



## Department of Energy

Portsmouth/Paducah Project Office  
1017 Majestic Drive, Suite 200  
Lexington, Kentucky 40513  
(859) 219-4000

April 15, 2024

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

PPPO-02-10027451-24B

Dear Ms. Nielsen:

**C-746-S&T AND C-746-U SOLID WASTE LANDFILLS FIRST QUARTER CALENDAR YEAR 2024 WASTE OPERATING REPORT, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0332/V1, SOLID WASTE PERMIT NO. SW07300014, SW07300015, SW07300045, AGENCY INTEREST NO. 3059**

The U.S. Department of Energy has prepared the first quarter operating report for calendar year 2024 for the C-746-S&T Landfills and the C-746-U Landfill at the Paducah Gaseous Diffusion Plant. Kentucky Solid Waste Regulation 401 KAR 47:190 § 8(1) and Solid Waste Permit No. SW07300014, SW07300015, SW07300045, Permit Condition ACTV0006, Special Condition 10, require submittal of quarterly reports from operators of solid waste landfills.

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

If you have any questions, please contact Ryan Callihan at (740) 970-0255.

Sincerely,

APRIL LADD

Digitally signed by APRIL  
LADD  
Date: 2024.04.15 10:16:38  
-05'00'

April Ladd  
Paducah Site Lead  
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. *C-746-S&T and C-746-U Solid Waste Landfills First Quarter Calendar Year 2024 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FRNP-RPT-0332/V1*

cc w/ enclosures:

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**CERTIFICATION**

**Document Identification:** *C-746-S&T and C-746-U Solid Waste Landfills First Quarter Calendar Year 2024 Waste Operating Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, FRNP-RPT-0332/V1, Solid Waste Permit SW07300014, SW07300015, SW07300045, Agency Interest No. 3059, April 2024*

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.

Four Rivers Nuclear Partnership, LLC  
Permittee (Operator)

**MYRNA REDFIELD (Affiliate)**  Digitally signed by MYRNA REDFIELD (Affiliate)  
Date: 2024.04.15 07:47:31 -05'00'


Myrna E. Redfield, Program Manager  
Four Rivers Nuclear Partnership, LLC

Date Signed

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.

U.S. Department of Energy

**APRIL LADD**

 Digitally signed by APRIL LADD  
Date: 2024.04.15 08:03:22 -05'00'

April Ladd, Paducah Site Lead  
Portsmouth/Paducah Project Office  
U.S. Department of Energy

Date Signed

FRNP-RPT-0332/V1

**C-746-S&T and C-746-U Solid Waste Landfills  
First Quarter Calendar Year 2024  
Waste Operating Report  
Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**



**CLEARED FOR PUBLIC RELEASE**





**C-746-S&T and C-746-U Solid Waste Landfills  
First Quarter Calendar Year 2024  
Waste Operating Report  
Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**

Date Issued—April 2024

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

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## REPORT SUMMARY

The information contained herein is submitted in accordance with the requirements of Solid Waste Permit Number SW07300014, SW07300015, SW07300045, and 401 KAR 47:190 § 8, *Landfill Recordkeeping and Reporting*, for the first quarter of calendar year 2024 for the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky.

In the first quarter of calendar year 2024, a total of 402.74 tons of industrial waste was disposed of in the C-746-U Contained Landfill. There were zero (0) tons of asbestos-containing materials disposed of as part of the 402.74 total tons of waste dispositioned. No special waste or spill-residue-containing materials were disposed of in the landfill this quarter. As directed by the Cabinet, the Waste Quantity Report, DEP-7046-Q, is submitted as a separate report.

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

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.

### Leachate Collection and Disposition

Leachate is primarily stored in five holding tanks (F-001, F-002, F-007, F-008, and F-009) with a total capacity of 104,200 gal. In the event that leachate cannot be managed solely with the primary tanks, 64,000 gal of additional storage capacity is available in reserve tanks F-010, F-011, F-012, and F-013. Tank F-004 is a 2,500-gal surge tank for the leachate treatment system. Storage tanks F-005 and F-006 were removed from service in 2014. The total leachate storage capacity is 170,700 gal.

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. A total of 247,500 gal of leachate from the C-746-U Contained Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. A total of zero (0) gal of leachate from the C-746-S Landfill was treated at the C-746-U15 Leachate Treatment Facility this quarter. There was no leachate transported to the other treatment facilities.

Annual leachate samples were taken on February 5, 2024, from the C-746-S Residential Landfill and the C-746-U Contained Landfill, respectively. The leachate was sampled and tested in accordance with the conditions described in the Solid Waste Permit issued May 21, 2021.

### Construction Activities and Cover Maintenance

There were no construction or cover maintenance activities associated with the C-746-S&T Landfills [401 KAR 47:190 § 8, *Landfill Recordkeeping and Reporting*]. The C-746-S&T Landfills were inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9, *Alternative Specifications*]. No repairs were necessary during the quarter.

There were no construction or cover maintenance activities at the C-746-U Contained Landfill [401 KAR 47:190 § 8, *Landfill Recordkeeping and Reporting*]. The landfill was inspected for subsidence in accordance with the cover requirements [401 KAR 48:080 § 9, *Alternative Specifications*]. No repairs were necessary during the quarter.

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## FACILITY INFORMATION SHEET

Sampling Date: February 5, 2024

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' 5"

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### OWNER INFORMATION

Facility Owner: U.S. DOE, Joel Bradburne, Manager Phone No.: (859) 219-4000

Contact Person: Todd L. Walker Phone No.: (270) 559-0937  
Landfill Manager,

Contact Person Title: Four Rivers Nuclear Partnership, LLC

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

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### SAMPLING PERSONNEL (if other than landfill or laboratory)

Company: GEO Consultants, LLC

Contact Person: Rene Tucker Phone No.: (270) 816-6041

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

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### 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

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### LABORATORY RECORD #2

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

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

Mailing Address: N/A  
Street City/State Zip

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## **COVER LOG**

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## CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY  
 COUNTY: McCracken

PERMIT NUMBER: 073-00045  
 Month & Year: January 2024

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		There were no waste disposal activities during the month of January 2024				
8						
9						
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11						
12						
13						
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16						
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18						
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20						
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28						
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31						

## CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: 073-00045

COUNTY: McCracken

Month & Year: Feb. 2024

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	D4	YES	YES	NO	NO	YES
7	E4	YES	YES	NO	NO	YES
8	E4	YES	YES	NO	NO	YES
9						
10						
11						
12						
13						
14	E4	YES	YES	NO	NO	YES
15						
16						
17						
18						
19						
20	E4	YES	YES	NO	NO	YES
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

## CP3-WM-0017-F02 - COVER LOG

DEPARTMENT OF ENERGY

PERMIT NUMBER: **073-00045**

COUNTY: McCracken

Month & Year: March 2024

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						
13						
14						
15						
16						
17						
18						
19	E4	YES	YES	NO	NO	YES
20						
21						
22						
23						
24						
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28						
29						
30						
31						

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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 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01/02/24	1,2,3,4,5,6,7	F-001		4800		
01/02/24	1,2,3,4,5,6,7	F-002		20400		
01/02/24	1,2,3,4,5,6,7	F-007		4000		
01/02/24	1,2,3,4,5,6,7	F-008		1400		
01/02/24	1,2,3,4,5,6,7	F-009		700		
01/03/24	1,2,3,4,5,6,7	F-001		4800		
01/03/24	1,2,3,4,5,6,7	F-002		21000		
01/03/24	1,2,3,4,5,6,7	F-007		4000		
01/03/24	1,2,3,4,5,6,7	F-008		1400		
01/03/24	1,2,3,4,5,6,7	F-009		700		
01/04/24	1,2,3,4,5,6,7	F-001		4800		
01/04/24	1,2,3,4,5,6,7	F-002		21500		
01/04/24	1,2,3,4,5,6,7	F-007		4000		
01/04/24	1,2,3,4,5,6,7	F-008		1400		
01/04/24	1,2,3,4,5,6,7	F-009		700		
01/08/24	1,2,3,4,5,6,7	F-001		4800		
01/08/24	1,2,3,4,5,6,7	F-002		25900		
01/08/24	1,2,3,4,5,6,7	F-007		4000		
01/08/24	1,2,3,4,5,6,7	F-008		1400		
01/08/24	1,2,3,4,5,6,7	F-009		700		
01/09/24	1,2,3,4,5,6,7	F-001		10000		
01/09/24	1,2,3,4,5,6,7	F-002		25900	9700	L
01/09/24	1,2,3,4,5,6,7	F-007		4000		
01/09/24	1,2,3,4,5,6,7	F-008		1400		
01/09/24	1,2,3,4,5,6,7	F-009		700		
01/10/24	1,2,3,4,5,6,7	F-001		17900		
01/10/24	1,2,3,4,5,6,7	F-002		16200	15600	L

