manganese (ug/l), Total	4410	EPA 200.7
Manganese (ug/l), Dissolved	4360	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.49	
pH (standard units), Laboratory	6.25	SM4500-H+B
Potassium, Total	2.6	EPA 200.7
Potassium, Dissolved	2.6	EPA 200.7D
Sodium, Total	1.3	EPA 200.7
Sodium, Dissolved	1.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	1924	
Specific Conductance (umhos/cm), Laboratory	1720	EPA 120.1
Sulfate	1190	EPA 300.0
Total Alkalinity	56	SM 18 2320B
Total Dissolved Solids	1640	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	3.2	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	3/22/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 89.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.71 ft

Elevation of Water Level: 1619.24 ft./MSL

Sampling Depth: 110.80 ft

Volume of Water Column: 70.00 gal.

Total Well Depth: 194.50 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 11:55

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): _____

Lab Sample Number(s) G0603459-006

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-7C
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.35	EPA 350.1
Bicarbonate (as CaCO ₃)	46	SM4500-CO ₂ D
Calcium, Total	346	EPA 200.7
Calcium, Dissolved	346	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	36900	EPA 200.7
Iron (ug/l), Dissolved	33900	EPA 200.7D
Magnesium, Total	57.8	EPA 200.7
Magnesium, Dissolved	59.3	EPA 200.7D
Manganese (ug/l), Total	4740	EPA 200.7
Manganese (ug/l), Dissolved	4620	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	7.04	
pH (standard units), Laboratory	6.14	SM4500-H+B
Potassium, Total	2.6	EPA 200.7
Potassium, Dissolved	2.5	EPA 200.7D
Sodium, Total	3.2	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	1894	
Specific Conductance (umhos/cm), Laboratory	1700	EPA 120.1
Sulfate	1150	EPA 300.0
Total Alkalinity	46	SM 18 2320B
Total Dissolved Solids	1590	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	42.6	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 18 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 85.09 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.39 ft

Elevation of Water Level: 1625.47 ft./MSL

Sampling Depth: 97.74 ft

Volume of Water Column: 16.00 gal.

Total Well Depth: 109.70 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 14:15

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-007

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-7E
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	98	SM4500-CO ₂ D
Calcium, Total	270	EPA 200.7
Calcium, Dissolved	266	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	2140	EPA 200.7
Iron (ug/l), Dissolved	80	EPA 200.7D
Magnesium, Total	39.6	EPA 200.7
Magnesium, Dissolved	39.7	EPA 200.7D
Manganese (ug/l), Total	2850	EPA 200.7
Manganese (ug/l), Dissolved	580	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	7.05	
pH (standard units), Laboratory	6.57	SM4500-H+B
Potassium, Total	1.9	EPA 200.7
Potassium, Dissolved	1.7	EPA 200.7D
Sodium, Total	3.7	EPA 200.7
Sodium, Dissolved	4	EPA 200.7D
Specific Conductance (umhos/cm), Field	1392	
Specific Conductance (umhos/cm), Laboratory	1280	EPA 120.1
Sulfate	789	EPA 300.0
Total Alkalinity	98	SM 18 2320B
Total Dissolved Solids	1080	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	42.4	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	90	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-22B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 23 . 00 "

Depth to Water Level: 98.56 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.49 ft

Elevation of Water Level: 1729.90 ft./MSL

Sampling Depth: 111.83 ft

Volume of Water Column: 17.00 gal.

Total Well Depth: 124.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 17:45

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-002

Final Lab Analysis Completion Date 03/30/06

Name/Affiliation of Person who Filled out Form _____

Comments: Rust color, no odor.

I.D. No.	
Monitoring Point No.	W-22B
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	19	SM4500-CO ₂ D
Calcium, Total	16.7	EPA 200.7
Calcium, Dissolved	16.8	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	92100	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	8.8	EPA 200.7
Magnesium, Dissolved	8.9	EPA 200.7D
Manganese (ug/l), Total	1060	EPA 200.7
Manganese (ug/l), Dissolved	220	EPA 200.7D
Nitrate Nitrogen	1.15	EPA 300.0
pH (standard units), Field	5.14	
pH (standard units), Laboratory	5.84	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.5	EPA 200.7D
Sodium, Total	20.2	EPA 200.7
Sodium, Dissolved	21.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	293	
Specific Conductance (umhos/cm), Laboratory	278	EPA 120.1
Sulfate	105	EPA 300.0
Total Alkalinity	19	SM 18 2320B
Total Dissolved Solids	160	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	218	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22B
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	20	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	13.1	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	40	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22B
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22B
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22B
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-22C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 161.33 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.25 ft

Elevation of Water Level: 1668.35 ft./MSL

Sampling Depth: 166.18 ft

Volume of Water Column: 5.00 gal.

Total Well Depth: 169.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 16:00

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-001

Final Lab Analysis Completion Date 03/31/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Slightly cloudy, brownish gray, no odor.

I.D. No.	
Monitoring Point No.	W-22C
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.36	EPA 350.1
Bicarbonate (as CaCO ₃)	60	SM4500-CO ₂ D
Calcium, Total	119	EPA 200.7
Calcium, Dissolved	116	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	14000	EPA 200.7
Iron (ug/l), Dissolved	7300	EPA 200.7D
Magnesium, Total	27.9	EPA 200.7
Magnesium, Dissolved	27.6	EPA 200.7D
Manganese (ug/l), Total	2660	EPA 200.7
Manganese (ug/l), Dissolved	2890	EPA 200.7D
Nitrate Nitrogen	0.32	EPA 300.0
pH (standard units), Field	6.14	
pH (standard units), Laboratory	6.52	SM4500-H+B
Potassium, Total	4.5	EPA 200.7
Potassium, Dissolved	4.3	EPA 200.7D
Sodium, Total	2.6	EPA 200.7
Sodium, Dissolved	2.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	830	
Specific Conductance (umhos/cm), Laboratory	789	EPA 120.1
Sulfate	408	EPA 300.0
Total Alkalinity	60	SM 18 2320B
Total Dissolved Solids	582	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	122	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	50	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	5.4	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22C
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-22E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 40 . 00 "

Longitude: 78 ° 23 ' 22 . 00 "

Depth to Water Level: 84.20 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.33 ft

Elevation of Water Level: 1744.37 ft./MSL

Sampling Depth: 90.40 ft

Volume of Water Column: 4.10 gal.

Total Well Depth: 89.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 16:25

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-007

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, No odor.

I.D. No.	
Monitoring Point No.	W-22E
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	1.07	EPA 350.1
Bicarbonate (as CaCO ₃)	< 5	SM4500-CO ₂ D
Calcium, Total	76.8	EPA 200.7
Calcium, Dissolved	78.5	EPA 200.7D
Chemical Oxygen Demand	29	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	129000	EPA 200.7
Iron (ug/l), Dissolved	54300	EPA 200.7D
Magnesium, Total	59.8	EPA 200.7
Magnesium, Dissolved	54.8	EPA 200.7D
Manganese (ug/l), Total	17300	EPA 200.7
Manganese (ug/l), Dissolved	15600	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.01	
pH (standard units), Laboratory	3.15	SM4500-H+B
Potassium, Total	8.8	EPA 200.7
Potassium, Dissolved	6.3	EPA 200.7D
Sodium, Total	3.4	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	1089	
Specific Conductance (umhos/cm), Laboratory	1290	EPA 120.1
Sulfate	650	EPA 300.0
Total Alkalinity	< 5	SM 18 2320B
Total Dissolved Solids	880	SM2540-C
Total Organic Carbon	1.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	3980	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22E
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	250	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	6	EPA 200.7D
Chromium, Total	30	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	100	EPA 200.7
Copper, Dissolved	70	EPA 200.7D
Lead, Total	82.7	EPA 200.8
Lead, Dissolved	16.9	EPA 200.8D
Mercury, Total	0.33	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	430	EPA 200.7
Zinc, Dissolved	380	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22E
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22E
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	9	EPA 200.7
Cobalt, Total	190	EPA 200.7
Nickel, Total	220	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	20	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-22E
Sample Date	3/20/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-1B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 41.02 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.68 ft

Elevation of Water Level: 1639.33 ft./MSL

Sampling Depth: 41.69 ft

Volume of Water Column: 12.50 gal.

