



Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
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APR 12 2018

RECEIVED
By Miriam.Miller at 2:15 pm, Apr 12, 2018

Ms. Jamie Nielsen, Supervisor
Permit Administration Section
Division of Waste Management, Solid Waste Branch
Kentucky Department for Environmental Protection
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-4797610-18A

Dear Ms. Nielsen:

C-746-S&T AND C-746-U SOLID WASTE LANDFILL FIRST QUARTER CALENDAR YEAR 2018 WASTE QUANTITY AND OPERATING REPORT, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0032/V1

The U.S. Department of Energy has prepared the first quarter operating report for calendar year (CY) 2018 for the C-746-S&T and C-746-U Landfills at the Paducah Gaseous Diffusion Plant. Kentucky Solid Waste Regulation 401 KAR 47:190 § 8(1) and Solid Waste Permit Number SW07300014, SW07300015, SW07300045 require submittal of quarterly reports from operators of solid waste landfills.

This report contains operating information for first quarter CY 2018. Per correspondence dated February 8, 2005, from Ron Gruzesky, Manager, Solid Waste Branch, an additional C-746-U Quarterly Waste Quantity Report form is included as a separate report in this submittal.

The groundwater analysis data, surface water data, and methane monitoring results are submitted as separate reports for the C-746-S&T Landfills and C-746-U Landfill.

If you have any questions or require additional information, please contact David Dollins at (270) 441-6819.

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Woodard".

Jennifer Woodard
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. C-746-S&T and C-746-U Solid Waste Landfill First Quarter CY 2018 Waste Quantity and Operating Report
2. Waste Quantity Report Form

e-copy w/enclosures:

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FRNP-RPT-0032/V1

**C-746-S&T and C-746-U Solid Waste Landfill
First Quarter Calendar Year 2018
Waste Quantity and Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**



This document is approved for public release per review by:


FRNP Classification Support

4-11-18
Date

FRNP-RPT-0032/V1

**C-746-S&T and C-746-U Solid Waste Landfill
First Quarter Calendar Year 2018
Waste Quantity and Operating Report
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**

Date Issued—April 2018

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,
managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract DE-EM0004895

CLEARED FOR PUBLIC RELEASE

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REPORT SUMMARY

The information contained herein is submitted in accordance with the requirements of Solid Waste Permit Number SW07300045, SW07300014, SW07300015 and 401 KAR 47:190 § 8(1)(a) through (c) and (e), for the first quarter of calendar year 2018 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the first quarter of calendar year 2018, no waste was disposed of in the C-746-U Contained Landfill. No special waste or spill residue-containing materials were placed in the landfill this quarter. No asbestos-containing materials were dispositioned.

The C-746-S Residential Landfill has been inactive since July 1995, and the C-746-T Inert Landfill has been inactive since June 1992.

Analytical results for surface water, groundwater, and methane monitoring are submitted in separate quarterly Compliance Monitoring Reports for the C-746-U Landfill and C-746-S&T Landfills [401 KAR 47:190 § 8(1)(d)].

Leachate Collection and Disposition

On January 4, 2017, the Landfill Manager notified Kentucky Division of Waste Management that leachate would be transported to the C-615 Wastewater Treatment Facility until further notice. During the first quarter of calendar year 2018, a total of 495,300 gal of leachate from the C-746-U Landfill was transported to the C-615 Wastewater Treatment Facility for treatment and discharge. There was no leachate from the C-746-S Landfill transported this quarter.

Annual leachate samples were obtained on March 20, 2018, and March 22, 2018, from the C-746-S Landfill leachate and the C-746-U Landfill leachate, respectively. Analytical results were not available for inclusion in this report by the regulatory deadline; the results will be provided in the next quarterly report. Analytical results of the C-746-U Landfill leachate from the fourth quarter of calendar year 2017 that were not available during the previous reporting period are included in this report.

The tank volume reported on the leachate log is the volume at the time of measurement. Calculation of the next day tank volume by subtraction of disposal volume may not reflect the measured tank volume because additional leachate had entered the system.

Construction Activities and Cover Maintenance

There were no construction activities at the C-746-U Landfill [401 KAR 47:190 § 8(1)(a)]. The landfill was inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9(6)(f)]. No repairs were necessary during the quarter.

There were no construction activities for either the C-746-S or C-746-T Landfills. The landfills were inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9(6)(f)]. No repairs were necessary during the quarter.

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FACILITY INFORMATION SHEET

Sampling Date: March 20, 2018, and March 22, 2018

County: McCracken Permit No.: SW07300014; SW07300015;
SW07300045
Facility Name: U.S. Department of Energy—Paducah Gaseous Diffusion Plant
(as officially shown on DWM permit face)

Site Address: 5501 Hobbs Road Kevil, Kentucky 42053
Street City/State Zip

Phone No.: (270) 441-6800 Latitude: N 37° 07' 45" Longitude: W 88° 47' 55"

OWNER INFORMATION

Facility Owner: U.S. DOE—Robert E. Edwards III, Manager Phone No.: (859) 227-5020

Contact Person: Curt B. Walker Phone No.: (270) 441-5226

Contact Person Title: Director, Environmental Services Project, Four Rivers Nuclear Partnership, LLC

Mailing Address: 5511 Hobbs Road Kevil, Kentucky 42053
Street City/State Zip

SAMPLING PERSONNEL (if other than landfill or laboratory)

Company: GEO Consultants, LLC

Contact Person: Sam Martin Phone No.: (270) 441-6755

Mailing Address: 325 Kentucky Avenue Kevil, Kentucky 42053
Street City/State Zip

LABORATORY RECORD #1

Laboratory: GEL Laboratories, LLC Lab ID No.: KY90129

Contact Person: Valerie Davis Phone No.: (843) 769-7391

Mailing Address: P.O. Box 30712 Charleston, South Carolina 29417
Street City/State Zip

