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ANALYTICAL REPORT

PREPARED FOR

Attn: Karen Waters-Husted
 Central Plateau Cleanup Company LLC
 PO BOX 1464
 Richland, Washington 99352

Generated 5/1/2025 9:05:09 AM

JOB DESCRIPTION

W25-004
 KN41492-1

JOB NUMBER

140-41492-1

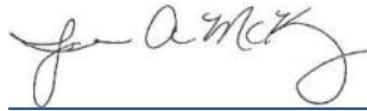
Eurofins Knoxville

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Laboratory Job ID: 140-41492-1
SDG: KN41492-1

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Definitions/Glossary

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Qualifiers

Dioxin

| Qualifier | Qualifier Description |
|-----------|--|
| B | Analyte was found in the associated method blank as well as in the sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Analyzed for but not detected. |
| X | See case narrative notes for explanation of the 'X' flag |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Central Plateau Cleanup Company LLC
Project: W25-004

Job ID: 140-41492-1

Job ID: 140-41492-1

Eurofins Knoxville

Job Narrative 140-41492-1

Receipt

The samples were received on 4/9/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Per client instructions, the firm responsible for delivery was filled in and dated by the sample receiving department on completion of the shipment. Relinquished date and time recorded is the same as laboratory receipt date and time.

Dioxin

Methods 0010/1668A, 1613B, 1668A, 1668C, 1699, 8290, 8290A: The identification of samples and analytes for which manual integrations were necessary is listed in the manual integration summary.

Method 8290A: An Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: (140-41506-A-4-A DU). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). These results are qualified with an "X".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Methods 8290, HRMS-Sepf: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: B4LHN3 (140-41492-1) and B4LFJ4 (140-41492-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

Client Sample ID: B4LHN3

Lab Sample ID: 140-41492-1

| Analyte | Result | Qualifier | RL | EDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|------|------|------|---------|---|--------|-----------|
| Total HxCDD | 0.78 | J B | 49.0 | 0.20 | pg/L | 1 | | 8290A | Total/NA |

Client Sample ID: B4LFJ4

Lab Sample ID: 140-41492-2

| Analyte | Result | Qualifier | RL | EDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|------|------|------|---------|---|--------|-----------|
| Total HxCDD | 0.59 | J B | 48.2 | 0.14 | pg/L | 1 | | 8290A | Total/NA |

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Client Sample ID: B4LHN3
Date Collected: 04/08/25 08:16
Date Received: 04/09/25 10:00

Lab Sample ID: 140-41492-1
Matrix: Water

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

| Analyte | Result | Qualifier | RL | EDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-------------|------------|----------|------|------|---|----------------|----------------|---------|
| 2,3,7,8-TCDD | 0.25 | U | 9.79 | 0.25 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total TCDD | 0.74 | U | 9.79 | 0.74 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total PeCDD | 0.27 | U | 49.0 | 0.27 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total HxCDD | 0.78 | J B | 49.0 | 0.20 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total TCDF | 0.25 | U | 9.79 | 0.25 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total PeCDF | 0.38 | U | 49.0 | 0.38 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Total HxCDF | 0.39 | U | 49.0 | 0.39 | pg/L | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C-2,3,7,8-TCDD | 63 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,7,8-PeCDD | 56 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,4,7,8-HxCDD | 69 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,6,7,8-HxCDD | 84 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDD | 77 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-OCDD | 78 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-2,3,7,8-TCDF | 66 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,7,8-PeCDF | 63 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-2,3,4,7,8-PeCDF | 61 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,4,7,8-HxCDF | 84 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,6,7,8-HxCDF | 79 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-2,3,4,6,7,8-HxCDF | 76 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,7,8,9-HxCDF | 81 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDF | 90 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-1,2,3,4,7,8,9-HpCDF | 82 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |
| 13C-OCDF | 71 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 15:38 | 1 |

Client Sample ID: B4LFJ4
Date Collected: 04/08/25 10:49
Date Received: 04/09/25 10:00

