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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Heather Medley  
 Central Plateau Cleanup Company LLC  
 PO BOX 1464  
 Richland, Washington 99352

Generated 4/30/2025 6:08:04 PM

## JOB DESCRIPTION

T25-037  
 SL57735-1

## JOB NUMBER

160-57735-1

# Eurofins St. Louis

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Authorized for release by  
Jayna Awalt, Senior Project Manager  
[Jayna.Awalt@et.eurofinsus.com](mailto:Jayna.Awalt@et.eurofinsus.com)  
(314)298-8566

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Laboratory Job ID: 160-57735-1  
SDG: SL57735-1



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## Case Narrative

Client: Central Plateau Cleanup Company LLC  
Project: T25-037

Job ID: 160-57735-1

### Job ID: 160-57735-1

Eurofins St. Louis

SDG : SL57735-1  
Number of Samples : 6  
Sample Matrix : Water  
Data Deliverable : Summary  
Date SDG Closed : April 11, 2025

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins TestAmerica attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

For Metals analyses performed in St. Louis, per standard practice, 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate a narrative note; however, they are flagged "D" due to a limitation in the LIMS.

For volatile organic analysis, several analytes are considered poor performers and may not meet client QC limits. Per SMO direction, excursions outside the client's requested limits will include a non-conformance in the sections below.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** – For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** – For organic analyses, Method Blank contamination. The Method Blank contains the target analyte above the MDL/RL, and Method Blank is greater than 5% of the sample concentration.
- **B** – For inorganics and radiochemistry, Method Blank reported above the MDC/MDL.
- **J** – For organic analyses, the sample is estimated and less than the RL. If on Method Blank, indicates Method Blank contamination.
- **C** – For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL and Method Blank concentration is greater than 5% of the sample concentration.
- **D** – For all analyses, the sample result was obtained from the analysis of a dilution. For ICPMS Metals analyses in St. Louis only, per standard practice, all samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner and will not be narrated below. Only dilutions above 2x will be

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## Case Narrative

Client: Central Plateau Cleanup Company LLC  
Project: T25-037

Job ID: 160-57735-1

### Job ID: 160-57735-1 (Continued)

Eurofins St. Louis

narrated and considered a true dilution for these samples.

- **N** – For inorganics, the spike/spike duplicate recoveries are outside QC limits.
- **T** – For GCMS analysis, the spike/spike duplicate recoveries are outside QC limits.
- **O** – For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **X**- Organics – Sample concentration over calibration and/or surrogate recovery outside QC limits.
- **X** - Inorganics – The analyte present in the original sample is > 4x the spike concentration.
- **X** - Radiochemistry – Carrier or Tracer recovery is outside limits.
- **Z** - Sample was prepped or analyzed beyond the specified sample holding time.
- **y** – RPD is outside established limits.

#### Receipt

The samples were received on 4/11/2025 8:20 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 time was -1.1°C.

#### Method 6020B - Metals (ICP/MS) - Total and Dissolved

Samples B4LDN9 (160-57735-1), B4LDT1 (160-57735-3) and B4LDT0 (160-57735-5) were analyzed for Metals (ICP/MS). The samples were prepared on 4/16/2025 and analyzed on 4/17/2025 and 4/21/2025. Samples B4LDP1 (160-57735-2), B4LDT5 (160-57735-4) and B4LDT4 (160-57735-6) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 4/16/2025 and analyzed on 4/17/2025 and 4/21/2025.

ICPMS Metals Analytical Batch 713680:

Due to the high concentration of uranium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-712818 and analytical batch 160-713680 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-57735-A-1-B MS) and (160-57735-A-1-C MSD)

The post digestion spike % recovery for uranium associated with batch 160-713680 was outside of control limits. The associated sample is: (160-57735-A-2-A PDS).

The following samples were diluted to bring the concentration of target analytes within the calibration range: B4LDN9 (160-57735-1), B4LDP1 (160-57735-2), B4LDT1 (160-57735-3), B4LDT5 (160-57735-4), B4LDT0 (160-57735-5), B4LDT4 (160-57735-6), (160-57735-A-1-B MS), (160-57735-A-1-C MSD), (160-57735-A-1-A SD) and (160-57735-A-2-A PDS). Elevated reporting limits (RLs) are provided.