LABORATORY RECORD #2

Laboratory: N/A Lab ID No.: N/A

Contact Person: N/A Phone No.: N/A

Mailing Address: N/A N/A N/A
Street City/State Zip

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**C-746-U LANDFILL
QUARTERLY WASTE QUANTITY REPORT**

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Department for Environmental Protection/Division of Waste Management/Solid Waste Branch
 Quarterly Waste Quantity Report-DEP 7046Q (Revised 2-05)

Page 1 of 1

WASTE ACTIVITY: CONTAINED LANDFILL

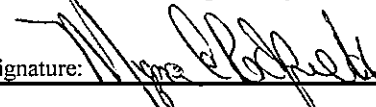
Facility Name: U.S. Department of Energy- Paducah Gaseous Diffusion Plant Permit Number SW07300045
 County where landfill is located: McCracken Agency Interest Number: 3059
 Report for the Months of: January, February, March For the Year of: 2018

Waste Source (County and State)	Type of Waste			**Waste Used as Alternate Daily Cover as Approved (Tons Only)
	*Municipal Solid Waste (Tons Only)	*Industrial Waste (Tons Only)	*Special Waste (Tons Only)	
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (January)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (February)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (March)	0.00	0.00	0.00	0.00
Total for this page	0.00	0.00	0.00	0.00
Grand Total of all pages	0.00	0.00	0.00	0.00

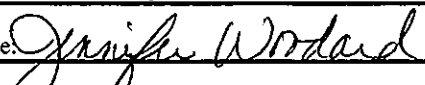
Grand Total of Municipal, Industrial, and Special from all pages 0.00

*Does not include waste used as Alternate Daily Cover.
 **Indicate the amount used as Alternate Daily Cover. Please note this requires prior approval by the Cabinet.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.

Signature: 
 Name—Please Print: Myrna E. Redfield

Phone Number (270) 441-5113
 Date: 4/12/18

Signature: 
 Name—Please Print: Jennifer Woodard

Phone Number (270) 441-6800
 Date: 4/12/18

This Certification clause shall be signed by the responsible person(s) described in 401 KAR 47:160, Section 6(1), and/or (2) and is required by 401 KAR 47:160, Section 6(4).

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**C-746-U LANDFILL
COVER LOG**

JANUARY, FEBRUARY, MARCH 2018

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CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: 073-00045

COUNTY: McCracken

Month & Year: January 2018

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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18						
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26						
27						
28						
29						
30						
31						

There were no waste disposal or cover activities during the month of January 2018

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: 073-00045

COUNTY: McCracken

Month & Year: February 2018

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
4						
5						
6						
7						
8						
9	<p>There were no waste disposal or cover activities during the month of February 2018</p>					
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28						
29						
30						
31						

CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY
 COUNTY: McCracken

PERMIT NUMBER: 073-00045
 Month & Year: March 2018

Day of Month	Daily Cell Location	Daily Cover Applied?	Interim Cover	Long Term Cover	Final Cap	Temporary Diversion Ditch Yes/No
1						
2						
3						
4						
5						
6						
7						
8						
9	There were no waste disposal or cover activities during the month of March 2018					
10						
11						
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LEACHATE LOG

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CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01-02-18	1,2,3,4,5	F-001		17500		
01-02-18	1,2,3,4,5	F-002		29900		
01-02-18	1,2,3,4,5	F-007		1500		
01-02-18	1,2,3,4,5	F-008		1500		
01-02-18	1,2,3,4,5	F-009		500		
01-03-18	1,2,3,4,5	F-001		19200		
01-03-18	1,2,3,4,5	F-002		30400	2300	W
01-03-18	1,2,3,4,5	F-007		1500		
01-03-18	1,2,3,4,5	F-008		1500		
01-03-18	1,2,3,4,5	F-009		500		
01-04-18	1,2,3,4,5	F-001		20600		
01-04-18	1,2,3,4,5	F-002		28100		
01-04-18	1,2,3,4,5	F-007		1500		
01-04-18	1,2,3,4,5	F-008		1500		
01-04-18	1,2,3,4,5	F-009		500		
01-08-18	1,2,3,4,5	F-001		24300		
01-08-18	1,2,3,4,5	F-002		28100	12600	W
01-08-18	1,2,3,4,5	F-007		1500		
01-08-18	1,2,3,4,5	F-008		1500		
01-08-18	1,2,3,4,5	F-009		500		
01-09-18	1,2,3,4,5	F-001		26000		
01-09-18	1,2,3,4,5	F-002		15500	11400	W
01-09-18	1,2,3,4,5	F-007		1500		
01-09-18	1,2,3,4,5	F-008		1500		
01-09-18	1,2,3,4,5	F-009		500		
01-10-18	1,2,3,4,5	F-001		28300	1500	W
01-10-18	1,2,3,4,5	F-002		4100	2400	W