Lab Sample ID: 140-41492-2
Matrix: Water

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

| Analyte | Result | Qualifier | RL | EDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-------------|------------|----------|------|------|---|----------------|----------------|---------|
| 2,3,7,8-TCDD | 0.18 | U | 9.64 | 0.18 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total TCDD | 0.18 | U | 9.64 | 0.18 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total PeCDD | 0.15 | U | 48.2 | 0.15 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total HxCDD | 0.59 | J B | 48.2 | 0.14 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total TCDF | 0.18 | U | 9.64 | 0.18 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total PeCDF | 0.19 | U | 48.2 | 0.19 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Total HxCDF | 0.61 | U | 48.2 | 0.61 | pg/L | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C-2,3,7,8-TCDD | 64 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,7,8-PeCDD | 51 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,4,7,8-HxCDD | 64 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,6,7,8-HxCDD | 75 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDD | 75 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-OCDD | 73 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-2,3,7,8-TCDF | 64 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,7,8-PeCDF | 59 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-2,3,4,7,8-PeCDF | 57 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,4,7,8-HxCDF | 76 | | 40 - 135 | | | | 04/14/25 11:34 | 04/28/25 16:38 | 1 |

Client Sample Results

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

Client Sample ID: B4LFJ4

Lab Sample ID: 140-41492-2

Date Collected: 04/08/25 10:49

Matrix: Water

Date Received: 04/09/25 10:00

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 13C-1,2,3,6,7,8-HxCDF | 71 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-2,3,4,6,7,8-HxCDF | 72 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,7,8,9-HxCDF | 75 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDF | 79 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-1,2,3,4,7,8,9-HpCDF | 79 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |
| 13C-OCDF | 66 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 16:38 | 1 |

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Default Detection Limits

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Prep: 8290

| Analyte | RL | |
|--------------|-----------|------|
| 2,3,7,8-TCDD | 10.0 pg/L | pg/L |
| Total HxCDD | 50.0 pg/L | pg/L |
| Total HxCDF | 50.0 pg/L | pg/L |
| Total PeCDD | 50.0 pg/L | pg/L |
| Total PeCDF | 50.0 pg/L | pg/L |
| Total TCDD | 10.0 pg/L | pg/L |
| Total TCDF | 10.0 pg/L | pg/L |

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Isotope Dilution Summary

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | TCDD (40-135) | PeCDD (40-135) | HxCDD (40-135) | HxDD (40-135) | HpCDD (40-135) | OCDD (40-135) | TCDF (40-135) | PeCDF (40-135) |
|--------------------|--------------------|------------------|-------------------|-------------------|------------------|-------------------|------------------|------------------|-------------------|
| 140-41492-1 | B4LHN3 | 63 | 56 | 69 | 84 | 77 | 78 | 66 | 63 |
| 140-41492-2 | B4LFJ4 | 64 | 51 | 64 | 75 | 75 | 73 | 64 | 59 |
| 140-41506-A-4-A DU | Duplicate | 50 | 39 X | 48 | 58 | 56 | 55 | 49 | 45 |
| LCS 140-98327/15-A | Lab Control Sample | 55 | 47 | 60 | 70 | 72 | 73 | 54 | 52 |
| MB 140-98327/16-A | Method Blank | 61 | 56 | 65 | 78 | 83 | 76 | 64 | 61 |

Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | PeCF (40-135) | HxCDF (40-135) | HxDF (40-135) | ¹³ CHxCF (40-135) | HxCF (40-135) | HpCDF (40-135) | HpCDF2 (40-135) | OCDF (40-135) |
|--------------------|--------------------|------------------|-------------------|------------------|---------------------------------|------------------|-------------------|--------------------|------------------|
| 140-41492-1 | B4LHN3 | 61 | 84 | 79 | 76 | 81 | 90 | 82 | 71 |
| 140-41492-2 | B4LFJ4 | 57 | 76 | 71 | 72 | 75 | 79 | 79 | 66 |
| 140-41506-A-4-A DU | Duplicate | 44 | 58 | 56 | 56 | 58 | 61 | 54 | 49 |
| LCS 140-98327/15-A | Lab Control Sample | 52 | 70 | 67 | 69 | 69 | 77 | 69 | 62 |
| MB 140-98327/16-A | Method Blank | 61 | 76 | 72 | 77 | 72 | 81 | 75 | 61 |

