



Ft. Collins, Colorado

LIMS Version: 7.536

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Tuesday, April 20, 2021

Karen Waters-Husted
Central Plateau Cleanup Company, LLC
825 Jadwin Avenue
Richland, WA 99352

Re: ALS Workorder: 2103436
Project Name: SURV, March 2021
Project Number: S21-003

Dear Ms. Waters-Husted:

Nineteen water samples were received from Central Plateau Cleanup Company, LLC, on 3/23/2021. The samples were scheduled for the following analyses:

GC/MS VolatilesGross Alpha/BetaMetalsStrontium-90Technetium-99

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

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, any and 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 signatures on this report.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2103436

Client Name: Central Plateau Cleanup Company, LLC

Client Project Name: SURV, March 2021

Client Project Number: S21-003

Client PO Number: BOA 74395

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| B404J6 | 2103436-1 | | WATER | 22-Mar-21 | 8:34 |
| B404J8 | 2103436-2 | | WATER | 22-Mar-21 | 8:34 |
| B40569 | 2103436-3 | | WATER | 22-Mar-21 | 10:55 |
| B40572 | 2103436-4 | | WATER | 22-Mar-21 | 10:55 |
| B40589 | 2103436-5 | | WATER | 22-Mar-21 | 7:55 |
| B40586 | 2103436-6 | | WATER | 22-Mar-21 | 7:55 |
| B40587 | 2103436-7 | | WATER | 22-Mar-21 | 8:51 |
| B40590 | 2103436-8 | | WATER | 22-Mar-21 | 8:51 |
| B40593 | 2103436-9 | | WATER | 22-Mar-21 | 11:25 |
| B40595 | 2103436-10 | | WATER | 22-Mar-21 | 11:25 |
| B405J0 | 2103436-11 | | WATER | 22-Mar-21 | 11:16 |
| B405H7 | 2103436-12 | | WATER | 22-Mar-21 | 11:16 |
| B404R7 | 2103436-13 | | WATER | 22-Mar-21 | 9:05 |
| B404T2 | 2103436-14 | | WATER | 22-Mar-21 | 9:05 |
| B404W2 | 2103436-15 | | WATER | 22-Mar-21 | 10:47 |
| B404V8 | 2103436-16 | | WATER | 22-Mar-21 | 10:47 |
| B404R0 | 2103436-17 | | WATER | 22-Mar-21 | 9:05 |
| B404R3 | 2103436-18 | | WATER | 22-Mar-21 | 7:59 |
| B405M4 | 2103436-19 | | WATER | 18-Mar-21 | 12:16 |

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| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | C.O.C.# S21-003-001 |
| | | Page 1 of 1 |

2103436

| | | |
|--|--|--|
| Collector: Chris Fulton CPC | Contact/Requester: Karen Waters-Husted | Telephone No.: 509-376-4650 |
| SAF No.: S21-003 | Sampling Origin: Hanford Site | Purchase Order/Charge Code: 900152 |
| Project Title: SURV, March 2021 | Logbook No.: HNF-N-506 -119-44 | Ice Chest No.: GWS-030 |
| Shipped To (Lab): ALS Environmental Ft. Collins | Method of Shipment Commercial Carrier | Bill of Lading/Air Bill No.: T32 2874816 |
| Protocol: SURV | Priority: 30 Days | Offsite Property No.: N/A FEB 03 2021 PUB |

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|---|------------------------------------|
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
|------------|--------|---|---------|------|-------------------|---------------------------------|--------------|---------------|
| B404J6 | N | W | 3-22-21 | 0834 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B404J8 | 2 | W | 3-22-21 | 0834 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * |
|---------------------------|-----------|-------------------|---------------------------|-----------|-------------------|---|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | |
| Chris Fulton CPC | | MAR 2 2 2021 1055 | Lesty Wall CPC | | MAR 2 2 2021 1055 | 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 |
| Lesty Wall CPC | | MAR 2 2 2021 1400 | FEDEX | | 3/23/21 1030 | |

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|---------------------------------|---|--------------|------------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process): | Disposed By: | Date/Time: |
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| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | C.O.C. # S21-003-002 |
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|--|--|--|
| Collector: Lorin Kelly CPCC | Contact/Requester: Karen Waters-Husted | Telephone No.: 509-376-4650 |
| SAF No.: S21-003 | Sampling Origin: Hanford Site | Purchase Order/Charge Code: 900152 |
| Project Title: SURV, March 2021 | Logbook No.: HNF-N-506 - 122 | Ice Chest No.: GWS-030 |
| Shipped To (Lab): ALS Environmental Ft. Collins | Method of Shipment Commercial Carrier | Bill of Lading/Air Bill No.: 77322874818 |
| Protocol: SURV | Priority: 30 Days | Offsite Property No.: N/A FEB 03 2021 PUB |

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|---|------------------------------------|
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
|------------|--------|---|---------|------|-------------------|---------------------------------|--------------|---------------|
| B40569 | 3 | N | 3/22/21 | 1055 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B40572 | 4 | Y | 3/22/21 | 1055 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

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| Relinquished By | Received By | Matrix * |
|---|--|--|
| Print First and Last Name: Lorin Kelly CPCC Signature: <i>[Signature]</i> Date/Time: MAR 22 2021 1110 | Print First and Last Name: Lesty Wall CPCC Signature: <i>[Signature]</i> Date/Time: MAR 22 2021 1110 | 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 |
| Signature: <i>[Signature]</i> Date/Time: MAR 22 2021 1400 | FEDEX Signature: <i>[Signature]</i> Date/Time: 3/23/21 1030 | |
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| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process): | Disposed By: |
| | | Date/Time: |

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| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-004 | | |
|---|--------|--|---------|--|-------------------|---------------------------------|--------------|---------------|
| Collector: Lorin Kelly CPCC | | Contact/Requester: Karen Waters-Husted | | Telephone No.: 509-376-4650 | | | | |
| SAF No.: S21-003 | | Sampling Origin: Hanford Site | | Purchase Order/Charge Code: 900152 | | | | |
| Project Title: SURV, March 2021 | | Logbook No.: HNF-N-506 -122 | | Ice Chest No.: GWS-030 | | | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | Method of Shipment Commercial Carrier | | Bill of Lading/Air Bill No.: 773228748165 | | | | |
| Protocol: SURV | | Priority: 30 Days | | Offsite Property No.: N/A FEB 03 2021 Pub | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B40589 | 5 | Y | 3/22/21 | 0755 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B40586 | 6 | N | 3/22/21 | 0755 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------------|---|------------------|---------------------------|--------------------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Lorin Kelly CPCC | <i>L Kelly</i> | MAR 22 2021 1110 | Lesly Wall CPCC | <i>Lesly Wall</i> | MAR 22 2021 1110 | SE = Sediment | DL = Drum Liquids |
| Lesly Wall CPCC | <i>Lesly Wall</i> | MAR 22 2021 1400 | FEDEX | | | SO = Solid | T = Tissue |
| | FedEx | | Tyler Mossor | <i>[Signature]</i> | 3/23/21 1030 | SL = Sludge | WI = Wipe |
| | | | | | | 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: | |

| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-005 | | |
|---|--------|--|---------|---|-------------------|---------------------------------|--------------|---------------|
| | | | | | | Page 1 of 1 | | |
| Collector: Lorin Kelly CPCC | | Contact/Requester: Karen Waters-Husted | | Telephone No.: 509-376-4650 | | | | |
| SAF No.: S21-003 | | Sampling Origin: Hanford Site | | Purchase Order/Charge Code: 900152 | | | | |
| Project Title: SURV, March 2021 | | Logbook No.: HNF-N-506 - 122 | | Ice Chest No.: GWS-030 | | | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | Method of Shipment Commercial Carrier | | Bill of Lading/Air Bill No.: 773228748165 | | | | |
| Protocol: SURV | | Priority: 30 Days | | Offsite Property No.: N/A FEB 03 2021 PUB | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B40587 | N | W | 3/22/21 | 0851 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B40590 | Y | W | 3/22/21 | 0951 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

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| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------------|---|------------------|---------------------------|--------------------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Lorin Kelly CPCC | <i>L. Kelly</i> | MAR 22 2021 1110 | Lesty Wall CPCC | <i>Lesty Wall</i> | MAR 22 2021 1110 | SE = Sediment | DL = Drum Liquids |
| Lesty Wall CPCC | <i>Lesty Wall</i> | MAR 22 2021 1400 | FEDEX | | | SO = Solid | T = Tissue |
| | FedEx | | Tyler Mossor | <i>[Signature]</i> | 3/23/21 1030 | SL = Sludge | WI = Wipe |
| | | | | | | 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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| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-006 | | |
|---|--------|---|---------|---|-------------------|---------------------------------|--------------|---------------|
| | | 2103434 | | | | Page 1 of 1 | | |
| Collector: Chris Fulton CPCC | | Contact/Requester: Karen Waters-Husted | | Telephone No.: 509-376-4650 | | | | |
| SAF No.: S21-003 | | Sampling Origin: Hanford Site | | Purchase Order/Charge Code: 900152 | | | | |
| Project Title: SURV, March 2021 | | Logbook No.: HNF-N-506 - 119-44 | | Ice Chest No.: GWS-030 | | | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | Method of Shipment Commercial Carrier | | Bill of Lading/Air Bill No.: 77322874816 | | | | |
| Protocol: SURV | | Priority: 30 Days | | Offsite Property No.: N/A FEB 03 2021 PUB | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B40593 | N | W | 3-22-21 | 1125 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B40595 | Y | W | 3-22-21 | 1125 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

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| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------|-----------|------------------|---------------------------|-----------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | | |
| Chris Fulton CPCC | | MAR 22 2021 1200 | Ivan Schaeffer CPCC | | MAR 22 2021 1200 | S = Soil | DS = Drum Solids |
| Ivan Schaeffer CPCC | | MAR 22 2021 1400 | | | | SE = Sediment | DL = Drum Liquids |
| | FEDEX | | | | | SO = Solid | T = Tissue |
| | | | | | | SL = Sludge | WI = Wipe |
| | | | | | | W = Water | L = Liquid |
| | | | | | | O = Oil | V = Vegetation |
| | | | | | | A = Air | X = Other |

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|---------------------------------|---|--------------|------------|
| FINAL SAMPLE DISPOSITION | Disposal Method (e.g., Return to customer, per lab procedure, used in process): | Disposed By: | Date/Time: |
|---------------------------------|---|--------------|------------|

Collector: **Chris Fultor** Contact/Requester: Karen Waters-Husted Telephone No.: 509-376-4650

SAF No.: S21-003 Sampling Origin: Hanford Site Purchase Order/Charge Code: 900152

Project Title: SURV, March 2021 Logbook No.: HNF-N-506 -119-44 Ice Chest No.: GWS-030

Shipped To (Lab): ALS Environmental Ft. Collins Method of Shipment Commercial Carrier Bill of Lading/Air Bill No.: 7732 2874815

Protocol: SURV Priority: 30 Days Offsite Property No.: N/A FEB 03 2021 PUB

POSSIBLE SAMPLE HAZARDS/REMARK
 ** ** 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 | Preservative |
|------------|--------|---|---------|------|-------------------|---------------------------------|--------------|---------------|
| B405J0 | Y | W | 3-22-21 | 1114 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |
| B405H7 | N | W | 3-22-21 | 1116 | 1x500-mL G/P | 6020_METALS_ICPMS: Chromium (1) | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * |
|---------------------------|-----------|------------------|---------------------------|-----------|------------------|----------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | |
| Chris Fultor CPCC | | MAR 22 2021 1200 | Ivan Schaeffer CPCC | | MAR 22 2021 1200 | |
| Ivan Schaeffer CPCC | | MAR 22 2021 1400 | FEDEX | | 3/23/21 1030 | |
| | | | | | | |
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FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process): _____ Disposed By: _____ Date/Time: _____

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|--|--|--|--|-------------------------------|
| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | C.O.C.# S21-003-008 |
| | | <i>203436</i> | | Page 1 of 1 |
| Collector: Lorin Kelly CPC | Contact/Requester: Karen Waters-Husted | Telephone No.: 509-376-4650 | | |
| SAF No.: S21-003 | Sampling Origin: Hanford Site | Purchase Order/Charge Code: 900152 | | |
| Project Title: SURV, March 2021 | Logbook No.: HNF-N-506 <i>-122</i> | Ice Chest No.: <i>GLS-030</i> | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | Method of Shipment Commercial Carrier | Bill of Lading/Air Bill No.: <i>7732 2874 8118</i> | | |
| Protocol: SURV | Priority: 30 Days | Offsite Property No.: <i>N/A FEB 03 2021 PUB</i> | | |

POSSIBLE SAMPLE HAZARDS/REMARK
 ** ** 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 | Preservative |
|---------------------|----------|---|----------------|-------------|-------------------|---|--------------|---------------|
| B404R7 <i>13</i> | N | W | <i>3/22/21</i> | <i>0905</i> | 1x500-mL G/P | 6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 | 6 Months | HNO3 to pH <2 |
| B404T2 <i>14</i> | Y | W | <i>3/22/21</i> | <i>0405</i> | 1x500-mL G/P | 6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------|-------------------|-------------------|---------------------------|--------------------|---------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Lorin Kelly CPC | <i>L. Kelly</i> | MAR 22 2021 // 10 | Lesly Wall CPC | <i>Lesly Wall</i> | MAR 22 2021 // 10 | SE = Sediment | DL = Drum Liquids |
| Lesly Wall CPC | <i>Lesly Wall</i> | MAR 22 2021 1400 | FEDEX | | | SO = Solid | T = Tissue |
| | FedEx | | Tyler Mossor | <i>[Signature]</i> | <i>3/22/21 1030</i> | SL = Sludge | WI = Wipe |
| | | | | | | 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: |
|---------------------------------|---|--------------|------------|

| | | |
|--|--|---|
| Collector: Chris Fulton CPCC | Contact/Requester: Karen Waters-Husted | Telephone No.: 509-376-4650 |
| SAF No.: S21-003 | Sampling Origin: Hanford Site | Purchase Order/Charge Code: 900152 |
| Project Title: SURV, March 2021 | Logbook No.: HNF-N-506 -119-44 | Ice Chest No.: GWS-030 |
| Shipped To (Lab): ALS Environmental Ft. Collins | Method of Shipment Commercial Carrier | Bill of Lading/Air Bill No.: 7732 28748115 |
| Protocol: SURV | Priority: 30 Days | Offsite Property No.: N/A FEB 03 2021 PUB |

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|---|------------------------------------|
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
|---------------------|----------|---|----------------|-------------|-------------------|---|--------------|---------------|
| B404W2 <i>15</i> | Y | W | <i>3-22-21</i> | <i>1047</i> | 1x500-mL G/P | 6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 | 6 Months | HNO3 to pH <2 |
| B404V8 <i>16</i> | N | W | <i>3-22-21</i> | <i>1047</i> | 1x500-mL G/P | 6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 | 6 Months | HNO3 to pH <2 |
| B404V8 <i>↓</i> | N | W | <i>3-22-21</i> | <i>1047</i> | 1x250-mL G/P | SMR_TC99_LSC | 6 Months | HNO3 to pH <2 |

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| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------|--------------------|------------------|---------------------------|--------------------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Chris Fulton CPCC | <i>[Signature]</i> | MAR 22 2021 1055 | Lesly Wall CPCC | <i>[Signature]</i> | MAR 22 2021 1055 | SE = Sediment | DL = Drum Liquids |
| Lesly Wall CPCC | <i>[Signature]</i> | MAR 22 2021 1400 | FEDEX | <i>[Signature]</i> | | SO = Solid | T = Tissue |
| | FedEx | | FEDEX | <i>[Signature]</i> | | SL = Sludge | WI = Wipe |
| | | | FEDEX | <i>[Signature]</i> | | W = Water | L = Liquid |
| | | | FEDEX | <i>[Signature]</i> | | O = Oil | V = Vegetation |
| | | | FEDEX | <i>[Signature]</i> | | 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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| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-020 | | |
|---|--------|--|--|------|------------------------------------|---|--------------|---------------|
| | | | | | | Page 1 of 1 | | |
| Collector: Kevin Patterson CPCC | | | Contact/Requester: Karen Waters-Husted | | | Telephone No.: 509-376-4650 | | |
| SAF No.: S21-003 | | | Sampling Origin: Hanford Site | | | Purchase Order/Charge Code: 900152 | | |
| Project Title: SURV, March 2021 | | | Logbook No.: HNF-N-506 120 | | | Ice Chest No.: GWS-129 | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | | Method of Shipment Commercial Carrier | | | Bill of Lading/Air Bill No.: 773226098606 | | |
| Protocol: SURV | | | Priority: 30 Days | | | Offsite Property No.: NA ABC 21121 | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B404R0 | 12 | N | MAR 22 2021 | 0905 | 1x500-mL G/P | SMR_ALPHABETA_GPC | 6 Months | HNO3 to pH <2 |
| B404R0 | ↓ | N | MAR 22 2021 | 0905 | 2x1-L G/P | SMR_SR_RAD_GPC | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------|-----------|------------------|---------------------------|-----------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | | |
| Kevin Patterson CPCC | | MAR 22 2021 0930 | Lesly Wall CPCC | | MAR 22 2021 0930 | S = Soil | DS = Drum Solids |
| Lesly Wall CPCC | | MAR 22 2021 1400 | FEDEX | | 3/23/21 1030 | SE = Sediment | DL = Drum Liquids |
| | FEDEX | | | | | SO = Solid | T = Tissue |
| | | | | | | SL = Sludge | WI = Wipe |
| | | | | | | 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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April 20, 2021