#### Method 906.0 - Tritium, Total (LSC)

Samples B4LDT1 (160-57735-3) and B4LDT0 (160-57735-5) were analyzed for Tritium, Total (LSC). The samples were prepared on 4/18/2025 and analyzed on 4/19/2025.

Tritium Prep Batch 713207:

The following samples have a relative percent difference (RPD) result outside of the acceptance criteria of 20% (91%): (160-57699-B-5-C DU). Duplicate precision is demonstrated by acceptable replicate error ratio (RER), within the limit of 1.

Due to a timing error there is no daily check prior to counting the samples. However the included previous daily check which was performed within 24 hours of the batch start count time showing instrument performance accuracy. B4LDT1 (160-57735-3), B4LDT0 (160-57735-5), (LCS 160-713207/3-A), (MB 160-713207/2-A), (160-57699-B-5-A), (160-57699-B-5-C DU), (160-57699-B-6-A) and (160-57699-B-6-C MS)

#### Method TC-02-RC - Technetium-99 (LSC)

Samples B4LDT1 (160-57735-3) and B4LDT0 (160-57735-5) were analyzed for Technetium-99 (LSC). The samples were prepared on 4/14/2025 and analyzed on 4/18/2025.

Technetium-99 Prep Batch 712290:

The following samples have a relative percent difference (RPD) result outside of the acceptance criteria of 20% (358%): (160-57599-A-2-B DU). Duplicate precision is demonstrated by acceptable replicate error ratio (RER), within the limit of 1.

Due to a timing error there is no daily check prior to counting the samples. However the included previous daily check which was performed within 24 hours of the batch start count time showing instrument performance accuracy. B4LDT1 (160-57735-3), B4LDT0 (160-57735-5), (LCS 160-712290/3-A), (MB 160-712290/2-A), (160-57599-A-2-A) and (160-57599-A-2-B DU)

The detection goal was not met for the following samples due to a shortened count time, which can be attributed to high activity: B4LDT1 (160-57735-3) and B4LDT0 (160-57735-5). Analytical results are reported with the detection limit achieved.

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### Case Narrative

Client: Central Plateau Cleanup Company LLC  
Project: T25-037

Job ID: 160-57735-1

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**Job ID: 160-57735-1 (Continued)**

**Eurofins St. Louis**

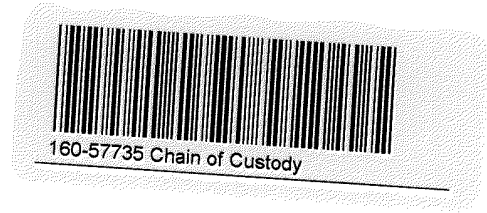
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, all deviations, from either the analyses requested, or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:  
Casey Robertson  
St. Louis Project Manager

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Central Plateau Cleanup Company		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>T25-037-035</b>		
						PAGE 1 OF 1		
<b>Collector:</b> Kevin Patterson / CPCC			<b>Contact/Requester:</b> Karen Waters-Husted			<b>Telephone No.:</b> 509-376-4650		
<b>SAF No.:</b> T25-037			<b>Sampling Origin:</b> Hanford Site			<b>Purchase Order/Charge Code:</b> 901802		
<b>Project Title:</b> 200-DV-1 Perched Water, April 2025			<b>Logbook No.:</b> HNF-N-506 144			<b>Ice Chest No.:</b> GWS-301		
<b>Shipped To (Lab):</b> TestAmerica St. Louis			<b>Method of Shipment:</b> Commercial Carrier			<b>Bill of Lading/Air Bill No.:</b> 8500 6175 8040		
<b>Protocol:</b> CERCLA			<b>Priority:</b> 30 Days			<b>Offsite Property No.:</b> N/A		
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> ** ** 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					<b>SPECIAL INSTRUCTIONS</b> THIS SAF IS NOT TO BE PUT IN AN SDG WITH OTHER SAFS.			
<b>Sample No.</b>	<b>Filter</b>	<b>*</b>	<b>Date</b>	<b>Time</b>	<b>No./Type Container</b>	<b>Sample Analysis</b>	<b>Holding Time</b>	<b>Preservation</b>
B4LDN9	N	W	APR 10 2025	0830	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2
B4LDP1	Y	W	APR 10 2025	0830	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2