Total Well Depth: 60.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 17:40

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-012

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-1B
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.4	EPA 350.1D
Bicarbonate (as CaCO ₃)	26	SM4500-CO ₂ D
Calcium, Total	409	EPA 200.7
Calcium, Dissolved	404	EPA 200.7D
Chemical Oxygen Demand	13	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	162000	EPA 200.7
Iron (ug/l), Dissolved	160000	EPA 200.7D
Magnesium, Total	115	EPA 200.7
Magnesium, Dissolved	114	EPA 200.7D
Manganese (ug/l), Total	19900	EPA 200.7
Manganese (ug/l), Dissolved	20000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.19	
pH (standard units), Laboratory	5.56	SM4500-H+B
Potassium, Total	3.6	EPA 200.7
Potassium, Dissolved	3.4	EPA 200.7D
Sodium, Total	4.3	EPA 200.7
Sodium, Dissolved	3.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	2625	
Specific Conductance (umhos/cm), Laboratory	2320	EPA 120.1
Sulfate	1820	EPA 300.0
Total Alkalinity	26	SM 18 2320B
Total Dissolved Solids	2430	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	44.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	50	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1B
Sample Date	3/21/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-1C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 24 ' 09 . 00 "

Depth to Water Level: 86.84 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.73 ft

Elevation of Water Level: 1592.33 ft./MSL

Sampling Depth: 121.79 ft

Volume of Water Column: 35.00 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 18:33

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-013

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Tan to rust in color, no odor.

I.D. No.	
Monitoring Point No.	NW-1C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	98	SM4500-CO ₂ D
Calcium, Total	31.9	EPA 200.7
Calcium, Dissolved	31.9	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	3260	EPA 200.7
Iron (ug/l), Dissolved	1090	EPA 200.7D
Magnesium, Total	6.3	EPA 200.7
Magnesium, Dissolved	6.3	EPA 200.7D
Manganese (ug/l), Total	450	EPA 200.7
Manganese (ug/l), Dissolved	440	EPA 200.7D
Nitrate Nitrogen	0.08	EPA 300.0
pH (standard units), Field	7.09	
pH (standard units), Laboratory	6.76	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.7	EPA 200.7D
Sodium, Total	6.6	EPA 200.7
Sodium, Dissolved	6.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	243	
Specific Conductance (umhos/cm), Laboratory	230	EPA 120.1
Sulfate	44	EPA 300.0
Total Alkalinity	98	SM 18 2320B
Total Dissolved Solids	142	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	10.2	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	120	EPA 200.7
Barium, Dissolved	120	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-1C
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-2C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 03 . 00 "

Depth to Water Level: 56.83 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1548.57 ft./MSL

Sampling Depth: 64.40 ft

Volume of Water Column: 8.70 gal.

Total Well Depth: 62.50 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 12:00

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-015

Final Lab Analysis Completion Date 03/31/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Gray, cloudy, sulfur odor.

I.D. No.	
Monitoring Point No.	NW-2C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.11	EPA 350.1
Bicarbonate (as CaCO ₃)	12	SM4500-CO ₂ D
Calcium, Total	2.6	EPA 200.7
Calcium, Dissolved	2.4	EPA 200.7D
Chemical Oxygen Demand	23	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	10200	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	3.4	EPA 200.7
Magnesium, Dissolved	2.6	EPA 200.7D
Manganese (ug/l), Total	340	EPA 200.7
Manganese (ug/l), Dissolved	110	EPA 200.7D
Nitrate Nitrogen	0.22	EPA 300.0
pH (standard units), Field	5.62	
pH (standard units), Laboratory	5.7	SM4500-H+B
Potassium, Total	2.1	EPA 200.7
Potassium, Dissolved	1.2	EPA 200.7D
Sodium, Total	0.9	EPA 200.7
Sodium, Dissolved	1.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	55	
Specific Conductance (umhos/cm), Laboratory	73	EPA 120.1
Sulfate	15	EPA 300.0
Total Alkalinity	12	SM 18 2320B
Total Dissolved Solids	32	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	328	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	6.6	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	30	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-2C
Sample Date	3/21/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-3B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 6.08 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 4.68 ft

Elevation of Water Level: 1667.76 ft./MSL

Sampling Depth: 11.82 ft

Volume of Water Column: 29.00 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 14:15

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-009

Final Lab Analysis Completion Date 04/12/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, slight sulfur odor.

I.D. No.	
Monitoring Point No.	NW-3B
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.15	EPA 350.1D
Bicarbonate (as CaCO ₃)	13	SM4500-CO ₂ D
Calcium, Total	212	EPA 200.7
Calcium, Dissolved	214	EPA 200.7D
Chemical Oxygen Demand	40	HACH 8000
Chloride	4	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	370000	EPA 200.7
Iron (ug/l), Dissolved	372000	EPA 200.7D
Magnesium, Total	127	EPA 200.7
Magnesium, Dissolved	128	EPA 200.7D
Manganese (ug/l), Total	39700	EPA 200.7
Manganese (ug/l), Dissolved	39900	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.71	
pH (standard units), Laboratory	5.04	SM4500-H+B
Potassium, Total	6.5	EPA 200.7
Potassium, Dissolved	6.4	EPA 200.7D
Sodium, Total	2.1	EPA 200.7
Sodium, Dissolved	2.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	2489	
Specific Conductance (umhos/cm), Laboratory	2220	EPA 120.1
Sulfate	1800	EPA 300.0
Total Alkalinity	13	SM 18 2320B
Total Dissolved Solids	2460	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	39.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3B
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	190	EPA 200.7
Zinc, Dissolved	200	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3B
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3B
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	100	EPA 200.7
Nickel, Total	110	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3B
Sample Date	3/21/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-3C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 46 . 00 "

Longitude: 78 ° 24 ' 00 . 00 "

Depth to Water Level: 77.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.53 ft

Elevation of Water Level: 1595.76 ft./MSL

Sampling Depth: 81.18 ft

Volume of Water Column: 32.00 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 13:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-016

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Cloudy gray with no odor.

I.D. No.	
Monitoring Point No.	NW-3C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	46	SM4500-CO ₂ D
Calcium, Total	7.3	EPA 200.7
Calcium, Dissolved	7.6	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	10200	EPA 200.7
Iron (ug/l), Dissolved	9630	EPA 200.7D
Magnesium, Total	4.7	EPA 200.7
Magnesium, Dissolved	4.8	EPA 200.7D
Manganese (ug/l), Total	1270	EPA 200.7
Manganese (ug/l), Dissolved	1330	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.48	
pH (standard units), Laboratory	6.43	SM4500-H+B
Potassium, Total	1.2	EPA 200.7
Potassium, Dissolved	1.2	EPA 200.7D
Sodium, Total	0.8	EPA 200.7
Sodium, Dissolved	0.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	107	
Specific Conductance (umhos/cm), Laboratory	137	EPA 120.1
Sulfate	12	EPA 300.0
Total Alkalinity	46	SM 18 2320B
Total Dissolved Solids	62	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	17.7	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	110	EPA 200.7
Barium, Dissolved	110	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-3C
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-4B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 62.68 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.99 ft

Elevation of Water Level: 1590.44 ft./MSL

Sampling Depth: 68.10 ft

Volume of Water Column: 8.10 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 10:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-013

Final Lab Analysis Completion Date 03/30/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Cloudy, gray, no odor.