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

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01/10/24	1,2,3,4,5,6,7	F-007		4000		
01/10/24	1,2,3,4,5,6,7	F-008		1400		
01/10/24	1,2,3,4,5,6,7	F-009		700		
01/11/24	1,2,3,4,5,6,7	F-001		22600	13500	L
01/11/24	1,2,3,4,5,6,7	F-002		600		
01/11/24	1,2,3,4,5,6,7	F-007		4000		
01/11/24	1,2,3,4,5,6,7	F-008		1400		
01/11/24	1,2,3,4,5,6,7	F-009		700		
01/16/24	1,2,3,4,5,6,7	F-001		24400		
01/16/24	1,2,3,4,5,6,7	F-002		27900		
01/16/24	1,2,3,4,5,6,7	F-007		4000		
01/16/24	1,2,3,4,5,6,7	F-008		1400		
01/16/24	1,2,3,4,5,6,7	F-009		700		
01/17/24	1,2,3,4,5,6,7	F-001		24400	9900	L
01/17/24	1,2,3,4,5,6,7	F-002		27900		
01/17/24	1,2,3,4,5,6,7	F-007		4000		
01/17/24	1,2,3,4,5,6,7	F-008		4000		
01/17/24	1,2,3,4,5,6,7	F-009		700		
01/18/24	1,2,3,4,5,6,7	F-001		14500	13500	L
01/18/24	1,2,3,4,5,6,7	F-002		27900		
01/18/24	1,2,3,4,5,6,7	F-007		4000		
01/18/24	1,2,3,4,5,6,7	F-008		6400		
01/18/24	1,2,3,4,5,6,7	F-009		700		
01/22/24	1,2,3,4,5,6,7	F-001		8100		
01/22/24	1,2,3,4,5,6,7	F-002		27900	13400	L
01/22/24	1,2,3,4,5,6,7	F-007		4000		
01/22/24	1,2,3,4,5,6,7	F-008		7100		



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

Permit No. 073-00045

McCracken County, Kentucky

Month January Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01/22/24	1,2,3,4,5,6,7	F-009		700		
01/23/24	1,2,3,4,5,6,7	F-001		8600		
01/23/24	1,2,3,4,5,6,7	F-002		14500	11000	L
01/23/24	1,2,3,4,5,6,7	F-007		4000		
01/23/24	1,2,3,4,5,6,7	F-008		7100		
01/23/24	1,2,3,4,5,6,7	F-009		700		
01/24/24	1,2,3,4,5,6,7	F-001		15,900	14200	L
01/24/24	1,2,3,4,5,6,7	F-002		3500		
01/24/24	1,2,3,4,5,6,7	F-007		4000		
01/24/24	1,2,3,4,5,6,7	F-008		7100		
01/24/24	1,2,3,4,5,6,7	F-009		700		
01/25/24	1,2,3,4,5,6,7	F-001		1700		
01/25/24	1,2,3,4,5,6,7	F-002		15300	14700	L
01/25/24	1,2,3,4,5,6,7	F-007		4000		
01/25/24	1,2,3,4,5,6,7	F-008		7100		
01/25/24	1,2,3,4,5,6,7	F-009		700		
01/29/24	1,2,3,4,5,6,7	F-001		28300	17000	L
01/29/24	1,2,3,4,5,6,7	F-002		600		
01/29/24	1,2,3,4,5,6,7	F-007		4000		
01/29/24	1,2,3,4,5,6,7	F-008		7100		
01/29/24	1,2,3,4,5,6,7	F-009		700		
01/30/24	1,2,3,4,5,6,7	F-001		14800		
01/30/24	1,2,3,4,5,6,7	F-002		23400	13700	L
01/30/24	1,2,3,4,5,6,7	F-007		4000		
01/30/24	1,2,3,4,5,6,7	F-008		7100		
01/30/24	1,2,3,4,5,6,7	F-009		700		
01/31/24	1,2,3,4,5,6,7	F-001		20200	15900	L

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

Permit No. 073-00045

McCracken County, Kentucky

Month January

Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
01/31/24	1,2,3,4,5,6,7	F-002		9700		
01/31/24	1,2,3,4,5,6,7	F-007		4000		
01/31/24	1,2,3,4,5,6,7	F-008		7100		
01/31/24	1,2,3,4,5,6,7	F-009		700		
<div style="position: relative; height: 600px;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>TW 2/1/24</p> </div> </div>						

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

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02/01/24	1,2,3,4,5,6,7	F-001		4300		
02/01/24	1,2,3,4,5,6,7	F-002		15000	14400	L
02/01/24	1,2,3,4,5,6,7	F-007		4000		
02/01/24	1,2,3,4,5,6,7	F-008		7100		
02/01/24	1,2,3,4,5,6,7	F-009		700		
02/05/24	1,2,3,4,5,6,7	F-001		18200	1700	L
02/05/24	1,2,3,4,5,6,7	F-002		600		
02/05/24	1,2,3,4,5,6,7	F-007		4000		
02/05/24	1,2,3,4,5,6,7	F-008		7100		
02/05/24	1,2,3,4,5,6,7	F-009		700		
02/06/24	1,2,3,4,5,6,7	F-001		16500	12800	L
02/06/24	1,2,3,4,5,6,7	F-002		3900		
02/06/24	1,2,3,4,5,6,7	F-007		4000		
02/06/24	1,2,3,4,5,6,7	F-008		7100		
02/06/24	1,2,3,4,5,6,7	F-009		700		
02/07/24	1,2,3,4,5,6,7	F-001		3700	1800	L
02/07/24	1,2,3,4,5,6,7	F-002		6500		
02/07/24	1,2,3,4,5,6,7	F-007		4000		
02/07/24	1,2,3,4,5,6,7	F-008		7100		
02/07/24	1,2,3,4,5,6,7	F-009		700		
02/08/24	1,2,3,4,5,6,7	F-001		1900		
02/08/24	1,2,3,4,5,6,7	F-002		9400		
02/08/24	1,2,3,4,5,6,7	F-007		4000		
02/08/24	1,2,3,4,5,6,7	F-008		7100		
02/08/24	1,2,3,4,5,6,7	F-009		700		
02/12/24	1,2,3,4,5,6,7	F-001		1900		
02/12/24	1,2,3,4,5,6,7	F-002		18200		



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

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02/12/24	1,2,3,4,5,6,7	F-007		4000		
02/12/24	1,2,3,4,5,6,7	F-008		7100		
02/12/24	1,2,3,4,5,6,7	F-009		700		
02/13/24	1,2,3,4,5,6,7	F-001		1900		
02/13/24	1,2,3,4,5,6,7	F-002		19900		
02/13/24	1,2,3,4,5,6,7	F-007		4000		
02/13/24	1,2,3,4,5,6,7	F-008		7100		
02/13/24	1,2,3,4,5,6,7	F-009		700		
02/14/24	1,2,3,4,5,6,7	F-001		1900		
02/14/24	1,2,3,4,5,6,7	F-002		22300		
02/14/24	1,2,3,4,5,6,7	F-007		4000		
02/14/24	1,2,3,4,5,6,7	F-008		7100		
02/14/24	1,2,3,4,5,6,7	F-009		700		
02/15/24	1,2,3,4,5,6,7	F-001		1900		
02/15/24	1,2,3,4,5,6,7	F-002		23400		
02/15/24	1,2,3,4,5,6,7	F-007		4000		
02/15/24	1,2,3,4,5,6,7	F-008		7100		
02/15/24	1,2,3,4,5,6,7	F-009		700		
02/19/24	1,2,3,4,5,6,7	F-001		8900		
02/19/24	1,2,3,4,5,6,7	F-002		23900		
02/19/24	1,2,3,4,5,6,7	F-007		4000		
02/19/24	1,2,3,4,5,6,7	F-008		7100		
02/19/24	1,2,3,4,5,6,7	F-009		700		
02/20/24	1,2,3,4,5,6,7	F-001		10500		
02/20/24	1,2,3,4,5,6,7	F-002		23900		
02/20/24	1,2,3,4,5,6,7	F-007		4000		
02/20/24	1,2,3,4,5,6,7	F-008		7100		