Rev. 0

| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-021 | | |
|---|--------|--|--|------|------------------------------------|--|--------------|---------------|
| | | | | | | Page 1 of 1 | | |
| Collector: Kevin Patterson CPC | | | Contact/Requester: Karen Waters-Husted | | | Telephone No.: 509-376-4650 | | |
| SAF No.: S21-003 | | | Sampling Origin: Hanford Site | | | Purchase Order/Charge Code: 900152 | | |
| Project Title: SURV, March 2021 | | | Logbook No.: HNF-N-506 120 | | | Ice Chest No.: GWS-129 | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | | Method of Shipment Commercial Carrier | | | Bill of Lading/Air Bill No.: 7732 26098604 | | |
| Protocol: SURV | | | Priority: 30 Days | | | Offsite Property No.: NA MSB 2/1/21 | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B404R3 | 18 N | W | MAR 22 2021 | 0759 | 1x500-mL G/P | SMR_ALPHABETA_GPC | 6 Months | HNO3 to pH <2 |
| B404R3 | 18 N | W | MAR 22 2021 | 0759 | 2x1-L G/P | SMR_SR_RAD_GPC | 6 Months | HNO3 to pH <2 |

| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------------|---|------------------|---------------------------|-----------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Kevin Patterson CPC | | MAR 22 2021 0930 | Lesly Wall CPC | | MAR 22 2021 0930 | SE = Sediment | DL = Drum Liquids |
| Lesly Wall CPC | | MAR 22 2021 1400 | FEDEX | | 3/23/21 1030 | SO = Solid | T = Tissue |
| | FedEx | | | | | SL = Sludge | WI = Wipe |
| | | | | | | 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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| Central Plateau Cleanup Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | C.O.C.# S21-003-059 | | |
|---|--------|--|--|------|------------------------------------|--|--------------|---|
| | | | | | | Page 1 of 1 | | |
| Collector: Mike Esparza CPCC | | | Contact/Requester: Karen Waters-Husted | | | Telephone No.: 509-376-4650 | | |
| SAF No.: S21-003 | | | Sampling Origin: Hanford Site | | | Purchase Order/Charge Code: 900152 | | |
| Project Title: SURV, March 2021 | | | Logbook No.: HNF-N-506 | | | Ice Chest No.: GWS-129 8606 | | |
| Shipped To (Lab): ALS Environmental Ft. Collins | | | Method of Shipment Commercial Carrier | | | Bill of Lading/Air Bill No.: 7732-2609 8606 2322 | | |
| Protocol: SURV | | | Priority: 30 Days | | | Offsite Property No.: N/A FEB 03 2021 PUB | | |
| POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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 | Preservative |
| B405M4 19 | N | W | 3/18/21 | 1216 | 4x40-mL aGs* | 8260_VOA_GCMS_IX: COMMON REV 1 | 14 Days | HCl or H2SO4 to pH <2 / Cool <=6C |

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| Relinquished By | | | Received By | | | Matrix * | |
|---------------------------------|---|------------------|---------------------------|-----------|------------------|---------------|-------------------|
| Print First and Last Name | Signature | Date/Time | Print First and Last Name | Signature | Date/Time | S = Soil | DS = Drum Solids |
| Mike Esparza CPCC | | MAR 18 2021 1245 | SSU-1 | | MAR 18 2021 1245 | SE = Sediment | DL = Drum Liquids |
| SSU-1 | | MAR 22 2021 0610 | Ivan Schaeffer CPCC | | MAR 22 2021 0610 | SO = Solid | T = Tissue |
| Ivan Schaeffer CPCC | | MAR 22 2021 1400 | | | | SL = Sludge | WI = Wipe |
| | | | | FEDEX | | 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: | |

Rev. 0



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CPCC Workorder No: 2103436
Project Manager: KMO Initials: TEM Date: 3/23/21

| | | N/A | YES | NO |
|-----|--|----------|-----|----|
| 1. | Are airbills / shipping documents present and/or removable? | | X | |
| | Tracking number: | | | |
| 2. | Are custody seals on shipping containers intact? | | X | |
| 3. | Are custody seals on sample containers intact? | | X | |
| 4. | Is there a COC (chain-of-custody) present? | | X | |
| 5. | Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.) | | X | |
| 6. | Are short-hold samples present? | | | X |
| 7. | Are all samples within holding times for the requested analyses? | | X | |
| 8. | Were all sample containers received intact? (not broken or leaking) | | X | |
| 9. | Is there sufficient sample for the requested analyses? | | X | |
| 10. | Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>) | | X | |
| 11. | Are all aqueous samples preserved correctly, if required? (excluding volatiles) | | X | |
| 12. | Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea) | | X | |
| 13. | Were the samples shipped on ice? | | X | |
| 14. | Were cooler temperatures measured at 0.1-6.0°C? | | | |
| | IR gun used*: #5 | | | |
| | | RAD ONLY | X | |
| | Cooler #: <u>1</u> <u>2</u> | | | |
| | Temperature (°C): <u>1.4</u> <u>2.8</u> | | | |
| | # of custody seals on cooler: <u>2</u> <u>2</u> | | | |
| | External µR/hr reading: <u>10</u> <u>11</u> | | | |
| | Background µR/hr reading: <u>11</u> | | | |
| | Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? Yes | | | |

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? N/A All client bottle ID's vs ALS lab ID's double-checked by TM

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 3/24/21

ORIGIN ID:PSCA (509) 373-3580
JANELLE ZUNKER
CPCC
6289 LATAH ST.

SHIP DATE: 22MAR21
ACTWGT: 100.00 LB
CAD: 107068051/INET4340

RICHLAND, WA 99354
UNITED STATES US

BILL THIRD PARTY

TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

FORT COLLINS CO 80524

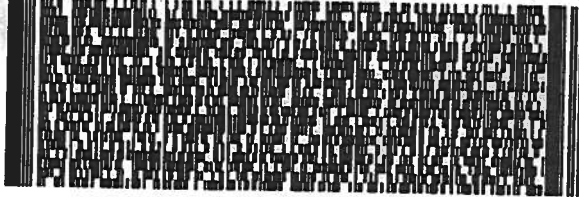
(970) 490-1511
INV:
PO:

REF: 900153/GWS-129

DEPT:

10-2
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56DUBAC39FE1A



TUE - 23 MAR 10:30A
PRIORITY OVERNIGHT

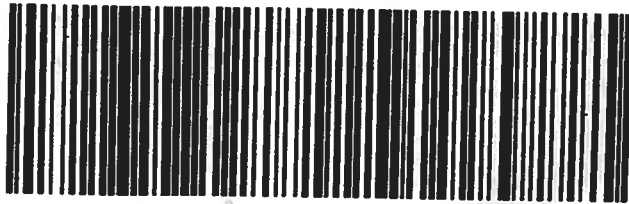
TRK# 7732 2609 8606
0201

DSR

XH FTCA

80524

CO-US DEN



ORIGIN ID:PSCA (509) 373-3580
JANELLE ZUNKER
CPCC
6289 LATAH ST.

SHIP DATE: 22MAR21
ACTWGT: 82.00 LB
CAD: 107068051/INET4340

RICHLAND, WA 99354
UNITED STATES US

BILL THIRD PARTY

TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

FORT COLLINS CO 80524

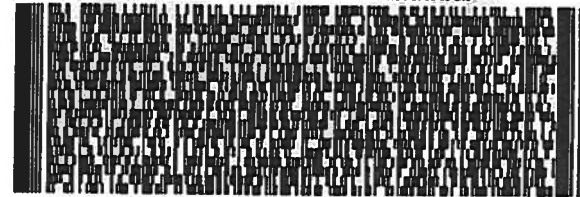
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INV:
PO:

REF: 900153/GWS-030

DEPT:

11-2
2.8

56DUBAC39FE1A



TUE - 23 MAR 10:30A
PRIORITY OVERNIGHT

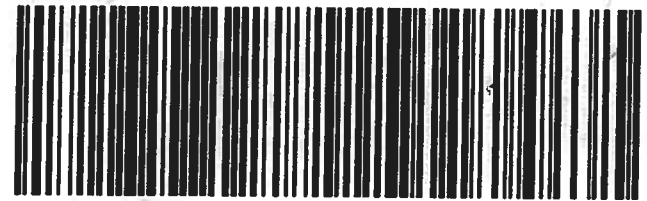
TRK# 7732 2874 8165
0201

DSR

XH FTCA

80524

CO-US DEN





GC/MS Volatiles

Case Narrative

Central Plateau Cleanup Company, LLC

SURV, March 2021 – S21-003

Work Order Number: 2103436

1. The sample was prepared according to SW-846, 3rd Edition procedures. Specifically, the water sample was prepared using purge and trap procedures based on Method 5030C.
2. The sample was analyzed using GC/MS according to the current revision of SOP 525 based on SW-846 Method 8260. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.
3. All initial calibration criteria were met.
4. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All criteria for initial calibration verification were met.
5. Per the guidance in methods 8000 and 8260, all compounds in each of the daily (continuing) calibration verifications had sufficient response to support accurate quantitation of the data included in this report.
6. Methylene chloride, acetone and 2-butanone are common laboratory contaminants. In order to minimize the levels of these compounds detected in the gc/ms analysis, ALS has designated its volatile laboratory as a restricted access area. In addition, the laboratory has been equipped with a dedicated, air intake and exhaust system that operates under positive pressure in order to minimize cross contamination of these compounds. Due to fluctuations in ambient laboratory conditions, reported sample values for common laboratory contaminants may be due to lab contamination even if the compound in question is not detected in the associated method blank.

All method blank criteria were met.



7. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the following exceptions:

| Spiked Compound | QC Sample | Direction |
|------------------------|-----------|-----------|
| Trichlorofluoromethane | LCS | High |
| Acrolein | LCS/LCSD | High |

These analytes were not detected above the reporting limit in the associated sample. No further action was taken.

8. Sample 2103280-6 was designated as the quality control sample for this analysis. Results for the shared quality control samples are included at the client's request. Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

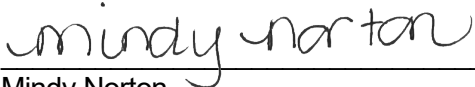
All matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria with the following exception:

| Spiked Compound | QC Sample | Direction |
|-----------------|-----------|-----------|
| Acrolein | MS/MSD | High |

This analyte was not detected above the reporting limits in the associated sample. No further action was taken.

9. The sample was analyzed within the established holding time.
10. All surrogate recoveries were within acceptance criteria.
11. All internal standard recoveries were within acceptance criteria.
12. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


 Mindy Norton
 Organics Primary Data Reviewer

4/8/21
 Date


 Organics Final Data Reviewer

4/09/21
 Date

ALS
Data Qualifier Flags
Organics

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: N/A

File Name: C1092

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Result Qualifier | Reporting Limit | MDL |
|------------|--------------------------|----|--------|------------------|-----------------|------|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 1 | 0.55 | U | 1 | 0.55 |
| 74-87-3 | CHLOROMETHANE | 1 | 0.45 | U | 1 | 0.45 |
| 75-01-4 | VINYL CHLORIDE | 1 | 0.38 | U | 1 | 0.38 |
| 74-83-9 | BROMOMETHANE | 1 | 0.61 | U | 1 | 0.61 |
| 75-00-3 | CHLOROETHANE | 1 | 0.47 | U | 1 | 0.47 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 1 | 0.38 | U | 1 | 0.38 |
| 107-02-8 | ACROLEIN | 1 | 6.8 | U | 50 | 6.8 |
| 75-35-4 | 1,1-DICHLOROETHENE | 1 | 0.48 | U | 1 | 0.48 |
| 67-64-1 | ACETONE | 1 | 5.4 | U | 10 | 5.4 |
| 74-88-4 | IODOMETHANE | 1 | 1.4 | U | 5 | 1.4 |
| 75-15-0 | CARBON DISULFIDE | 1 | 0.31 | U | 1 | 0.31 |
| 75-09-2 | METHYLENE CHLORIDE | 1 | 1 | U | 2 | 1 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 1 | 0.42 | U | 1 | 0.42 |
| 107-13-1 | ACRYLONITRILE | 1 | 4.8 | U | 10 | 4.8 |
| 75-34-3 | 1,1-DICHLOROETHANE | 1 | 0.32 | U | 1 | 0.32 |
| 108-05-4 | VINYL ACETATE | 1 | 0.8 | U | 2 | 0.8 |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 1 | 0.39 | U | 1 | 0.39 |
| 78-93-3 | 2-BUTANONE | 1 | 3 | U | 10 | 3 |
| 67-66-3 | CHLOROFORM | 1 | 0.31 | U | 1 | 0.31 |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 1 | 0.36 | U | 1 | 0.36 |
| 56-23-5 | CARBON TETRACHLORIDE | 1 | 0.38 | U | 1 | 0.38 |
| 107-06-2 | 1,2-DICHLOROETHANE | 1 | 0.41 | U | 1 | 0.41 |
| 71-43-2 | BENZENE | 1 | 0.3 | U | 1 | 0.3 |
| 79-01-6 | TRICHLOROETHENE | 1 | 0.5 | U | 1 | 0.5 |
| 78-87-5 | 1,2-DICHLOROPROPANE | 1 | 0.33 | U | 1 | 0.33 |
| 74-95-3 | DIBROMOMETHANE | 1 | 0.32 | U | 1 | 0.32 |
| 75-27-4 | BROMODICHLOROMETHANE | 1 | 0.32 | U | 1 | 0.32 |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 1 | 0.3 | U | 1 | 0.3 |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Method Blank****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** VL210326-3MB**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** N/A**Date Extracted:** 26-Mar-21**Date Analyzed:** 26-Mar-21**Prep Batch:** VL210326-3**QC Batch ID:** VL210326-3-3**Run ID:** VL210326-3A**Cleanup:** NONE**Basis:** N/A**File Name:** C1092**Sample Aliquot:** 10 ml**Final Volume:** 10 ml**Result Units:** UG/L**Clean DF:** 1

| CASNO | Target Analyte | DF | Result | Result Qualifier | Reporting Limit | MDL |
|------------|-----------------------------|----|--------|------------------|-----------------|------|
| 108-10-1 | 4-METHYL-2-PENTANONE | 1 | 3 | U | 10 | 3 |
| 108-88-3 | TOLUENE | 1 | 0.34 | U | 1 | 0.34 |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 1 | 0.3 | U | 1 | 0.3 |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 1 | 0.33 | U | 1 | 0.33 |
| 591-78-6 | 2-HEXANONE | 1 | 3 | U | 10 | 3 |
| 127-18-4 | TETRACHLOROETHENE | 1 | 0.35 | U | 1 | 0.35 |
| 124-48-1 | DIBROMOCHLOROMETHANE | 1 | 0.31 | U | 1 | 0.31 |
| 106-93-4 | 1,2-DIBROMOETHANE | 1 | 0.37 | U | 1 | 0.37 |
| 108-90-7 | CHLOROBENZENE | 1 | 0.34 | U | 1 | 0.34 |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 1 | 0.31 | U | 1 | 0.31 |
| 100-41-4 | ETHYLBENZENE | 1 | 0.33 | U | 1 | 0.33 |
| 100-42-5 | STYRENE | 1 | 0.3 | U | 1 | 0.3 |
| 75-25-2 | BROMOFORM | 1 | 0.3 | U | 1 | 0.3 |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 1 | 0.51 | U | 1 | 0.51 |
| 79-34-5 | 1,1,1,2-TETRACHLOROETHANE | 1 | 0.39 | U | 1 | 0.39 |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1 | 0.3 | U | 1 | 0.3 |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 1 | 0.71 | U | 2 | 0.71 |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 1 | 0.6 | U | 2 | 0.6 |
| 75-05-8 | ACETONITRILE | 1 | 15 | U | 50 | 15 |
| 107-05-1 | ALLYL CHLORIDE | 1 | 0.3 | U | 1 | 0.3 |
| 97-63-2 | ETHYL METHACRYLATE | 1 | 0.34 | U | 1 | 0.34 |
| 78-83-1 | ISOBUTYL ALCOHOL | 1 | 30 | U | 100 | 30 |
| 126-98-7 | METHACRYLONITRILE | 1 | 3 | U | 10 | 3 |
| 80-62-6 | METHYL METHACRYLATE | 1 | 1.5 | U | 5 | 1.5 |
| 107-12-0 | PROPIONITRILE | 1 | 5.3 | U | 50 | 5.3 |
| 126-99-8 | CHLOROPRENE | 1 | 0.34 | U | 1 | 0.34 |
| 1330-20-7 | TOTAL XYLENES | 1 | 1 | U | 1 | |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Method Blank****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** VL210326-3MB**Sample Matrix:** WATER

% Moisture: N/A

Date Collected: N/A**Date Extracted:** 26-Mar-21**Date Analyzed:** 26-Mar-21**Prep Batch:** VL210326-3**QCBatchID:** VL210326-3-3**Run ID:** VL210326-3A**Cleanup:** NONE**Basis:** N/A**File Name:** C1092**Sample Aliquot:** 1 ml**Final Volume:** 1 ml**Result Units:** UG/L**Clean DF:** 1

| CASNO | Target Analyte | DF | Result | Result Qualifier | Reporting Limit | MDL |
|-------|----------------|----|--------|------------------|-----------------|-----|
|-------|----------------|----|--------|------------------|-----------------|-----|

Surrogate Recovery

| CASNO | Surrogate Analyte | Result | Flag | Spike Amount | Percent Recovery | Control Limits |
|-----------|----------------------|--------|------|--------------|------------------|----------------|
| 460-00-4 | 4-BROMOFLUOROBENZENE | 24.6 | | 25 | 98 | 70 - 130 |
| 1868-53-7 | DIBROMOFLUOROMETHANE | 24.7 | | 25 | 99 | 70 - 130 |
| 2037-26-5 | TOLUENE-D8 | 24.8 | | 25 | 99 | 70 - 130 |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Sample Results****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| |
|---------------------------|
| Field ID: B405M4 |
| Lab ID: 2103436-19 |