I.D. No.	
Monitoring Point No.	NW-4B
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.13	EPA 350.1
Bicarbonate (as CaCO ₃)	37	SM4500-CO ₂ D
Calcium, Total	23.6	EPA 200.7
Calcium, Dissolved	22.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	2970	EPA 200.7
Iron (ug/l), Dissolved	70	EPA 200.7D
Magnesium, Total	10.9	EPA 200.7
Magnesium, Dissolved	10.1	EPA 200.7D
Manganese (ug/l), Total	4560	EPA 200.7
Manganese (ug/l), Dissolved	4310	EPA 200.7D
Nitrate Nitrogen	0.15	EPA 300.0
pH (standard units), Field	5.76	
pH (standard units), Laboratory	6.3	SM4500-H+B
Potassium, Total	2.3	EPA 200.7
Potassium, Dissolved	1.8	EPA 200.7D
Sodium, Total	6.5	EPA 200.7
Sodium, Dissolved	6.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	267	
Specific Conductance (umhos/cm), Laboratory	275	EPA 120.1
Sulfate	90	EPA 300.0
Total Alkalinity	37	SM 18 2320B
Total Dissolved Solids	216	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	156	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4B
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	60	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4B
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4B
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4B
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-4C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 16 . 00 "

Longitude: 78 ° 23 ' 43 . 00 "

Depth to Water Level: 107.72 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.79 ft

Elevation of Water Level: 1544.26 ft./MSL

Sampling Depth: 116.15 ft

Volume of Water Column: 21.30 gal.

Total Well Depth: 140.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 10:50

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-014

Final Lab Analysis Completion Date 04/10/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Cloudy, no odor.

I.D. No.	
Monitoring Point No.	NW-4C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.11	EPA 350.1
Bicarbonate (as CaCO ₃)	69	SM4500-CO ₂ D
Calcium, Total	42	EPA 200.7
Calcium, Dissolved	40.4	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	4900	EPA 200.7
Iron (ug/l), Dissolved	2150	EPA 200.7D
Magnesium, Total	6.1	EPA 200.7
Magnesium, Dissolved	5.7	EPA 200.7D
Manganese (ug/l), Total	1140	EPA 200.7
Manganese (ug/l), Dissolved	1060	EPA 200.7D
Nitrate Nitrogen	0.18	EPA 300.0
pH (standard units), Field	6.97	
pH (standard units), Laboratory	6.66	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	2.5	EPA 200.7D
Sodium, Total	9.6	EPA 200.7
Sodium, Dissolved	9.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	333	
Specific Conductance (umhos/cm), Laboratory	324	EPA 120.1
Sulfate	84	EPA 300.0
Total Alkalinity	69	SM 18 2320B
Total Dissolved Solids	330	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	8.2	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	60	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-4C
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-5B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 07 . 00 "

Longitude: 78 ° 23 ' 33 . 00 "

Depth to Water Level: 33.12 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.83 ft

Elevation of Water Level: 1671.77 ft./MSL

Sampling Depth: 42.68 ft

Volume of Water Column: 31.00 gal.

Total Well Depth: 70.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 8:45

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-011

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-5B
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	29	SM4500-CO ₂ D
Calcium, Total	49.5	EPA 200.7
Calcium, Dissolved	51.6	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	3	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	67800	EPA 200.7
Iron (ug/l), Dissolved	69200	EPA 200.7D
Magnesium, Total	40.4	EPA 200.7
Magnesium, Dissolved	42.3	EPA 200.7D
Manganese (ug/l), Total	15300	EPA 200.7
Manganese (ug/l), Dissolved	16900	EPA 200.7D
Nitrate Nitrogen	0.13	EPA 300.0
pH (standard units), Field	6.06	
pH (standard units), Laboratory	6.08	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.8	EPA 200.7D
Sodium, Total	3.2	EPA 200.7
Sodium, Dissolved	3.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	873	
Specific Conductance (umhos/cm), Laboratory	789	EPA 120.1
Sulfate	475	EPA 300.0
Total Alkalinity	29	SM 18 2320B
Total Dissolved Solids	642	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	51.6	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5B
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	30	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5B
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5B
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW-5B
Sample Date	3/21/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-5C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 06 . 00 "

Longitude: 78 ° 23 ' 32 . 00 "

Depth to Water Level: 100.55 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.90 ft

Elevation of Water Level: 1603.97 ft./MSL

Sampling Depth: 104.64 ft

Volume of Water Column: 14.00 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 8:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-012

Final Lab Analysis Completion Date 03/30/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	NW-5C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.13	EPA 350.1
Bicarbonate (as CaCO ₃)	24	SM4500-CO ₂ D
Calcium, Total	46.7	EPA 200.7
Calcium, Dissolved	47.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	4	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	14100	EPA 200.7
Iron (ug/l), Dissolved	11600	EPA 200.7D
Magnesium, Total	29	EPA 200.7
Magnesium, Dissolved	29.4	EPA 200.7D
Manganese (ug/l), Total	8540	EPA 200.7
Manganese (ug/l), Dissolved	8650	EPA 200.7D
Nitrate Nitrogen	0.16	EPA 300.0
pH (standard units), Field	5.93	
pH (standard units), Laboratory	5.64	SM4500-H+B
Potassium, Total	3.8	EPA 200.7
Potassium, Dissolved	3.8	EPA 200.7D
Sodium, Total	98.1	EPA 200.7
Sodium, Dissolved	99.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	978	
Specific Conductance (umhos/cm), Laboratory	916	EPA 120.1
Sulfate	507	EPA 300.0
Total Alkalinity	24	SM 18 2320B
Total Dissolved Solids	670	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	70.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	70	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	30	EPA 200.7
Nickel, Total	50	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-5C
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-6B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 17 . 00 "

Depth to Water Level: 42.15 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.22 ft

Elevation of Water Level: 1586.64 ft./MSL

Sampling Depth: 48.11 ft

Volume of Water Column: 21.00 gal.

Total Well Depth: 75.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 16:05

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-010

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form Geochemical Testing

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-6B
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	48	SM4500-CO ₂ D
Calcium, Total	17.5	EPA 200.7
Calcium, Dissolved	17	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	4860	EPA 200.7
Iron (ug/l), Dissolved	4300	EPA 200.7D
Magnesium, Total	7.7	EPA 200.7
Magnesium, Dissolved	7.5	EPA 200.7D
Manganese (ug/l), Total	1900	EPA 200.7
Manganese (ug/l), Dissolved	1840	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.39	
pH (standard units), Laboratory	6.28	SM4500-H+B
Potassium, Total	1.8	EPA 200.7
Potassium, Dissolved	1.7	EPA 200.7D
Sodium, Total	2.1	EPA 200.7
Sodium, Dissolved	2.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	185	
Specific Conductance (umhos/cm), Laboratory	178	EPA 120.1
Sulfate	48	EPA 300.0
Total Alkalinity	48	SM 18 2320B
Total Dissolved Solids	120	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	7	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	60	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6B
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-6C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 58 . 00 "

Longitude: 78 ° 24 ' 18 . 00 "

Depth to Water Level: 82.58 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.08 ft

Elevation of Water Level: 1544.65 ft./MSL

Sampling Depth: 107.04 ft

Volume of Water Column: 28.00 gal.