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01-10-18	1,2,3,4,5	F-007		1500		
01-10-18	1,2,3,4,5	F-008		1500		
01-10-18	1,2,3,4,5	F-009		500		
01-11-18	1,2,3,4,5	F-001		26800	11500	W
01-11-18	1,2,3,4,5	F-002		3700		
01-11-18	1,2,3,4,5	F-007		1500		
01-11-18	1,2,3,4,5	F-008		1500		
01-11-18	1,2,3,4,5	F-009		500		
01-16-18	1,2,3,4,5	F-001		15300		
01-16-18	1,2,3,4,5	F-002		30200		
01-16-18	1,2,3,4,5	F-007		1500		
01-16-18	1,2,3,4,5	F-008		1500		
01-16-18	1,2,3,4,5	F-009		500		
01-17-18	1,2,3,4,5	F-001		17000		
01-17-18	1,2,3,4,5	F-002		30200		
01-17-18	1,2,3,4,5	F-007		1500		
01-17-18	1,2,3,4,5	F-008		1500		
01-17-18	1,2,3,4,5	F-009		500		
01-18-18	1,2,3,4,5	F-001		19700		
01-18-18	1,2,3,4,5	F-002		30200		
01-18-18	1,2,3,4,5	F-007		1500		
01-18-18	1,2,3,4,5	F-008		1500		
01-18-18	1,2,3,4,5	F-009		500		
01-22-18	1,2,3,4,5	F-001		24700		
01-22-18	1,2,3,4,5	F-002		30200		
01-22-18	1,2,3,4,5	F-007		1500		
01-22-18	1,2,3,4,5	F-008		1500		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01-22-18	1,2,3,4,5	F-009		8800	8300	W
01-23-18	1,2,3,4,5	F-001		28500		
01-23-18	1,2,3,4,5	F-002		30200	12000	W
01-23-18	1,2,3,4,5	F-007		1500		
01-23-18	1,2,3,4,5	F-008		1500		
01-23-18	1,2,3,4,5	F-009		9100		
01-24-18	1,2,3,4,5	F-001		28500		
01-24-18	1,2,3,4,5	F-002		24300	16700	W
01-24-18	1,2,3,4,5	F-007		1500		
01-24-18	1,2,3,4,5	F-008		1500		
01-24-18	1,2,3,4,5	F-009		12300		
01-25-18	1,2,3,4,5	F-001		30600		
01-25-18	1,2,3,4,5	F-002		12300	2200	W
01-25-18	1,2,3,4,5	F-007		1500		
01-25-18	1,2,3,4,5	F-008		1500		
01-25-18	1,2,3,4,5	F-009		12300	11800	W
01-29-18	1,2,3,4,5	F-001		30600		
01-29-18	1,2,3,4,5	F-002		24400	16200	W
01-29-18	1,2,3,4,5	F-007		1500		
01-29-18	1,2,3,4,5	F-008		1500		
01-29-18	1,2,3,4,5	F-009		1100		
01-30-18	1,2,3,4,5	F-001		30600		
01-30-18	1,2,3,4,5	F-002		11200	10700	W
01-30-18	1,2,3,4,5	F-007		1500		
01-30-18	1,2,3,4,5	F-008		1500		
01-30-18	1,2,3,4,5	F-009		4000	1500	W
01-31-18	1,2,3,4,5	F-001		30600	3000	W

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02-01-18	1,2,3,4,5	F-001		27600	4400	W
02-01-18	1,2,3,4,5	F-002		4100	1900	W
02-01-18	1,2,3,4,5	F-007		1500		
02-01-18	1,2,3,4,5	F-008		1500		
02-01-18	1,2,3,4,5	F-009		3000		
02-05-18	1,2,3,4,5	F-001		23200		
02-05-18	1,2,3,4,5	F-002		13100	1500	W
02-05-18	1,2,3,4,5	F-007		1500		
02-05-18	1,2,3,4,5	F-008		1500		
02-05-18	1,2,3,4,5	F-009		5400		
02-06-18	1,2,3,4,5	F-001		23200		
02-06-18	1,2,3,4,5	F-002		11600	6000	W
02-06-18	1,2,3,4,5	F-007		1500		
02-06-18	1,2,3,4,5	F-008		1500		
02-06-18	1,2,3,4,5	F-009		8400		
02-07-18	1,2,3,4,5	F-001		23200		
02-07-18	1,2,3,4,5	F-002		7100	6000	W
02-07-18	1,2,3,4,5	F-007		1500		
02-07-18	1,2,3,4,5	F-008		1500		
02-07-18	1,2,3,4,5	F-009		9000		
02-08-18	1,2,3,4,5	F-001		23200		
02-08-18	1,2,3,4,5	F-002		3400		
02-08-18	1,2,3,4,5	F-007		1500		
02-08-18	1,2,3,4,5	F-008		1500		
02-08-18	1,2,3,4,5	F-009		10800	7700	W
02-12-18	1,2,3,4,5	F-001		23200		
02-12-18	1,2,3,4,5	F-002		19200	13700	W