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- PeCDD = 13C-1,2,3,7,8-PeCDD
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- OCDD = 13C-OCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDF = 13C-1,2,3,7,8-PeCDF
- PeCF = 13C-2,3,4,7,8-PeCDF
- HxCDF = 13C-1,2,3,4,7,8-HxCDF
- HxDF = 13C-1,2,3,6,7,8-HxCDF
- ¹³CHxCF = 13C-2,3,4,6,7,8-HxCDF
- HxCF = 13C-1,2,3,7,8,9-HxCDF
- HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
- HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
- OCDF = 13C-OCDF

QC Sample Results

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 140-98327/16-A
Matrix: Water
Analysis Batch: 98900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98327

| Analyte | MB Result | MB Qualifier | RL | EDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| 2,3,7,8-TCDD | 0.32 | U | 10.0 | 0.32 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total TCDD | 0.43 | U | 10.0 | 0.43 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total PeCDD | 0.32 | U | 50.0 | 0.32 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total HxCDD | 2.836 | J | 50.0 | 0.19 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total TCDF | 0.29 | U | 10.0 | 0.29 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total PeCDF | 0.39 | U | 50.0 | 0.39 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| Total HxCDF | 0.68 | U | 50.0 | 0.68 | pg/L | | 04/14/25 11:34 | 04/28/25 07:29 | 1 |

| Isotope Dilution | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 13C-2,3,7,8-TCDD | 61 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,7,8-PeCDD | 56 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,4,7,8-HxCDD | 65 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,6,7,8-HxCDD | 78 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDD | 83 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-OCDD | 76 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-2,3,7,8-TCDF | 64 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,7,8-PeCDF | 61 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-2,3,4,7,8-PeCDF | 61 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,4,7,8-HxCDF | 76 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,6,7,8-HxCDF | 72 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-2,3,4,6,7,8-HxCDF | 77 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,7,8,9-HxCDF | 72 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,4,6,7,8-HpCDF | 81 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-1,2,3,4,7,8,9-HpCDF | 75 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |
| 13C-OCDF | 61 | | 40 - 135 | 04/14/25 11:34 | 04/28/25 07:29 | 1 |

Lab Sample ID: LCS 140-98327/15-A
Matrix: Water
Analysis Batch: 98900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98327

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------|-------------|------------|---------------|------|---|------|-------------|
| 2,3,7,8-TCDD | 200 | 172.1 | | pg/L | | 86 | 71 - 125 |
| 1,2,3,7,8-PeCDD | 1000 | 957.5 | | pg/L | | 96 | 76 - 121 |
| 1,2,3,4,7,8-HxCDD | 1000 | 937.4 | | pg/L | | 94 | 80 - 126 |
| 1,2,3,6,7,8-HxCDD | 1000 | 840.9 | | pg/L | | 84 | 78 - 134 |
| 1,2,3,7,8,9-HxCDD | 1000 | 958.1 | | pg/L | | 96 | 76 - 137 |
| 2,3,7,8-TCDF | 200 | 176.6 | | pg/L | | 88 | 72 - 138 |
| 1,2,3,7,8-PeCDF | 1000 | 939.6 | | pg/L | | 94 | 82 - 130 |
| 2,3,4,7,8-PeCDF | 1000 | 951.5 | | pg/L | | 95 | 77 - 129 |
| 1,2,3,4,7,8-HxCDF | 1000 | 802.6 | | pg/L | | 80 | 80 - 130 |
| 1,2,3,6,7,8-HxCDF | 1000 | 840.6 | | pg/L | | 84 | 79 - 131 |
| 2,3,4,6,7,8-HxCDF | 1000 | 889.3 | | pg/L | | 89 | 81 - 130 |
| 1,2,3,7,8,9-HxCDF | 1000 | 828.8 | | pg/L | | 83 | 83 - 130 |

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------|---------------|---------------|----------|
| 13C-2,3,7,8-TCDD | 55 | | 40 - 135 |
| 13C-1,2,3,7,8-PeCDD | 47 | | 40 - 135 |
| 13C-1,2,3,4,7,8-HxCDD | 60 | | 40 - 135 |
| 13C-1,2,3,6,7,8-HxCDD | 70 | | 40 - 135 |