Total Well Depth: 125.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/21/06

Sample Collection Time: 16:15

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-011

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	NW-6C
Sample Date	3/21/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	74	SM4500-CO ₂ D
Calcium, Total	20	EPA 200.7
Calcium, Dissolved	19.3	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	4480	EPA 200.7
Iron (ug/l), Dissolved	200	EPA 200.7D
Magnesium, Total	6.8	EPA 200.7
Magnesium, Dissolved	6.4	EPA 200.7D
Manganese (ug/l), Total	680	EPA 200.7
Manganese (ug/l), Dissolved	310	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.54	
pH (standard units), Laboratory	6.49	SM4500-H+B
Potassium, Total	2.3	EPA 200.7
Potassium, Dissolved	1.9	EPA 200.7D
Sodium, Total	4.2	EPA 200.7
Sodium, Dissolved	4.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	132	
Specific Conductance (umhos/cm), Laboratory	165	EPA 120.1
Sulfate	19	EPA 300.0
Total Alkalinity	74	SM 18 2320B
Total Dissolved Solids	116	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	143	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	3/21/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	100	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	3/21/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	3/21/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-6C
Sample Date	3/21/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 43 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 24.94 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.39 ft

Elevation of Water Level: 1666.94 ft./MSL

Sampling Depth: 29.28 ft

Volume of Water Column: 12.60 gal.

Total Well Depth: 44.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 19:30

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-003

Final Lab Analysis Completion Date 04/04/06

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-7B
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.18	EPA 350.1
Bicarbonate (as CaCO ₃)	20	SM4500-CO ₂ D
Calcium, Total	299	EPA 200.7
Calcium, Dissolved	297	EPA 200.7D
Chemical Oxygen Demand	96	HACH 8000
Chloride	5	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	261000	EPA 200.7
Iron (ug/l), Dissolved	266000	EPA 200.7D
Magnesium, Total	230	EPA 200.7
Magnesium, Dissolved	233	EPA 200.7D
Manganese (ug/l), Total	136000	EPA 200.7
Manganese (ug/l), Dissolved	131000	EPA 200.7D
Nitrate Nitrogen	0.13	EPA 300.0
pH (standard units), Field	6.24	
pH (standard units), Laboratory	5.62	SM4500-H+B
Potassium, Total	3.7	EPA 200.7
Potassium, Dissolved	3.6	EPA 200.7D
Sodium, Total	2	EPA 200.7
Sodium, Dissolved	2	EPA 200.7D
Specific Conductance (umhos/cm), Field	3141	
Specific Conductance (umhos/cm), Laboratory	2850	EPA 120.1
Sulfate	2440	EPA 300.0
Total Alkalinity	20	SM 18 2320B
Total Dissolved Solids	3270	SM2540-C
Total Organic Carbon	0.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	97	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	12	EPA 200.7
Cadmium, Dissolved	12	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	7.7	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	160	EPA 200.7
Zinc, Dissolved	160	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	80	EPA 200.7
Nickel, Total	100	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 42 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 54.62 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.00 ft

Elevation of Water Level: 1636.47 ft./MSL

Sampling Depth: 81.13 ft

Volume of Water Column: 44.00 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.75

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 19:35

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-004

Final Lab Analysis Completion Date 04/03/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, sulfur odor.

I.D. No.	
Monitoring Point No.	NW-7C
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.31	EPA 350.1
Bicarbonate (as CaCO ₃)	69	SM4500-CO ₂ D
Calcium, Total	102	EPA 200.7
Calcium, Dissolved	99.4	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	5	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	46200	EPA 200.7
Iron (ug/l), Dissolved	40400	EPA 200.7D
Magnesium, Total	46.9	EPA 200.7
Magnesium, Dissolved	46.9	EPA 200.7D
Manganese (ug/l), Total	12900	EPA 200.7
Manganese (ug/l), Dissolved	12500	EPA 200.7D
Nitrate Nitrogen	0.14	EPA 300.0
pH (standard units), Field	7.16	
pH (standard units), Laboratory	6.57	SM4500-H+B
Potassium, Total	89.7	EPA 200.7
Potassium, Dissolved	84.6	EPA 200.7D
Sodium, Total	18.6	EPA 200.7
Sodium, Dissolved	17.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	1282	
Specific Conductance (umhos/cm), Laboratory	1150	EPA 120.1
Sulfate	613	EPA 300.0
Total Alkalinity	69	SM 18 2320B
Total Dissolved Solids	840	SM2540-C
Total Organic Carbon	2.2	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	212	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	60	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	3/20/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
Propene	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

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General References: Section 273.116

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 42 . 00 "

Longitude: 78 ° 23 ' 46 . 00 "

Depth to Water Level: 46.92 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.27 ft

Elevation of Water Level: 1663.04 ft./MSL

Sampling Depth: 48.67 ft

Volume of Water Column: 2.00 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 11:45

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-005

Final Lab Analysis Completion Date 03/30/06

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, no odor.

I.D. No.	
Monitoring Point No.	NW-8B
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.14	EPA 350.1
Bicarbonate (as CaCO ₃)	108	SM4500-CO ₂ D
Calcium, Total	20	EPA 200.7
Calcium, Dissolved	18	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	4	EPA 300.0
Fluoride	0.3	EPA 300.0
Iron (ug/l), Total	1910	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	9.4	EPA 200.7
Magnesium, Dissolved	8.6	EPA 200.7D
Manganese (ug/l), Total	1300	EPA 200.7
Manganese (ug/l), Dissolved	1040	EPA 200.7D
Nitrate Nitrogen	0.21	EPA 300.0
pH (standard units), Field	8.1	
pH (standard units), Laboratory	7.73	SM4500-H+B
Potassium, Total	73.4	EPA 200.7
Potassium, Dissolved	69.6	EPA 200.7D
Sodium, Total	34.2	EPA 200.7
Sodium, Dissolved	33.2	EPA 200.7D
Specific Conductance (umhos/cm), Field	550	
Specific Conductance (umhos/cm), Laboratory	544	EPA 120.1
Sulfate	141	EPA 300.0
Total Alkalinity	109	SM 18 2320B
Total Dissolved Solids	370	SM2540-C
Total Organic Carbon	3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	136	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	50	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 54 . 00 "

Longitude: 78 ° 23 ' 21 . 00 "

Depth to Water Level: 113.14 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.29 ft

Elevation of Water Level: 1597.33 ft./MSL

Sampling Depth: 117.10 ft

Volume of Water Column: 24.00 gal.

Total Well Depth: 150.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/20/06

Sample Collection Time: 11:15

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603427-006

Final Lab Analysis Completion Date 04/04/06

Name/Affiliation of Person who Filled out Form _____

Comments: Gray, slightly cloudy, no odor - pumps very fine sand.

I.D. No.	
Monitoring Point No.	NW-8C
Sample Date	3/20/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.22	EPA 350.1
Bicarbonate (as CaCO ₃)	42	SM4500-CO ₂ D
Calcium, Total	7.6	EPA 200.7
Calcium, Dissolved	7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.2	EPA 300.0
Iron (ug/l), Total	31200	EPA 200.7
Iron (ug/l), Dissolved	6220	EPA 200.7D
Magnesium, Total	3.2	EPA 200.7
Magnesium, Dissolved	2.9	EPA 200.7D
Manganese (ug/l), Total	2280	EPA 200.7
Manganese (ug/l), Dissolved	1090	EPA 200.7D
Nitrate Nitrogen	0.15	EPA 300.0
pH (standard units), Field	5.3	
pH (standard units), Laboratory	6.41	SM4500-H+B
Potassium, Total	4.8	EPA 200.7
Potassium, Dissolved	4.3	EPA 200.7D
Sodium, Total	4.8	EPA 200.7
Sodium, Dissolved	4.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	126	
Specific Conductance (umhos/cm), Laboratory	129	EPA 120.1
Sulfate	17	EPA 300.0
Total Alkalinity	42	SM 18 2320B
Total Dissolved Solids	72	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	1540	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	3/20/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	150	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	40	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	16.3	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	3/20/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	3/20/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	30	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	3/20/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: BF-A

☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 47 . 40 "

Longitude: 78 ° 23 ' 25 . 50 "

Depth to Water Level: 69.87 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1764.13 ft./MSL

Sampling Depth: 70.05 ft

Volume of Water Column: 5.40 gal.