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02-12-18	1,2,3,4,5	F-007		1500		
02-12-18	1,2,3,4,5	F-008		1500		
02-12-18	1,2,3,4,5	F-009		3100	1500	W
02-13-18	1,2,3,4,5	F-001		23200		
02-13-18	1,2,3,4,5	F-002		7500	7000	W
02-13-18	1,2,3,4,5	F-007		1500		
02-13-18	1,2,3,4,5	F-008		1500		
02-13-18	1,2,3,4,5	F-009		3000		
02-14-18	1,2,3,4,5	F-001		23200	9700	W
02-14-18	1,2,3,4,5	F-002		2800	2300	W
02-14-18	1,2,3,4,5	F-007		1500		
02-14-18	1,2,3,4,5	F-008		1500		
02-14-18	1,2,3,4,5	F-009		4600		
02-15-18	1,2,3,4,5	F-001		18800	13300	W
02-15-18	1,2,3,4,5	F-002		500		
02-15-18	1,2,3,4,5	F-007		1500		
02-15-18	1,2,3,4,5	F-008		1500		
02-15-18	1,2,3,4,5	F-009		5600	5100	W
02-19-18	1,2,3,4,5	F-001		15300		
02-19-18	1,2,3,4,5	F-002		15300	7500	W
02-19-18	1,2,3,4,5	F-007		1500		
02-19-18	1,2,3,4,5	F-008		1500		
02-19-18	1,2,3,4,5	F-009		500		
02-20-18	1,2,3,4,5	F-001		17900	5700	W
02-20-18	1,2,3,4,5	F-002		7800	7300	W
02-20-18	1,2,3,4,5	F-007		1500		
02-20-18	1,2,3,4,5	F-008		1500		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02-20-18	1,2,3,4,5	F-009		6200		
02-21-18	1,2,3,4,5	F-001		20700		
02-21-18	1,2,3,4,5	F-002		500		
02-21-18	1,2,3,4,5	F-007		1500		
02-21-18	1,2,3,4,5	F-008		1500		
02-21-18	1,2,3,4,5	F-009		8200		
02-22-18	1,2,3,4,5	F-001		30000	13500	W
02-22-18	1,2,3,4,5	F-002		4500		
02-22-18	1,2,3,4,5	F-007		1500		
02-22-18	1,2,3,4,5	F-008		1500		
02-22-18	1,2,3,4,5	F-009		8200		
02-26-18	1,2,3,4,5	F-001		25000	13500	W
02-26-18	1,2,3,4,5	F-002		30400		
02-26-18	1,2,3,4,5	F-007		1500		
02-26-18	1,2,3,4,5	F-008		1500		
02-26-18	1,2,3,4,5	F-009		16000		
02-27-18	1,2,3,4,5	F-001		12500	12000	W
02-27-18	1,2,3,4,5	F-002		30400	7000	W
02-27-18	1,2,3,4,5	F-007		1500		
02-27-18	1,2,3,4,5	F-008		5800		
02-27-18	1,2,3,4,5	F-009		16000		
02-28-18	1,2,3,4,5	F-001		500		
02-28-18	1,2,3,4,5	F-002		23400	22900	W
02-28-18	1,2,3,4,5	F-007		4500		
02-28-18	1,2,3,4,5	F-008		10200		
02-28-18	1,2,3,4,5	F-009		16000	1000	W
			<i>Jimmy Smith</i>	<i>2-28-18</i>		

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL -- LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03-01-18	1,2,3,4,5	F-001		500		
03-01-18	1,2,3,4,5	F-002		500		
03-01-18	1,2,3,4,5	F-007		12800		
03-01-18	1,2,3,4,5	F-008		12800		
03-01-18	1,2,3,4,5	F-009		15000	12300	W
03-05-18	1,2,3,4,5	F-001		11900		
03-05-18	1,2,3,4,5	F-002		29500	10200	W
03-05-18	1,2,3,4,5	F-007		12800		
03-05-18	1,2,3,4,5	F-008		12800		
03-05-18	1,2,3,4,5	F-009		2700	2200	W
03-06-18	1,2,3,4,5	F-001		19100		
03-06-18	1,2,3,4,5	F-002		19300	15600	W
03-06-18	1,2,3,4,5	F-007		12800		
03-06-18	1,2,3,4,5	F-008		12800		
03-06-18	1,2,3,4,5	F-009		500		
03-07-18	1,2,3,4,5	F-001		25500	11800	W
03-07-18	1,2,3,4,5	F-002		3700	3200	W
03-07-18	1,2,3,4,5	F-007		12800		
03-07-18	1,2,3,4,5	F-008		12800		
03-07-18	1,2,3,4,5	F-009		500		
03-08-18	1,2,3,4,5	F-001		13700	12000	W
03-08-18	1,2,3,4,5	F-002		7000		
03-08-18	1,2,3,4,5	F-007		12800		
03-08-18	1,2,3,4,5	F-008		12800		
03-08-18	1,2,3,4,5	F-009		500		
03-12-18	1,2,3,4,5	F-001		1700		
03-12-18	1,2,3,4,5	F-002		29300	15100	W

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03-12-18	1,2,3,4,5	F-007		12800		
03-12-18	1,2,3,4,5	F-008		12800		
03-12-18	1,2,3,4,5	F-009		500		
03-13-18	1,2,3,4,5	F-001		13100	1400	W
03-13-18	1,2,3,4,5	F-002		14200	13700	W
03-13-18	1,2,3,4,5	F-007		12800		
03-13-18	1,2,3,4,5	F-008		12800		
03-13-18	1,2,3,4,5	F-009		500		
03-14-18	1,2,3,4,5	F-001		16500	15300	W
03-14-18	1,2,3,4,5	F-002		500		
03-14-18	1,2,3,4,5	F-007		12800		
03-14-18	1,2,3,4,5	F-008		12800		
03-14-18	1,2,3,4,5	F-009		500		
03-15-18	1,2,3,4,5	F-001		1200		
03-15-18	1,2,3,4,5	F-002		7400		
03-15-18	1,2,3,4,5	F-007		12800	12800	W
03-15-18	1,2,3,4,5	F-008		12800		
03-15-18	1,2,3,4,5	F-009		500		
03-19-18	1,2,3,4,5	F-001		1200		
03-19-18	1,2,3,4,5	F-002		25700		
03-19-18	1,2,3,4,5	F-007		0		
03-19-18	1,2,3,4,5	F-008		12800	3000	W
03-19-18	1,2,3,4,5	F-009		500		
03-20-18	1,2,3,4,5	F-001		1200		
03-20-18	1,2,3,4,5	F-002		29800	5600	W
03-20-18	1,2,3,4,5	F-007		0		
03-20-18	1,2,3,4,5	F-008		9800	9800	W