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 18-Mar-21
Date Extracted: 26-Mar-21
Date Analyzed: 26-Mar-21
Prep Method: SW5030 Rev C

Prep Batch: VL210326-3
QC Batch ID: VL210326-3-3
Run ID: VL210326-3A
Cleanup: NONE
Basis: As Received
File Name: C1107

Analyst: Tyler Knaebel
Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

Analysis ReqCode: 8260_VOA_GCM

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|----------|--------------------------|-----------------|--------|------------------|-----------------|------|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 1 | 0.55 | U | 1 | 0.55 |
| 74-87-3 | CHLOROMETHANE | 1 | 0.45 | U | 1 | 0.45 |
| 75-01-4 | VINYL CHLORIDE | 1 | 0.38 | U | 1 | 0.38 |
| 74-83-9 | BROMOMETHANE | 1 | 0.61 | U | 1 | 0.61 |
| 75-00-3 | CHLOROETHANE | 1 | 0.47 | U | 1 | 0.47 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 1 | 0.38 | U | 1 | 0.38 |
| 107-02-8 | ACROLEIN | 1 | 6.8 | U | 50 | 6.8 |
| 75-35-4 | 1,1-DICHLOROETHENE | 1 | 0.48 | U | 1 | 0.48 |
| 67-64-1 | ACETONE | 1 | 5.4 | U | 10 | 5.4 |
| 74-88-4 | IODOMETHANE | 1 | 1.4 | U | 5 | 1.4 |
| 75-15-0 | CARBON DISULFIDE | 1 | 0.31 | U | 1 | 0.31 |
| 75-09-2 | METHYLENE CHLORIDE | 1 | 1 | U | 2 | 1 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 1 | 0.42 | U | 1 | 0.42 |
| 107-13-1 | ACRYLONITRILE | 1 | 4.8 | U | 10 | 4.8 |
| 75-34-3 | 1,1-DICHLOROETHANE | 1 | 0.32 | U | 1 | 0.32 |
| 108-05-4 | VINYL ACETATE | 1 | 0.8 | U | 2 | 0.8 |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 1 | 0.39 | U | 1 | 0.39 |
| 78-93-3 | 2-BUTANONE | 1 | 3 | U | 10 | 3 |
| 67-66-3 | CHLOROFORM | 1 | 0.58 | J | 1 | 0.31 |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 1 | 0.36 | U | 1 | 0.36 |
| 56-23-5 | CARBON TETRACHLORIDE | 1 | 20 | | 1 | 0.38 |
| 107-06-2 | 1,2-DICHLOROETHANE | 1 | 0.41 | U | 1 | 0.41 |
| 71-43-2 | BENZENE | 1 | 0.3 | U | 1 | 0.3 |
| 79-01-6 | TRICHLOROETHENE | 1 | 0.5 | U | 1 | 0.5 |
| 78-87-5 | 1,2-DICHLOROPROPANE | 1 | 0.33 | U | 1 | 0.33 |
| 74-95-3 | DIBROMOMETHANE | 1 | 0.32 | U | 1 | 0.32 |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B405M4 |
| Lab ID: | 2103436-19 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 18-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

File Name: C1107

Analyst: Tyler Knaebel

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8260_VOA_GCM

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|------------|-----------------------------|-----------------|--------|------------------|-----------------|------|
| 75-27-4 | BROMODICHLOROMETHANE | 1 | 0.32 | U | 1 | 0.32 |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 1 | 0.3 | U | 1 | 0.3 |
| 108-10-1 | 4-METHYL-2-PENTANONE | 1 | 3 | U | 10 | 3 |
| 108-88-3 | TOLUENE | 1 | 0.34 | U | 1 | 0.34 |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 1 | 0.3 | U | 1 | 0.3 |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 1 | 0.33 | U | 1 | 0.33 |
| 591-78-6 | 2-HEXANONE | 1 | 3 | U | 10 | 3 |
| 127-18-4 | TETRACHLOROETHENE | 1 | 0.35 | U | 1 | 0.35 |
| 124-48-1 | DIBROMOCHLOROMETHANE | 1 | 0.31 | U | 1 | 0.31 |
| 106-93-4 | 1,2-DIBROMOETHANE | 1 | 0.37 | U | 1 | 0.37 |
| 108-90-7 | CHLOROBENZENE | 1 | 0.34 | U | 1 | 0.34 |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 1 | 0.31 | U | 1 | 0.31 |
| 100-41-4 | ETHYLBENZENE | 1 | 0.33 | U | 1 | 0.33 |
| 100-42-5 | STYRENE | 1 | 0.3 | U | 1 | 0.3 |
| 75-25-2 | BROMOFORM | 1 | 0.3 | U | 1 | 0.3 |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 1 | 0.51 | U | 1 | 0.51 |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 1 | 0.39 | U | 1 | 0.39 |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1 | 0.3 | U | 1 | 0.3 |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 1 | 0.71 | U | 2 | 0.71 |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 1 | 0.6 | U | 2 | 0.6 |
| 75-05-8 | ACETONITRILE | 1 | 15 | U | 50 | 15 |
| 107-05-1 | ALLYL CHLORIDE | 1 | 0.3 | U | 1 | 0.3 |
| 97-63-2 | ETHYL METHACRYLATE | 1 | 0.34 | U | 1 | 0.34 |
| 78-83-1 | ISOBUTYL ALCOHOL | 1 | 30 | U | 100 | 30 |
| 126-98-7 | METHACRYLONITRILE | 1 | 3 | U | 10 | 3 |
| 80-62-6 | METHYL METHACRYLATE | 1 | 1.5 | U | 5 | 1.5 |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Sample Results****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| |
|---------------------------|
| Field ID: B405M4 |
| Lab ID: 2103436-19 |

Sample Matrix: WATER**% Moisture:** N/A**Date Collected:** 18-Mar-21**Date Extracted:** 26-Mar-21**Date Analyzed:** 26-Mar-21**Prep Method:** SW5030 Rev C**Prep Batch:** VL210326-3**QCBatchID:** VL210326-3-3**Run ID:** VL210326-3A**Cleanup:** NONE**Basis:** As Received**File Name:** C1107**Analyst:** Tyler Knaebel**Sample Aliquot:** 10 ml**Final Volume:** 10 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** 8260_VOA_GCM

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|------|
| 107-12-0 | PROPIONITRILE | 1 | 5.3 | U | 50 | 5.3 |
| 126-99-8 | CHLOROPRENE | 1 | 0.34 | U | 1 | 0.34 |
| 1330-20-7 | TOTAL XYLENES | 1 | 1 | U | 1 | |

Surrogate Recovery

| CASNO | Surrogate Analyte | Result | Flag | Spike Amount | Percent Recovery | Control Limits |
|-----------|----------------------|--------|------|--------------|------------------|----------------|
| 460-00-4 | 4-BROMOFLUOROBENZENE | 25.1 | | 25 | 100 | 70 - 130 |
| 1868-53-7 | DIBROMOFLUOROMETHANE | 24.4 | | 25 | 97 | 70 - 130 |
| 2037-26-5 | TOLUENE-D8 | 24.1 | | 25 | 96 | 70 - 130 |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Laboratory Control Sample and Laboratory Control Sample Duplicate**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/26/2021

Date Analyzed: 03/26/2021

Prep Method: SW5030C

Prep Batch: VL210326-3

QC Batch ID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: N/A

File Name: C1089

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|----------|--------------------------|-------------|------------|-----------------|------------------|------------|----------------|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 10 | 9.48 | 1 | | 95 | 70 - 130% |
| 74-87-3 | CHLOROMETHANE | 10 | 8.07 | 1 | | 81 | 70 - 130% |
| 75-01-4 | VINYL CHLORIDE | 10 | 9.05 | 1 | | 91 | 70 - 130% |
| 74-83-9 | BROMOMETHANE | 10 | 8.9 | 1 | | 89 | 70 - 130% |
| 75-00-3 | CHLOROETHANE | 10 | 9.46 | 1 | | 95 | 70 - 130% |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 10 | 13.3 | 1 | * | 133 | 70 - 130% |
| 107-02-8 | ACROLEIN | 100 | 159 | 50 | * | 159 | 70 - 130% |
| 75-35-4 | 1,1-DICHLOROETHENE | 10 | 10.1 | 1 | | 101 | 70 - 130% |
| 67-64-1 | ACETONE | 40 | 35.5 | 10 | | 89 | 70 - 130% |
| 74-88-4 | IODOMETHANE | 10 | 7.9 | 5 | | 79 | 70 - 130% |
| 75-15-0 | CARBON DISULFIDE | 10 | 9.94 | 1 | | 99 | 70 - 130% |
| 75-09-2 | METHYLENE CHLORIDE | 10 | 9.56 | 2 | | 96 | 70 - 130% |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 10 | 9.73 | 1 | | 97 | 70 - 130% |
| 107-13-1 | ACRYLONITRILE | 100 | 107 | 10 | | 107 | 70 - 130% |
| 75-34-3 | 1,1-DICHLOROETHANE | 10 | 9.86 | 1 | | 99 | 70 - 130% |
| 108-05-4 | VINYL ACETATE | 10 | 9.57 | 2 | | 96 | 70 - 130% |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 10 | 9.59 | 1 | | 96 | 70 - 130% |
| 78-93-3 | 2-BUTANONE | 40 | 39.5 | 10 | | 99 | 70 - 130% |
| 67-66-3 | CHLOROFORM | 10 | 9.66 | 1 | | 97 | 70 - 130% |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 10 | 10.1 | 1 | | 101 | 70 - 130% |
| 56-23-5 | CARBON TETRACHLORIDE | 10 | 10.2 | 1 | | 102 | 70 - 130% |
| 107-06-2 | 1,2-DICHLOROETHANE | 10 | 9.21 | 1 | | 92 | 70 - 130% |
| 71-43-2 | BENZENE | 10 | 9.62 | 1 | | 96 | 70 - 130% |
| 79-01-6 | TRICHLOROETHENE | 10 | 9.6 | 1 | | 96 | 70 - 130% |
| 78-87-5 | 1,2-DICHLOROPROPANE | 10 | 9.47 | 1 | | 95 | 70 - 130% |
| 74-95-3 | DIBROMOMETHANE | 10 | 9.9 | 1 | | 99 | 70 - 130% |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/26/2021

Date Analyzed: 03/26/2021

Prep Method: SW5030C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: N/A

File Name: C1089

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|-------------|-----------------------------|-------------|------------|-----------------|------------------|------------|----------------|
| 75-27-4 | BROMODICHLOROMETHANE | 10 | 9.52 | 1 | | 95 | 70 - 130% |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 10 | 9.77 | 1 | | 98 | 70 - 130% |
| 108-10-1 | 4-METHYL-2-PENTANONE | 40 | 40.6 | 10 | | 101 | 70 - 130% |
| 108-88-3 | TOLUENE | 10 | 9.34 | 1 | | 93 | 70 - 130% |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 10 | 9.92 | 1 | | 99 | 70 - 130% |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 10 | 9.67 | 1 | | 97 | 70 - 130% |
| 591-78-6 | 2-HEXANONE | 40 | 41.7 | 10 | | 104 | 70 - 130% |
| 127-18-4 | TETRACHLOROETHENE | 10 | 9.7 | 1 | | 97 | 70 - 130% |
| 124-48-1 | DIBROMOCHLOROMETHANE | 10 | 9.25 | 1 | | 93 | 70 - 130% |
| 106-93-4 | 1,2-DIBROMOETHANE | 10 | 9.74 | 1 | | 97 | 70 - 130% |
| 108-90-7 | CHLOROBENZENE | 10 | 9.29 | 1 | | 93 | 70 - 130% |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 10 | 9.47 | 1 | | 95 | 70 - 130% |
| 100-41-4 | ETHYLBENZENE | 10 | 9.57 | 1 | | 96 | 70 - 130% |
| 179601-23-1 | M+P-XYLENE | 20 | 18.2 | 1 | | 91 | 70 - 130% |
| 95-47-6 | O-XYLENE | 10 | 9.35 | 1 | | 94 | 70 - 130% |
| 100-42-5 | STYRENE | 10 | 9.64 | 1 | | 96 | 70 - 130% |
| 75-25-2 | BROMOFORM | 10 | 9.43 | 1 | | 94 | 70 - 130% |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 10 | 9.84 | 1 | | 98 | 70 - 130% |
| 79-34-5 | 1,1,1,2-TETRACHLOROETHANE | 10 | 9.94 | 1 | | 99 | 70 - 130% |
| 106-46-7 | 1,4-DICHLOROBENZENE | 10 | 9.14 | 1 | | 91 | 70 - 130% |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 10 | 9.07 | 2 | | 91 | 70 - 130% |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 10 | 10.5 | 2 | | 105 | 70 - 130% |
| 75-05-8 | ACETONITRILE | 100 | 87.6 | 50 | | 88 | 70 - 130% |
| 107-05-1 | ALLYL CHLORIDE | 10 | 9.69 | 1 | | 97 | 70 - 130% |
| 97-63-2 | ETHYL METHACRYLATE | 10 | 10.3 | 1 | | 103 | 70 - 130% |
| 78-83-1 | ISOBUTYL ALCOHOL | 200 | 212 | 100 | | 106 | 70 - 130% |
| 126-98-7 | METHACRYLONITRILE | 10 | 10.1 | 10 | | 101 | 70 - 130% |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Laboratory Control Sample and Laboratory Control Sample Duplicate**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCS

Sample Matrix: WATER

Prep Batch: VL210326-3

Sample Aliquot: 10 ml

% Moisture: N/A

QCBatchID: VL210326-3-3

Final Volume: 10 ml

Date Collected: N/A

Run ID: VL210326-3A

Result Units: UG/L

Date Extracted: 03/26/2021

Cleanup: NONE

Clean DF: 1

Date Analyzed: 03/26/2021

Basis: N/A

Prep Method: SW5030C

File Name: C1089

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|----------|---------------------|-------------|------------|-----------------|------------------|------------|----------------|
| 80-62-6 | METHYL METHACRYLATE | 10 | 10.7 | 5 | | 107 | 70 - 130% |
| 107-12-0 | PROPIONITRILE | 100 | 104 | 50 | | 104 | 70 - 130% |
| 126-99-8 | CHLOROPRENE | 10 | 9.87 | 1 | | 99 | 70 - 130% |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/26/2021

Date Analyzed: 03/26/2021

Prep Method: SW5030C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: N/A

File Name: C1090

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCSD Result | Reporting Limit | Result Qualifier | LCSD % Rec. | RPD Limit | RPD |
|----------|--------------------------|-------------|-------------|-----------------|------------------|-------------|-----------|-----|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 10 | 9.26 | 1 | | 93 | 20 | 2 |
| 74-87-3 | CHLOROMETHANE | 10 | 7.9 | 1 | | 79 | 20 | 2 |
| 75-01-4 | VINYL CHLORIDE | 10 | 8.5 | 1 | | 85 | 20 | 6 |
| 74-83-9 | BROMOMETHANE | 10 | 7.95 | 1 | | 79 | 20 | 11 |
| 75-00-3 | CHLOROETHANE | 10 | 8.12 | 1 | | 81 | 20 | 15 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 10 | 13 | 1 | | 130 | 20 | 3 |
| 107-02-8 | ACROLEIN | 100 | 159 | 50 | * | 159 | 20 | 0 |
| 75-35-4 | 1,1-DICHLOROETHENE | 10 | 9.58 | 1 | | 96 | 20 | 6 |
| 67-64-1 | ACETONE | 40 | 35.1 | 10 | | 88 | 30 | 1 |
| 74-88-4 | IODOMETHANE | 10 | 8.31 | 5 | | 83 | 20 | 5 |
| 75-15-0 | CARBON DISULFIDE | 10 | 9.43 | 1 | | 94 | 20 | 5 |
| 75-09-2 | METHYLENE CHLORIDE | 10 | 9.46 | 2 | | 95 | 20 | 1 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 10 | 9.63 | 1 | | 96 | 20 | 1 |
| 107-13-1 | ACRYLONITRILE | 100 | 110 | 10 | | 110 | 20 | 3 |
| 75-34-3 | 1,1-DICHLOROETHANE | 10 | 9.66 | 1 | | 97 | 20 | 2 |
| 108-05-4 | VINYL ACETATE | 10 | 8.44 | 2 | | 84 | 20 | 13 |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 10 | 9.32 | 1 | | 93 | 20 | 3 |
| 78-93-3 | 2-BUTANONE | 40 | 41.8 | 10 | | 104 | 30 | 5 |
| 67-66-3 | CHLOROFORM | 10 | 9.51 | 1 | | 95 | 20 | 2 |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 10 | 9.56 | 1 | | 96 | 20 | 5 |
| 56-23-5 | CARBON TETRACHLORIDE | 10 | 9.72 | 1 | | 97 | 20 | 4 |
| 107-06-2 | 1,2-DICHLOROETHANE | 10 | 9.48 | 1 | | 95 | 20 | 3 |
| 71-43-2 | BENZENE | 10 | 9.34 | 1 | | 93 | 20 | 3 |
| 79-01-6 | TRICHLOROETHENE | 10 | 9.51 | 1 | | 95 | 20 | 1 |
| 78-87-5 | 1,2-DICHLOROPROPANE | 10 | 9.57 | 1 | | 96 | 20 | 1 |
| 74-95-3 | DIBROMOMETHANE | 10 | 9.83 | 1 | | 98 | 20 | 1 |
| 75-27-4 | BROMODICHLOROMETHANE | 10 | 9.38 | 1 | | 94 | 20 | 1 |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/26/2021