Total Well Depth: 78.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/23/06

Sample Collection Time: 11:15

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-004

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	BF-A
Sample Date	3/23/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.42	EPA 350.1
Bicarbonate (as CaCO ₃)	220	SM4500-CO ₂ D
Calcium, Total	390	EPA 200.7
Calcium, Dissolved	407	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	6	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	16400	EPA 200.7
Iron (ug/l), Dissolved	19400	EPA 200.7D
Magnesium, Total	328	EPA 200.7
Magnesium, Dissolved	359	EPA 200.7D
Manganese (ug/l), Total	60800	EPA 200.7
Manganese (ug/l), Dissolved	63800	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.87	
pH (standard units), Laboratory	6.19	SM4500-H+B
Potassium, Total	8.7	EPA 200.7
Potassium, Dissolved	10.3	EPA 200.7D
Sodium, Total	11.6	EPA 200.7
Sodium, Dissolved	14.3	EPA 200.7D
Specific Conductance (umhos/cm), Field	3460	
Specific Conductance (umhos/cm), Laboratory	3140	EPA 120.1
Sulfate	2680	EPA 300.0
Total Alkalinity	220	SM 18 2320B
Total Dissolved Solids	3790	SM2540-C
Total Organic Carbon	2.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	6.4	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-A
Sample Date	3/23/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	70	EPA 200.7
Zinc, Dissolved	30	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-A
Sample Date	3/23/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-A
Sample Date	3/23/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	410	EPA 200.7
Nickel, Total	650	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-A
Sample Date	3/23/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: BF-B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 56 . 00 "

Longitude: 78 ° 23 ' 38 . 00 "

Depth to Water Level: 36.05 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1718.95 ft./MSL

Sampling Depth: 37.00 ft

Volume of Water Column: 6.28 gal.

Total Well Depth: 45.45 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/23/06

Sample Collection Time: 10:30

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-005

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	BF-B
Sample Date	3/23/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	2.1	EPA 350.1
Bicarbonate (as CaCO ₃)	30	SM4500-CO ₂ D
Calcium, Total	255	EPA 200.7
Calcium, Dissolved	228	EPA 200.7D
Chemical Oxygen Demand	11	HACH 8000
Chloride	12	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	62400	EPA 200.7
Iron (ug/l), Dissolved	37400	EPA 200.7D
Magnesium, Total	127	EPA 200.7
Magnesium, Dissolved	117	EPA 200.7D
Manganese (ug/l), Total	14800	EPA 200.7
Manganese (ug/l), Dissolved	8820	EPA 200.7D
Nitrate Nitrogen	0.16	EPA 300.0
pH (standard units), Field	5.37	
pH (standard units), Laboratory	5.9	SM4500-H+B
Potassium, Total	11.1	EPA 200.7
Potassium, Dissolved	10.7	EPA 200.7D
Sodium, Total	11	EPA 200.7
Sodium, Dissolved	11.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	1992	
Specific Conductance (umhos/cm), Laboratory	1890	EPA 120.1
Sulfate	1290	EPA 300.0
Total Alkalinity	30	SM 18 2320B
Total Dissolved Solids	1710	SM2540-C
Total Organic Carbon	2.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	68.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-B
Sample Date	3/23/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	90	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-B
Sample Date	3/23/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-B
Sample Date	3/23/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	60	EPA 200.7
Nickel, Total	60	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-B
Sample Date	3/23/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
Propene	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: BF-C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 37 . 09 "

Longitude: 78 ° 23 ' 39 . 09 "

Depth to Water Level: 6.58 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.50 ft

Elevation of Water Level: 1775.42 ft./MSL

Sampling Depth: 8.00 ft

Volume of Water Column: 9.20 gal.

Total Well Depth: 20.38 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☒ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/23/06

Sample Collection Time: 8:15

Sample Collector's Name: Ashley Helman

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603486-006

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: _____

I.D. No.	
Monitoring Point No.	BF-C
Sample Date	3/23/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.12	EPA 350.1
Bicarbonate (as CaCO ₃)	67	SM4500-CO ₂ D
Calcium, Total	88.4	EPA 200.7
Calcium, Dissolved	90.9	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	1490	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	64.4	EPA 200.7
Magnesium, Dissolved	67.9	EPA 200.7D
Manganese (ug/l), Total	24400	EPA 200.7
Manganese (ug/l), Dissolved	25000	EPA 200.7D
Nitrate Nitrogen	2.82	EPA 300.0
pH (standard units), Field	5.4	
pH (standard units), Laboratory	7.16	SM4500-H+B
Potassium, Total	5.6	EPA 200.7
Potassium, Dissolved	5.8	EPA 200.7D
Sodium, Total	61.8	EPA 200.7
Sodium, Dissolved	67.5	EPA 200.7D
Specific Conductance (umhos/cm), Field	1285	
Specific Conductance (umhos/cm), Laboratory	1240	EPA 120.1
Sulfate	623	EPA 300.0
Total Alkalinity	67	SM 18 2320B
Total Dissolved Solids	880	SM2540-C
Total Organic Carbon	4.3	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	10.6	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-C
Sample Date	3/23/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	490	EPA 200.7
Zinc, Dissolved	510	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-C
Sample Date	3/23/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-C
Sample Date	3/23/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	450	EPA 200.7
Nickel, Total	460	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	BF-C
Sample Date	3/23/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: Camp Rattlesnake

☒ Well ☐ Spring ☐ Stream ☐ Other

☒ Upgradient/Upstream ☐ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 18 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: NA ft

Measured from: ☐ Land Surface ☐ TOC

Casing Stick Up: NA ft

Elevation of Water Level: NA ft./MSL

Sampling Depth: NA ft

Volume of Water Column: NA gal.

Total Well Depth: NA ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: NA

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 03/22/06

Sample Collection Time: 13:15

Sample Collector's Name: Matt Bruckner / Rane Wilson

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0603459-008

Final Lab Analysis Completion Date 04/11/06

Name/Affiliation of Person who Filled out Form _____

Comments: Sample collected outside after allowing pump to operate for approximately 20 minutes at a rate > 5 gallons per minute. Sample was clear with no odor.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	3/22/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.28	EPA 350.1
Bicarbonate (as CaCO ₃)	50	SM4500-CO ₂ D
Calcium, Total	351	EPA 200.7
Calcium, Dissolved	348	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	36600	EPA 200.7
Iron (ug/l), Dissolved	33700	EPA 200.7D
Magnesium, Total	59.8	EPA 200.7
Magnesium, Dissolved	59.4	EPA 200.7D
Manganese (ug/l), Total	4940	EPA 200.7
Manganese (ug/l), Dissolved	4860	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.43	
pH (standard units), Laboratory	6.15	SM4500-H+B
Potassium, Total	2.5	EPA 200.7
Potassium, Dissolved	2.7	EPA 200.7D
Sodium, Total	1.2	EPA 200.7
Sodium, Dissolved	1.4	EPA 200.7D
Specific Conductance (umhos/cm), Field	1849	
Specific Conductance (umhos/cm), Laboratory	1660	EPA 120.1
Sulfate	1110	EPA 300.0
Total Alkalinity	50	SM 18 2320B
Total Dissolved Solids	1580	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	58.5	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	3/22/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	60	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	3/22/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	Camp Rattlesnake
Sample Date	3/22/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	Camp Rattlesnake
Sample Date	3/22/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	

**PHASE I APPLICATION
CAMP HOPE RUN LANDFILL
BOGGS TOWNSHIP, CLEARFIELD COUNTY, PENNSYLVANIA**

**FORM 8
ATTACHMENT 8-7
June 2006 Ground Water Monitoring Wells**

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BEUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Date Prepared/Revised

June-17

DEP USE ONLY

Date Received

FORM 8
MUNICIPAL WASTE LANDFILLS
BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7A

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 79.43 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.24 ft

Elevation of Water Level: 1629.94 ft./MSL

Sampling Depth: 81.60 ft

Volume of Water Column: 4.00 gal.