CP3-WM-0018-F01 - PGDP SOLID WASTE LANDFILL – LEACHATE LOG

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2018

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03-20-18	1,2,3,4,5	F-009		500		
03-21-18	1,2,3,4,5	F-001		4900		
03-21-18	1,2,3,4,5	F-002		24200	13600	W
03-21-18	1,2,3,4,5	F-007		0		
03-21-18	1,2,3,4,5	F-008		0		
03-21-18	1,2,3,4,5	F-009		500		
03-22-18	1,2,3,4,5	F-001		9100		
03-22-18	1,2,3,4,5	F-002		10600	8900	W
03-22-18	1,2,3,4,5	F-007		0		
03-22-18	1,2,3,4,5	F-008		0		
03-22-18	1,2,3,4,5	F-009		500		
03-26-18	1,2,3,4,5	F-001		21400	15400	W
03-26-18	1,2,3,4,5	F-002		1700		
03-26-18	1,2,3,4,5	F-007		0		
03-26-18	1,2,3,4,5	F-008		0		
03-26-18	1,2,3,4,5	F-009		500		
03-27-18	1,2,3,4,5	F-001		6000	5500	W
03-27-18	1,2,3,4,5	F-002		5500	3600	W
03-27-18	1,2,3,4,5	F-007		0		
03-27-18	1,2,3,4,5	F-008		0		
03-27-18	1,2,3,4,5	F-009		500		
03-28-18	1,2,3,4,5	F-001		500		
03-28-18	1,2,3,4,5	F-002		9100	7700	W
03-28-18	1,2,3,4,5	F-007		0		
03-28-18	1,2,3,4,5	F-008		0		
03-28-18	1,2,3,4,5	F-009		500		
			<i>Johnny Smith</i>	<i>3-28-18</i>		

LEACHATE DATA

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Paducah OREIS Report for USL18-01

USL18-01-02

from: C-746-S

on 12/20/2017

Media: WW

SmpMethod: GR

Comments: C-746-S Landfill Leachate

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.2	mg/L	U		0.2			SW846-9056	GEL	/X/
Chloride	9.13	mg/L	W		0.2			SW846-9056	GEL	/X/
Fluoride	0.67	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	1	mg/L	U		1			SW846-9056	GEL	/X/
Sulfate	96.4	mg/L			4			SW846-9056	GEL	/X/
FS										
Conductivity	1078	umho/cm						FS	FS	//
Dissolved Oxygen	6.43	mg/L						FS	FS	//
pH	6.94	Std Unit						FS	FS	//
Redox	419	mV						FS	FS	//
Temperature	55	deg F						FS	FS	//
Turbidity	4.4	NTU						FS	FS	//
METAL										
Aluminum	0.05	mg/L	U		0.05			SW846-6020	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Barium	0.182	mg/L			0.002			SW846-6020	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020	GEL	/X/
Boron	0.0166	mg/L			0.015			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	202	mg/L			2			SW846-6020	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Copper	0.000532	mg/L	J		0.001			SW846-6020	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Magnesium	23.3	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	0.00487	mg/L	J		0.005			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00102	mg/L			0.0005			SW846-6020	GEL	/X/
Nickel	0.00098	mg/L	J		0.002			SW846-6020	GEL	/X/
Phosphorous	0.221	mg/L			0.05			EPA-365.4	GEL	/X/
Potassium	1.12	mg/L			0.3			SW846-6020	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Sodium	36.9	mg/L			0.25			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Total Uranium	15.5	pCi/L			2.22	3.69	3.96	HASL 300, U-02-RC M	GEL	/X/
Uranium	0.0214	mg/L			0.0002			SW846-6020	GEL	/X/
Vanadium	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
Zinc	0.01	mg/L	U		0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Barium, Dissolved	0.169	mg/L			0.002			SW846-6020	GEL	/X/

Paducah OREIS Report for USL18-01

Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Copper, Dissolved	0.00116	mg/L		0.001			SW846-6020	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/X/
Manganese, Dissolved	0.00215	mg/L	J	0.005			SW846-6020	GEL	/X/
Nickel, Dissolved	0.000881	mg/L	J	0.002			SW846-6020	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Uranium, Dissolved	0.0201	mg/L		0.0002			SW846-6020	GEL	/X/
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Zinc, Dissolved	0.00357	mg/L	J	0.01			SW846-6020	GEL	/X/

OTHOR

Oil and Grease	1.76	mg/L	BJ	4.2			EPA-1664A	GEL	/X/
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PCCB

PCB-1016	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1221	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1232	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1242	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1248	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1254	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1260	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
PCB-1268	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/
Polychlorinated biphenyl	0.0472	ug/L	U	0.0472			SW846-8082	GEL	/X/

RADS

Alpha activity	11.5	pCi/L	U	14.5	9.57	9.76	SW846-9310	GEL	/X/
Americium-241	0.0158	pCi/L	U	1.6	0.727	0.727	HASL 300, AM-05-RC M	GEL	/X/
Beta activity	13	pCi/L		10.7	7.16	7.5	SW846-9310	GEL	/X/
Cesium-137	-0.117	pCi/L	U	1.46	0.838	0.84	EPA-901.1	GEL	/X/
Cobalt-60	0.103	pCi/L	U	1.45	0.779	0.781	EPA-901.1	GEL	/X/
Dissolved Alpha	14.7	pCi/L		14.3	10.2	10.5	SW846-9310	GEL	/X/
Dissolved Beta	5.94	pCi/L	U	8.34	5.25	5.35	SW846-9310	GEL	/X/
Neptunium-237	-0.729	pCi/L	U	2.12	0.674	0.674	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240	-0.389	pCi/L	U	1.74	0.603	0.603	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	1.07	pCi/L		0.457	0.59	0.593	AN-1418	GEL	/X/
Strontium-90	0.549	pCi/L	U	3.25	1.75	1.75	EPA-905.0-M	GEL	/X/
Technetium-99	-1.6	pCi/L	U	16.9	9.75	9.75	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.356	pCi/L	U	1.46	0.845	0.854	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	0	pCi/L	UX	91.4	143	146	EPA-901.1	GEL	/X/
Tritium	146	pCi/L	U	267	159	161	EPA-906.0-M	GEL	/X/
Uranium-234	7.01	pCi/L		1.36	2.43	2.63	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.47	pCi/L		1.22	1.33	1.35	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	7.06	pCi/L		1.26	2.43	2.63	HASL 300, U-02-RC M	GEL	/X/