Date Analyzed: 03/26/2021

Prep Method: SW5030C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: N/A

File Name: C1090

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCSD Result | Reporting Limit | Result Qualifier | LCSD % Rec. | RPD Limit | RPD |
|-------------|-----------------------------|-------------|-------------|-----------------|------------------|-------------|-----------|-----|
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 10 | 9.61 | 1 | | 96 | 20 | 2 |
| 108-10-1 | 4-METHYL-2-PENTANONE | 40 | 41.3 | 10 | | 103 | 30 | 2 |
| 108-88-3 | TOLUENE | 10 | 9.05 | 1 | | 91 | 20 | 3 |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 10 | 9.23 | 1 | | 92 | 20 | 7 |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 10 | 9.77 | 1 | | 98 | 20 | 1 |
| 591-78-6 | 2-HEXANONE | 40 | 41.3 | 10 | | 103 | 30 | 1 |
| 127-18-4 | TETRACHLOROETHENE | 10 | 8.95 | 1 | | 90 | 20 | 8 |
| 124-48-1 | DIBROMOCHLOROMETHANE | 10 | 8.92 | 1 | | 89 | 20 | 4 |
| 106-93-4 | 1,2-DIBROMOETHANE | 10 | 9.54 | 1 | | 95 | 20 | 2 |
| 108-90-7 | CHLOROENZENE | 10 | 9.1 | 1 | | 91 | 20 | 2 |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 10 | 8.98 | 1 | | 90 | 20 | 5 |
| 100-41-4 | ETHYLBENZENE | 10 | 9.29 | 1 | | 93 | 20 | 3 |
| 179601-23-1 | M+P-XYLENE | 20 | 17.6 | 1 | | 88 | 20 | 3 |
| 95-47-6 | O-XYLENE | 10 | 9.01 | 1 | | 90 | 20 | 4 |
| 100-42-5 | STYRENE | 10 | 9.39 | 1 | | 94 | 20 | 3 |
| 75-25-2 | BROMOFORM | 10 | 9.23 | 1 | | 92 | 20 | 2 |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 10 | 9.89 | 1 | | 99 | 20 | 0 |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | 10 | 1 | | 100 | 20 | 1 |
| 106-46-7 | 1,4-DICHLOROENZENE | 10 | 9.15 | 1 | | 92 | 20 | 0 |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 10 | 9.64 | 2 | | 96 | 20 | 6 |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 10 | 9.76 | 2 | | 98 | 20 | 7 |
| 75-05-8 | ACETONITRILE | 100 | 90.3 | 50 | | 90 | 20 | 3 |
| 107-05-1 | ALLYL CHLORIDE | 10 | 9.63 | 1 | | 96 | 20 | 1 |
| 97-63-2 | ETHYL METHACRYLATE | 10 | 10.4 | 1 | | 104 | 20 | 1 |
| 78-83-1 | ISOBUTYL ALCOHOL | 200 | 210 | 100 | | 105 | 20 | 1 |
| 126-98-7 | METHACRYLONITRILE | 10 | 10.4 | 10 | | 104 | 20 | 3 |
| 80-62-6 | METHYL METHACRYLATE | 10 | 10.5 | 5 | | 105 | 20 | 2 |

Data Package ID: VL2103436-1

GC/MS Volatiles**Method SW8260_25C****Laboratory Control Sample and Laboratory Control Sample Duplicate**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: VL210326-3LCSD

Sample Matrix: WATER

Prep Batch: VL210326-3

Sample Aliquot: 10 ml

% Moisture: N/A

QC Batch ID: VL210326-3-3

Final Volume: 10 ml

Date Collected: N/A

Run ID: VL210326-3A

Result Units: UG/L

Date Extracted: 03/26/2021

Cleanup: NONE

Clean DF: 1

Date Analyzed: 03/26/2021

Basis: N/A

Prep Method: SW5030C

File Name: C1090

| CASNO | Target Analyte | Spike Added | LCSD Result | Reporting Limit | Result Qualifier | LCSD % Rec. | RPD Limit | RPD |
|----------|----------------|-------------|-------------|-----------------|------------------|-------------|-----------|-----|
| 107-12-0 | PROPIONITRILE | 100 | 103 | 50 | | 103 | 20 | 1 |
| 126-99-8 | CHLOROPRENE | 10 | 9.56 | 1 | | 96 | 20 | 3 |

Surrogate Recovery LCS/LCSD

| CASNO | Target Analyte | Spike Added | LCS % Rec. | LCS Flag | LCSD % Rec. | LCSD Flag | Control Limits |
|-----------|----------------------|-------------|------------|----------|-------------|-----------|----------------|
| 460-00-4 | 4-BROMOFLUOROBENZENE | 25 | 97 | | 97 | | 70 - 130 |
| 1868-53-7 | DIBROMOFLUOROMETHANE | 25 | 100 | | 99 | | 70 - 130 |
| 2037-26-5 | TOLUENE-D8 | 25 | 97 | | 96 | | 70 - 130 |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: SHARED QC

LabID: 2103280-6MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: C1102

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|----------|--------------------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 0.55 | UX | 9.81 | X | 1 | 10 | 98 | 70 - 130% |
| 74-87-3 | CHLOROMETHANE | 0.45 | UX | 8.8 | X | 1 | 10 | 88 | 70 - 130% |
| 75-01-4 | VINYL CHLORIDE | 0.38 | UX | 10.4 | X | 1 | 10 | 104 | 70 - 130% |
| 74-83-9 | BROMOMETHANE | 0.61 | UX | 9.37 | X | 1 | 10 | 94 | 70 - 130% |
| 75-00-3 | CHLOROETHANE | 0.47 | UX | 11.1 | X | 1 | 10 | 111 | 70 - 130% |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 0.38 | UX | 9.42 | X | 1 | 10 | 94 | 70 - 130% |
| 107-02-8 | ACROLEIN | 6.8 | UX | 135 | *X | 50 | 100 | 135 | 70 - 130% |
| 75-35-4 | 1,1-DICHLOROETHENE | 0.48 | UX | 10.2 | X | 1 | 10 | 102 | 70 - 130% |
| 67-64-1 | ACETONE | 5.4 | UX | 33.1 | X | 10 | 40 | 83 | 70 - 130% |
| 74-88-4 | IODOMETHANE | 1.4 | UX | 9.24 | X | 5 | 10 | 92 | 70 - 130% |
| 75-15-0 | CARBON DISULFIDE | 0.31 | UX | 9.99 | X | 1 | 10 | 100 | 70 - 130% |
| 75-09-2 | METHYLENE CHLORIDE | 1 | UX | 9.82 | X | 2 | 10 | 98 | 70 - 130% |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 0.42 | UX | 10 | X | 1 | 10 | 100 | 70 - 130% |
| 107-13-1 | ACRYLONITRILE | 4.8 | UX | 97.2 | X | 10 | 100 | 97 | 70 - 130% |
| 75-34-3 | 1,1-DICHLOROETHANE | 0.32 | UX | 9.78 | X | 1 | 10 | 98 | 70 - 130% |
| 108-05-4 | VINYL ACETATE | 0.8 | UX | 9.51 | X | 2 | 10 | 95 | 70 - 130% |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 0.39 | UX | 9.94 | X | 1 | 10 | 99 | 70 - 130% |
| 78-93-3 | 2-BUTANONE | 3 | UX | 37.8 | X | 10 | 40 | 95 | 70 - 130% |
| 67-66-3 | CHLOROFORM | 0.71 | JX | 10.5 | X | 1 | 10 | 98 | 70 - 130% |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 0.36 | UX | 10.3 | X | 1 | 10 | 103 | 70 - 130% |
| 56-23-5 | CARBON TETRACHLORIDE | 2.1 | X | 12.4 | X | 1 | 10 | 103 | 70 - 130% |
| 107-06-2 | 1,2-DICHLOROETHANE | 0.41 | UX | 9.4 | X | 1 | 10 | 94 | 70 - 130% |
| 71-43-2 | BENZENE | 0.3 | UX | 9.81 | X | 1 | 10 | 98 | 70 - 130% |
| 79-01-6 | TRICHLOROETHENE | 0.5 | UX | 9.95 | X | 1 | 10 | 100 | 70 - 130% |
| 78-87-5 | 1,2-DICHLOROPROPANE | 0.33 | UX | 9.49 | X | 1 | 10 | 95 | 70 - 130% |
| 74-95-3 | DIBROMOMETHANE | 0.32 | UX | 10.1 | X | 1 | 10 | 101 | 70 - 130% |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: SHARED QC

LabID: 2103280-6MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: C1102

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|------------|-----------------------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 75-27-4 | BROMODICHLOROMETHANE | 0.32 | UX | 9.33 | X | 1 | 10 | 93 | 70 - 130% |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 0.3 | UX | 10.1 | X | 1 | 10 | 101 | 70 - 130% |
| 108-10-1 | 4-METHYL-2-PENTANONE | 3 | UX | 38.1 | X | 10 | 40 | 95 | 70 - 130% |
| 108-88-3 | TOLUENE | 0.34 | UX | 9.78 | X | 1 | 10 | 98 | 70 - 130% |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 0.3 | UX | 10.1 | X | 1 | 10 | 101 | 70 - 130% |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 0.33 | UX | 10.1 | X | 1 | 10 | 101 | 70 - 130% |
| 591-78-6 | 2-HEXANONE | 3 | UX | 41.9 | X | 10 | 40 | 105 | 70 - 130% |
| 127-18-4 | TETRACHLOROETHENE | 0.35 | UX | 9.72 | X | 1 | 10 | 97 | 70 - 130% |
| 124-48-1 | DIBROMOCHLOROMETHANE | 0.31 | UX | 9.28 | X | 1 | 10 | 93 | 70 - 130% |
| 106-93-4 | 1,2-DIBROMOETHANE | 0.37 | UX | 10.1 | X | 1 | 10 | 101 | 70 - 130% |
| 108-90-7 | CHLOROBENZENE | 0.34 | UX | 9.79 | X | 1 | 10 | 98 | 70 - 130% |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 0.31 | UX | 9.69 | X | 1 | 10 | 97 | 70 - 130% |
| 100-41-4 | ETHYLBENZENE | 0.33 | UX | 10.2 | X | 1 | 10 | 102 | 70 - 130% |
| 100-42-5 | STYRENE | 0.3 | UX | 9.96 | X | 1 | 10 | 100 | 70 - 130% |
| 75-25-2 | BROMOFORM | 0.3 | UX | 8.83 | X | 1 | 10 | 88 | 70 - 130% |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 0.51 | UX | 9.95 | X | 1 | 10 | 100 | 70 - 130% |
| 79-34-5 | 1,1,1,2-TETRACHLOROETHANE | 0.39 | UX | 10.7 | X | 1 | 10 | 107 | 70 - 130% |
| 106-46-7 | 1,4-DICHLOROETHANE | 0.3 | UX | 9.65 | X | 1 | 10 | 96 | 70 - 130% |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 0.71 | UX | 9.56 | X | 2 | 10 | 96 | 70 - 130% |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 0.6 | UX | 10.2 | X | 2 | 10 | 102 | 70 - 130% |
| 75-05-8 | ACETONITRILE | 15 | UX | 72.8 | X | 50 | 100 | 73 | 70 - 130% |
| 107-05-1 | ALLYL CHLORIDE | 0.3 | UX | 10.3 | X | 1 | 10 | 103 | 70 - 130% |
| 97-63-2 | ETHYL METHACRYLATE | 0.34 | UX | 10.7 | X | 1 | 10 | 107 | 70 - 130% |
| 78-83-1 | ISOBUTYL ALCOHOL | 30 | UX | 179 | X | 100 | 200 | 89 | 70 - 130% |
| 126-98-7 | METHACRYLONITRILE | 3 | UX | 10.1 | X | 10 | 10 | 101 | 70 - 130% |
| 80-62-6 | METHYL METHACRYLATE | 1.5 | UX | 10.2 | X | 5 | 10 | 102 | 70 - 130% |

Data Package ID: VL2103436-1

GC/MS Volatiles
Method SW8260_25C
Matrix Spike And Matrix Spike Duplicate

Lab Name:**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**LS -- Fort Collins****Field ID:** SHARED QC**LabID:** 2103280-6MS**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 11-Mar-21**Date Extracted:** 26-Mar-21**Date Analyzed:** 26-Mar-21**Prep Method:** SW5030 Rev C**Prep Batch:** VL210326-3**QCBatchID:** VL210326-3-3**Run ID:** VL210326-3A**Cleanup:** NONE**Basis:** As Received**Sample Aliquot:** 10 ml**Final Volume:** 10 ml**Result Units:** UG/L**File Name:** C1102

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|----------|----------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 107-12-0 | PROPIONITRILE | 5.3 | UX | 95.9 | X | 50 | 100 | 96 | 70 - 130% |
| 126-99-8 | CHLOROPRENE | 0.34 | UX | 9.97 | X | 1 | 10 | 100 | 70 - 130% |

Data Package ID: VL2103436-1

Date Printed: Thursday, April 08, 2021

ALS -- Fort Collins

Page 3 of 6

LIMS Version: 7.014

GC/MS Volatiles

Method SW8260_25C

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: SHARED QC

LabID: 2103280-6MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: C1103

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|----------|--------------------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 75-71-8 | DICHLORODIFLUOROMETHANE | 9.46 | X | 10 | 95 | 1 | 20 | 4 |
| 74-87-3 | CHLOROMETHANE | 9.93 | X | 10 | 99 | 1 | 20 | 12 |
| 75-01-4 | VINYL CHLORIDE | 11.3 | X | 10 | 113 | 1 | 20 | 9 |
| 74-83-9 | BROMOMETHANE | 11 | X | 10 | 110 | 1 | 20 | 16 |
| 75-00-3 | CHLOROETHANE | 12.4 | X | 10 | 124 | 1 | 20 | 11 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | 9.34 | X | 10 | 93 | 1 | 20 | 1 |
| 107-02-8 | ACROLEIN | 134 | *X | 100 | 134 | 50 | 20 | 0 |
| 75-35-4 | 1,1-DICHLOROETHENE | 9.77 | X | 10 | 98 | 1 | 20 | 5 |
| 67-64-1 | ACETONE | 33.9 | X | 40 | 85 | 10 | 30 | 2 |
| 74-88-4 | IODOMETHANE | 9.34 | X | 10 | 93 | 5 | 20 | 1 |
| 75-15-0 | CARBON DISULFIDE | 9.54 | X | 10 | 95 | 1 | 20 | 5 |
| 75-09-2 | METHYLENE CHLORIDE | 9.23 | X | 10 | 92 | 2 | 20 | 6 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 9.7 | X | 10 | 97 | 1 | 20 | 3 |
| 107-13-1 | ACRYLONITRILE | 99.2 | X | 100 | 99 | 10 | 20 | 2 |
| 75-34-3 | 1,1-DICHLOROETHANE | 9.69 | X | 10 | 97 | 1 | 20 | 1 |
| 108-05-4 | VINYL ACETATE | 9.09 | X | 10 | 91 | 2 | 20 | 5 |
| 156-59-2 | CIS-1,2-DICHLOROETHENE | 9.57 | X | 10 | 96 | 1 | 20 | 4 |
| 78-93-3 | 2-BUTANONE | 40.4 | X | 40 | 101 | 10 | 30 | 7 |
| 67-66-3 | CHLOROFORM | 10.3 | X | 10 | 96 | 1 | 20 | 2 |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 9.89 | X | 10 | 99 | 1 | 20 | 4 |
| 56-23-5 | CARBON TETRACHLORIDE | 11.9 | X | 10 | 98 | 1 | 20 | 4 |
| 107-06-2 | 1,2-DICHLOROETHANE | 9.31 | X | 10 | 93 | 1 | 20 | 1 |
| 71-43-2 | BENZENE | 9.34 | X | 10 | 93 | 1 | 20 | 5 |
| 79-01-6 | TRICHLOROETHENE | 9.77 | X | 10 | 98 | 1 | 20 | 2 |
| 78-87-5 | 1,2-DICHLOROPROPANE | 9.43 | X | 10 | 94 | 1 | 20 | 1 |
| 74-95-3 | DIBROMOMETHANE | 9.99 | X | 10 | 100 | 1 | 20 | 1 |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: SHARED QC