QC Sample Results

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 140-98327/15-A
 Matrix: Water
 Analysis Batch: 98900

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 98327

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| 13C-1,2,3,4,6,7,8-HpCDD | 72 | | 40 - 135 |
| 13C-OCDD | 73 | | 40 - 135 |
| 13C-2,3,7,8-TCDF | 54 | | 40 - 135 |
| 13C-1,2,3,7,8-PeCDF | 52 | | 40 - 135 |
| 13C-2,3,4,7,8-PeCDF | 52 | | 40 - 135 |
| 13C-1,2,3,4,7,8-HxCDF | 70 | | 40 - 135 |
| 13C-1,2,3,6,7,8-HxCDF | 67 | | 40 - 135 |
| 13C-2,3,4,6,7,8-HxCDF | 69 | | 40 - 135 |
| 13C-1,2,3,7,8,9-HxCDF | 69 | | 40 - 135 |
| 13C-1,2,3,4,6,7,8-HpCDF | 77 | | 40 - 135 |
| 13C-1,2,3,4,7,8,9-HpCDF | 69 | | 40 - 135 |
| 13C-OCDF | 62 | | 40 - 135 |

Lab Sample ID: 140-41506-A-4-A DU
 Matrix: Water
 Analysis Batch: 98928

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 98327

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|--------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| 2,3,7,8-TCDD | 0.28 | U | 0.26 | U | pg/L | | NC | 15 |
| Total TCDD | 0.28 | U | 0.26 | U | pg/L | | NC | |
| Total PeCDD | 0.35 | U | 0.25 | U | pg/L | | NC | |
| Total HxCDD | 0.78 | J B | 0.732 | J B | pg/L | | 6 | |
| Total TCDF | 0.27 | U | 0.19 | U | pg/L | | NC | |
| Total PeCDF | 0.30 | U | 0.35 | U | pg/L | | NC | |
| Total HxCDF | 0.50 | U | 0.69 | U | pg/L | | NC | |

| Isotope Dilution | DU %Recovery | DU Qualifier | Limits |
|-------------------------|--------------|--------------|----------|
| 13C-2,3,7,8-TCDD | 50 | | 40 - 135 |
| 13C-1,2,3,7,8-PeCDD | 39 | X | 40 - 135 |
| 13C-1,2,3,4,7,8-HxCDD | 48 | | 40 - 135 |
| 13C-1,2,3,6,7,8-HxCDD | 58 | | 40 - 135 |
| 13C-1,2,3,4,6,7,8-HpCDD | 56 | | 40 - 135 |
| 13C-OCDD | 55 | | 40 - 135 |
| 13C-2,3,7,8-TCDF | 49 | | 40 - 135 |
| 13C-1,2,3,7,8-PeCDF | 45 | | 40 - 135 |
| 13C-2,3,4,7,8-PeCDF | 44 | | 40 - 135 |
| 13C-1,2,3,4,7,8-HxCDF | 58 | | 40 - 135 |
| 13C-1,2,3,6,7,8-HxCDF | 56 | | 40 - 135 |
| 13C-2,3,4,6,7,8-HxCDF | 56 | | 40 - 135 |
| 13C-1,2,3,7,8,9-HxCDF | 58 | | 40 - 135 |
| 13C-1,2,3,4,6,7,8-HpCDF | 61 | | 40 - 135 |
| 13C-1,2,3,4,7,8,9-HpCDF | 54 | | 40 - 135 |
| 13C-OCDF | 49 | | 40 - 135 |

QC Association Summary

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

Specialty Organics

Prep Batch: 98327

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 140-41492-1 | B4LHN3 | Total/NA | Water | 8290 | |
| 140-41492-2 | B4LFJ4 | Total/NA | Water | 8290 | |
| MB 140-98327/16-A | Method Blank | Total/NA | Water | 8290 | |
| LCS 140-98327/15-A | Lab Control Sample | Total/NA | Water | 8290 | |
| 140-41506-A-4-A DU | Duplicate | Total/NA | Water | 8290 | |