RADS-D

Americium-241	0.148	pCi/L	U	1.54	0.801	0.803	HASL 300, AM-05-RC M	GEL	/X/
Cesium-137	0.76	pCi/L	U	5.55	2.69	2.72	EPA-901.1	GEL	/X/
Cobalt-60	-1.4	pCi/L	U	5.77	3.26	3.32	EPA-901.1	GEL	/X/
Neptunium-237	0.228	pCi/L	U	1.7	0.879	0.879	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240, Dissolved	0.0591	pCi/L	U	1.43	0.674	0.675	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99	3.84	pCi/L	U	21.5	12.6	12.6	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.0829	pCi/L	U	1.64	0.789	0.791	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	94.3	pCi/L	U	360	308	312	EPA-901.1	GEL	/X/
Uranium	7.4	pCi/L		1.21	2.28	2.49	HASL 300, U-02-RC M	GEL	/X/

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Uranium	18.1	pCi/L		2.23	3.63	3.99	HASL 300, U-02-RC M	GEL	/X/
Uranium-234	9.57	pCi/L		1.34	2.59	2.9	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.13	pCi/L	U	1.31	1.13	1.14	HASL 300, U-02-RC M	GEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0197	ug/L	HUX	0.0197			SW846-8011	GEL	T / X / U, J
1,2-Dibromo-3-chloropropane	0.0189	ug/L	SU	0.0189			SW846-8011	GEL	/ X / U, J
1,2-Dibromoethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/X/
2-Hexanone	5	ug/L	UY1	5			EPA-624	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/X/
Acetone	5	ug/L	U	5			EPA-624	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroform	1	ug/L	U	1			EPA-624	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Ethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Iodomethane	5	ug/L	U	5			EPA-624	GEL	/X/
m,p-Xylene	2	ug/L	U	2			EPA-624	GEL	/X/
Methylene chloride	2	ug/L	U	2			EPA-624	GEL	/X/
Styrene	1	ug/L	U	1			EPA-624	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Toluene	1	ug/L	U	1			EPA-624	GEL	/X/
Total Xylene	3	ug/L	U	3			EPA-624	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624	GEL	/X/
Trichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Vinyl acetate	5	ug/L	U	5			EPA-624	GEL	/X/
Vinyl chloride	1	ug/L	U	1			EPA-624	GEL	/X/

WETCHEM

Paducah OREIS Report for USL18-01

Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	660	mg/L	B	14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	506	mg/L		10	EPA-130.2	GEL	/ X /
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	1.18	mg/L	J	4.9	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	3.85	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	15.7	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for USL18-01

USL18-01-01

from: C-746-U

on 12/20/2017

Media: WW

SmpMethod: GR

Comments: C-746-U Landfill Leachate

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
ANION										
Bromide	0.376	mg/L			0.2			SW846-9056	GEL	/X/
Chloride	51.8	mg/L	W		2			SW846-9056	GEL	/X/
Fluoride	0.463	mg/L			0.1			SW846-9056	GEL	/X/
Nitrate as Nitrogen	3.96	mg/L			1			SW846-9056	GEL	/X/
Sulfate	200	mg/L			8			SW846-9056	GEL	/X/
FS										
Conductivity	1341	umho/cm						FS	FS	//
Dissolved Oxygen	6.54	mg/L						FS	FS	//
pH	7.9	Std Unit						FS	FS	//
Redox	384	mV						FS	FS	//
Temperature	58.7	deg F						FS	FS	//
Turbidity	602	NTU						FS	FS	//
METAL										
Aluminum	20.4	mg/L			0.05			SW846-6020	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic	0.00824	mg/L			0.005			SW846-6020	GEL	/X/
Barium	0.2	mg/L			0.002			SW846-6020	GEL	/X/
Beryllium	0.00295	mg/L			0.0005			SW846-6020	GEL	/X/
Boron	0.828	mg/L			0.15			SW846-6020	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Calcium	150	mg/L			2			SW846-6020	GEL	/X/
Chromium	0.0253	mg/L			0.01			SW846-6020	GEL	/X/
Cobalt	0.0153	mg/L			0.001			SW846-6020	GEL	/X/
Copper	0.0123	mg/L			0.001			SW846-6020	GEL	/X/
Iron	17.3	mg/L			0.1			SW846-6020	GEL	/X/
Lead	0.00846	mg/L			0.002			SW846-6020	GEL	/X/
Magnesium	38.5	mg/L			0.03			SW846-6020	GEL	/X/
Manganese	0.684	mg/L			0.005			SW846-6020	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00126	mg/L			0.0005			SW846-6020	GEL	/X/
Nickel	0.0262	mg/L			0.002			SW846-6020	GEL	/X/
Phosphorous	0.773	mg/L			0.05			EPA-365.4	GEL	/X/
Potassium	5.85	mg/L			0.3			SW846-6020	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Selenium	0.00407	mg/L	J		0.005			SW846-6020	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020	GEL	/X/
Sodium	105	mg/L			2.5			SW846-6020	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Titanium	0.159	mg/L			0.1			SW846-6020	GEL	/X/
Total Uranium	60.4	pCi/L			2.17	6.88	9.81	HASL 300, U-02-RC M	GEL	/X/
Uranium	0.133	mg/L			0.0002			SW846-6020	GEL	/X/
Vanadium	0.0396	mg/L	B		0.01			SW846-6020	GEL	/X/
Zinc	0.125	mg/L			0.01			SW846-6020	GEL	/X/
METAL-D										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020	GEL	/X/
Arsenic, Dissolved	0.005	mg/L	U		0.005			SW846-6020	GEL	/X/
Barium, Dissolved	0.115	mg/L			0.002			SW846-6020	GEL	/X/