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April 30, 2025

<b>Relinquished By</b>			<b>Received By</b>			<b>Matrix *</b>	
<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	
Kevin Patterson / CPCC		APR 10 2025 0830	Kevin Hamilton / CPCC		APR 10 2025 0830	SE = Sediment DL = Drum Liquids	
Kevin Hamilton / CPCC		APR 10 2025 1400	<b>FED EX</b>			SO = Solid T = Tissue	
			<i>Sierra Worthington</i> 4/11/25 0820			SL = Sludge WI = Wipe	
			<b>Sierra Worthington</b>			W = Water L = Liquid	
						O = Oil V = Vegetation	
						A = Air X = Other	
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method (e.g., Return to customer, per lab procedure, used in process):				Disposed By:	
						Date/Time:	

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<b>Central Plateau Cleanup Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b> <span style="float: right; border: 1px solid black; border-radius: 50%; padding: 2px;">92115</span>	C.O.C. #	<b>T25-037-031</b>
		PAGE 1 OF 1	

<b>Collector:</b> Kevin Patterson / CPCC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> T25-037	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 901802
<b>Project Title:</b> 200-DV-1 Perched Water, April 2025	<b>Logbook No.:</b> HNF-N-506 <span style="border: 1px solid black; padding: 2px;">144</span>	<b>Ice Chest No.:</b> GWS-301
<b>Shipped To (Lab):</b> TestAmerica St. Louis	<b>Method of Shipment:</b> Commercial Carrier	<b>Bill of Lading/Air Bill No.:</b> 48024 6175 8000
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

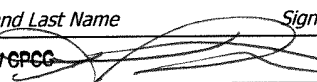
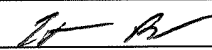
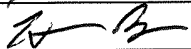
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	<b>SPECIAL INSTRUCTIONS</b> THIS SAF IS NOT TO BE PUT IN AN SDG WITH OTHER SAFS.
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Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4LDT1	N	W	APR 10 2025	0910	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2
B4LDT1	N	W			3x1-L G/P	SMR_TC99_LSC	6 Months	HNO3 to pH <2
B4LDT1	N	W			1x500-mL G/P	SMR_TRITIUM_LSC	6 Months	None
B4LDT5	Y	W	APR 10 2025	0910	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2

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April 30, 2025

Relinquished By	Received By	Matrix *
Print First and Last Name: Kevin Patterson / CPCC Signature:  Date/Time: APR 10 2025 1014	Print First and Last Name: Harvey Brown/CPCC Signature:  Date/Time: APR 10 2025 1014	S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquids SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other
Harvey Brown/CPCC Signature:  Date/Time: APR 10 2025 1400 FED EX	FEDEX Sierra Worthington Date/Time: 4/11/25 0820	
	Sierra Worthington	
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By: _____ Date/Time: _____

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Rev. 0





Central Plateau Cleanup Company		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C. # <b>T25-037-030</b>
				PAGE 1 OF 1
<b>Collector:</b> Kevin Patterson / CPCC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650		
<b>SAF No.:</b> T25-037	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 901802		
<b>Project Title:</b> 200-DV-1 Perched Water, April 2025	<b>Logbook No.:</b> HNF-N-506 144	<b>Ice Chest No.:</b> CWB-301		
<b>Shipped To (Lab):</b> TestAmerica St. Louis	<b>Method of Shipment:</b> Commercial Carrier	<b>Bill of Lading/Air Bill No.:</b> 88046175 8040		
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> 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**  
 THIS SAF IS NOT TO BE PUT IN AN SDG WITH OTHER SAFS.