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

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02/20/24	1,2,3,4,5,6,7	F-009		700		
02/21/24	1,2,3,4,5,6,7	F-001		11300		
02/21/24	1,2,3,4,5,6,7	F-002		23900		
02/21/24	1,2,3,4,5,6,7	F-007		4000		
02/21/24	1,2,3,4,5,6,7	F-008		7100		
02/21/24	1,2,3,4,5,6,7	F-009		700		
02/22/24	1,2,3,4,5,6,7	F-001		13000		
02/22/24	1,2,3,4,5,6,7	F-002		23900	12300	L
02/22/24	1,2,3,4,5,6,7	F-007		4000		
02/22/24	1,2,3,4,5,6,7	F-008		7100		
02/22/24	1,2,3,4,5,6,7	F-009		700		
02/26/24	1,2,3,4,5,6,7	F-001		19000		
02/26/24	1,2,3,4,5,6,7	F-002		11600	10100	L
02/26/24	1,2,3,4,5,6,7	F-007		4000		
02/26/24	1,2,3,4,5,6,7	F-008		7100		
02/26/24	1,2,3,4,5,6,7	F-009		700		
02/27/24	1,2,3,4,5,6,7	F-001		20700	15700	L
02/27/24	1,2,3,4,5,6,7	F-002		1500		
02/27/24	1,2,3,4,5,6,7	F-007		4000		
02/27/24	1,2,3,4,5,6,7	F-008		7100		
02/27/24	1,2,3,4,5,6,7	F-009		700		
02/28/24	1,2,3,4,5,6,7	F-001		5000	3500	L
02/28/24	1,2,3,4,5,6,7	F-002		2400		
02/28/24	1,2,3,4,5,6,7	F-007		4000		
02/28/24	1,2,3,4,5,6,7	F-008		7100		
02/28/24	1,2,3,4,5,6,7	F-009		700		
02/29/24	1,2,3,4,5,6,7	F-001		1500		



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

Permit No. 073-00045

McCracken County, Kentucky

Month February Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
02/29/24	1,2,3,4,5,6,7	F-002		4100		
02/29/24	1,2,3,4,5,6,7	F-007		4000		
02/29/24	1,2,3,4,5,6,7	F-008		7100		
02/29/24	1,2,3,4,5,6,7	F-009		700		
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em; font-weight: bold;">             TW 3/4/24           </div>						

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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03/04/2024	1,2,3,4,5,6,7	F-001		1500		
03/04/2024	1,2,3,4,5,6,7	F-002		9100		
03/04/2024	1,2,3,4,5,6,7	F-007		4000		
03/04/2024	1,2,3,4,5,6,7	F-008		7100		
03/04/2024	1,2,3,4,5,6,7	F-009		700		
03/05/2024	1,2,3,4,5,6,7	F-001		1500		
03/05/2024	1,2,3,4,5,6,7	F-002		10000	9600	L
03/05/2024	1,2,3,4,5,6,7	F-007		4000		
03/05/2024	1,2,3,4,5,6,7	F-008		7100		
03/05/2024	1,2,3,4,5,6,7	F-009		700		
03/06/2024	1,2,3,4,5,6,7	F-001		2200		
03/06/2024	1,2,3,4,5,6,7	F-002		400		
03/06/2024	1,2,3,4,5,6,7	F-007		4000		
03/06/2024	1,2,3,4,5,6,7	F-008		7100		
03/06/2024	1,2,3,4,5,6,7	F-009		700		
03/07/2024	1,2,3,4,5,6,7	F-001		4100		
03/07/2024	1,2,3,4,5,6,7	F-002		400		
03/07/2024	1,2,3,4,5,6,7	F-007		4000		
03/07/2024	1,2,3,4,5,6,7	F-008		7100		
03/07/2024	1,2,3,4,5,6,7	F-009		700		
03/11/2024	1,2,3,4,5,6,7	F-001		8300		
03/11/2024	1,2,3,4,5,6,7	F-002		400		
03/11/2024	1,2,3,4,5,6,7	F-007		4000		
03/11/2024	1,2,3,4,5,6,7	F-008		7100		
03/11/2024	1,2,3,4,5,6,7	F-009		700		
03/12/2024	1,2,3,4,5,6,7	F-001		10000	3500	L
03/12/2024	1,2,3,4,5,6,7	F-002		400		

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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03/12/2024	1,2,3,4,5,6,7	F-007		4000		
03/12/2024	1,2,3,4,5,6,7	F-008		7100		
03/12/2024	1,2,3,4,5,6,7	F-009		700		
03/13/2024	1,2,3,4,5,6,7	F-001		6500		
03/13/2024	1,2,3,4,5,6,7	F-002		2100		
03/13/2024	1,2,3,4,5,6,7	F-007		4000		
03/13/2024	1,2,3,4,5,6,7	F-008		7100		
03/13/2024	1,2,3,4,5,6,7	F-009		700		
03/14/2024	1,2,3,4,5,6,7	F-001		6500		
03/14/2024	1,2,3,4,5,6,7	F-002		3700		
03/14/2024	1,2,3,4,5,6,7	F-007		4000		
03/14/2024	1,2,3,4,5,6,7	F-008		7100		
03/14/2024	1,2,3,4,5,6,7	F-009		700		
03/18/2024	1,2,3,4,5,6,7	F-001		6500		
03/18/2024	1,2,3,4,5,6,7	F-002		7800		
03/18/2024	1,2,3,4,5,6,7	F-007		4000		
03/18/2024	1,2,3,4,5,6,7	F-008		7100		
03/18/2024	1,2,3,4,5,6,7	F-009		700		
03/19/2024	1,2,3,4,5,6,7	F-001		6500		
03/19/2024	1,2,3,4,5,6,7	F-002		8900		
03/19/2024	1,2,3,4,5,6,7	F-007		4000		
03/19/2024	1,2,3,4,5,6,7	F-008		7100		
03/19/2024	1,2,3,4,5,6,7	F-009		700		
03/20/2024	1,2,3,4,5,6,7	F-001		6500		
03/20/2024	1,2,3,4,5,6,7	F-002		10500		
03/20/2024	1,2,3,4,5,6,7	F-007		4000		
03/20/2024	1,2,3,4,5,6,7	F-008		7100		



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

Permit No. 073-00045

McCracken County, Kentucky

Month March Year 2024

Date	Phase	Collection Tank Number	Mobile Tanker	Tank Volume (Gallons)	Disposal Volume (Gallons)	Disposal Method*
03/20/2024	1,2,3,4,5,6,7	F-009		700		
03/21/2024	1,2,3,4,5,6,7	F-001		6500		
03/21/2024	1,2,3,4,5,6,7	F-002		11300		
03/21/2024	1,2,3,4,5,6,7	F-007		4000		
03/21/2024	1,2,3,4,5,6,7	F-008		7100		
03/21/2024	1,2,3,4,5,6,7	F-009		700		
03/25/2024	1,2,3,4,5,6,7	F-001		6500		
03/25/2024	1,2,3,4,5,6,7	F-002		15300		
03/25/2024	1,2,3,4,5,6,7	F-007		4000		
03/25/2024	1,2,3,4,5,6,7	F-008		7100		
03/25/2024	1,2,3,4,5,6,7	F-009		700		
03/26/2024	1,2,3,4,5,6,7	F-001		6500		
03/26/2024	1,2,3,4,5,6,7	F-002		17000		
03/26/2024	1,2,3,4,5,6,7	F-007		4000		
03/26/2024	1,2,3,4,5,6,7	F-008		7100		
03/26/2024	1,2,3,4,5,6,7	F-009		700		
03/27/2024	1,2,3,4,5,6,7	F-001		6500		
03/27/2024	1,2,3,4,5,6,7	F-002		18800		
03/27/2024	1,2,3,4,5,6,7	F-007		4000		
03/27/2024	1,2,3,4,5,6,7	F-008		7100		
03/27/2024	1,2,3,4,5,6,7	F-009		700		