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Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Cobalt, Dissolved	0.000798	mg/L	J	0.001			SW846-6020	GEL	/X/
Copper, Dissolved	0.00124	mg/L		0.001			SW846-6020	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020	GEL	/X/
Manganese, Dissolved	0.123	mg/L		0.005			SW846-6020	GEL	/X/
Nickel, Dissolved	0.00325	mg/L		0.002			SW846-6020	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Uranium, Dissolved	0.131	mg/L		0.0002			SW846-6020	GEL	/X/
Vanadium, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/
Zinc, Dissolved	0.01	mg/L	U	0.01			SW846-6020	GEL	/X/

OTHOR

Oil and Grease	1.83	mg/L	BJ	4.17			EPA-1664A	GEL	/X/
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PCCB

PCB-1016	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1221	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1232	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1242	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1248	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1254	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1260	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
PCB-1268	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/
Polychlorinated biphenyl	0.045	ug/L	U	0.045			SW846-8082	GEL	/X/

RADS

Alpha activity	75.1	pCi/L		13.8	19.2	22.9	SW846-9310	GEL	/X/
Americium-241	0.522	pCi/L	U	1.54	0.924	0.927	HASL 300, AM-05-RC M	GEL	/X/
Beta activity	58.2	pCi/L		9.06	10	14.2	SW846-9310	GEL	/X/
Cesium-137	-0.196	pCi/L	U	1.28	0.755	0.76	EPA-901.1	GEL	/X/
Cobalt-60	0.0909	pCi/L	U	1.48	0.821	0.822	EPA-901.1	GEL	/X/
Dissolved Alpha	39.3	pCi/L		13.9	14.5	15.9	SW846-9310	GEL	/X/
Dissolved Beta	43.9	pCi/L		7.45	8.52	11.2	SW846-9310	GEL	/X/
Neptunium-237	-0.169	pCi/L	U	1.16	0.391	0.392	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240	0.0716	pCi/L	U	1.56	0.749	0.75	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.609	pCi/L		0.471	0.44	0.442	AN-1418	GEL	/X/
Strontium-90	0.528	pCi/L	U	3.72	2.01	2.01	EPA-905.0-M	GEL	/X/
Technetium-99	31.6	pCi/L		19	12	12.5	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.447	pCi/L	U	1.51	0.881	0.891	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	0	pCi/L	UX	63.3	114	128	EPA-901.1	GEL	/X/
Tritium	-81	pCi/L	U	257	146	146	EPA-906.0-M	GEL	/X/
Uranium-234	12.2	pCi/L		1.31	3.11	3.55	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	0.256	pCi/L	U	1.62	0.875	0.876	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	48	pCi/L		0.598	6.08	9.11	HASL 300, U-02-RC M	GEL	/X/

RADS-D

Americium-241	-0.0607	pCi/L	U	1.19	0.506	0.508	HASL 300, AM-05-RC M	GEL	/X/
Cesium-137	-0.454	pCi/L	U	3.57	1.98	1.99	EPA-901.1	GEL	/X/
Cobalt-60	-1.51	pCi/L	U	4.23	2.47	2.57	EPA-901.1	GEL	/X/
Neptunium-237	0.00646	pCi/L	U	1.06	0.479	0.479	Alpha Spectroscopy	GEL	/X/
Plutonium-239/240, Dissolved	0.525	pCi/L	U	1.14	0.778	0.782	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99	29.5	pCi/L		21.5	13.4	13.8	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.331	pCi/L	U	2.24	1.17	1.18	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	-39.9	pCi/L	U	178	103	105	EPA-901.1	GEL	/X/
Uranium	57.8	pCi/L		2.15	6.24	9.12	HASL 300, U-02-RC M	GEL	/X/

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Uranium	48.7	pCi/L		1.04	5.67	8.67	HASL 300, U-02-RC M	GEL	/X/
Uranium-234	7.78	pCi/L		1.26	2.33	2.55	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	1.27	pCi/L	U	1.39	1.19	1.2	HASL 300, U-02-RC M	GEL	/X/

VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			EPA-624	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
2-Butanone	5	ug/L	U	5			EPA-624	GEL	/X/
2-Hexanone	5	ug/L	UY1	5			EPA-624	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			EPA-624	GEL	/X/
Acetone	5	ug/L	U	5			EPA-624	GEL	/X/
Acrolein	5	ug/L	U	5			EPA-624	GEL	/X/
Acrylonitrile	5	ug/L	U	5			EPA-624	GEL	/X/
Benzene	1	ug/L	U	1			EPA-624	GEL	/X/
Bromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Bromoform	1	ug/L	U	1			EPA-624	GEL	/X/
Bromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Carbon disulfide	5	ug/L	U	5			EPA-624	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			EPA-624	GEL	/X/
Chlorobenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroethane	1	ug/L	U	1			EPA-624	GEL	/X/
Chloroform	1	ug/L	U	1			EPA-624	GEL	/X/
Chloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Dibromomethane	1	ug/L	U	1			EPA-624	GEL	/X/
Ethylbenzene	1	ug/L	U	1			EPA-624	GEL	/X/
Iodomethane	5	ug/L	U	5			EPA-624	GEL	/X/
m,p-Xylene	2	ug/L	U	2			EPA-624	GEL	/X/
Methylene chloride	2	ug/L	U	2			EPA-624	GEL	/X/
Styrene	1	ug/L	U	1			EPA-624	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Toluene	1	ug/L	U	1			EPA-624	GEL	/X/
Total Xylene	3	ug/L	U	3			EPA-624	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			EPA-624	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U	5			EPA-624	GEL	/X/
Trichloroethene	1	ug/L	U	1			EPA-624	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			EPA-624	GEL	/X/
Vinyl acetate	5	ug/L	U	5			EPA-624	GEL	/X/
Vinyl chloride	1	ug/L	U	1			EPA-624	GEL	/X/