Total Well Depth: 83.50 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 16:45

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606372-001

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form

Comments: Brown/rust brown in color, no odor.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	36	SM4500-CO ₂ D
Calcium, Total	10.6	EPA 200.7
Calcium, Dissolved	10.7	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	2190	EPA 200.7
Iron (ug/l), Dissolved	< 50	EPA 200.7D
Magnesium, Total	3.8	EPA 200.7
Magnesium, Dissolved	3.8	EPA 200.7D
Manganese (ug/l), Total	420	EPA 200.7
Manganese (ug/l), Dissolved	< 10	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.91	
pH (standard units), Laboratory	6.74	SM4500-H+B
Potassium, Total	1.2	EPA 200.7
Potassium, Dissolved	1	EPA 200.7D
Sodium, Total	1.8	EPA 200.7
Sodium, Dissolved	1.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	101	
Specific Conductance (umhos/cm), Laboratory	104	EPA 120.1
Sulfate	13	EPA 300.0
Total Alkalinity	36	SM 18 2320B
Total Dissolved Solids	54	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	26.3	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7A
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7A
Sample Date	6/15/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BEUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Date Prepared/Revised

June-17

DEP USE ONLY

Date Received

FORM 8
MUNICIPAL WASTE LANDFILLS
BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

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SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 87.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.51 ft

Elevation of Water Level: 1621.49 ft./MSL

Sampling Depth: 93.48 ft

Volume of Water Column: 39.00 gal.

Total Well Depth: 147.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 16:00

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606372-002

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.3	EPA 350.1
Bicarbonate (as CaCO ₃)	50	SM4500-CO ₂ D
Calcium, Total	361	EPA 200.7
Calcium, Dissolved	357	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	21600	EPA 200.7
Iron (ug/l), Dissolved	22400	EPA 200.7D
Magnesium, Total	55	EPA 200.7
Magnesium, Dissolved	54.6	EPA 200.7D
Manganese (ug/l), Total	4480	EPA 200.7
Manganese (ug/l), Dissolved	4240	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.27	
pH (standard units), Laboratory	6.45	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	2.8	EPA 200.7D
Sodium, Total	2.2	EPA 200.7
Sodium, Dissolved	1.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	1450	
Specific Conductance (umhos/cm), Laboratory	1640	EPA 120.1
Sulfate	1120	EPA 300.0
Total Alkalinity	50	SM 18 2320B
Total Dissolved Solids	1550	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	14.7	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BEUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Date Prepared/Revised

June-17

DEP USE ONLY

Date Received

FORM 8
MUNICIPAL WASTE LANDFILLS
BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 87.70 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.51 ft

Elevation of Water Level: 1621.49 ft./MSL

Sampling Depth: 93.48 ft

Volume of Water Column: 39.00 gal.

Total Well Depth: 147.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 16:00

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606372-002

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.3	EPA 350.1
Bicarbonate (as CaCO ₃)	50	SM4500-CO ₂ D
Calcium, Total	361	EPA 200.7
Calcium, Dissolved	357	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	21600	EPA 200.7
Iron (ug/l), Dissolved	22400	EPA 200.7D
Magnesium, Total	55	EPA 200.7
Magnesium, Dissolved	54.6	EPA 200.7D
Manganese (ug/l), Total	4480	EPA 200.7
Manganese (ug/l), Dissolved	4240	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.27	
pH (standard units), Laboratory	6.45	SM4500-H+B
Potassium, Total	2.7	EPA 200.7
Potassium, Dissolved	2.8	EPA 200.7D
Sodium, Total	2.2	EPA 200.7
Sodium, Dissolved	1.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	1450	
Specific Conductance (umhos/cm), Laboratory	1640	EPA 120.1
Sulfate	1120	EPA 300.0
Total Alkalinity	50	SM 18 2320B
Total Dissolved Solids	1550	SM2540-C
Total Organic Carbon	0.6	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	14.7	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	10	EPA 200.7
Barium, Dissolved	10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7B
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



Date Prepared/Revised

June-17

DEP USE ONLY

Date Received

FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 19 . 00 "

Longitude: 78 ° 24 ' 35 . 00 "

Depth to Water Level: 89.00 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 1.71 ft

Elevation of Water Level: 1619.24 ft./MSL

Sampling Depth: 110.80 ft

Volume of Water Column: 70.00 gal.

Total Well Depth: 194.50 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ GrabWell Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 16:35

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s):

Lab Sample Number(s) G0606372-003

Final Lab Analysis Completion Date 06/30/06

Name/Affiliation of Person who Filled out Form

Comments: Slightly cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-7C
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE †	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.23	EPA 350.1
Bicarbonate (as CaCO ₃)	34	SM4500-CO ₂ D
Calcium, Total	361	EPA 200.7
Calcium, Dissolved	359	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	32000	EPA 200.7
Iron (ug/l), Dissolved	31000	EPA 200.7D
Magnesium, Total	60.4	EPA 200.7
Magnesium, Dissolved	60.2	EPA 200.7D
Manganese (ug/l), Total	4720	EPA 200.7
Manganese (ug/l), Dissolved	4690	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	6.11	
pH (standard units), Laboratory	6.22	SM4500-H+B
Potassium, Total	2.4	EPA 200.7
Potassium, Dissolved	2.2	EPA 200.7D
Sodium, Total	5.4	EPA 200.7
Sodium, Dissolved	5	EPA 200.7D
Specific Conductance (umhos/cm), Field	1909	
Specific Conductance (umhos/cm), Laboratory	1700	EPA 120.1
Sulfate	1180	EPA 300.0
Total Alkalinity	34	SM 18 2320B
Total Dissolved Solids	1630	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	13.3	EPA 180.1

† Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE[†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

† Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	W-7C
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromomethane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromomethane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl Iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7C
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: W-7E

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 56 ' 18 . 00 "

Longitude: 78 ° 24 ' 36 . 00 "

Depth to Water Level: 85.05 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 2.39 ft

Elevation of Water Level: 1625.51 ft./MSL

Sampling Depth: 97.74 ft

Volume of Water Column: 16.00 gal.

Total Well Depth: 109.70 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 17:45

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606372-004

Final Lab Analysis Completion Date 06/30/06

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, no odor.

I.D. No.	
Monitoring Point No.	W-7E
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	95	SM4500-CO ₂ D
Calcium, Total	266	EPA 200.7
Calcium, Dissolved	260	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	670	EPA 200.7
Iron (ug/l), Dissolved	90	EPA 200.7D
Magnesium, Total	39.4	EPA 200.7
Magnesium, Dissolved	38.5	EPA 200.7D
Manganese (ug/l), Total	3120	EPA 200.7
Manganese (ug/l), Dissolved	2370	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.53	
pH (standard units), Laboratory	6.82	SM4500-H+B
Potassium, Total	1.7	EPA 200.7
Potassium, Dissolved	1.6	EPA 200.7D
Sodium, Total	2.7	EPA 200.7
Sodium, Dissolved	2.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	1413	
Specific Conductance (umhos/cm), Laboratory	1300	EPA 120.1
Sulfate	743	EPA 300.0
Total Alkalinity	95	SM 18 2320B
Total Dissolved Solids	1130	SM2540-C
Total Organic Carbon	0.8	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	12.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	< 10	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	< 10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	W-7E
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 43 . 01 "

Longitude: 78 ° 23 ' 46 . 61 "

Depth to Water Level: 25.41 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.39 ft

Elevation of Water Level: 1666.47 ft./MSL

Sampling Depth: 29.28 ft

Volume of Water Column: 12.27 gal.

Total Well Depth: 44.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 13:35

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606355-001

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form _____

Comments: Clear, no odor.