LabID: 2103280-6MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: C1103

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|------------|-----------------------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 75-27-4 | BROMODICHLOROMETHANE | 9.41 | X | 10 | 94 | 1 | 20 | 1 |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 9.53 | X | 10 | 95 | 1 | 20 | 6 |
| 108-10-1 | 4-METHYL-2-PENTANONE | 38.3 | X | 40 | 96 | 10 | 30 | 0 |
| 108-88-3 | TOLUENE | 9.49 | X | 10 | 95 | 1 | 20 | 3 |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | 9.84 | X | 10 | 98 | 1 | 20 | 3 |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 9.86 | X | 10 | 99 | 1 | 20 | 2 |
| 591-78-6 | 2-HEXANONE | 42.3 | X | 40 | 106 | 10 | 30 | 1 |
| 127-18-4 | TETRACHLOROETHENE | 9.48 | X | 10 | 95 | 1 | 20 | 2 |
| 124-48-1 | DIBROMOCHLOROMETHANE | 9 | X | 10 | 90 | 1 | 20 | 3 |
| 106-93-4 | 1,2-DIBROMOETHANE | 9.98 | X | 10 | 100 | 1 | 20 | 1 |
| 108-90-7 | CHLOROBENZENE | 9.76 | X | 10 | 98 | 1 | 20 | 0 |
| 630-20-6 | 1,1,1,2-TETRACHLOROETHANE | 9.52 | X | 10 | 95 | 1 | 20 | 2 |
| 100-41-4 | ETHYLBENZENE | 9.83 | X | 10 | 98 | 1 | 20 | 3 |
| 100-42-5 | STYRENE | 9.78 | X | 10 | 98 | 1 | 20 | 2 |
| 75-25-2 | BROMOFORM | 8.85 | X | 10 | 89 | 1 | 20 | 0 |
| 96-18-4 | 1,2,3-TRICHLOROPROPANE | 10.3 | X | 10 | 103 | 1 | 20 | 4 |
| 79-34-5 | 1,1,1,2-TETRACHLOROETHANE | 10.5 | X | 10 | 105 | 1 | 20 | 3 |
| 106-46-7 | 1,4-DICHLOROETHANE | 9.49 | X | 10 | 95 | 1 | 20 | 2 |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | 9.22 | X | 10 | 92 | 2 | 20 | 4 |
| 110-57-6 | TRANS-1,4-DICHLORO-2-BUTENE | 10.2 | X | 10 | 102 | 2 | 20 | 0 |
| 75-05-8 | ACETONITRILE | 78.2 | X | 100 | 78 | 50 | 20 | 7 |
| 107-05-1 | ALLYL CHLORIDE | 9.46 | X | 10 | 95 | 1 | 20 | 8 |
| 97-63-2 | ETHYL METHACRYLATE | 10.2 | X | 10 | 102 | 1 | 20 | 5 |
| 78-83-1 | ISOBUTYL ALCOHOL | 176 | X | 200 | 88 | 100 | 20 | 2 |
| 126-98-7 | METHACRYLONITRILE | 9.95 | JX | 10 | 100 | 10 | 20 | 1 |
| 80-62-6 | METHYL METHACRYLATE | 10.6 | X | 10 | 106 | 5 | 20 | 4 |

Data Package ID: VL2103436-1

GC/MS Volatiles

Method SW8260_25C

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: SHARED QC

LabID: 2103280-6MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11-Mar-21

Date Extracted: 26-Mar-21

Date Analyzed: 26-Mar-21

Prep Method: SW5030 Rev C

Prep Batch: VL210326-3

QCBatchID: VL210326-3-3

Run ID: VL210326-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

File Name: C1103

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|----------|----------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 107-12-0 | PROPIONITRILE | 97.6 | X | 100 | 98 | 50 | 20 | 2 |
| 126-99-8 | CHLOROPRENE | 9.48 | X | 10 | 95 | 1 | 20 | 5 |

Surrogate Recovery MS/MSD

| CASNO | Target Analyte | Spike Added | MS % Rec. | MS Flag | MSD % Rec. | MSD Flag | Control Limits |
|-----------|----------------------|-------------|-----------|---------|------------|----------|----------------|
| 460-00-4 | 4-BROMOFLUOROBENZENE | 25 | 100 | | 99 | | 70 - 130 |
| 1868-53-7 | DIBROMOFLUOROMETHANE | 25 | 99 | | 98 | | 70 - 130 |
| 2037-26-5 | TOLUENE-D8 | 25 | 99 | | 99 | | 70 - 130 |

Data Package ID: VL2103436-1

Prep Batch ID: VL210326-3

| | | | |
|-----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 03/26/21 | End Date: 03/26/21 | Concentration Method: NONE | Batch Created By: twk |
| Start Time: 12:54 | End Time: 23:28 | Extract Method: SW5030C | Date Created: 03/27/21 |
| Prep Analyst: Tyler Knaebel | | Initial Volume Units: ml | Time Created: 17:56 |
| Comments: | | Final Volume Units: ml | Validated By: twk |
| | | | Date Validated: 03/29/21 |
| | | | Time Validated: 13:30 |

QC Batch ID: VL210326-3-3

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| VL210326-3 | MB | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| VL210326-3 | LCS | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| VL210326-3 | LCSD | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| 2103280-6 | MS | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| 2103280-6 | MSD | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| 2103280-6 | SMP | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103280 |
| 2103435-1 | SMP | XXXXXX | WATER | XXXXXX | 10 | 10 | NONE | 1 | 2103435 |
| 2103436-19 | SMP | B405M4 | WATER | 3/18/2021 | 10 | 10 | NONE | 1 | 2103436 |

QC Types

| | | | | |
|------|-------------------------------------|--|------|--------------------------------------|
| CAR | Carrier reference sample | | DLS | Detection Limit Standard |
| DUP | Laboratory Duplicate | | LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate | | LODV | Limit of Detection Verification |
| LOQV | Limit of Quantitation Verification | | MB | Method Blank |
| MS | Laboratory Matrix Spike | | MSD | Laboratory Matrix Spike Duplicate |
| REP | Sample replicate | | RVS | Reporting Level Verification Standar |
| SMP | Field Sample | | SYS | Sample Yield Spike |



Gross Alpha/Beta Case Narrative

Central Plateau Cleanup Company, LLC

SURV, March 2021 – S21-003

Work Order Number: 2103436

1. The samples were prepared according to the current revision of SOP 702.
2. The samples were analyzed for gross alpha and beta activity by gas flow proportional counting according to the current revision of SOP 724. The analyses were completed on 04/03/2021. Gross alpha results are referenced to ^{241}Am . Gross beta results are referenced to $^{90}\text{Sr/Y}$.
3. The analysis results for these samples are reported in units of pCi/L. The samples were not filtered prior to analysis.
4. The duplicate of sample 2103504-2 and the matrix spike of sample 2103405-1 are shared for this work order. The duplicate and the matrix spike were performed on Central Plateau Cleanup Company, LLC samples. The results can be found in the following report.
5. In accordance with project specific instructions, the evaluation threshold for Relative Percent Difference (RPD) has been set at 20%. RPD is defined as:


$$\text{RPD} = \frac{|S - D|}{(S + D)/2} * 100$$

Where: S = sample activity result and D = duplicate activity result. RPD is not evaluated for sample/duplicate pairs where the reported activity is less than 5 times the sample specific MDC, as indicated with an "NC" on the Duplicate Sample Results (RPD) page.

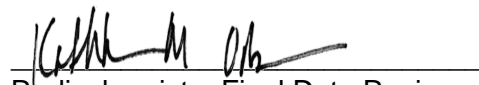
6. No anomalous situations were encountered during the preparation or analysis of these samples. All quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


Jean Anderson
Radiochemistry Primary Data Reviewer

4/9/21
Date


Radiochemistry Final Data Reviewer

4/09/21
Date

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Method Blank Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** ab210330-1MB**Sample Matrix:** WATER**Prep Batch:** ab210330-1**Final Aliquot:** 200 ml**Prep SOP:** PAI 702 Rev 23**QCBatchID:** ab210330-1-1**Result Units:** pCi/l**Date Collected:** 30-Mar-21**Run ID:** AB210330-1A**File Name:** ABA0403A**Date Prepared:** 30-Mar-21**Count Time:** 480 minutes**Date Analyzed:** 03-Apr-21

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|------------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | -1.77E-01 +/- 5.15E-01 | 1.08E+00 | 3.00E+00 | NA | U |
| 12587-47-2 | GROSS BETA | -9.89E-01 +/- 9.08E-01 | 1.79E+00 | 4.00E+00 | NA | U |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

M - Requested MDC not met.

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

DL - Decision Level

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Laboratory Control Sample(s)**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** ab210330-1LCS**Sample Matrix:** WATER**Prep Batch:** ab210330-1**Final Aliquot:** 200 ml**Prep SOP:** PAI 702 Rev 23**QCBatchID:** ab210330-1-1**Result Units:** pCi/l**Date Collected:** 30-Mar-21**Run ID:** AB210330-1A**File Name:** ABA0403B**Date Prepared:** 30-Mar-21**Count Time:** 120 minutes**Date Analyzed:** 03-Apr-21

| CASNO | Target Nuclide | Results +/- 2s TPU | MDC | Spike Added | % Rec | Control Limits | Lab Qualifier |
|------------|----------------|-----------------------|----------|-------------|-------|----------------|---------------|
| 12587-46-1 | GROSS ALPHA | 1.87E+02 +/- 3.10E+01 | 2.85E+00 | 2.210E+02 | 84.4 | 72 - 130 | |
| 12587-47-2 | GROSS BETA | 1.99E+02 +/- 3.25E+01 | 5.55E+00 | 2.130E+02 | 93.7 | 86 - 115 | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS Recovery within control limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
 MDC - Minimum Detectable Concentration

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Matrix Spike Results

Lab Name: ALS -- Fort Collins
Work Order Number: 2103436
Client Name: Central Plateau Cleanup Company, LLC
ClientProject ID: SURV, March 2021 S21-003

| | |
|------------------|-------------|
| Field ID: | Shared QC |
| Lab ID: | 2103504-1MS |

Sample Matrix: WATER
Prep SOP: PAI 702 Rev 23
Date Collected: 25-Mar-21
Date Prepared: 30-Mar-21
Date Analyzed: 03-Apr-21

Prep Batch: ab210330-1
QC Batch ID: ab210330-1-1
Run ID: AB210330-1A
Count Time: 120 minutes
Report Basis: Unfiltered

Final Aliquot: 170 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: ABA0403B

Analysis ReqCode: SMR_ALPHABET

| CASNO | Target Nuclide | Matrix Spike | Sample Results | MDC | Spike Added | % Rec | Control Limits | Lab Qualifier |
|------------|----------------|--------------|----------------|----------|-------------|-------|----------------|---------------|
| 12587-46-1 | GROSS ALPHA | 2.88E+02 | 3.07E+00 | 4.49E+00 | 2.600E+02 | 110 | 72 - 130 | |
| 12587-47-2 | GROSS BETA | 2.64E+02 | 7.17E+00 | 6.97E+00 | 2.500E+02 | 103 | 86 - 115 | |

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- N - Matrix Spike Recovery outside control limits
- P - Matrix Spike Recovery within control limits
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

MDC - Sample specific Minimum Detectable Concentration

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|-----------|
| Field ID: | Shared QC |
| Lab ID: | 2103504-1 |

Sample Matrix: WATER**Prep Batch:** ab210330-1**Final Aliquot:** 170 ml**Prep SOP:** PAI 702 Rev 23**QCBatchID:** ab210330-1-1**Prep Basis:** Unfiltered**Date Collected:** 25-Mar-21**Run ID:** AB210330-1A**Moisture(%):** NA**Date Prepared:** 30-Mar-21**Count Time:** 210 minutes**Result Units:** pCi/l**Date Analyzed:** 03-Apr-21**Report Basis:** Unfiltered**File Name:** ABA0403

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | 3.07E+00 +/- 1.56E+00 | 2.40E+00 | 3E+00 | NA | |
| 12587-47-2 | GROSS BETA | 7.17E+00 +/- 2.06E+00 | 3.05E+00 | 4E+00 | NA | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|-----------|
| Field ID: | Shared QC |
| Lab ID: | 2103504-2 |

Sample Matrix: WATER**Prep Batch:** ab210330-1**Final Aliquot:** 200 ml**Prep SOP:** PAI 702 Rev 23**QCBatchID:** ab210330-1-1**Prep Basis:** Unfiltered**Date Collected:** 25-Mar-21**Run ID:** AB210330-1A**Moisture(%):** NA**Date Prepared:** 30-Mar-21**Count Time:** 210 minutes**Result Units:** pCi/l**Date Analyzed:** 03-Apr-21**Report Basis:** Unfiltered**File Name:** ABA0403

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | 1.58E+00 +/- 1.34E+00 | 2.53E+00 | 3E+00 | NA | U |
| 12587-47-2 | GROSS BETA | 8.17E+00 +/- 1.97E+00 | 2.53E+00 | 4E+00 | NA | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Sample Duplicate Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | | | |
|-----------------------------|----------------------------------|---------------------------------|-------------------------------|
| Field ID: Shared QC | Sample Matrix: WATER | Prep Batch: ab210330-1 | Final Aliquot: 170 ml |
| Lab ID: 2103504-2DUP | Prep SOP: PAI 702 Rev 23 | QCBatchID: ab210330-1-1 | Prep Basis: Unfiltered |
| | Date Collected: 25-Mar-21 | Run ID: AB210330-1A | Moisture(%): NA |
| | Date Prepared: 30-Mar-21 | Count Time: 210 minutes | Result Units: pCi/l |
| | Date Analyzed: 03-Apr-21 | Report Basis: Unfiltered | File Name: ABA0403 |

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | 2.53E+00 +/- 1.56E+00 | 2.71E+00 | 3E+00 | NA | U |
| 12587-47-2 | GROSS BETA | 7.80E+00 +/- 2.05E+00 | 2.83E+00 | 4E+00 | NA | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

D - DER is greater than Control Limit of 3

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Sample specific Minimum Detectable Concentration
BDL - Below Detection Limit
DL - Decision Level

Data Package ID: AB2103436-1**Date Printed:**

Friday, April 09, 2021

ALS -- Fort Collins

LIMS Version: 7.014

Page 1 of 1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Duplicate Sample Results (DER)

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|--------------|
| Field ID: | Shared QC |
| Lab ID: | 2103504-2DUP |

Sample Matrix: WATER

Prep SOP: PAI 702 Rev 23

Date Collected: 25-Mar-21

Date Prepared: 30-Mar-21

Date Analyzed: 03-Apr-21

Prep Batch: ab210330-1

QCBatchID: ab210330-1-1

Run ID: AB210330-1A

Count Time: 210 minutes

Report Basis: Unfiltered

Final Aliquot: 170 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: ABA0403

| CASNO | Analyte | Sample | | | | Duplicate | | | | DER | DER Lim |
|------------|-------------|--------------|----------|----------|-------|--------------|----------|----------|-------|-------|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 12587-46-1 | GROSS ALPHA | 1.58E+00 +/- | 1.34E+00 | 2.53E+00 | U | 2.53E+00 +/- | 1.56E+00 | 2.71E+00 | U | 0.927 | 3 |
| 12587-47-2 | GROSS BETA | 8.17E+00 +/- | 1.97E+00 | 2.53E+00 | | 7.80E+00 +/- | 2.05E+00 | 2.83E+00 | | 0.262 | 3 |

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

D - DER is greater than Control Limit of 3

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Duplicate Sample Results (RPD)**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|--------------|
| Field ID: | Shared QC |
| Lab ID: | 2103504-2DUP |

Sample Matrix: WATER**Prep SOP:** PAI 702 Rev 23**Date Collected:** 25-Mar-21**Date Prepared:** 30-Mar-21**Date Analyzed:** 03-Apr-21**Prep Batch:** ab210330-1**QCBatchID:** ab210330-1-1**Run ID:** AB210330-1A**Count Time:** 210 minutes**Report Basis:** Unfiltered**Final Aliquot:** 170 ml**Prep Basis:** Unfiltered**Moisture(%):** NA**Result Units:** pCi/l**File Name:** ABA0403

| CASNO | Analyte | Sample | | | | Duplicate | | | | RPD | RPD Lim |
|------------|-------------|--------------|----------|----------|-------|--------------|----------|----------|-------|-----|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 12587-46-1 | GROSS ALPHA | 1.58E+00 +/- | 1.34E+00 | 2.53E+00 | U | 2.53E+00 +/- | 1.56E+00 | 2.71E+00 | U | NC | 20 |
| 12587-47-2 | GROSS BETA | 8.17E+00 +/- | 1.97E+00 | 2.53E+00 | | 7.80E+00 +/- | 2.05E+00 | 2.83E+00 | | NC | 20 |

Comments:**Qualifiers/Flags:**

+ - Duplicate RPD not within limits.
 U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - Requested MDC not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC

Abbreviations:

TPU - Total Propagated Uncertainty
 BDL - Below Detection Limit
 NR - Not Reported

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Field ID:** B404R0**Lab ID:** 2103436-17**Sample Matrix:** WATER**Prep SOP:** PAI 702 Rev 23**Date Collected:** 22-Mar-21**Date Prepared:** 30-Mar-21**Date Analyzed:** 03-Apr-21**Prep Batch:** ab210330-1**QC Batch ID:** ab210330-1-1**Run ID:** AB210330-1A**Count Time:** 210 minutes**Report Basis:** Unfiltered**Final Aliquot:** 170 ml**Prep Basis:** Unfiltered**Moisture(%):** NA**Result Units:** pCi/l**File Name:** ABA0403**Analysis ReqCode:** SMR_ALPHABET

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | 2.81E+00 +/- 1.53E+00 | 2.51E+00 | 3E+00 | NA | |
| 12587-47-2 | GROSS BETA | 1.69E+01 +/- 3.34E+00 | 2.99E+00 | 4E+00 | NA | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: AB2103436-1

Gross Alpha/Beta by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|------------|
| Field ID: | B404R3 |
| Lab ID: | 2103436-18 |

Sample Matrix: WATER**Prep Batch:** ab210330-1**Final Aliquot:** 130 ml**Prep SOP:** PAI 702 Rev 23**QCBatchID:** ab210330-1-1**Prep Basis:** Unfiltered**Date Collected:** 22-Mar-21**Run ID:** AB210330-1A**Moisture(%):** NA**Date Prepared:** 30-Mar-21**Count Time:** 480 minutes**Result Units:** pCi/l**Date Analyzed:** 03-Apr-21**Report Basis:** Unfiltered**File Name:** ABA0403A**Analysis ReqCode:** SMR_ALPHABET

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 12587-46-1 | GROSS ALPHA | 1.66E+00 +/- 1.53E+00 | 2.61E+00 | 3E+00 | NA | U |
| 12587-47-2 | GROSS BETA | 3.79E+02 +/- 6.07E+01 | 2.66E+00 | 4E+00 | NA | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: AB2103436-1

Prep Batch ID: ab210330-1

| | | | |
|---|---------------------------|-----------------------------------|---------------------------------|
| Start Date: 03/30/21 | End Date: 03/30/21 | Concentration Method: NONE | Batch Created By: hlr |
| Start Time: 16:08 | End Time: 16:08 | Extract Method: PAI 70223 | Date Created: 03/30/21 |
| Prep Analyst: Haley L. Richards | | Initial Volume Units: ml | Time Created: 16:08 |
| Comments: | | Final Volume Units: ml | Validated By: hlr |
| <input style="width: 200px; height: 30px;" type="text" value="na"/> | | | Date Validated: 04/01/21 |
| | | | Time Validated: 12:54 |

QC Batch ID: ab210330-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| ab210330-1 | MB | XXXXXX | WATER | XXXXXX | 200 | 200 | NONE | 1 | 2103436 |
| ab210330-1 | LCS | XXXXXX | WATER | XXXXXX | 200 | 200 | NONE | 1 | 2103436 |
| 2103504-1 | MS | XXXXXX | WATER | XXXXXX | 170 | 170 | NONE | 1 | 2103504 |
| 2103504-2 | DUP | XXXXXX | WATER | XXXXXX | 170 | 170 | NONE | 1 | 2103504 |
| 2103436-17 | SMP | B404R0 | WATER | 3/22/2021 | 170 | 170 | NONE | 1 | 2103436 |
| 2103436-18 | SMP | B404R3 | WATER | 3/22/2021 | 130 | 130 | NONE | 1 | 2103436 |
| 2103504-1 | SMP | XXXXXX | WATER | XXXXXX | 170 | 170 | NONE | 1 | 2103504 |
| 2103504-2 | SMP | XXXXXX | WATER | XXXXXX | 200 | 200 | NONE | 1 | 2103504 |

QC Types

| | | | |
|------|------------------------------------|------|--------------------------------------|
| CAR | Carrier reference sample | DLS | Detection Limit Standard |
| DUP | Laboratory Duplicate | LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicat | LODV | Limit of Detection Verification |
| LOQV | Limit of Quantitation Verification | MB | Method Blank |
| MS | Laboratory Matrix Spike | MSD | Laboratory Matrix Spike Duplicate |
| REP | Sample replicate | RVS | Reporting Level Verification Standar |
| SMP | Field Sample | SYS | Sample Yield Spike |



Metals

Case Narrative

Central Plateau Cleanup Company, LLC

SURV, March 2021 – S21-003

Work Order Number: 2103436

1. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by Trace ICP and ICP-MS, the samples were digested following method 3005A and the current revision of SOP 806.