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservation
B4LDT0	N	W	APR 10 2025	0910	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2
B4LDT0	N	W			3x1-L G/P	SMR_TC99_LSC	6 Months	HNO3 to pH <2
B4LDT0	N	W			1x500-mL G/P	SMR_TRITIUM_LSC	6 Months	None
B4LDT4	Y	W	APR 10 2025	0910	1x500-mL G/P	SMR_GW6020_CHROMIUM; SMR_GW6020_URANIUM	6 Months	HNO3 to pH <2

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April 30, 2025

<b>Relinquished By</b>			<b>Received By</b>			<b>Matrix *</b> S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquids SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other	
<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>		
Kevin Patterson / CPCC		APR 10 2025 1014	Harvey Brown / CPCCo		APR 10 2025 1014		
Harvey Brown / CPCCo		APR 10 2025 1400	FED EX		4/11/25 0820		
			Sierra Worthington				
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):				Disposed By:	Date/Time:	

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### Login Sample Receipt Checklist

Client: Central Plateau Cleanup Company LLC

Job Number: 160-57735-1

SDG Number: SL57735-1

**Login Number: 57735**

**List Number: 1**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Definitions/Glossary

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Job ID: 160-57735-1  
SDG: SL57735-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
X	See case narrative notes for explanation of the 'X' flag

#### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
y	Duplicate analysis not within control limits.

### 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

# Method Summary

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SL
906.0	Tritium, Total (LSC)	EPA	EET SL
TC-02-RC	Technetium-99 (LSC)	DOE	EET SL
3010A	Preparation, Total Metals	SW846	EET SL
Ext_Chrom_LSC	Preparation, Extraction Chromatography	None	EET SL
LSC_Dist_Susp	Distillation and Suspension (LSC)	None	EET SL

**Protocol References:**

- DOE = U.S. Department of Energy
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



# Sample Summary

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Job ID: 160-57735-1  
SDG: SL57735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-57735-1	B4LDN9	Water	04/10/25 08:36	04/11/25 08:20
160-57735-2	B4LDP1	Water	04/10/25 08:36	04/11/25 08:20
160-57735-3	B4LDT1	Water	04/10/25 09:10	04/11/25 08:20
160-57735-4	B4LDT5	Water	04/10/25 09:10	04/11/25 08:20
160-57735-5	B4LDT0	Water	04/10/25 09:10	04/11/25 08:20
160-57735-6	B4LDT4	Water	04/10/25 09:10	04/11/25 08:20

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### Client Sample Results

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

#### Method: SW846 6020B - Metals (ICP/MS)

Client Sample ID: B4LDN9  
 Date Collected: 04/10/25 08:36  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	97.5	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 14:53	2
Uranium	71900	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 17:55	50

Client Sample ID: B4LDT1  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-3  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	61.6	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 15:10	2
Uranium	63300	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 18:13	50

Client Sample ID: B4LDT0  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-5  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	61.9	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 15:20	2
Uranium	62200	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 18:17	50

#### Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Client Sample ID: B4LDP1  
 Date Collected: 04/10/25 08:36  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-2  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	114	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 15:04	2
Uranium	58200	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 18:04	50

Client Sample ID: B4LDT5  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-4  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	60.6	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 15:17	2
Uranium	63200	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 18:15	50

Client Sample ID: B4LDT4  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-6  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	59.6	D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 15:22	2
Uranium	62300	D	25.0	3.8	ug/L		04/16/25 14:15	04/21/25 18:19	50

#### Method: EPA 906.0 - Tritium, Total (LSC)

Client Sample ID: B4LDT1  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-3  
 Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	8170		543	901	700	274	pCi/L	04/18/25 10:32	04/19/25 05:17	1

### Client Sample Results

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

**Method: EPA 906.0 - Tritium, Total (LSC)**

Client Sample ID: B4LDT0  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-5  
 Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	8400		547	919	700	273	pCi/L	04/18/25 10:32	04/19/25 05:40	1

**Method: DOE TC-02-RC - Technetium-99 (LSC)**

Client Sample ID: B4LDT1  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-3  
 Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium-99	33800		504	3290	10.0	16.7	pCi/L	04/14/25 11:52	04/18/25 09:39	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Re	96.6		30 - 105					04/14/25 11:52	04/18/25 09:39	1