*SR03-27-24*

\* R – Re-circulated to Working Phas  
W – Transported to Wastewater Treatment Facility  
L – Disposed at on-site Leachate Treatment Facility

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## **LEACHATE ANALYTICAL RESULTS**

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## Paducah OREIS Report for SLS24-01

Sample ID: <b>SLS24-01-01</b>	Station: C-746-S	Date Collected: 2/5/2024	MedType: WW	SmpMethod: GR
Comments: Leachate Cell 2 sample				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>ANION</b>										
Bromide	0.665	mg/L			0.2			SW846-9056A	GEL	/X/
Chloride	28.9	mg/L		JW	250			SW846-9056A	GEL	/X/J
Fluoride	0.241	mg/L		J	4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L		UHW	10			SW846-9056A	GEL	T/X/U/J
Sulfate	72.6	mg/L		BW	2			SW846-9056A	GEL	/X/J
<b>FS</b>										
Conductivity	1216	µmhos/cm						FS	FS	//
Dissolved Oxygen	2.06	mg/L						FS	FS	//
Eh (approx)	183	mV						FS	FS	//
pH	6.37	Std Unit						FS	FS	//
Temperature	50.8	deg F						FS	FS	//
<b>METAL</b>										
Aluminum	0.05	mg/L		U	0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L		U	0.003			SW846-6020B	GEL	/X/
Arsenic	0.00495	mg/L		J	0.005			SW846-6020B	GEL	/X/
Barium	0.421	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L		U	0.0005			SW846-6020B	GEL	/X/
Boron	0.0286	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L		U	0.001			SW846-6020B	GEL	/X/
Calcium	144	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L		U	0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L		U	0.001			SW846-6020B	GEL	/X/
Copper	0.000317	mg/L		J	0.002			SW846-6020B	GEL	S/X/
Iron	77.6	mg/L			2			SW846-6020B	GEL	/X/
Lead	0.002	mg/L		U	0.002			SW846-6020B	GEL	/X/
Magnesium	33.1	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	1.38	mg/L			0.1			SW846-6020B	GEL	/X/
Mercury	0.00103	mg/L			0.0004			SW846-7470A	GEL	S/X/
Molybdenum	0.001	mg/L		U	0.001			SW846-6020B	GEL	/X/
Nickel	0.000664	mg/L		J	0.002			SW846-6020B	GEL	S/X/
Phosphorus	0.208	mg/L			0.2			EPA-365.4	GEL	/X/
Potassium	5.04	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L		U	0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L		U	0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L		U	0.001			SW846-6020B	GEL	/X/
Sodium	41.6	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L		U	0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L		U	0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L		U	0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L		U	0.01			SW846-6020B	GEL	/X/
Uranium	0.000374	mg/L			0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L		U	0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L		U	0.02			SW846-6020B	GEL	/X/
<b>METAL-D</b>										
Antimony, Dissolved	0.003	mg/L		U	0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.00431	mg/L		J	0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.31	mg/L			0.004			SW846-6020B	GEL	/X/



## Paducah OREIS Report for SLS24-01

Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Cobalt, Dissolved	0.000572	mg/L	J	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.000356	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	1.4	mg/L		0.1			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.000729	mg/L	J	0.002			SW846-6020B	GEL	S/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.000482	mg/L		0.0002			SW846-6020B	GEL	/X/
Vanadium, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.00516	mg/L	J	0.02			SW846-6020B	GEL	/X/

### OTHOR

Oil and Grease	4.76	mg/L	U	4.76			EPA-1664A	GEL	/X/
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### PPCB

PCB-1016	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1221	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1232	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1242	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1248	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1254	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1260	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
PCB-1268	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0994	ug/L	U	0.0994			SW846-8082A	GEL	/X/

### RADS

Alpha activity	4.59	pCi/L	U	10.7	6.24	6.29	SW846-9310	GEL	/X/
Americium-241	-0.177	pCi/L	U	2.02	0.8	0.801	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	5.12	pCi/L	U	11.8	6.98	7.04	SW846-9310	GEL	/X/
Cesium-137	0.559	pCi/L	U	1.18	1.02	1.03	EPA-901.1	GEL	/X/
Cobalt-60	0.097	pCi/L	U	1.15	0.613	0.615	EPA-901.1	GEL	/X/
Neptunium-237	-0.128	pCi/L	U	0.881	0.297	0.298	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.0327	pCi/L	U	1.15	0.49	0.491	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.859	pCi/L	U	1.45	1.22	1.22	AN-1418	GEL	/X/
Radium-228	2.42	pCi/L	U	4.61	2.75	2.82	EPA-904-M	GEL	/X/
Strontium-90	0.904	pCi/L	U	6.66	3.7	3.7	EPA-905.0-M	GEL	/X/
Technetium-99	5.5	pCi/L	U	18.5	10.8	10.8	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	-0.0865	pCi/L	U	1.31	0.544	0.545	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	-0.0216	pCi/L	U	0.657	0.313	0.314	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	8.45	pCi/L	U	40.5	47.2	47.4	EPA-901.1	GEL	/X/
Total Uranium	0.511	pCi/L	U	1.78	0.981	0.983	HASL 300, U-02-RC M	GEL	/X/
Tritium	93.8	pCi/L	U	212	125	126	EPA-906.0-M	GEL	/X/
Uranium-234	0.334	pCi/L	U	1.17	0.685	0.688	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	0.0982	pCi/L	U	1.05	0.546	0.546	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	0.0795	pCi/L	U	0.846	0.441	0.442	HASL 300, U-02-RC M	GEL	/X/

### RADS-D

Americium-241, Dissolved	0.0815	pCi/L	U	0.868	0.453	0.453	HASL 300, Am-05-RC M	GEL	/X/
Cesium-137, Dissolved	1.19	pCi/L	U	9.49	4.72	4.75	EPA-901.1	GEL	/X/
Cobalt, Dissolved	2.31	pCi/L	U	11.6	5.44	5.55	EPA-901.1	GEL	/X/
Dissolved Alpha	1.15	pCi/L	U	2.54	1.53	1.55	SW846-9310	GEL	/X/
Dissolved Beta	4.12	pCi/L	U	2.64	1.83	1.95	SW846-9310	GEL	/X/
Neptunium-237, Dissolved	0.175	pCi/L	U	1.02	0.547	0.548	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.00664	pCi/L	U	1.09	0.492	0.493	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	3.73	pCi/L	U	18.9	10.9	10.9	HASL 300, Tc-02-RC M	GEL	/X/

## Paducah OREIS Report for SLS24-01

Thorium-230, Dissolved	1.25	pCi/L	U	1.44	1.11	1.13	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	-96	pCi/L	U	636	388	391	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	0.776	pCi/L	U	2.67	1.39	1.4	HASL 300, U-02-RC M	GEL	/X/
Uranium-234, Dissolved	0.408	pCi/L	U	1.52	0.865	0.869	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	-0.0429	pCi/L	U	1.51	0.644	0.645	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	0.368	pCi/L	U	1.6	0.884	0.886	HASL 300, U-02-RC M	GEL	/X/

### VOA

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0193	ug/L	U	0.0193			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5.03	ug/L		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	2.09	ug/L		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U	5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/X/

### Paducah OREIS Report for SLS24-01

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
<b>WETCHEM</b>							
Carbonaceous Biochemical Oxygen Demand (CBOD)	3.417	mg/L	JX	6	SM-5210 B	GEL	/X/
Chemical Oxygen Demand (COD)	34.9	mg/L		20	EPA-410.4	GEL	/X/
Cyanide	0.2	mg/L	UN	0.2	SW846-9012B	GEL	/X/
Dissolved Solids	625	mg/L		10	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	567	mg/L		50	EPA-130.2	GEL	/X/
Iodide	1.48	mg/L		0.5	EPA-300.0	GEL	/X/
Suspended Solids	69.5	mg/L		12.5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	9.9	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	29.6	ug/L		10	SW846-9020B	GEL	/X/