I.D. No.	
Monitoring Point No.	NW-7B
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.11	EPA 350.1
Bicarbonate (as CaCO ₃)	7	SM4500-CO ₂ D
Calcium, Total	355	EPA 200.7
Calcium, Dissolved	339	EPA 200.7D
Chemical Oxygen Demand	37	HACH 8000
Chloride	2	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	280000	EPA 200.7
Iron (ug/l), Dissolved	268000	EPA 200.7D
Magnesium, Total	222	EPA 200.7
Magnesium, Dissolved	213	EPA 200.7D
Manganese (ug/l), Total	148000	EPA 200.7
Manganese (ug/l), Dissolved	152000	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.47	
pH (standard units), Laboratory	4.74	SM4500-H+B
Potassium, Total	3.5	EPA 200.7
Potassium, Dissolved	3.4	EPA 200.7D
Sodium, Total	2	EPA 200.7
Sodium, Dissolved	1.9	EPA 200.7D
Specific Conductance (umhos/cm), Field	3426	
Specific Conductance (umhos/cm), Laboratory	3050	EPA 120.1
Sulfate	2380	EPA 300.0
Total Alkalinity	7	SM 18 2320B
Total Dissolved Solids	3680	SM2540-C
Total Organic Carbon	0.7	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	43.8	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	20	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	150	EPA 200.7
Zinc, Dissolved	150	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7B
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	90	EPA 200.7
Nickel, Total	110	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	
Monitoring Point No.	NW-7B
Sample Date	6/15/2006

FORM 8

5. Qualitatively Identified Organic Compounds

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-7C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 43 . 01 "

Longitude: 78 ° 23 ' 46 . 61 "

Depth to Water Level: 56.37 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.00 ft

Elevation of Water Level: 1634.72 ft./MSL

Sampling Depth: 81.13 ft

Volume of Water Column: 43.00 gal.

Total Well Depth: 121.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.25

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 14:15

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606355-002

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form _____

Comments: Slightly cloudy, sulfur odor.

I.D. No.	
Monitoring Point No.	NW-7C
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	0.13	EPA 350.1
Bicarbonate (as CaCO ₃)	22	SM4500-CO ₂ D
Calcium, Total	130	EPA 200.7
Calcium, Dissolved	125	EPA 200.7D
Chemical Oxygen Demand	15	HACH 8000
Chloride	3	EPA 300.0
Fluoride	< 0.1	EPA 300.0
Iron (ug/l), Total	96800	EPA 200.7
Iron (ug/l), Dissolved	92100	EPA 200.7D
Magnesium, Total	56.6	EPA 200.7
Magnesium, Dissolved	54.9	EPA 200.7D
Manganese (ug/l), Total	15800	EPA 200.7
Manganese (ug/l), Dissolved	16300	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	5.58	
pH (standard units), Laboratory	5.7	SM4500-H+B
Potassium, Total	3.9	EPA 200.7
Potassium, Dissolved	4	EPA 200.7D
Sodium, Total	3.5	EPA 200.7
Sodium, Dissolved	3.7	EPA 200.7D
Specific Conductance (umhos/cm), Field	1286	
Specific Conductance (umhos/cm), Laboratory	1140	EPA 120.1
Sulfate	717	EPA 300.0
Total Alkalinity	22	SM 18 2320B
Total Dissolved Solids	1090	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	12.6	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	30	EPA 200.7
Barium, Dissolved	20	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	20	EPA 200.7
Zinc, Dissolved	20	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	20	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-7C
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8B

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 54 . 81 "

Longitude: 78 ° 23 ' 21 . 98 "

Depth to Water Level: 46.02 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.27 ft

Elevation of Water Level: 1663.94 ft./MSL

Sampling Depth: 48.67 ft

Volume of Water Column: 3.00 gal.

Total Well Depth: 50.00 ft.

Sampling Method: ☐ Pumped ☒ Bailed ☐ Grab

Well Purged: ☐ Yes ☐ No

Well Volumes Purged: 1.00

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 11:45

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606355-003

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form _____

Comments: Cloudy, no odor.

I.D. No.	
Monitoring Point No.	NW-8B
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	128	SM4500-CO ₂ D
Calcium, Total	16.6	EPA 200.7
Calcium, Dissolved	19.5	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	1660	EPA 200.7
Iron (ug/l), Dissolved	840	EPA 200.7D
Magnesium, Total	8.7	EPA 200.7
Magnesium, Dissolved	9.5	EPA 200.7D
Manganese (ug/l), Total	260	EPA 200.7
Manganese (ug/l), Dissolved	960	EPA 200.7D
Nitrate Nitrogen	0.12	EPA 300.0
pH (standard units), Field	6.07	
pH (standard units), Laboratory	7.11	SM4500-H+B
Potassium, Total	47.8	EPA 200.7
Potassium, Dissolved	54.6	EPA 200.7D
Sodium, Total	21.7	EPA 200.7
Sodium, Dissolved	24.8	EPA 200.7D
Specific Conductance (umhos/cm), Field	491	
Specific Conductance (umhos/cm), Laboratory	382	EPA 120.1
Sulfate	68	EPA 300.0
Total Alkalinity	128	SM 18 2320B
Total Dissolved Solids	268	SM2540-C
Total Organic Carbon	1.9	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	62	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	70	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	< 10	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	< 10	EPA 200.7
Zinc, Dissolved	< 10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	10	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8B
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	



FORM 8

MUNICIPAL WASTE LANDFILLS

BASELINE GROUND WATER ANALYSES

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 8, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General References: Section 273.116

Federal Regulations, Subtitle D: 258.54 and Appendix I to Part 258.

An application for a municipal waste landfill shall contain a description of the chemical characteristics of each aquifer in the proposed permit area and adjacent area, based on at least two quarters of monitoring data, one of which shall include the season of the highest local groundwater levels. Submit separate forms for each sample analysis

SECTION A. SITE IDENTIFIER

Applicant/permittee PA Waste LLC

Site Name Camp Hope Run Landfill

Facility ID (as issued by DEP)

SECTION B. FACILITY INFORMATION

Monitoring wells must be designed and constructed in accordance with Department standards. **INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.SS").**

Monitoring Point Number: NW-8C

☒ Well ☐ Spring ☐ Stream ☐ Other

☐ Upgradient/Upstream ☒ Downgradient/Downstream

Location: County Clearfield County

Municipality: Boggs Township

Sampling Point: Latitude: 40 ° 55 ' 54 . 81 "

Longitude: 78 ° 23 ' 21 . 98 "

Depth to Water Level: 112.78 ft

Measured from: ☐ Land Surface ☒ TOC

Casing Stick Up: 3.29 ft

Elevation of Water Level: 1597.69 ft./MSL

Sampling Depth: 117.10 ft

Volume of Water Column: 11.00 gal.

Total Well Depth: 150.00 ft.

Sampling Method: ☒ Pumped ☐ Bailed ☐ Grab

Well Purged: ☒ Yes ☐ No

Well Volumes Purged: 0.50

Sample Field Filtered (must be 0.45 micron)? ☒ Yes ☐ No

Spring Flow Rate: _____ GPM

Sample Date (mm/dd/yy): 06/15/06

Sample Collection Time: 12:35

Sample Collector's Name: Matt Bruckner

Sample Collector's Affiliation: Marshall Miller & Associates, Inc.

Laboratory(ies) Performing Analysis: Geochemical Testing

Were Any Holding Times Exceeded? ☐ Yes ☒ No If Yes, please explain in comments field.

Lab Certification Number(s): E87642FL and 56-306PA

Lab Sample Number(s) G0606355-004

Final Lab Analysis Completion Date 06/26/06

Name/Affiliation of Person who Filled out Form _____

Comments: Gray, slightly cloudy, no odor - pumps very fine sand.