Client Sample ID: B4LDT0  
 Date Collected: 04/10/25 09:10  
 Date Received: 04/11/25 08:20

Lab Sample ID: 160-57735-5  
 Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Technetium-99	30400		454	2950	10.0	15.2	pCi/L	04/14/25 11:53	04/18/25 09:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Re	100		30 - 105					04/14/25 11:53	04/18/25 09:41	1

QC Sample Results

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 160-712818/1-A  
 Matrix: Water  
 Analysis Batch: 713481

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.3	U D	10.0	1.3	ug/L		04/16/25 14:15	04/17/25 14:48	2
Uranium	0.15	U D	1.0	0.15	ug/L		04/16/25 14:15	04/17/25 14:48	2

Lab Sample ID: LCS 160-712818/2-A  
 Matrix: Water  
 Analysis Batch: 713481

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	1000	1030	D	ug/L		103	80 - 120
Uranium	1000	959.1	D	ug/L		96	80 - 120

Lab Sample ID: 160-57735-1 MS  
 Matrix: Water  
 Analysis Batch: 713481

Client Sample ID: B4LDN9  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	97.5	D	1000	1092	D	ug/L		99	75 - 125

Lab Sample ID: 160-57735-1 MS  
 Matrix: Water  
 Analysis Batch: 713680

Client Sample ID: B4LDN9  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	71900	D	1000	74180	X D	ug/L		223	75 - 125

Lab Sample ID: 160-57735-1 MSD  
 Matrix: Water  
 Analysis Batch: 713481

Client Sample ID: B4LDN9  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	97.5	D	1000	1074	D	ug/L		98	75 - 125	2	20

Lab Sample ID: 160-57735-1 MSD  
 Matrix: Water  
 Analysis Batch: 713680

Client Sample ID: B4LDN9  
 Prep Type: Total/NA  
 Prep Batch: 712818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	71900	D	1000	74320	X D	ug/L		237	75 - 125	0	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-713207/2-A  
 Matrix: Water  
 Analysis Batch: 713645

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 713207

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	53.60	U	166	166	700	294	pCi/L	04/18/25 10:32	04/19/25 02:17	1



### QC Sample Results

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

#### Method: 906.0 - Tritium, Total (LSC) (Continued)

Lab Sample ID: LCS 160-713207/3-A  
 Matrix: Water  
 Analysis Batch: 713645

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 713207

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Tritium	1850	1850		342	700	291	pCi/L	100	80 - 120	

Lab Sample ID: 160-57699-B-6-C MS  
 Matrix: Water  
 Analysis Batch: 713645

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 713207

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Tritium	60.8	U	1860	1643		313	700	275	pCi/L	85	75 - 125	

Lab Sample ID: 160-57699-B-5-C DU  
 Matrix: Water  
 Analysis Batch: 713645

Client Sample ID: Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 713207

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RPD	Limit	
Tritium	-80	U	-29.7	U y	157	700	296	pCi/L	91	20	

#### Method: TC-02-RC - Technetium-99 (LSC)

Lab Sample ID: MB 160-712290/2-A  
 Matrix: Water  
 Analysis Batch: 713652

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 712290

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Re	92.6		30 - 105					04/14/25 11:52	04/18/25 02:47	1

Lab Sample ID: LCS 160-712290/3-A  
 Matrix: Water  
 Analysis Batch: 713652

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 712290

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Technetium-99	51.5	52.81		6.42	10.0	2.92	pCi/L	102	80 - 120	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Re	95.4		30 - 105							

### QC Sample Results

Client: Central Plateau Cleanup Company LLC  
 Project/Site: T25-037

Job ID: 160-57735-1  
 SDG: SL57735-1

**Method: TC-02-RC - Technetium-99 (LSC) (Continued)**

**Lab Sample ID: 160-57599-A-2-B DU**  
**Matrix: Water**  
**Analysis Batch: 713652**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 712290**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RPD	RPD
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Technetium-99	0.188	U	-0.662	U y	1.66	10.0	3.07	pCi/L	358	20
	<i>DU</i>	<i>DU</i>								
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
Re	94.5		30 - 105							