## Paducah OREIS Report for SLS24-01

Sample ID: <b>SLS24-01-02</b>	Station: C-746-S	Date Collected: 2/5/2024	MedType: WW	SmpMethod: GR
Comments: Leachate Cell 3 sample				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>ANION</b>										
Bromide	0.2	mg/L	U		0.2			SW846-9056A	GEL	/X/
Chloride	8.48	mg/L	JW		250			SW846-9056A	GEL	/X/J
Fluoride	0.619	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	UW		10			SW846-9056A	GEL	/X/
Sulfate	101	mg/L	BW		4			SW846-9056A	GEL	/X/J
<b>FS</b>										
Conductivity	1016	µmhos/cm						FS	FS	//
Dissolved Oxygen	6.4	mg/L						FS	FS	//
Eh (approx)	391	mV						FS	FS	//
pH	6.94	Std Unit						FS	FS	//
Temperature	46.9	deg F						FS	FS	//
<b>METAL</b>										
Aluminum	0.05	mg/L	U		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.00461	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium	0.179	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.015	mg/L	U		0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	186	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.000715	mg/L	J		0.002			SW846-6020B	GEL	/X/
Iron	0.155	mg/L			0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	24.7	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.0181	mg/L			0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00142	mg/L			0.001			SW846-6020B	GEL	/X/
Nickel	0.00227	mg/L			0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	1.06	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	38.9	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0183	mg/L			0.0002			SW846-6020B	GEL	/X/
Vanadium	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
<b>METAL-D</b>										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.00467	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.178	mg/L			0.004			SW846-6020B	GEL	/X/

**Paducah OREIS Report for SLS24-01**

Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Cobalt, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.00105	mg/L	J	0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	0.0115	mg/L		0.005			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.00205	mg/L		0.002			SW846-6020B	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.0182	mg/L		0.0002			SW846-6020B	GEL	S/X/
Vanadium, Dissolved	0.00444	mg/L	BJ	0.02			SW846-6020B	GEL	S/X/
Zinc, Dissolved	0.02	mg/L	U	0.02			SW846-6020B	GEL	/X/

**OTHOR**

Oil and Grease	4.9	mg/L	U	4.9			EPA-1664A	GEL	/X/
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**PPCB**

PCB-1016	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1221	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1232	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1242	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1248	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1254	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1260	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
PCB-1268	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0963	ug/L	U	0.0963			SW846-8082A	GEL	/X/

**RADS**

Alpha activity	7.9	pCi/L	U	8.11	6.07	6.21	SW846-9310	GEL	/X/
Americium-241	-0.0835	pCi/L	U	0.963	0.369	0.37	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	6.36	pCi/L	U	8.99	5.62	5.72	SW846-9310	GEL	/X/
Cesium-137	-0.278	pCi/L	U	1.17	0.668	0.68	EPA-901.1	GEL	/X/
Cobalt-60	-0.336	pCi/L	U	1.1	0.664	0.681	EPA-901.1	GEL	/X/
Neptunium-237	-0.0591	pCi/L	U	0.994	0.408	0.408	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.0335	pCi/L	U	0.669	0.289	0.289	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.349	pCi/L	U	0.91	0.58	0.58	AN-1418	GEL	/X/
Radium-228	3.46	pCi/L	U	4.04	2.59	2.74	EPA-904-M	GEL	/X/
Strontium-90	2.5	pCi/L	UT	3.75	2.31	2.34	EPA-905.0-M	GEL	/X/U
Technetium-99	-3.32	pCi/L	U	18.1	10	10	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.341	pCi/L	U	1.16	0.678	0.682	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	0.118	pCi/L	U	0.599	0.392	0.392	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	-8.67	pCi/L	U	38.3	33.4	33.7	EPA-901.1	GEL	/X/
Total Uranium	11.2	pCi/L		2.1	2.88	3.09	HASL 300, U-02-RC M	GEL	S/X/
Tritium	45.1	pCi/L	U	212	121	121	EPA-906.0-M	GEL	/X/
Uranium-234	4.43	pCi/L		1.31	1.82	1.93	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	-0.156	pCi/L	U	1.32	0.47	0.471	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	6.74	pCi/L		0.969	2.17	2.37	HASL 300, U-02-RC M	GEL	/X/

**RADS-D**

Americium-241, Dissolved	-0.0789	pCi/L	U	0.91	0.349	0.35	HASL 300, Am-05-RC M	GEL	/X/
Cesium-137, Dissolved	-0.0596	pCi/L	U	8.93	4.9	4.9	EPA-901.1	GEL	/X/
Cobalt, Dissolved	2.42	pCi/L	U	10.1	5.08	5.2	EPA-901.1	GEL	/X/
Dissolved Alpha	6.39	pCi/L		2.99	2.44	2.66	SW846-9310	GEL	/X/
Dissolved Beta	4.6	pCi/L		1.97	1.41	1.62	SW846-9310	GEL	/X/
Neptunium-237, Dissolved	-0.0456	pCi/L	U	0.766	0.315	0.315	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.686	pCi/L	U	1.36	0.904	0.908	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	-9.08	pCi/L	U	18.3	9.82	9.82	HASL 300, Tc-02-RC M	GEL	/X/

**Paducah OREIS Report for SLS24-01**

Thorium-230, Dissolved	0.819	pCi/L	U	1.9	1.23	1.24	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234, Dissolved	-185	pCi/L	U	405	244	261	EPA-901.1	GEL	/X/
Total Uranium, Dissolved	9.05	pCi/L		1.72	2.4	2.53	HASL 300, U-02-RC M	GEL	S/X/
Uranium-234, Dissolved	4.43	pCi/L		1.13	1.66	1.77	HASL 300, U-02-RC M	GEL	/X/
Uranium-235, Dissolved	0.276	pCi/L	U	1.01	0.635	0.636	HASL 300, U-02-RC M	GEL	/X/
Uranium-238, Dissolved	4.34	pCi/L		0.814	1.61	1.7	HASL 300, U-02-RC M	GEL	S/X/

**VOA**

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0194	ug/L	U	0.0194			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U	5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/X/

### Paducah OREIS Report for SLS24-01

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
<b>WETCHEM</b>							
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	0.2	mg/L	UN	0.2	SW846-9012B	GEL	/X/
Dissolved Solids	657	mg/L		10	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	560	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Suspended Solids	2.5	mg/L	U	2.5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	3.26	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	31.3	ug/L		10	SW846-9020B	GEL	/X/

## Paducah OREIS Report for SLS24-01

Sample ID: <b>FBSLS24-01</b>	Station: QC	Date Collected: 2/5/2024	MedType: WQ	SmpMethod:
Comments:				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>ANION</b>										
Bromide	0.2	mg/L	U		0.2			SW846-9056A	GEL	/X/
Chloride	0.402	mg/L	JW		250			SW846-9056A	GEL	/X/J
Fluoride	4	mg/L	U		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	UW		10			SW846-9056A	GEL	/X/
Sulfate	0.204	mg/L	JBW		0.4			SW846-9056A	GEL	/X/J
<b>METAL</b>										
Aluminum	0.05	mg/L	U		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.00263	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.015	mg/L	U		0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	0.2	mg/L	U		0.2			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	0.03	mg/L	U		0.03			SW846-6020B	GEL	/X/
Manganese	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L			0.05			EPA-365.4	GEL	/X/
Potassium	0.115	mg/L	J		0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	0.338	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0002	mg/L	U		0.0002			SW846-6020B	GEL	/X/
Vanadium	0.00543	mg/L	BJ		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
<b>OTHOR</b>										
Oil and Grease	5.21	mg/L	U		5.21			EPA-1664A	GEL	/X/
<b>PPCB</b>										
PCB-1016	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1221	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1232	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1242	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1248	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1254	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/
PCB-1260	0.0976	ug/L	U		0.0976			SW846-8082A	GEL	/X/