2. Analysis by Trace ICP followed method 6010D and the current revision of SOP 834.
3. Analysis by ICP-MS followed method 6020B and the current revision of SOP 827.
4. All standards and solutions are NIST traceable and were used within their recommended shelf life.
5. The samples were prepared and analyzed within the established hold time.

All in house quality control procedures were followed, as described below.

6. General quality control procedures.
 - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch.
 - The preparation (method) blank associated with this digestion batch was below the reporting limit for the requested analytes. Sample results have been compared to the blank results and are flagged as appropriate.
 - All laboratory control sample criteria were met.
 - All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
 - All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.



- The interference check samples and high standard read-backs associated with Method 6010D were within acceptance criteria.
- The interference check samples associated with Method 6020B were analyzed.

7. Matrix specific quality control procedures.

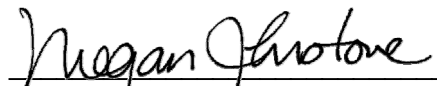
Sample 2103436-14 was designated as the quality control sample for each analysis.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy and precision were met.
- A serial dilution was analyzed with each ICP batch. All acceptance criteria were met.

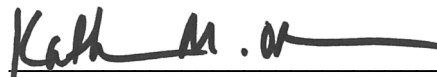
8. It is a standard practice that samples for ICP-MS are analyzed at a dilution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Megan Johnstone
Inorganics Primary Data Reviewer

4/15/21
Date



Kath M. W.
Inorganics Final Data Reviewer

4/20/21
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "B" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.
 - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 20X$ the blank concentration.
 - D - Analyte was reported at a secondary dilution factor, typically $DF > 1$ (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

Total Recoverable ICP Metals

Method SW6010D

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B404R7 |
| Lab ID: | 2103436-13 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 09-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-2

Run ID: IT210409-1A2

Cleanup: NONE

Basis: As Received

File Name: 210409A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-42-8 | BORON | 1 | 12 | B | 50 | 9.4 |
| 7440-70-2 | CALCIUM | 1 | 50000 | | 1000 | 94 |
| 7439-89-6 | IRON | 1 | 44 | U | 100 | 44 |
| 7439-95-4 | MAGNESIUM | 1 | 11000 | | 750 | 86 |
| 7440-09-7 | POTASSIUM | 1 | 5800 | | 1000 | 330 |
| 7440-23-5 | SODIUM | 1 | 21000 | | 1000 | 360 |
| 7440-62-2 | VANADIUM | 1 | 5.1 | B | 10 | 1.7 |

Data Package ID: IT2103436-1

Dissolved ICP Metals

Method SW6010D

Sample Results

Lab Name: ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|------------|
| Field ID: | B404T2 |
| Lab ID: | 2103436-14 |

Sample Matrix: WATER**% Moisture:** N/A**Date Collected:** 22-Mar-21**Date Extracted:** 08-Apr-21**Date Analyzed:** 09-Apr-21**Prep Method:** SW3005 Rev A**Prep Batch:** IP210408-3**QCBatchID:** IP210408-3-2**Run ID:** IT210409-1A2**Cleanup:** NONE**Basis:** As Received**File Name:** 210409A.**Analyst:** Steve Workman**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-42-8 | BORON | 1 | 11 | B | 50 | 9.4 |
| 7440-70-2 | CALCIUM | 1 | 50000 | | 1000 | 94 |
| 7439-89-6 | IRON | 1 | 44 | U | 100 | 44 |
| 7439-95-4 | MAGNESIUM | 1 | 11000 | | 750 | 86 |
| 7440-09-7 | POTASSIUM | 1 | 5600 | | 1000 | 330 |
| 7440-23-5 | SODIUM | 1 | 21000 | | 1000 | 360 |
| 7440-62-2 | VANADIUM | 1 | 5.6 | B | 10 | 1.7 |

Data Package ID: IT2103436-1

Dissolved ICP Metals

Method SW6010D

Sample Results

Lab Name: ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|------------|
| Field ID: | B404W2 |
| Lab ID: | 2103436-15 |

Sample Matrix: WATER**% Moisture:** N/A**Date Collected:** 22-Mar-21**Date Extracted:** 08-Apr-21**Date Analyzed:** 09-Apr-21**Prep Method:** SW3005 Rev A**Prep Batch:** IP210408-3**QCBatchID:** IP210408-3-2**Run ID:** IT210409-1A2**Cleanup:** NONE**Basis:** As Received**File Name:** 210409A.**Analyst:** Steve Workman**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-42-8 | BORON | 1 | 9.4 | U | 50 | 9.4 |
| 7440-70-2 | CALCIUM | 1 | 39000 | | 1000 | 94 |
| 7439-89-6 | IRON | 1 | 44 | U | 100 | 44 |
| 7439-95-4 | MAGNESIUM | 1 | 14000 | | 750 | 86 |
| 7440-09-7 | POTASSIUM | 1 | 5700 | | 1000 | 330 |
| 7440-23-5 | SODIUM | 1 | 11000 | | 1000 | 360 |
| 7440-62-2 | VANADIUM | 1 | 27 | | 10 | 1.7 |

Data Package ID: IT2103436-1

Total Recoverable ICP Metals

Method SW6010D

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B404V8 |
| Lab ID: | 2103436-16 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 09-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-2

Run ID: IT210409-1A2

Cleanup: NONE

Basis: As Received

File Name: 210409A.

Analyst: Steve Workman

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-42-8 | BORON | 1 | 9.4 | U | 50 | 9.4 |
| 7440-70-2 | CALCIUM | 1 | 39000 | | 1000 | 94 |
| 7439-89-6 | IRON | 1 | 44 | U | 100 | 44 |
| 7439-95-4 | MAGNESIUM | 1 | 14000 | | 750 | 86 |
| 7440-09-7 | POTASSIUM | 1 | 5700 | | 1000 | 330 |
| 7440-23-5 | SODIUM | 1 | 10000 | | 1000 | 360 |
| 7440-62-2 | VANADIUM | 1 | 26 | | 10 | 1.7 |

Data Package ID: IT2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B404J6 |
| Lab ID: | 2103436-1 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 064SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 4.2 | BD | 5 | 2.4 |

Data Package ID: *IM2103436-1*

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B404J8 |
| Lab ID: | 2103436-2 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 065SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 4.2 | BD | 5 | 2.4 |

Data Package ID: *IM2103436-1*

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40569 |
| Lab ID: | 2103436-3 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 066SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 21 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40572 |
| Lab ID: | 2103436-4 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 067SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 22 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40589 |
| Lab ID: | 2103436-5 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 068SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 2.4 | UD | 5 | 2.4 |

Data Package ID: *IM2103436-1*

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40586 |
| Lab ID: | 2103436-6 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 069SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 2.4 | UD | 5 | 2.4 |

Data Package ID: IM2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40587 |
| Lab ID: | 2103436-7 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-5

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

File Name: 070SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 11 | D | 5 | 2.4 |

Data Package ID: *IM2103436-1*

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40590 |
| Lab ID: | 2103436-8 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 071SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 11 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|-----------|
| Field ID: | B40593 |
| Lab ID: | 2103436-9 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 074SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 7.2 | D | 5 | 2.4 |

Data Package ID: *IM2103436-1*

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|--|----------------------------------|--------------------------------|---------------------------------|
| Field ID: B40595 | Sample Matrix: WATER | Prep Batch: IP210408-3 | Analyst: Jill M. Latelle |
| Lab ID: 2103436-10 | % Moisture: N/A | QCBatchID: IP210408-3-5 | Sample Aliquot: 50 ml |
| Analysis ReqCode: 6020_METALS_I | Date Collected: 22-Mar-21 | Run ID: IM210413-10A4 | Final Volume: 50 ml |
| | Date Extracted: 08-Apr-21 | Cleanup: NONE | Result Units: UG/L |
| | Date Analyzed: 13-Apr-21 | Basis: As Received | Clean DF: 1 |
| | Prep Method: SW3005 Rev A | File Name: 075SMPL. | |

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 7.3 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|--|----------------------------------|--------------------------------|---------------------------------|
| Field ID: B405J0 | Sample Matrix: WATER | Prep Batch: IP210408-3 | Analyst: Jill M. Latelle |
| Lab ID: 2103436-11 | % Moisture: N/A | QCBatchID: IP210408-3-5 | Sample Aliquot: 50 ml |
| Analysis ReqCode: 6020_METALS_I | Date Collected: 22-Mar-21 | Run ID: IM210413-10A4 | Final Volume: 50 ml |
| | Date Extracted: 08-Apr-21 | Cleanup: NONE | Result Units: UG/L |
| | Date Analyzed: 13-Apr-21 | Basis: As Received | Clean DF: 1 |
| | Prep Method: SW3005 Rev A | File Name: 076SMPL. | |

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 9.8 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B405H7 |
| Lab ID: | 2103436-12 |

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 22-Mar-21
 Date Extracted: 08-Apr-21
 Date Analyzed: 13-Apr-21
 Prep Method: SW3005 Rev A

Prep Batch: IP210408-3
 QCBatchID: IP210408-3-5
 Run ID: IM210413-10A4
 Cleanup: NONE
 Basis: As Received
 File Name: 077SMPL.

Analyst: Jill M. Latelle
 Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-----|
| 7440-47-3 | CHROMIUM | 5 | 9.7 | D | 5 | 2.4 |

Data Package ID: IM2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B404R7 |
| Lab ID: | 2103436-13 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

File Name: 078SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-------|
| 7429-90-5 | ALUMINUM | 5 | 26 | UD | 50 | 26 |
| 7440-36-0 | ANTIMONY | 5 | 0.08 | UD | 0.5 | 0.08 |
| 7440-38-2 | ARSENIC | 5 | 1.6 | D | 1 | 0.26 |
| 7440-39-3 | BARIUM | 5 | 43 | D | 2.5 | 0.95 |
| 7440-41-7 | BERYLLIUM | 5 | 0.037 | UD | 0.25 | 0.037 |
| 7440-43-9 | CADMIUM | 5 | 0.12 | UD | 1 | 0.12 |
| 7440-47-3 | CHROMIUM | 5 | 14 | D | 5 | 2.4 |
| 7440-48-4 | COBALT | 5 | 0.16 | UD | 2.5 | 0.16 |
| 7440-50-8 | COPPER | 5 | 2 | UD | 10 | 2 |
| 7439-92-1 | LEAD | 5 | 0.5 | UD | 1 | 0.5 |
| 7439-96-5 | MANGANESE | 5 | 2.4 | UD | 5 | 2.4 |
| 7439-98-7 | MOLYBDENUM | 5 | 3.3 | D | 1 | 0.23 |
| 7440-02-0 | NICKEL | 5 | 1.3 | UD | 10 | 1.3 |
| 7782-49-2 | SELENIUM | 5 | 1.4 | UD | 5 | 1.4 |
| 7440-22-4 | SILVER | 5 | 0.045 | UD | 0.25 | 0.045 |
| 7440-24-6 | STRONTIUM | 5 | 260 | D | 2.5 | 0.34 |
| 7440-28-0 | THALLIUM | 5 | 0.032 | UD | 0.075 | 0.032 |
| 7440-29-1 | THORIUM | 5 | 0.05 | UD | 0.1 | 0.05 |
| 7440-31-5 | TIN | 5 | 2.6 | UD | 5 | 2.6 |
| 7440-61-1 | URANIUM | 5 | 2.4 | D | 0.05 | 0.02 |
| 7440-66-6 | ZINC | 5 | 24 | UD | 50 | 24 |

Data Package ID: IM2103436-1

Dissolved ICPMS Metals**Method SW6020B****Sample Results**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B404T2 |
| Lab ID: | 2103436-14 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

File Name: 079SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-------|
| 7429-90-5 | ALUMINUM | 5 | 26 | UD | 50 | 26 |
| 7440-36-0 | ANTIMONY | 5 | 0.08 | UD | 0.5 | 0.08 |
| 7440-38-2 | ARSENIC | 5 | 1.5 | D | 1 | 0.26 |
| 7440-39-3 | BARIUM | 5 | 40 | D | 2.5 | 0.95 |
| 7440-41-7 | BERYLLIUM | 5 | 0.037 | UD | 0.25 | 0.037 |
| 7440-43-9 | CADMIUM | 5 | 0.12 | UD | 1 | 0.12 |
| 7440-47-3 | CHROMIUM | 5 | 14 | D | 5 | 2.4 |
| 7440-48-4 | COBALT | 5 | 0.16 | UD | 2.5 | 0.16 |
| 7440-50-8 | COPPER | 5 | 2 | UD | 10 | 2 |
| 7439-92-1 | LEAD | 5 | 0.5 | UD | 1 | 0.5 |
| 7439-96-5 | MANGANESE | 5 | 2.4 | UD | 5 | 2.4 |
| 7439-98-7 | MOLYBDENUM | 5 | 3.4 | D | 1 | 0.23 |
| 7440-02-0 | NICKEL | 5 | 1.3 | UD | 10 | 1.3 |
| 7782-49-2 | SELENIUM | 5 | 1.4 | UD | 5 | 1.4 |
| 7440-22-4 | SILVER | 5 | 0.045 | UD | 0.25 | 0.045 |
| 7440-24-6 | STRONTIUM | 5 | 250 | D | 2.5 | 0.34 |
| 7440-28-0 | THALLIUM | 5 | 0.032 | UD | 0.075 | 0.032 |
| 7440-29-1 | THORIUM | 5 | 0.05 | UD | 0.1 | 0.05 |
| 7440-31-5 | TIN | 5 | 2.6 | UD | 5 | 2.6 |
| 7440-61-1 | URANIUM | 5 | 2.4 | D | 0.05 | 0.02 |
| 7440-66-6 | ZINC | 5 | 24 | UD | 50 | 24 |

Data Package ID: IM2103436-1

Dissolved ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: B404W2

Lab ID: 2103436-15

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

File Name: 086SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-------|
| 7429-90-5 | ALUMINUM | 5 | 26 | UD | 50 | 26 |
| 7440-36-0 | ANTIMONY | 5 | 0.08 | UD | 0.5 | 0.08 |
| 7440-38-2 | ARSENIC | 5 | 3.6 | D | 1 | 0.26 |
| 7440-39-3 | BARIUM | 5 | 98 | D | 2.5 | 0.95 |
| 7440-41-7 | BERYLLIUM | 5 | 0.037 | UD | 0.25 | 0.037 |
| 7440-43-9 | CADMIUM | 5 | 0.12 | UD | 1 | 0.12 |
| 7440-47-3 | CHROMIUM | 5 | 38 | D | 5 | 2.4 |
| 7440-48-4 | COBALT | 5 | 0.16 | UD | 2.5 | 0.16 |
| 7440-50-8 | COPPER | 5 | 2.3 | BD | 10 | 2 |
| 7439-92-1 | LEAD | 5 | 0.5 | UD | 1 | 0.5 |
| 7439-96-5 | MANGANESE | 5 | 2.4 | UD | 5 | 2.4 |
| 7439-98-7 | MOLYBDENUM | 5 | 1.8 | D | 1 | 0.23 |
| 7440-02-0 | NICKEL | 5 | 1.3 | UD | 10 | 1.3 |
| 7782-49-2 | SELENIUM | 5 | 1.4 | UD | 5 | 1.4 |
| 7440-22-4 | SILVER | 5 | 0.045 | UD | 0.25 | 0.045 |
| 7440-24-6 | STRONTIUM | 5 | 280 | D | 2.5 | 0.34 |
| 7440-28-0 | THALLIUM | 5 | 0.032 | UD | 0.075 | 0.032 |
| 7440-29-1 | THORIUM | 5 | 0.05 | UD | 0.1 | 0.05 |
| 7440-31-5 | TIN | 5 | 2.6 | UD | 5 | 2.6 |
| 7440-61-1 | URANIUM | 5 | 2.2 | D | 0.05 | 0.02 |
| 7440-66-6 | ZINC | 5 | 24 | UD | 50 | 24 |