Analysis Batch: 98900

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 140-98327/16-A | Method Blank | Total/NA | Water | 8290A | 98327 |
| LCS 140-98327/15-A | Lab Control Sample | Total/NA | Water | 8290A | 98327 |

Analysis Batch: 98928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------|-----------|--------|--------|------------|
| 140-41492-1 | B4LHN3 | Total/NA | Water | 8290A | 98327 |
| 140-41492-2 | B4LFJ4 | Total/NA | Water | 8290A | 98327 |
| 140-41506-A-4-A DU | Duplicate | Total/NA | Water | 8290A | 98327 |

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Lab Chronicle

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Client Sample ID: B4LHN3
Date Collected: 04/08/25 08:16
Date Received: 04/09/25 10:00

Lab Sample ID: 140-41492-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8290 | | | 1021 mL | 20 uL | 98327 | 04/14/25 11:34 | CMS | EET KNX |
| Total/NA | Analysis | 8290A | | 1 | | | 98928 | 04/28/25 15:38 | MSP | EET KNX |
| Instrument ID: D4A | | | | | | | | | | |

Client Sample ID: B4LFJ4
Date Collected: 04/08/25 10:49
Date Received: 04/09/25 10:00

Lab Sample ID: 140-41492-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8290 | | | 1037.6 mL | 20 uL | 98327 | 04/14/25 11:34 | CMS | EET KNX |
| Total/NA | Analysis | 8290A | | 1 | | | 98928 | 04/28/25 16:38 | MSP | EET KNX |
| Instrument ID: D4A | | | | | | | | | | |

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-98327/16-A
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8290 | | | 1000 mL | 20 uL | 98327 | 04/14/25 11:34 | CMS | EET KNX |
| Total/NA | Analysis | 8290A | | 1 | | | 98900 | 04/28/25 07:29 | MSP | EET KNX |
| Instrument ID: D4A | | | | | | | | | | |

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-98327/15-A
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8290 | | | 1000 mL | 20 uL | 98327 | 04/14/25 11:34 | CMS | EET KNX |
| Total/NA | Analysis | 8290A | | 1 | | | 98900 | 04/28/25 11:29 | MSP | EET KNX |
| Instrument ID: D4A | | | | | | | | | | |

Client Sample ID: Duplicate
Date Collected: N/A
Date Received: N/A

Lab Sample ID: 140-41506-A-4-A DU
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 8290 | | | 1042.1 mL | 20 uL | 98327 | 04/14/25 11:34 | CMS | EET KNX |
| Total/NA | Analysis | 8290A | | 1 | | | 98928 | 04/28/25 21:37 | MSP | EET KNX |
| Instrument ID: D4A | | | | | | | | | | |

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

Laboratory: Eurofins Knoxville

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|-----------------|-----------------------|-----------------|
| ANAB | Dept. of Energy | L2311.01 | 02-13-27 |

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Method Summary

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| 8290A | Dioxins and Furans (HRGC/HRMS) | SW846 | EET KNX |
| 8290 | Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans | SW846 | EET KNX |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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Sample Summary

Client: Central Plateau Cleanup Company LLC
Project/Site: W25-004

Job ID: 140-41492-1
SDG: KN41492-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 140-41492-1 | B4LHN3 | Water | 04/08/25 08:16 | 04/09/25 10:00 |
| 140-41492-2 | B4LFJ4 | Water | 04/08/25 10:49 | 04/09/25 10:00 |

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Manual Integrations

Client: Central Plateau Cleanup Company LLC
 Project/Site: W25-004

Job ID: 140-41492-1
 SDG: KN41492-1

Client Sample ID: 140-41506-A-4-A DU

Lab Sample ID: 140-41506-A-4-A DU
 Matrix: Water

| Analysis Method | Analyte Name | Analysis Date | Manual Integration | | |
|-----------------|-------------------|----------------|--------------------|--|----------|
| | | | Date | Analyst | Reason |
| 8290A | 1,2,3,4,7,8-HxCDD | 04/28/25 21:37 | 04/29/25 01:04 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |
| 8290A | 1,2,3,6,7,8-HxCDD | 04/28/25 21:37 | 04/29/25 01:04 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |
| 8290A | 1,2,3,7,8,9-HxCDD | 04/28/25 21:37 | 04/29/25 01:04 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |

Client Sample ID: MB 140-98327/16-A

Lab Sample ID: MB 140-98327/16-A
 Matrix: Water

| Analysis Method | Analyte Name | Analysis Date | Manual Integration | | |
|-----------------|-------------------|----------------|--------------------|--|----------|
| | | | Date | Analyst | Reason |
| 8290A | 1,2,3,4,7,8-HxCDD | 04/28/25 07:29 | 04/28/25 09:22 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |
| 8290A | 1,2,3,6,7,8-HxCDD | 04/28/25 07:29 | 04/28/25 09:22 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |
| 8290A | 1,2,3,7,8,9-HxCDD | 04/28/25 07:29 | 04/28/25 09:22 | AC4B1DA8-335B-4 E8B-AD32-AFFE84 B57A78 | Baseline |

| | | | | | | | | |
|--|---------------|---|-------------|---|---------------------------|---------------------------------|---------------------|---------------------|
| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C. # W25-004-326 | | |
| | | | | | | PAGE 1 OF 1 | | |
| Collector: Anthony Noggles / CPCC | | Contact/Requester: Karen Waters-Husted | | Telephone No.: 509-376-4650 | | | | |
| SAF No.: W25-004 | | Sampling Origin: Hanford Site | | Purchase Order/Charge Code: 901852 | | | | |
| Project Title: RCRA, April 2025 | | Logbook No.: HNF-N-506 146-64 | | Ice Chest No.: 880400691663 | | | | |
| Shipped To (Lab): TestAmerica Knoxville | | Method of Shipment: Commercial Carrier | | Bill of Lading/Air Bill No.: | | | | |
| Protocol: RCRA | | Priority: 30 Days | | Offsite Property No.: N/A | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1 | | | | SPECIAL INSTRUCTIONS N/A | | | | |
| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservation |
| B4LHN3 | N | | APR 08 2025 | 0816 | 4x1-L aG | 8290_DIOXINS_GCMS_APP_5: COMMON | 30/45 Days | Cool <=6C |

Custody Seal Intact
 Received at RT: 0.2/CT: 0.3°C
 DH 4/9/25
 1 Cooler FedEx 880400691663 Po



140-41492 Chain of Custody

SDG#KN41492-1

| Relinquished By | | | Received By | | | Matrix * | |
|----------------------------------|---|------------------|----------------------------------|--------------------|----------------------|-------------------|-------------------|
| <i>Print First and Last Name</i> | <i>Signature</i> | <i>Date/Time</i> | <i>Print First and Last Name</i> | <i>Signature</i> | <i>Date/Time</i> | S = Soil | DS = Drum Solids |
| Anthony Noggles / CPCC | <i>[Signature]</i> | APR 08 2025 0915 | Bob Parks / CPCC | <i>[Signature]</i> | APR 08 2025 0915 | SE = Sediment | DL = Drum Liquids |
| Bob Parks / CPCC | <i>[Signature]</i> | APR 08 2025 1400 | FEDEX | | | SO = Solid | T = Tissue |
| <i>Fed Ex</i> | <i>Entered By:</i> | | <i>Deanna Hickson</i> | <i>[Signature]</i> | ETA KUX 4/9/25 10:00 | SL = Sludge | WI = Wipe |
| 4/9/25 10:00 | Eurofins OH | 4/9/25 10:00 | | | | W = Water | L = Liquid |
| | | | | | | O = Oil | V = Vegetation |
| | | | | | | A = Air | X = Other |
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process): | | | | Disposed By: | Date/Time: | |