**Paducah OREIS Report for SLS24-01**

PCB-1268	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0976	ug/L	U	0.0976			SW846-8082A	GEL	/X/
<b>RADS</b>									
Alpha activity	-0.53	pCi/L	U	6.9	2.72	2.72	SW846-9310	GEL	/X/
Americium-241	0.00633	pCi/L	U	1.04	0.469	0.47	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	-1.94	pCi/L	U	9.36	4.61	4.61	SW846-9310	GEL	/X/
Cesium-137	0.817	pCi/L	U	1.99	1.07	1.14	EPA-901.1	GEL	/X/
Cobalt-60	0.577	pCi/L	U	1.94	1	1.04	EPA-901.1	GEL	/X/
Neptunium-237	0.14	pCi/L	U	0.923	0.482	0.482	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	0.715	pCi/L	U	1.42	0.942	0.946	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.225	pCi/L	U	0.415	0.292	0.293	AN-1418	GEL	/X/
Radium-228	2.25	pCi/L	U	3.48	2.15	2.22	EPA-904-M	GEL	/X/
Strontium-90	3.45	pCi/L	U	4.94	3.09	3.14	EPA-905.0-M	GEL	/X/
Technetium-99	-12.7	pCi/L	U	23	12.2	12.2	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	0.343	pCi/L	U	2.04	1.08	1.08	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	-0.0216	pCi/L	U	0.949	0.479	0.48	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	11.3	pCi/L	U	47.7	39.4	39.8	EPA-901.1	GEL	/X/
Total Uranium	0.275	pCi/L	U	2.36	1.08	1.09	HASL 300, U-02-RC M	GEL	/X/
Tritium	105	pCi/L	U	212	126	127	EPA-906.0-M	GEL	/X/
Uranium-234	0.176	pCi/L	U	1.54	0.78	0.782	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	-0.17	pCi/L	U	1.44	0.513	0.514	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	0.0993	pCi/L	U	1.06	0.552	0.552	HASL 300, U-02-RC M	GEL	/X/
<b>VOA</b>									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	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			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	109	ug/L		5			SW846-8260D	GEL	/X/
2-Hexanone	19.9	ug/L		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	39.3	ug/L		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/

**Paducah OREIS Report for SLS24-01**

cis-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5	SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2	SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U	5	SW846-8260D	GEL	/X/
Styrene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3	SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5	SW846-8260D	GEL	/X/
Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
<b>WETCHEM</b>							
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/X/
Hardness - Total as CaCO3	2	mg/L	U	2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Total Organic Carbon (TOC)	1.12	mg/L	J	2	SW846-9060A	GEL	/X/

**Paducah OREIS Report for SLS24-01**

Sample ID: <b>TBSLS24-01</b>	Station: QC	Date Collected: 2/5/2024	MedType: WQ	SmpMethod:
Comments:				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>VOA</b>										
1,1,1,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0195	ug/L	U		0.0195			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acetone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U		5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U		5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U		5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U		2			SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U		5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U		3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U		5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U		5			SW846-8260D	GEL	/X/

# Paducah OREIS Report for SLS24-01

Vinyl chloride

1

ug/L

U

1

SW846-8260D

GEL

/X/

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## Paducah OREIS Report for ULS24-01

Sample ID: <b>ULS24-01-01</b>	Station: C-746-U	Date Collected: 2/5/2024	MedType: WW	SmpMethod: GR
Comments: Sample taken from F001 tank. MH 2-5-24				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>ANION</b>										
Bromide	0.313	mg/L			0.2			SW846-9056A	GEL	/X/
Chloride	40.2	mg/L	JW		5			SW846-9056A	GEL	/X/J
Fluoride	0.656	mg/L	J		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	3.07	mg/L	JW		10			SW846-9056A	GEL	/X/J
Sulfate	239	mg/L	BW		10			SW846-9056A	GEL	/X/J
<b>FS</b>										
Conductivity	1230	µmhos/cm						FS	FS	//
Dissolved Oxygen	8.57	mg/L						FS	FS	//
Eh (approx)	325	mV						FS	FS	//
pH	7.5	Std Unit						FS	FS	//
Temperature	67.2	deg F						FS	FS	//
<b>METAL</b>										
Aluminum	0.212	mg/L			0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.00407	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium	0.11	mg/L			0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	3.58	mg/L			0.3			SW846-6020B	GEL	S/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	145	mg/L			4			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.000847	mg/L	J		0.001			SW846-6020B	GEL	/X/
Copper	0.00264	mg/L			0.002			SW846-6020B	GEL	/X/
Iron	0.27	mg/L			0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	37.3	mg/L			0.03			SW846-6020B	GEL	/X/
Manganese	0.024	mg/L			0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.00177	mg/L			0.001			SW846-6020B	GEL	/X/
Nickel	0.00489	mg/L			0.002			SW846-6020B	GEL	/X/
Phosphorus	0.04	mg/L	J		0.05			EPA-365.4	GEL	/X/
Potassium	5.21	mg/L			0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	112	mg/L			5			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.00579	mg/L	J		0.01			SW846-6020B	GEL	/X/
Uranium	0.455	mg/L			0.0002			SW846-6020B	GEL	I/X/
Vanadium	0.00918	mg/L	BJ		0.02			SW846-6020B	GEL	/X/
Zinc	0.0183	mg/L	J		0.02			SW846-6020B	GEL	/X/
<b>METAL-D</b>										
Antimony, Dissolved	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic, Dissolved	0.00419	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium, Dissolved	0.105	mg/L			0.004			SW846-6020B	GEL	/X/

## Paducah OREIS Report for ULS24-01

Cadmium, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Chromium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Cobalt, Dissolved	0.00073	mg/L	J	0.001			SW846-6020B	GEL	/X/
Copper, Dissolved	0.00261	mg/L		0.002			SW846-6020B	GEL	/X/
Lead, Dissolved	0.002	mg/L	U	0.002			SW846-6020B	GEL	/X/
Manganese, Dissolved	0.0198	mg/L		0.005			SW846-6020B	GEL	/X/
Nickel, Dissolved	0.00448	mg/L		0.002			SW846-6020B	GEL	/X/
Selenium, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Silver, Dissolved	0.001	mg/L	U	0.001			SW846-6020B	GEL	/X/
Tin, Dissolved	0.005	mg/L	U	0.005			SW846-6020B	GEL	/X/
Titanium, Dissolved	0.01	mg/L	U	0.01			SW846-6020B	GEL	/X/
Uranium, Dissolved	0.442	mg/L		0.0002			SW846-6020B	GEL	S/X/
Vanadium, Dissolved	0.0103	mg/L	BJ	0.02			SW846-6020B	GEL	/X/
Zinc, Dissolved	0.013	mg/L	J	0.02			SW846-6020B	GEL	/X/

### OTHOR

Oil and Grease	5	mg/L	U	5			EPA-1664A	GEL	/X/
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### PPCB

PCB-1016	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1221	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1232	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1242	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1248	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1254	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1260	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
PCB-1268	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.1	ug/L	U	0.1			SW846-8082A	GEL	/X/

### RADS

Alpha activity	151	pCi/L		8.43	21.8	34.1	SW846-9310	GEL	I/X/
Americium-241	0.241	pCi/L	U	0.656	0.473	0.474	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	139	pCi/L		9.72	15	27.8	SW846-9310	GEL	/X/
Cesium-137	0.639	pCi/L	U	2.18	1.25	1.28	EPA-901.1	GEL	/X/
Cobalt-60	0.067	pCi/L	U	2.19	1.41	1.41	EPA-901.1	GEL	/X/
Neptunium-237	0.0363	pCi/L	U	0.792	0.38	0.38	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	0.306	pCi/L	U	0.834	0.601	0.603	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.196	pCi/L	U	1.54	0.854	0.855	AN-1418	GEL	/X/
Radium-228	1.65	pCi/L	U	4.68	2.69	2.73	EPA-904-M	GEL	/X/
Strontium-90	0.233	pCi/L	U	5.54	2.97	2.97	EPA-905.0-M	GEL	/X/
Technetium-99	17.2	pCi/L	U	18.1	11.2	11.3	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	1.06	pCi/L	U	1.2	0.957	0.971	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	-0.0584	pCi/L	U	0.794	0.318	0.318	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	9.96	pCi/L	U	42.5	35.9	36.2	EPA-901.1	GEL	/X/
Total Uranium	192	pCi/L		2.32	12.4	27.3	HASL 300, U-02-RC M	GEL	/X/
Tritium	18	pCi/L	U	217	122	122	EPA-906.0-M	GEL	/X/
Uranium-234	27.8	pCi/L		1.71	4.76	6.3	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	2.55	pCi/L		0.765	1.66	1.7	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	162	pCi/L		1.36	11.3	26.5	HASL 300, U-02-RC M	GEL	/X/