I.D. No.	
Monitoring Point No.	NW-8C
Sample Date	6/15/2006

FORM 8

SECTION C. ANALYTES

1. Inorganics (Enter all data in mg/l except as noted)

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Ammonia-Nitrogen	< 0.10	EPA 350.1
Bicarbonate (as CaCO ₃)	58	SM4500-CO ₂ D
Calcium, Total	9.4	EPA 200.7
Calcium, Dissolved	9.4	EPA 200.7D
Chemical Oxygen Demand	< 10	HACH 8000
Chloride	< 1	EPA 300.0
Fluoride	0.1	EPA 300.0
Iron (ug/l), Total	6380	EPA 200.7
Iron (ug/l), Dissolved	280	EPA 200.7D
Magnesium, Total	3	EPA 200.7
Magnesium, Dissolved	3	EPA 200.7D
Manganese (ug/l), Total	1360	EPA 200.7
Manganese (ug/l), Dissolved	1310	EPA 200.7D
Nitrate Nitrogen	< 0.05	EPA 300.0
pH (standard units), Field	4.29	
pH (standard units), Laboratory	6.52	SM4500-H+B
Potassium, Total	10.4	EPA 200.7
Potassium, Dissolved	10	EPA 200.7D
Sodium, Total	29.2	EPA 200.7
Sodium, Dissolved	28.1	EPA 200.7D
Specific Conductance (umhos/cm), Field	270	
Specific Conductance (umhos/cm), Laboratory	246	EPA 120.1
Sulfate	69	EPA 300.0
Total Alkalinity	58	SM 18 2320B
Total Dissolved Solids	176	SM2540-C
Total Organic Carbon	< 0.5	SM 19 5310-C
Total Phenolics (ug/l)	< 10.0	EPA 420.1
Turbidity (NTU)	164	EPA 180.1

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	6/15/2006

FORM 8**2. Metals (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Arsenic, Total	< 10	EPA 200.8
Arsenic, Dissolved	< 10	EPA 200.8D
Barium, Total	90	EPA 200.7
Barium, Dissolved	80	EPA 200.7D
Cadmium, Total	< 5	EPA 200.7
Cadmium, Dissolved	< 5	EPA 200.7D
Chromium, Total	20	EPA 200.7
Chromium, Dissolved	< 10	EPA 200.7D
Copper, Total	< 10	EPA 200.7
Copper, Dissolved	< 10	EPA 200.7D
Lead, Total	< 5.0	EPA 200.8
Lead, Dissolved	< 5.0	EPA 200.8D
Mercury, Total	< 0.20	SM 3112B
Mercury, Dissolved	< 0.20	SM 3112B (D)
Selenium, Total	< 5.0	EPA 200.8
Selenium, Dissolved	< 5.0	EPA 200.8D
Silver, Total	< 10	EPA 200.7
Silver, Dissolved	< 10	EPA 200.7D
Zinc, Total	10	EPA 200.7
Zinc, Dissolved	10	EPA 200.7D

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	6/15/2006

FORM 8**3. Organics (Enter all data in µg/l)**

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Benzene	< 5.0	EPA 8260B
Bromoform (Tribromometane)	< 5.0	EPA 8260B
Carbon tetrachloride	< 5.0	EPA 8260B
Chlorobenzene	< 5.0	EPA 8260B
Chloroethane (Ethyl Chloride)	< 5.0	EPA 8260B
3-Chloro-1propene	< 5.0	EPA 8260B
Dibromochloromethane (Chlorodibromomethane)	< 5.0	EPA 8260B
1,2 Dibromoethane (EDB)	< 5.0	EPA 8260B
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.0	EPA 8260B
1,3-Dichlorobenzene	< 5.0	EPA 8260B
1,4-Dichlorobenzene	< 5.0	EPA 8260B
Dichlorodifluoromethane	< 5.0	EPA 8260B
1,1-Dichloroethane (Ethylidene chloride)	< 5.0	EPA 8260B
1,1-Dichloroethene (Vinylidene chloride)	< 5.0	EPA 8260B
1,2-Dichloroethane (Ethylene dichloride)	< 5.0	EPA 8260B
Cis 1,2-Dichloroethene	< 5.0	EPA 8260B
Trans 1,2-Dichloroethene	< 5.0	EPA 8260B
1,2-Dichloropropane (Propylene Dichloride)	< 5.0	EPA 8260B
Cis-1,3Dichloropropene	< 5.0	EPA 8260B
Trans-1,3-Dichloropropene	< 5.0	EPA 8260B
Ethyl Benzene	< 5.0	EPA 8260B
Methyl Bromide (Bromomethane)	< 5.0	EPA 8260B
Methyl Chloride (Chloromethane)	< 5.0	EPA 8260B
Methylene chloride	< 5.0	EPA 8260B
Methyl Ethyl Ketone (2-Butanone)	< 5.0	EPA 8260B
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	< 5.0	EPA 8260B
1,1,1,2-Tetrachloroethane	< 5.0	EPA 8260B
1,1,2,2-Tetrachloroethane	< 5.0	EPA 8260B
Tetrachloroethene (Perchloroethylene)	< 5.0	EPA 8260B
Toluene	< 5.0	EPA 8260B
1,1,1,-Trichloroethane (Methyl chloroform)	< 5.0	EPA 8260B
1,1,2-Trichloroethane	< 5.0	EPA 8260B
Trichloroethene	< 5.0	EPA 8260B
Trichlorofluoromethane (CFC-11)	< 5.0	EPA 8260B
1,2,3-Trichloropropane	< 5.0	EPA 8260B
Vinyl chloride	< 2.0	EPA 8260B
Xylene	< 5.0	EPA 8260B

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	6/15/2006

FORM 8

4. **SUBTITLE D - Add-On List - For Detection Zone Analytes (ug/L).** When the MCL (where established) of any analyte is exceeded in the detection zone (e.g. established cells) Form 50 monitoring, the following analytes must be monitored during the baseline groundwater analyses.

ORGANICS AND METALS

ANALYTE	VALUE [†]	ANALYSIS METHOD NUMBER
Acetone	< 20.0	EPA 8260B
Acrylonitrile	< 5.0	EPA 8260B
Bromochloromethane (Chlorobromometane)	< 5.0	EPA 8260B
Bromodichloromethane (Dichlorobromomethane)	< 5.0	EPA 8260B
Carbon Disulfide	< 5.0	EPA 8260B
Trichloromethane (Chloroform)	< 5.0	EPA 8260B
1,2-Dibromo-3-Chloropropane (DBCP)	< 5.0	EPA 8260B
trans-1,4-Dichloro-2-Butene	< 5.0	EPA 8260B
Methyl butyl ketone (2-Hexanone)	< 5.0	EPA 8260B
Methylene bromide (Dibromomethane)	< 5.0	EPA 8260B
Methyl iodide (Iodomethane)	< 5.0	EPA 8260B
Styrene	< 5.0	EPA 8260B
Vinyl Acetate	< 5.0	EPA 8260B
Antimony, Total	< 5.0	EPA 200.8
Beryllium, Total	< 4	EPA 200.7
Cobalt, Total	< 10	EPA 200.7
Nickel, Total	20	EPA 200.7
Thallium, Total	< 2.0	EPA 200.8
Vanadium, Total	< 10	EPA 200.7

[†] Please indicate detection limit if analyte is not detected.

I.D. No.	_____
Monitoring Point No.	NW-8C
Sample Date	6/15/2006

FORM 8**5. Qualitatively Identified Organic Compounds**

List at least ten volatile organic compounds not otherwise identified in this section. Their identification should be based upon those compounds showing the greatest apparent concentration from the peaks of a mass spectrum of each sample. These ten compounds shall be identified but their concentration does not require measurement.

<u>Constituent</u>	<u>CAS NUMBER</u>
None Detected	