Data Package ID: IM2103436-1

Total Recoverable ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|------------|
| Field ID: | B404V8 |
| Lab ID: | 2103436-16 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

File Name: 087SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 6020_METALS_I

| CASNO | Target Analyte | Dilution Factor | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|-----------------|--------|------------------|-----------------|-------|
| 7429-90-5 | ALUMINUM | 5 | 26 | UD | 50 | 26 |
| 7440-36-0 | ANTIMONY | 5 | 0.08 | UD | 0.5 | 0.08 |
| 7440-38-2 | ARSENIC | 5 | 3.4 | D | 1 | 0.26 |
| 7440-39-3 | BARIUM | 5 | 97 | D | 2.5 | 0.95 |
| 7440-41-7 | BERYLLIUM | 5 | 0.037 | UD | 0.25 | 0.037 |
| 7440-43-9 | CADMIUM | 5 | 0.12 | UD | 1 | 0.12 |
| 7440-47-3 | CHROMIUM | 5 | 38 | D | 5 | 2.4 |
| 7440-48-4 | COBALT | 5 | 0.16 | UD | 2.5 | 0.16 |
| 7440-50-8 | COPPER | 5 | 8.8 | BD | 10 | 2 |
| 7439-92-1 | LEAD | 5 | 0.5 | UD | 1 | 0.5 |
| 7439-96-5 | MANGANESE | 5 | 2.4 | UD | 5 | 2.4 |
| 7439-98-7 | MOLYBDENUM | 5 | 1.7 | D | 1 | 0.23 |
| 7440-02-0 | NICKEL | 5 | 1.3 | UD | 10 | 1.3 |
| 7782-49-2 | SELENIUM | 5 | 1.4 | UD | 5 | 1.4 |
| 7440-22-4 | SILVER | 5 | 0.045 | UD | 0.25 | 0.045 |
| 7440-24-6 | STRONTIUM | 5 | 280 | D | 2.5 | 0.34 |
| 7440-28-0 | THALLIUM | 5 | 0.032 | UD | 0.075 | 0.032 |
| 7440-29-1 | THORIUM | 5 | 0.05 | UD | 0.1 | 0.05 |
| 7440-31-5 | TIN | 5 | 2.6 | UD | 5 | 2.6 |
| 7440-61-1 | URANIUM | 5 | 2.2 | D | 0.05 | 0.02 |
| 7440-66-6 | ZINC | 5 | 24 | UD | 50 | 24 |

Data Package ID: IM2103436-1

ICP Metals

Method SW6010D

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: IP210408-3MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08-Apr-21

Date Analyzed: 09-Apr-21

Prep Batch: IP210408-3

QCBatchID: IP210408-3-2

Run ID: IT210409-1A2

Cleanup: NONE

Basis: N/A

File Name: 210409A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|----|--------|------------------|-----------------|-----|
| 7440-42-8 | BORON | 1 | 9.4 | U | 50 | 9.4 |
| 7440-70-2 | CALCIUM | 1 | 94 | U | 1000 | 94 |
| 7439-89-6 | IRON | 1 | 44 | U | 100 | 44 |
| 7439-95-4 | MAGNESIUM | 1 | 86 | U | 750 | 86 |
| 7440-09-7 | POTASSIUM | 1 | 330 | U | 1000 | 330 |
| 7440-23-5 | SODIUM | 1 | 360 | U | 1000 | 360 |
| 7440-62-2 | VANADIUM | 1 | 1.7 | U | 10 | 1.7 |

Data Package ID: IT2103436-1

ICP Metals

Method SW6010D

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: IP210408-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/08/2021

Date Analyzed: 04/09/2021

Prep Method: SW3005A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-2

Run ID: IT210409-1A2

Cleanup: NONE

Basis: N/A

File Name: 210409A.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|-----------|----------------|-------------|------------|-----------------|------------------|------------|----------------|
| 7440-42-8 | BORON | 1000 | 1040 | 50 | | 104 | 80 - 120% |
| 7440-70-2 | CALCIUM | 40000 | 38300 | 1000 | | 96 | 80 - 120% |
| 7439-89-6 | IRON | 1000 | 1010 | 100 | | 101 | 80 - 120% |
| 7439-95-4 | MAGNESIUM | 40000 | 38600 | 750 | | 97 | 80 - 120% |
| 7440-09-7 | POTASSIUM | 40000 | 38500 | 1000 | | 96 | 80 - 120% |
| 7440-23-5 | SODIUM | 40000 | 39300 | 1000 | | 98 | 80 - 120% |
| 7440-62-2 | VANADIUM | 500 | 517 | 10 | | 103 | 80 - 120% |

Data Package ID: *IT2103436-1*

ICP Metals

Method SW6010D

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|---|--|---|---|
| Field ID: B404T2 LabID: 2103436-14MS | Sample Matrix: WATER % Moisture: N/A Date Collected: 22-Mar-21 Date Extracted: 08-Apr-21 Date Analyzed: 09-Apr-21 Prep Method: SW3005 Rev A | Prep Batch: IP210408-3 QCBatchID: IP210408-3-2 Run ID: IT210409-1A2 Cleanup: NONE Basis: As Received | Sample Aliquot: 50 ml Final Volume: 50 ml Result Units: UG/L File Name: 210409A. |
|---|--|---|---|

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|-----------|----------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 7440-42-8 | BORON | 11 | B | 1060 | | 50 | 1000 | 105 | 80 - 120% |
| 7440-70-2 | CALCIUM | 50000 | | 88300 | | 1000 | 40000 | 97 | 80 - 120% |
| 7439-89-6 | IRON | 44 | U | 997 | | 100 | 1000 | 100 | 80 - 120% |
| 7439-95-4 | MAGNESIUM | 11000 | | 49900 | | 750 | 40000 | 97 | 80 - 120% |
| 7440-09-7 | POTASSIUM | 5600 | | 44400 | | 1000 | 40000 | 97 | 80 - 120% |
| 7440-23-5 | SODIUM | 21000 | | 57800 | | 1000 | 40000 | 93 | 80 - 120% |
| 7440-62-2 | VANADIUM | 5.6 | B | 518 | | 10 | 500 | 103 | 80 - 120% |

| | | | |
|--|--|---|---|
| Field ID: B404T2 LabID: 2103436-14MSD | Sample Matrix: WATER % Moisture: N/A Date Collected: 22-Mar-21 Date Extracted: 08-Apr-21 Date Analyzed: 09-Apr-21 Prep Method: SW3005 Rev A | Prep Batch: IP210408-3 QCBatchID: IP210408-3-2 Run ID: IT210409-1A2 Cleanup: NONE Basis: As Received | Sample Aliquot: 50 ml Final Volume: 50 ml Result Units: UG/L File Name: 210409A. |
|--|--|---|---|

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|-----------|----------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 7440-42-8 | BORON | 1050 | | 1000 | 104 | 50 | 20 | 1 |
| 7440-70-2 | CALCIUM | 87800 | | 40000 | 95 | 1000 | 20 | 1 |
| 7439-89-6 | IRON | 986 | | 1000 | 99 | 100 | 20 | 1 |
| 7439-95-4 | MAGNESIUM | 49500 | | 40000 | 96 | 750 | 20 | 1 |
| 7440-09-7 | POTASSIUM | 43900 | | 40000 | 96 | 1000 | 20 | 1 |
| 7440-23-5 | SODIUM | 57100 | | 40000 | 91 | 1000 | 20 | 1 |
| 7440-62-2 | VANADIUM | 511 | | 500 | 101 | 10 | 20 | 1 |

Data Package ID: IT2103436-1

Prep Batch ID: IP210408-3

| | | | |
|-----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 04/08/21 | End Date: 04/08/21 | Concentration Method: NONE | Batch Created By: txs |
| Start Time: 11:35 | End Time: 18:00 | Extract Method: SW3005A | Date Created: 04/08/21 |
| Prep Analyst: Tyler S. Sabo | | Initial Volume Units: ml | Time Created: 12:06 |
| Comments: | | Final Volume Units: ml | Validated By: txs |
| | | | Date Validated: 04/08/21 |
| | | | Time Validated: 12:49 |

QC Batch ID: IP210408-3-2

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| IP210408-3 | MB | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| IP210408-3 | LCS | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MS | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MSD | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-13 | SMP | B404R7 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | SMP | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-15 | SMP | B404W2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-16 | SMP | B404V8 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |

QC Types

| | | | | | |
|------|------------------------------------|--|------|--------------------------------------|--|
| CAR | Carrier reference sample | | DLS | Detection Limit Standard | |
| DUP | Laboratory Duplicate | | LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicat | | LODV | Limit of Detection Verification | |
| LOQV | Limit of Quantitation Verification | | MB | Method Blank | |
| MS | Laboratory Matrix Spike | | MSD | Laboratory Matrix Spike Duplicate | |
| REP | Sample replicate | | RVS | Reporting Level Verification Standar | |
| SMP | Field Sample | | SYS | Sample Yield Spike | |

ICPMS Metals

Method SW6020B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: IP210408-3MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: N/A

File Name: 062SMPL.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Result Qualifier | Reporting Limit | MDL |
|-----------|----------------|----|--------|------------------|-----------------|-------|
| 7429-90-5 | ALUMINUM | 5 | 26 | U | 50 | 26 |
| 7440-36-0 | ANTIMONY | 5 | 0.08 | U | 0.5 | 0.08 |
| 7440-38-2 | ARSENIC | 5 | 0.26 | U | 1 | 0.26 |
| 7440-39-3 | BARIUM | 5 | 0.95 | U | 2.5 | 0.95 |
| 7440-41-7 | BERYLLIUM | 5 | 0.037 | U | 0.25 | 0.037 |
| 7440-43-9 | CADMIUM | 5 | 0.12 | U | 1 | 0.12 |
| 7440-47-3 | CHROMIUM | 5 | 2.4 | U | 5 | 2.4 |
| 7440-48-4 | COBALT | 5 | 0.16 | U | 2.5 | 0.16 |
| 7440-50-8 | COPPER | 5 | 2 | U | 10 | 2 |
| 7439-92-1 | LEAD | 5 | 0.5 | U | 1 | 0.5 |
| 7439-96-5 | MANGANESE | 5 | 2.4 | U | 5 | 2.4 |
| 7439-98-7 | MOLYBDENUM | 5 | 0.23 | U | 1 | 0.23 |
| 7440-02-0 | NICKEL | 5 | 1.3 | U | 10 | 1.3 |
| 7782-49-2 | SELENIUM | 5 | 1.4 | U | 5 | 1.4 |
| 7440-22-4 | SILVER | 5 | 0.045 | U | 0.25 | 0.045 |
| 7440-24-6 | STRONTIUM | 5 | 0.34 | U | 2.5 | 0.34 |
| 7440-28-0 | THALLIUM | 5 | 0.032 | U | 0.075 | 0.032 |
| 7440-29-1 | THORIUM | 5 | 0.05 | U | 0.1 | 0.05 |
| 7440-31-5 | TIN | 5 | 2.6 | U | 5 | 2.6 |
| 7440-61-1 | URANIUM | 5 | 0.02 | U | 0.05 | 0.02 |
| 7440-66-6 | ZINC | 5 | 24 | U | 50 | 24 |

Data Package ID: IM2103436-1

ICPMS Metals

Method SW6020B

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Lab ID: IM210408-3LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/08/2021

Date Analyzed: 04/13/2021

Prep Method: SW3005A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: N/A

File Name: 063SMPL.

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|-----------|----------------|-------------|------------|-----------------|------------------|------------|----------------|
| 7429-90-5 | ALUMINUM | 5000 | 4900 | 50 | | 98 | 80 - 120% |
| 7440-36-0 | ANTIMONY | 30 | 28.2 | 0.5 | | 94 | 80 - 120% |
| 7440-38-2 | ARSENIC | 100 | 99.5 | 1 | | 100 | 80 - 120% |
| 7440-39-3 | BARIUM | 100 | 89.7 | 2.5 | | 90 | 80 - 120% |
| 7440-41-7 | BERYLLIUM | 50 | 53.4 | 0.25 | | 107 | 80 - 120% |
| 7440-43-9 | CADMIUM | 30 | 28.8 | 1 | | 96 | 80 - 120% |
| 7440-47-3 | CHROMIUM | 500 | 498 | 5 | | 100 | 80 - 120% |
| 7440-48-4 | COBALT | 100 | 100 | 2.5 | | 100 | 80 - 120% |
| 7440-50-8 | COPPER | 1000 | 1010 | 10 | | 101 | 80 - 120% |
| 7439-92-1 | LEAD | 50 | 47.7 | 1 | | 95 | 80 - 120% |
| 7439-96-5 | MANGANESE | 100 | 88.7 | 5 | | 89 | 80 - 120% |
| 7439-98-7 | MOLYBDENUM | 100 | 92.8 | 1 | | 93 | 80 - 120% |
| 7440-02-0 | NICKEL | 500 | 505 | 10 | | 101 | 80 - 120% |
| 7782-49-2 | SELENIUM | 100 | 109 | 5 | | 109 | 80 - 120% |
| 7440-22-4 | SILVER | 10 | 9.7 | 0.25 | | 97 | 80 - 120% |
| 7440-24-6 | STRONTIUM | 100 | 94.2 | 2.5 | | 94 | 80 - 120% |
| 7440-28-0 | THALLIUM | 2 | 1.86 | 0.075 | | 93 | 80 - 120% |
| 7440-29-1 | THORIUM | 10 | 8.42 | 0.1 | | 84 | 80 - 120% |
| 7440-31-5 | TIN | 500 | 481 | 5 | | 96 | 80 - 120% |
| 7440-61-1 | URANIUM | 10 | 9.37 | 0.05 | | 94 | 80 - 120% |
| 7440-66-6 | ZINC | 2000 | 1990 | 50 | | 100 | 80 - 120% |

Data Package ID: IM2103436-1

Date Printed: Wednesday, April 14, 2021

ALS -- Fort Collins

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LIMS Version: 7.014

ICPMS Metals

Method SW6020B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: B404T2

LabID: 2103436-14MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 083SMPL.

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|-----------|----------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 7429-90-5 | ALUMINUM | 26 | UD | 5060 | | 50 | 5000 | 101 | 75 - 125% |
| 7440-36-0 | ANTIMONY | 0.08 | UD | 29.1 | | 0.5 | 30 | 97 | 75 - 125% |
| 7440-38-2 | ARSENIC | 1.5 | D | 102 | | 1 | 100 | 100 | 75 - 125% |
| 7440-39-3 | BARIUM | 40 | D | 137 | | 2.5 | 100 | 97 | 75 - 125% |
| 7440-41-7 | BERYLLIUM | 0.037 | UD | 54.3 | | 0.25 | 50 | 109 | 75 - 125% |
| 7440-43-9 | CADMIUM | 0.12 | UD | 30.6 | | 1 | 30 | 102 | 75 - 125% |
| 7440-47-3 | CHROMIUM | 14 | D | 532 | | 5 | 500 | 104 | 75 - 125% |
| 7440-48-4 | COBALT | 0.16 | UD | 102 | | 2.5 | 100 | 102 | 75 - 125% |
| 7440-50-8 | COPPER | 2 | UD | 1020 | | 10 | 1000 | 102 | 75 - 125% |
| 7439-92-1 | LEAD | 0.5 | UD | 49.2 | | 1 | 50 | 98 | 75 - 125% |
| 7439-96-5 | MANGANESE | 2.4 | UD | 91.6 | | 5 | 100 | 92 | 75 - 125% |
| 7439-98-7 | MOLYBDENUM | 3.4 | D | 98.2 | | 1 | 100 | 95 | 75 - 125% |
| 7440-02-0 | NICKEL | 1.3 | UD | 509 | | 10 | 500 | 102 | 75 - 125% |
| 7782-49-2 | SELENIUM | 1.4 | UD | 109 | | 5 | 100 | 109 | 75 - 125% |
| 7440-22-4 | SILVER | 0.045 | UD | 9.95 | | 0.25 | 10 | 99 | 75 - 125% |
| 7440-24-6 | STRONTIUM | 250 | D | 351 | | 2.5 | 100 | 97 | 75 - 125% |
| 7440-28-0 | THALLIUM | 0.032 | UD | 1.96 | | 0.075 | 2 | 98 | 75 - 125% |
| 7440-29-1 | THORIUM | 0.05 | UD | 8.9 | | 0.1 | 10 | 89 | 75 - 125% |
| 7440-31-5 | TIN | 2.6 | UD | 501 | | 5 | 500 | 100 | 75 - 125% |
| 7440-61-1 | URANIUM | 2.4 | D | 12.1 | | 0.05 | 10 | 97 | 75 - 125% |
| 7440-66-6 | ZINC | 24 | UD | 2000 | | 50 | 2000 | 100 | 75 - 125% |

Data Package ID: IM2103436-1

ICPMS Metals

Method SW6020B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

Field ID: B404T2

LabID: 2103436-14MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 22-Mar-21

Date Extracted: 08-Apr-21

Date Analyzed: 13-Apr-21

Prep Method: SW3005 Rev A

Prep Batch: IP210408-3

QCBatchID: IP210408-3-1

Run ID: IM210413-10A4

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 084SMPL.