### RADS-D

Americium-241, Dissolved	-0.0901	pCi/L	U	1.04	0.398	0.399	HASL 300, Am-05-RC M	GEL	/X/
Cesium-137, Dissolved	2.7	pCi/L	U	9.68	4.73	4.89	EPA-901.1	GEL	/X/
Cobalt, Dissolved	1.47	pCi/L	U	8.79	3.71	3.77	EPA-901.1	GEL	/X/
Dissolved Alpha	72.7	pCi/L		1.94	8.26	15.4	SW846-9310	GEL	/X/
Dissolved Beta	87.8	pCi/L		2.62	5.81	15.8	SW846-9310	GEL	/X/
Neptunium-237, Dissolved	0.185	pCi/L	U	1.09	0.58	0.58	ASTM-1475-00M	GEL	/X/
Plutonium-239/240, Dissolved	0.0135	pCi/L	U	1.36	0.619	0.619	HASL 300, Pu-11-RC M	GEL	/X/
Technetium-99, Dissolved	12.4	pCi/L	U	19.5	11.7	11.8	HASL 300, Tc-02-RC M	GEL	/X/

**Paducah OREIS Report for ULS24-01**

Thorium-230, Dissolved	0.403	pCi/L	U	1.08	0.659	0.665	HASL 300, Th-01-RC M	GEL	/ X/
Thorium-234, Dissolved	-27.6	pCi/L	U	337	195	196	EPA-901.1	GEL	/ X/
Total Uranium, Dissolved	183	pCi/L		2.34	11.8	25.7	HASL 300, U-02-RC M	GEL	S / X/
Uranium-234, Dissolved	23.4	pCi/L		1.43	4.24	5.43	HASL 300, U-02-RC M	GEL	/ X/
Uranium-235, Dissolved	2.29	pCi/L		1.33	1.58	1.61	HASL 300, U-02-RC M	GEL	/ X/
Uranium-238, Dissolved	157	pCi/L		1.28	10.9	25.1	HASL 300, U-02-RC M	GEL	S / X/

**VOA**

1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192			SW846-8011	GEL	/ X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
2-Butanone	5	ug/L	U	5			SW846-8260D	GEL	/ X/
2-Hexanone	5	ug/L	U	5			SW846-8260D	GEL	/ X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Acetone	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Acrolein	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
cis-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Dibromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Dibromomethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Ethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Iodomethane	5	ug/L	U	5			SW846-8260D	GEL	/ X/
m,p-Xylene	2	ug/L	U	2			SW846-8260D	GEL	/ X/
Methylene chloride	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Styrene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Tetrachloroethene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Toluene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Total Xylene	3	ug/L	U	3			SW846-8260D	GEL	/ X/
trans-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
trans-1,3-Dichloropropene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5			SW846-8260D	GEL	/ X/
Trichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Trichlorofluoromethane	1	ug/L	U	1			SW846-8260D	GEL	/ X/
Vinyl acetate	5	ug/L	U	5			SW846-8260D	GEL	/ X/

### Paducah OREIS Report for ULS24-01

Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
<b>WETCHEM</b>							
Carbonaceous Biochemical Oxygen Demand (CBOD)	2	mg/L	UX	2	SM-5210 B	GEL	/X/
Chemical Oxygen Demand (COD)	27.4	mg/L		20	EPA-410.4	GEL	/X/
Cyanide	0.005	mg/L	UN	0.005	SW846-9012B	GEL	/X/
Dissolved Solids	832	mg/L		20	EPA-160.1	GEL	/X/
Hardness - Total as CaCO3	491	mg/L		2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Suspended Solids	1.2	mg/L	J	2.5	EPA-160.2	GEL	/X/
Total Organic Carbon (TOC)	6.54	mg/L		2	SW846-9060A	GEL	/X/
Total Organic Halides (TOX)	37.3	ug/L		10	SW846-9020B	GEL	/X/



## Paducah OREIS Report for ULS24-01

Sample ID: <b>FBULS24-01</b>	Station: QC	Date Collected: 2/5/2024	MedType: WQ	SmpMethod:
Comments:				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>ANION</b>										
Bromide	0.2	mg/L	U		0.2			SW846-9056A	GEL	/X/
Chloride	0.345	mg/L	JW		250			SW846-9056A	GEL	/X/J
Fluoride	4	mg/L	U		4			SW846-9056A	GEL	/X/
Nitrate as Nitrogen	10	mg/L	UW		10			SW846-9056A	GEL	/X/
Sulfate	0.223	mg/L	JBW		0.4			SW846-9056A	GEL	/X/J
<b>METAL</b>										
Aluminum	0.05	mg/L	U		0.05			SW846-6020B	GEL	/X/
Antimony	0.003	mg/L	U		0.003			SW846-6020B	GEL	/X/
Arsenic	0.00229	mg/L	J		0.005			SW846-6020B	GEL	/X/
Barium	0.004	mg/L	U		0.004			SW846-6020B	GEL	/X/
Beryllium	0.0005	mg/L	U		0.0005			SW846-6020B	GEL	/X/
Boron	0.0202	mg/L			0.015			SW846-6020B	GEL	/X/
Cadmium	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Calcium	0.2	mg/L	U		0.2			SW846-6020B	GEL	/X/
Chromium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Cobalt	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Copper	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Iron	0.1	mg/L	U		0.1			SW846-6020B	GEL	/X/
Lead	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Magnesium	0.0172	mg/L	J		0.03			SW846-6020B	GEL	/X/
Manganese	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Mercury	0.0002	mg/L	U		0.0002			SW846-7470A	GEL	/X/
Molybdenum	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Nickel	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Phosphorus	0.05	mg/L	U		0.05			EPA-365.4	GEL	/X/
Potassium	0.3	mg/L	U		0.3			SW846-6020B	GEL	/X/
Rhodium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Selenium	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Silver	0.001	mg/L	U		0.001			SW846-6020B	GEL	/X/
Sodium	0.344	mg/L			0.25			SW846-6020B	GEL	/X/
Tantalum	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Thallium	0.002	mg/L	U		0.002			SW846-6020B	GEL	/X/
Tin	0.005	mg/L	U		0.005			SW846-6020B	GEL	/X/
Titanium	0.01	mg/L	U		0.01			SW846-6020B	GEL	/X/
Uranium	0.0002	mg/L	U		0.0002			SW846-6020B	GEL	/X/
Vanadium	0.00893	mg/L	BJ		0.02			SW846-6020B	GEL	/X/
Zinc	0.02	mg/L	U		0.02			SW846-6020B	GEL	/X/
<b>OTHOR</b>										
Oil and Grease	4.9	mg/L	U		4.9			EPA-1664A	GEL	/X/
<b>PPCB</b>										
PCB-1016	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1221	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1232	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1242	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1248	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1254	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/
PCB-1260	0.0966	ug/L	U		0.0966			SW846-8082A	GEL	/X/