52/165

| | | | | | | | | |
|--|---------------|---|------------------------------------|--|--------------------------------|---------------------------------|---------------------|---------------------|
| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | C.O.C. # W25-004-327 | | | |
| | | PAGE 1 OF 1 | | | | | | |
| Collector: Anthony Noggles / CPCC | | Contact/Requester: Karen Waters-Husted | | Telephone No.: 509-376-4650 | | | | |
| SAF No.: W25-004 | | Sampling Origin: Hanford Site | | Purchase Order/Charge Code: 901852 | | | | |
| Project Title: RCRA, April 2025 | | Logbook No.: HNF-N-506 146-64 | | Ice Chest No.: CWS-800 | | | | |
| Shipped To (Lab): TestAmerica Knoxville | | Method of Shipment: Commercial Carrier | | Bill of Lading/Air Bill No.: 8804 0069 1603 | | | | |
| Protocol: RCRA | | Priority: 30 Days | | Offsite Property No.: N/A | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1 | | | SPECIAL INSTRUCTIONS N/A | | | | | |
| Sample No. | Filter | * | Date | Time | No./Type Container | Sample Analysis | Holding Time | Preservation |
| B4LFJ4 | N | W | APR 08 2025 | 1649 | 4x1-L aG | 8290_DIOXINS_GCMS_APP_5: COMMON | 30/45 Days | Cool <=6C |

SDG# KN41492-1

| Relinquished By | | | Received By | | | Matrix * | | |
|----------------------------------|------------------|---|----------------------------------|------------------|-----------------------|---------------|-------------------|------------|
| <i>Print First and Last Name</i> | <i>Signature</i> | <i>Date/Time</i> | <i>Print First and Last Name</i> | <i>Signature</i> | <i>Date/Time</i> | S = Soil | DS = Drum Solids | |
| Anthony Noggles / CPCC | | APR 08 2025 1115 | Bob Parks / CPCC | | APR 08 2025 1115 | SE = Sediment | DL = Drum Liquids | |
| Bob Parks / CPCC | | APR 08 2025 1400 | FEDEX | | | SO = Solid | T = Tissue | |
| Fed Ex | Entered By: | 4/19/25 10:00 | Dianna Hickson | | ETA KHX 4/19/25 10:00 | SL = Sludge | WI = Wipe | |
| 4/19/25 10:00 | | | | | | W = Water | L = Liquid | |
| | | | | | | O = Oil | V = Vegetation | |
| | | | | | | A = Air | X = Other | |
| FINAL SAMPLE DISPOSITION | | Disposal Method (e.g., Return to customer, per lab procedure, used in process): | | | | Disposed By: | | Date/Time: |

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5/1/2025
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KN41492-1

May 1, 2025

Rev. 0



| SAMPLE ISSUE RESOLUTION (SIR) REPORT | | |
|---|---|----------------------------|
| NOTE: Complete form in accordance with SGRP-PRO-SMP-50015 , <i>Sample Management and Reporting Sample Issued Resolution and Problem and Discrepancy Process</i> | | |
| SIR Number: SIR25-0255 | Rev. Number: 1 | Date Initiated: 05/01/2025 |
| Sample Event Information | | |
| SAF Number(s): | W25-004 | |
| Laboratory: | TAKN | |
| Sampling Information | | |
| Number of Samples: | 5 | |
| Sample Number(s): | B4LF13, B4LFJ4, B4LH34, B4LHF9, B4LHN3 | |
| Sample Matrix: | WATER | |
| SDG Number(s): | KN41481-1, KN41492-1, KN41506-1 | |
| Issue Background | | |
| Class: | Laboratory Issue | |
| Type: | Quality Control Failure | |
| Description: | <p>The duplicate of sample B4HF9 (140-41506-4) had a low recovery for IDA 13C-1,2,3,7,8-PeCDD. The recovery was 39% vs 40% passing criteria. This duplicate impacted three reports, KN41481-1, KN41492-1, and KN41506-1.</p> <p>Revised to add two other packages that were impacted by this duplicate.</p> | |
| Resolution | | |
| Proposed Resolution: | Please proceed with reporting, flagging and narrating as appropriate. | |
| Final Resolution: | Please see proposed resolution. | |
| Submitted By: | | |
| MCKINNEY, JA | | 05/01/2025 |
| <i>Print First and Last Name</i> | | <i>Date</i> |
| Accepted By: | | |
| FINLEY, ERIC A. | | 05/01/2025 |
| <i>Print First and Last Name</i> | | <i>Date</i> |

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