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## QC Association Summary

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Job ID: 160-57735-1  
SDG: SL57735-1

## Metals

## Prep Batch: 712818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57735-1	B4LDN9	Total/NA	Water	3010A	
160-57735-2	B4LDP1	Dissolved	Water	3010A	
160-57735-3	B4LDT1	Total/NA	Water	3010A	
160-57735-4	B4LDT5	Dissolved	Water	3010A	
160-57735-5	B4LDT0	Total/NA	Water	3010A	
160-57735-6	B4LDT4	Dissolved	Water	3010A	
MB 160-712818/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-712818/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-57735-1 MS	B4LDN9	Total/NA	Water	3010A	
160-57735-1 MSD	B4LDN9	Total/NA	Water	3010A	

## Analysis Batch: 713481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57735-1	B4LDN9	Total/NA	Water	6020B	712818
160-57735-2	B4LDP1	Dissolved	Water	6020B	712818
160-57735-3	B4LDT1	Total/NA	Water	6020B	712818
160-57735-4	B4LDT5	Dissolved	Water	6020B	712818
160-57735-5	B4LDT0	Total/NA	Water	6020B	712818
160-57735-6	B4LDT4	Dissolved	Water	6020B	712818
MB 160-712818/1-A	Method Blank	Total/NA	Water	6020B	712818
LCS 160-712818/2-A	Lab Control Sample	Total/NA	Water	6020B	712818
160-57735-1 MS	B4LDN9	Total/NA	Water	6020B	712818
160-57735-1 MSD	B4LDN9	Total/NA	Water	6020B	712818

## Analysis Batch: 713680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57735-1	B4LDN9	Total/NA	Water	6020B	712818
160-57735-2	B4LDP1	Dissolved	Water	6020B	712818
160-57735-3	B4LDT1	Total/NA	Water	6020B	712818
160-57735-4	B4LDT5	Dissolved	Water	6020B	712818
160-57735-5	B4LDT0	Total/NA	Water	6020B	712818
160-57735-6	B4LDT4	Dissolved	Water	6020B	712818
160-57735-1 MS	B4LDN9	Total/NA	Water	6020B	712818
160-57735-1 MSD	B4LDN9	Total/NA	Water	6020B	712818

## Rad

## Prep Batch: 712290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57735-3	B4LDT1	Total/NA	Water	Ext_Chrom_LSC	
160-57735-5	B4LDT0	Total/NA	Water	Ext_Chrom_LSC	
MB 160-712290/2-A	Method Blank	Total/NA	Water	Ext_Chrom_LSC	
LCS 160-712290/3-A	Lab Control Sample	Total/NA	Water	Ext_Chrom_LSC	
160-57599-A-2-B DU	Duplicate	Total/NA	Water	Ext_Chrom_LSC	

## Prep Batch: 713207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57735-3	B4LDT1	Total/NA	Water	LSC_Dist_Susp	
160-57735-5	B4LDT0	Total/NA	Water	LSC_Dist_Susp	
MB 160-713207/2-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-713207/3-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	

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### QC Association Summary

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Job ID: 160-57735-1  
SDG: SL57735-1

#### Rad (Continued)

#### Prep Batch: 713207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-57699-B-6-C MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-57699-B-5-C DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	

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### Tracer/Carrier Summary

Client: Central Plateau Cleanup Company LLC  
Project/Site: T25-037

Job ID: 160-57735-1  
SDG: SL57735-1

**Method: TC-02-RC - Technetium-99 (LSC)**

**Matrix: Water**

**Prep Type: Total/NA**

**Percent Yield (Acceptance Limits)**

Lab Sample ID	Client Sample ID	Re (30-105)
160-57599-A-2-B DU	Duplicate	94.5
160-57735-3	B4LDT1	96.6
160-57735-5	B4LDT0	100
LCS 160-712290/3-A	Lab Control Sample	95.4
MB 160-712290/2-A	Method Blank	92.6

**Tracer/Carrier Legend**

Re = Re

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