**Paducah OREIS Report for ULS24-01**

PCB-1268	0.0966	ug/L	U	0.0966			SW846-8082A	GEL	/X/
Polychlorinated biphenyl	0.0966	ug/L	U	0.0966			SW846-8082A	GEL	/X/
<b>RADS</b>									
Alpha activity	-0.774	pCi/L	U	6.16	2.23	2.23	SW846-9310	GEL	/X/
Americium-241	-0.202	pCi/L	U	1.18	0.382	0.383	HASL 300, Am-05-RC M	GEL	/X/
Beta activity	2.79	pCi/L	U	9.44	5.35	5.37	SW846-9310	GEL	/X/
Cesium-137	1.17	pCi/L	U	1.8	1.52	1.52	EPA-901.1	GEL	/X/
Cobalt-60	-0.218	pCi/L	U	1.79	0.986	0.991	EPA-901.1	GEL	/X/
Neptunium-237	0.149	pCi/L	U	1.12	0.576	0.576	ASTM-1475-00M	GEL	/X/
Plutonium-239/240	-0.0836	pCi/L	U	0.965	0.37	0.37	HASL 300, Pu-11-RC M	GEL	/X/
Radium-226	0.467	pCi/L	U	0.499	0.397	0.398	AN-1418	GEL	/X/
Radium-228	0.961	pCi/L	U	4.6	2.56	2.57	EPA-904-M	GEL	/X/
Strontium-90	-1.18	pCi/L	U	7.11	3.54	3.54	EPA-905.0-M	GEL	/X/
Technetium-99	-11.9	pCi/L	U	22.6	12.1	12.1	HASL 300, Tc-02-RC M	GEL	/X/
Thorium-230	1.07	pCi/L	U	1.24	0.956	0.971	HASL 300, Th-01-RC M	GEL	/X/
Thorium-232	0.269	pCi/L	U	0.621	0.499	0.5	HASL 300, Th-01-RC M	GEL	/X/
Thorium-234	-22	pCi/L	U	47.8	37.9	39.5	EPA-901.1	GEL	/X/
Total Uranium	0.716	pCi/L	U	2.8	1.49	1.5	HASL 300, U-02-RC M	GEL	/X/
Tritium	28.5	pCi/L	U	217	123	123	EPA-906.0-M	GEL	/X/
Uranium-234	-0.0388	pCi/L	U	1.89	0.834	0.834	HASL 300, U-02-RC M	GEL	/X/
Uranium-235	0.0798	pCi/L	U	1.74	0.834	0.835	HASL 300, U-02-RC M	GEL	/X/
Uranium-238	0.636	pCi/L	U	1.11	0.917	0.922	HASL 300, U-02-RC M	GEL	/X/
<b>VOA</b>									
1,1,1,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0193	ug/L	U	0.0193			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
2-Butanone	103	ug/L		5			SW846-8260D	GEL	/X/
2-Hexanone	18.9	ug/L		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acetone	39	ug/L		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U	5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U	5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U	5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U	1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U	1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U	1			SW846-8260D	GEL	/X/

### Paducah OREIS Report for ULS24-01

cis-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U	5	SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U	2	SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U	5	SW846-8260D	GEL	/X/
Styrene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Toluene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U	3	SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U	1	SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U	1	SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U	1	SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U	5	SW846-8260D	GEL	/X/
Vinyl chloride	1	ug/L	U	1	SW846-8260D	GEL	/X/
<b>WETCHEM</b>							
Chemical Oxygen Demand (COD)	20	mg/L	U	20	EPA-410.4	GEL	/X/
Hardness - Total as CaCO3	2	mg/L	U	2	EPA-130.2	GEL	/X/
Iodide	0.5	mg/L	U	0.5	EPA-300.0	GEL	/X/
Total Organic Carbon (TOC)	1.15	mg/L	J	2	SW846-9060A	GEL	/X/

## Paducah OREIS Report for ULS24-01

Sample ID: <b>TBULS24-01</b>	Station: QC	Date Collected: 2/5/2024	MedType: WQ	SmpMethod:
Comments:				

Analysis	Results	Units	Result Qual	Foot Note	Reporting Limit	Counting Error	TPU**	Method	LabCode	V/V/A*
<b>VOA</b>										
1,1,1,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,1-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2,2-Tetrachloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1,2-Trichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,1-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2,3-Trichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dibromo-3-chloropropane	0.0194	ug/L	U		0.0194			SW846-8011	GEL	/X/
1,2-Dibromoethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dichloropropane	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,2-Dimethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
1,4-Dichlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
2-Butanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
2-Hexanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
4-Methyl-2-pentanone	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acetone	2.3	ug/L	J		5			SW846-8260D	GEL	/X/
Acrolein	5	ug/L	U		5			SW846-8260D	GEL	/X/
Acrylonitrile	5	ug/L	U		5			SW846-8260D	GEL	/X/
Benzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromodichloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromoform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Bromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Carbon disulfide	5	ug/L	U		5			SW846-8260D	GEL	/X/
Carbon tetrachloride	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chlorobenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloroform	1	ug/L	U		1			SW846-8260D	GEL	/X/
Chloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
cis-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromochloromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Dibromomethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Ethylbenzene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Iodomethane	5	ug/L	U		5			SW846-8260D	GEL	/X/
m,p-Xylene	2	ug/L	U		2			SW846-8260D	GEL	/X/
Methylene chloride	5	ug/L	U		5			SW846-8260D	GEL	/X/
Styrene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Tetrachloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Toluene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Total Xylene	3	ug/L	U		3			SW846-8260D	GEL	/X/
trans-1,2-Dichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,3-Dichloropropene	1	ug/L	U		1			SW846-8260D	GEL	/X/
trans-1,4-Dichloro-2-butene	5	ug/L	U		5			SW846-8260D	GEL	/X/
Trichloroethene	1	ug/L	U		1			SW846-8260D	GEL	/X/
Trichlorofluoromethane	1	ug/L	U		1			SW846-8260D	GEL	/X/
Vinyl acetate	5	ug/L	U		5			SW846-8260D	GEL	/X/

# Paducah OREIS Report for ULS24-01

Vinyl chloride

1

ug/L

U

1

SW846-8260D

GEL

/X/

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Thank you for submitting your information via the Kentucky Department for Environmental Protection eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after DEP Staff have reviewed your submittal.

The Submittal ID for this transaction is 422400 and was submitted by Myrna Redfield on April 15, 2024 09:02 AM Eastern Time. If you need to contact EEC regarding your submission, please reference your Submittal ID.

The eForm Submittal ID allows you to use the data from this submittal as a template and/or download a copy of your submittal.

**PLEASE NOTE: The submitted eForm(s) have items REQUIRING PAYMENT on our on-line ePay website. Your eForm is NOT COMPLETE WITHOUT PAYMENT!**

Division of Waste Management  
Solid Waste Branch  
Quarterly Waste Quantity Report - DEP 7046-Q  
Electronic Submittal

\*\*This eForm is not applicable to Transfer stations or Convenience Centers. Those reports still need to be sent in the mail.

**Agency/Site Information:**

<b>Agency Interest #(*)</b>	<b>Facility Name</b>	<b>Report for the Months of(*)</b> Jan, Feb, Mar	<b>Year(*)</b> 2024
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<b>County where landfill is located:</b>	<b>LandFill(*)</b> Contained Landfill(ACTV6)/07300045
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**CONTAINED LANDFILL** 

Editing the Grid: You may click in each cell to edit the value.  
You may navigate the grid items by using the tab and arrow keys or you may press the enter key to enable editing of a cell.

Total Tonnage : 402.74

**Total Fee :**

**\*Does not include waste used as Alternate Daily Cover.**

**\*\*Indicate the amount of waste used as Alternate Daily Cover. Please note this requires prior approval by the Cabinet.**

**For this calendar quarter, please check this box if no waste has been collected at the Solid Waste Disposal Facility.**

**Check this box if you elect to submit a check or money order instead of paying this fee online, or payment is not required for this activity type. Payments shall be made payable to the Kentucky State Treasurer, and mailed to:**

Division of Waste Management  
Solid Waste Branch  
300 Sower Blvd., Second Floor  
Frankfort, Kentucky 40601

<b>Certification:</b>			
<b>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.</b>			
<b>Signature: (*)</b>		<b>Pin (*)</b>	<b>Title: (*)</b>
<b>First Name: (*)</b>		<b>M.I.:</b>	<b>Last Name: (*)</b>
<b>eMail Address: (*)</b>	<b>Business Phone: (*)</b>	<b>Alternate Phone:</b>	<b>Signature Date: (*)</b>