WETCHEM

Paducah OREIS Report for USL18-01

Carbonaceous Biochemical Oxygen Demand (CBOD)	6	mg/L	UX	6	SM-5210 B	GEL	/ X /
Chemical Oxygen Demand (COD)	26.3	mg/L		20	EPA-410.4	GEL	/ X /
Cyanide	0.005	mg/L	U	0.005	SW846-9012B	GEL	/ X /
Dissolved Solids	884	mg/L	B	14.3	EPA-160.1	GEL	/ X /
Hardness - Total as CaCO3	425	mg/L		10	EPA-130.2	GEL	/ X /
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/ X /
Suspended Solids	391	mg/L		25	EPA-160.2	GEL	/ X /
Total Organic Carbon (TOC)	7.18	mg/L		2	SW846-9060A	GEL	/ X /
Total Organic Halides (TOX)	74	ug/L		10	SW846-9020B	GEL	/ X /

Paducah OREIS Report for USL18-01

USL18-01-BT

from: QC

on 12/20/2017

Media: WQ

SmpMethod:

Comments:

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU	Method	LabCode	V/V/A*
VOA										
1,1,1,2-Tetrachloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,1-Dichloroethene	1	ug/L	U		1			EPA-624	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			EPA-624	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U		0.0191			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			EPA-624	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			EPA-624	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			EPA-624	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			EPA-624	GEL	/X/
2-Butanone	5	ug/L	U		5			EPA-624	GEL	/X/
2-Hexanone	5	ug/L	UY1		5			EPA-624	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			EPA-624	GEL	/X/
Acetone	5	ug/L	U		5			EPA-624	GEL	/X/
Acrolein	5	ug/L	U		5			EPA-624	GEL	/X/
Acrylonitrile	5	ug/L	U		5			EPA-624	GEL	/X/
Benzene	1	ug/L	U		1			EPA-624	GEL	/X/
Bromochloromethane	1	ug/L	U		1			EPA-624	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			EPA-624	GEL	/X/
Bromoform	1	ug/L	U		1			EPA-624	GEL	/X/
Bromomethane	1	ug/L	U		1			EPA-624	GEL	/X/
Carbon disulfide	5	ug/L	U		5			EPA-624	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			EPA-624	GEL	/X/
Chlorobenzene	1	ug/L	U		1			EPA-624	GEL	/X/
Chloroethane	1	ug/L	U		1			EPA-624	GEL	/X/
Chloroform	1	ug/L	U		1			EPA-624	GEL	/X/
Chloromethane	1	ug/L	U		1			EPA-624	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			EPA-624	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			EPA-624	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			EPA-624	GEL	/X/
Dibromomethane	1	ug/L	U		1			EPA-624	GEL	/X/
Ethylbenzene	1	ug/L	U		1			EPA-624	GEL	/X/
Iodomethane	5	ug/L	U		5			EPA-624	GEL	/X/
m,p-Xylene	2	ug/L	U		2			EPA-624	GEL	/X/
Methylene chloride	2	ug/L	U		2			EPA-624	GEL	/X/
Styrene	1	ug/L	U		1			EPA-624	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			EPA-624	GEL	/X/
Toluene	1	ug/L	U		1			EPA-624	GEL	/X/
Total Xylene	3	ug/L	U		3			EPA-624	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			EPA-624	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			EPA-624	GEL	/X/
Trans-1,4-Dichloro-2-butene	5	ug/L	U		5			EPA-624	GEL	/X/
Trichloroethene	1	ug/L	U		1			EPA-624	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			EPA-624	GEL	/X/
Vinyl acetate	5	ug/L	U		5			EPA-624	GEL	/X/
Vinyl chloride	1	ug/L	U		1			EPA-624	GEL	/X/

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Department for Environmental Protection/Division of Waste Management/Solid Waste Branch
 Quarterly Waste Quantity Report-DEP 7046Q (Revised 2-05)

Page 1 of 1

WASTE ACTIVITY: CONTAINED LANDFILL

U.S. Department of Energy-

Facility Name: Paducah Gaseous Diffusion Plant Permit Number: SW07300045

County where landfill is located: McCracken Agency Interest Number: 3059

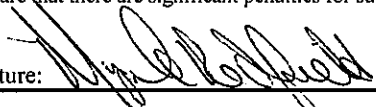
Report for the Months of: January, February, March For the Year of: 2018

Waste Source (County and State)	Type of Waste			**Waste Used as Alternate Daily Cover as Approved (Tons Only)
	*Municipal Solid Waste (Tons Only)	*Industrial Waste (Tons Only)	*Special Waste (Tons Only)	
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (January)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (February)	0.00	0.00	0.00	0.00
Paducah Gaseous Diffusion Plant, McCracken County, Kentucky (March)	0.00	0.00	0.00	0.00
Total for this page	0.00	0.00	0.00	0.00
Grand Total of all pages	0.00	0.00	0.00	0.00

Grand Total of Municipal, Industrial, and Special from all pages 0.00

*Does not include waste used as Alternate Daily Cover.
 **Indicate the amount used as Alternate Daily Cover. Please note this requires prior approval by the Cabinet.


I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.

Signature: 

Phone Number: (270) 441-5113

Name—Please Print: Myrna E. Redfield

Date: 2/12/18

Signature: 

Phone Number: (270) 441-6800

Name—Please Print: Jennifer Woodard

Date: 4/12/18

This Certification clause shall be signed by the responsible person(s) described in 401 KAR 47:160, Section 6(1), and/or (2) and is required by 401 KAR 47:160, Section 6(4).

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