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|-----------|----------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 7429-90-5 | ALUMINUM | 5010 | | 5000 | 100 | 50 | 20 | 1 |
| 7440-36-0 | ANTIMONY | 28.8 | | 30 | 96 | 0.5 | 20 | 1 |
| 7440-38-2 | ARSENIC | 103 | | 100 | 101 | 1 | 20 | 1 |
| 7440-39-3 | BARIUM | 139 | | 100 | 99 | 2.5 | 20 | 1 |
| 7440-41-7 | BERYLLIUM | 54.7 | | 50 | 109 | 0.25 | 20 | 1 |
| 7440-43-9 | CADMIUM | 30.3 | | 30 | 101 | 1 | 20 | 1 |
| 7440-47-3 | CHROMIUM | 531 | | 500 | 103 | 5 | 20 | 0 |
| 7440-48-4 | COBALT | 101 | | 100 | 101 | 2.5 | 20 | 0 |
| 7440-50-8 | COPPER | 1000 | | 1000 | 100 | 10 | 20 | 1 |
| 7439-92-1 | LEAD | 49.6 | | 50 | 99 | 1 | 20 | 1 |
| 7439-96-5 | MANGANESE | 90.6 | | 100 | 91 | 5 | 20 | 1 |
| 7439-98-7 | MOLYBDENUM | 100 | | 100 | 97 | 1 | 20 | 2 |
| 7440-02-0 | NICKEL | 514 | | 500 | 103 | 10 | 20 | 1 |
| 7782-49-2 | SELENIUM | 107 | | 100 | 107 | 5 | 20 | 2 |
| 7440-22-4 | SILVER | 9.98 | | 10 | 100 | 0.25 | 20 | 0 |
| 7440-24-6 | STRONTIUM | 358 | | 100 | 104 | 2.5 | 20 | 2 |
| 7440-28-0 | THALLIUM | 2.01 | | 2 | 100 | 0.075 | 20 | 2 |
| 7440-29-1 | THORIUM | 9.06 | | 10 | 91 | 0.1 | 20 | 2 |
| 7440-31-5 | TIN | 509 | | 500 | 102 | 5 | 20 | 2 |
| 7440-61-1 | URANIUM | 12.3 | | 10 | 99 | 0.05 | 20 | 1 |
| 7440-66-6 | ZINC | 1990 | | 2000 | 100 | 50 | 20 | 1 |

Data Package ID: IM2103436-1

Prep Batch ID: IP210408-3

| | | | |
|-----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 04/08/21 | End Date: 04/08/21 | Concentration Method: NONE | Batch Created By: txs |
| Start Time: 11:35 | End Time: 18:00 | Extract Method: SW3005A | Date Created: 04/08/21 |
| Prep Analyst: Tyler S. Sabo | | Initial Volume Units: ml | Time Created: 12:06 |
| Comments: | | Final Volume Units: ml | Validated By: txs |
| | | | Date Validated: 04/08/21 |
| | | | Time Validated: 12:49 |

QC Batch ID: IP210408-3-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| IP210408-3 | MB | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| IM210408-3 | LCS | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MS | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MSD | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-13 | SMP | B404R7 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | SMP | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-15 | SMP | B404W2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-16 | SMP | B404V8 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |

QC Types

| | | | | | |
|------|------------------------------------|--|------|--------------------------------------|--|
| CAR | Carrier reference sample | | DLS | Detection Limit Standard | |
| DUP | Laboratory Duplicate | | LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicat | | LODV | Limit of Detection Verification | |
| LOQV | Limit of Quantitation Verification | | MB | Method Blank | |
| MS | Laboratory Matrix Spike | | MSD | Laboratory Matrix Spike Duplicate | |
| REP | Sample replicate | | RVS | Reporting Level Verification Standar | |
| SMP | Field Sample | | SYS | Sample Yield Spike | |

Prep Batch ID: IP210408-3

| | | | |
|-----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 04/08/21 | End Date: 04/08/21 | Concentration Method: NONE | Batch Created By: txs |
| Start Time: 11:35 | End Time: 18:00 | Extract Method: SW3005A | Date Created: 04/08/21 |
| Prep Analyst: Tyler S. Sabo | | Initial Volume Units: ml | Time Created: 12:06 |
| Comments: | | Final Volume Units: ml | Validated By: txs |
| | | | Date Validated: 04/08/21 |
| | | | Time Validated: 12:49 |

QC Batch ID: IP210408-3-5

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| IP210408-3 | MB | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| IM210408-3 | LCS | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MS | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | MSD | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-1 | SMP | B404J6 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-10 | SMP | B40595 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-11 | SMP | B405J0 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-12 | SMP | B405H7 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-14 | SMP | B404T2 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-2 | SMP | B404J8 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-3 | SMP | B40569 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-4 | SMP | B40572 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-5 | SMP | B40589 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-6 | SMP | B40586 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-7 | SMP | B40587 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-8 | SMP | B40590 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |
| 2103436-9 | SMP | B40593 | WATER | 3/22/2021 | 50 | 50 | NONE | 1 | 2103436 |

QC Types

| | | | | | |
|------|------------------------------------|--|------|--------------------------------------|--|
| CAR | Carrier reference sample | | DLS | Detection Limit Standard | |
| DUP | Laboratory Duplicate | | LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicat | | LODV | Limit of Detection Verification | |
| LOQV | Limit of Quantitation Verification | | MB | Method Blank | |
| MS | Laboratory Matrix Spike | | MSD | Laboratory Matrix Spike Duplicate | |
| REP | Sample replicate | | RVS | Reporting Level Verification Standar | |
| SMP | Field Sample | | SYS | Sample Yield Spike | |



Strontium-90

Case Narrative

Central Plateau Cleanup Company, LLC

SURV, March 2021 – S21-003

Work Order Number: 2103436

1. The samples were prepared according to the current revision of SOP 707.
2. The samples were analyzed for the presence of ⁹⁰Sr according to the current revision of SOP 724. The analyses were completed on 04/14/2021.
3. Total radio-strontium is reported as ⁹⁰Sr. The presence of other radioisotopes of strontium may cause positive bias in the measured strontium concentration.
4. The analysis results for these samples are reported in units of pCi/L. The samples were not filtered prior to analysis.
5. Sample volume was insufficient to allow preparation of a duplicate. A laboratory control sample duplicate (LCSD) was prepared in lieu of a client sample duplicate.
6. In accordance with project specific instructions, the evaluation threshold for Relative Percent Difference (RPD) has been set at 20%. RPD is defined as:

$$RPD = \frac{|S - D|}{(S + D)/2} * 100$$

Where: S = sample activity result and D = duplicate activity result.

7. No anomalous situations were encountered during the preparation and analysis of these samples. All quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jean Anderson
Jean Anderson
Radiochemistry Primary Data Reviewer

4/16/21
Date

Kelli M. Alb
Radiochemistry Final Data Reviewer

4/20/21
Date

Strontium-90 by GFPC

PAI 724 Rev 14

Method Blank Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** SR210407-1MB**Sample Matrix:** WATER**Prep Batch:** SR210407-1**Final Aliquot:** 994 ml**Prep SOP:** PAI 707 Rev 16**QCBatchID:** SR210407-1-1**Result Units:** pCi/l**Date Collected:** 07-Apr-21**Run ID:** SR210407-1A**File Name:** SRC0414B**Date Prepared:** 07-Apr-21**Count Time:** 1000 minutes**Date Analyzed:** 14-Apr-21

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|------------------------|----------|---------------|----|---------------|
| 10098-97-2 | Sr-90 | -1.08E-02 +/- 8.62E-02 | 1.44E-01 | 1.00E+00 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| STRONTIUM | 9.970E+02 | 9.37E+02 | ug | 94.0 | 40 - 110 % | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

M - Requested MDC not met.

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

DL - Decision Level

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins
Work Order Number: 2103436
Client Name: Central Plateau Cleanup Company, LLC
ClientProject ID: SURV, March 2021 S21-003

Lab ID: SR210407-1LCS

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 16
Date Collected: 07-Apr-21
Date Prepared: 07-Apr-21
Date Analyzed: 14-Apr-21

Prep Batch: SR210407-1
QCBatchID: SR210407-1-1
Run ID: SR210407-1A
Count Time: 30 minutes

Final Aliquot: 994 ml
Result Units: pCi/l
File Name: SRC0414A

| CASNO | Target Nuclide | Results +/- 2s TPU | MDC | Spike Added | % Rec | Control Limits | Lab Qualifier |
|------------|----------------|-----------------------|----------|-------------|-------|----------------|---------------|
| 10098-97-2 | Sr-90 | 1.08E+01 +/- 2.78E+00 | 9.44E-01 | 1.060E+01 | 102 | 75 - 125 | |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| STRONTIUM | 9.970E+02 | 9.42E+02 | ug | 94.5 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Laboratory Control Sample(s)**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Lab ID:** SR210407-1LCSD**Sample Matrix:** WATER**Prep Batch:** SR210407-1**Final Aliquot:** 994 ml**Prep SOP:** PAI 707 Rev 16**QCBatchID:** SR210407-1-1**Result Units:** pCi/l**Date Collected:** 07-Apr-21**Run ID:** SR210407-1A**File Name:** SRC0414A**Date Prepared:** 07-Apr-21**Count Time:** 30 minutes**Date Analyzed:** 14-Apr-21

| CASNO | Target Nuclide | Results +/- 2s TPU | MDC | Spike Added | % Rec | Control Limits | Lab Qualifier |
|------------|----------------|-----------------------|----------|-------------|-------|----------------|---------------|
| 10098-97-2 | Sr-90 | 1.18E+01 +/- 3.04E+00 | 1.04E+00 | 1.060E+01 | 111 | 75 - 125 | |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| STRONTIUM | 9.970E+02 | 9.27E+02 | ug | 93.0 | 40 - 110 % | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS Recovery within control limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
 MDC - Minimum Detectable Concentration

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Duplicate Sample Results (DER)

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|----------------|
| Field ID: | |
| Lab ID: | SR210407-1LCSD |

Sample Matrix: WATER

Prep SOP: PAI 707 Rev 16

Date Collected: 07-Apr-21

Date Prepared: 07-Apr-21

Date Analyzed: 14-Apr-21

Prep Batch: SR210407-1

QCBatchID: SR210407-1-1

Run ID: SR210407-1A

Count Time: 30 minutes

Final Aliquot: 994 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: SRC0414A

| CASNO | Analyte | Sample | | | | Duplicate | | | | DER | DER Lim |
|------------|---------|--------------|----------|----------|-------|--------------|----------|----------|-------|------|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 10098-97-2 | Sr-90 | 1.08E+01 +/- | 2.78E+00 | 9.44E-01 | | 1.08E+01 +/- | 2.78E+00 | 1.04E+00 | | 0.49 | 3 |

Comments:**Duplicate Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

D - DER is greater than Control Limit of 3

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Duplicate Sample Results (RPD)

Lab Name: ALS -- Fort Collins
Work Order Number: 2103436
Client Name: Central Plateau Cleanup Company, LLC
ClientProject ID: SURV, March 2021 S21-003

| | |
|------------------|----------------|
| Field ID: | |
| Lab ID: | SR210407-1LCSD |

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 16
Date Collected: 07-Apr-21
Date Prepared: 07-Apr-21
Date Analyzed: 14-Apr-21

Prep Batch: SR210407-1
QCBatchID: SR210407-1-1
Run ID: SR210407-1A
Count Time: 30 minutes

Final Aliquot: 994 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: SRC0414A

| CASNO | Analyte | Sample | | | | Duplicate | | | | RPD | RPD Lim |
|------------|---------|--------------|----------|----------|-------|--------------|----------|----------|-------|------|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 10098-97-2 | Sr-90 | 1.08E+01 +/- | 2.78E+00 | 9.44E-01 | | 1.08E+01 +/- | 2.78E+00 | 1.04E+00 | | 9.00 | 20 |

Comments:

Qualifiers/Flags:

- + - Duplicate RPD not within limits.
- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC

Abbreviations:

- TPU - Total Propagated Uncertainty
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003

| | |
|------------------|------------|
| Field ID: | B404R0 |
| Lab ID: | 2103436-17 |

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 16
Date Collected: 22-Mar-21
Date Prepared: 07-Apr-21
Date Analyzed: 14-Apr-21

Prep Batch: SR210407-1
QCBatchID: SR210407-1-1
Run ID: SR210407-1A
Count Time: 120 minutes
Report Basis: Unfiltered

Final Aliquot: 994 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: SRC0414

Analysis ReqCode: SMR_SR_RAD_

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 10098-97-2 | Sr-90 | 1.67E-02 +/- 2.15E-01 | 4.90E-01 | 1E+00 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| STRONTIUM | 1.270E+03 | 1.08E+03 | ug | 85.3 | 40 - 110 % | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: SR2103436-1

Strontium-90 by GFPC

PAI 724 Rev 14

Sample Results**Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103436**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** SURV, March 2021 S21-003**Field ID:** B404R3**Lab ID:** 2103436-18**Sample Matrix:** WATER**Prep SOP:** PAI 707 Rev 16**Date Collected:** 22-Mar-21**Date Prepared:** 07-Apr-21**Date Analyzed:** 14-Apr-21**Prep Batch:** SR210407-1**QCBatchID:** SR210407-1-1**Run ID:** SR210407-1A**Count Time:** 120 minutes**Report Basis:** Unfiltered**Final Aliquot:** 994 ml**Prep Basis:** Unfiltered**Moisture(%):** NA**Result Units:** pCi/l**File Name:** SRC0414**Analysis ReqCode:** SMR_SR_RAD_

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|------------------------|----------|---------------|----|---------------|
| 10098-97-2 | Sr-90 | -3.88E-02 +/- 2.00E-01 | 4.63E-01 | 1E+00 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| STRONTIUM | 1.480E+03 | 1.37E+03 | ug | 93.1 | 40 - 110 % | |

Comments:**Qualifiers/Flags:**

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: SR2103436-1

Prep Batch ID: SR210407-1

| | | | |
|--|---------------------------|-----------------------------------|---------------------------------|
| Start Date: 04/07/21 | End Date: 04/07/21 | Concentration Method: NONE | Batch Created By: jxh |
| Start Time: 9:48 | End Time: 9:48 | Extract Method: PAI 70716 | Date Created: 04/07/21 |
| Prep Analyst: Jirushaya Hantula | | Initial Volume Units: ml | Time Created: 9:48 |
| Comments: | | Final Volume Units: ml | Validated By: jxh |
| n/a | | | Date Validated: 04/13/21 |
| | | | Time Validated: 13:43 |

QC Batch ID: SR210407-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| SR210407-1 | CAR | XXXXXX | WATER | XXXXXX | 1000 | 1000 | NONE | 1 | 2103406 |
| SR210407-1 | MB | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103406 |
| SR210407-1 | LCS | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103406 |
| SR210407-1 | LCSD | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104015 |
| 2103406-2 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103406 |
| 2103436-17 | SMP | B404R0 | WATER | 3/22/2021 | 1000 | 994.01 | NONE | 1 | 2103436 |
| 2103436-18 | SMP | B404R3 | WATER | 3/22/2021 | 1000 | 994.01 | NONE | 1 | 2103436 |
| 2103437-1 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103437 |
| 2103437-2 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103437 |
| 2103439-1 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2103439 |
| 2104003-4 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104003 |
| 2104004-1 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104004 |
| 2104015-2 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104015 |
| 2104015-3 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104015 |
| 2104015-4 | SMP | XXXXXX | WATER | XXXXXX | 1000 | 994.01 | NONE | 1 | 2104015 |

QC Types

| | | | |
|------|------------------------------------|------|--------------------------------------|
| CAR | Carrier reference sample | DLS | Detection Limit Standard |
| DUP | Laboratory Duplicate | LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicat | LODV | Limit of Detection Verification |
| LOQV | Limit of Quantitation Verification | MB | Method Blank |
| MS | Laboratory Matrix Spike | MSD | Laboratory Matrix Spike Duplicate |
| REP | Sample replicate | RVS | Reporting Level Verification Standar |
| SMP | Field Sample | SYS | Sample Yield Spike |



Technetium-99

Case Narrative

Central Plateau Cleanup Company, LLC

SURV, March 2021 – S21-003

Work Order Number: 2103436

1. The sample was prepared according to the current revision of SOP 755, with procedure modifications outlined in QASS #378635 and #387636.
2. The sample was analyzed for the presence of ⁹⁹Tc according to the current revision of SOP 704. The analysis was completed on 04/12/2021.
3. Prior to analysis of this sample, an approximate volume of 20 µL of nitro-methane was added to the sample and all associated QC samples to bring them into the usable calibration range.
4. The analysis results for this sample are reported in units of pCi/L. The sample was not filtered prior to analysis.
5. The duplicate of sample 2104018-1 is shared for this work order. The duplicate was performed on a Central Plateau Cleanup Company, LLC sample and the results are acceptable. The results can be found in the following report.

6. In accordance with project specific instructions, the evaluation threshold for Relative Percent Difference (RPD) has been set at 20%. RPD is defined as:

$$RPD = \frac{|S - D|}{(S + D)/2} * 100$$

Where: S = sample activity result and D = duplicate activity result.

7. No anomalous situations were encountered during the preparation or analysis of this sample. All quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jean Anderson
Jean Anderson
Radiochemistry Primary Data Reviewer

4/15/21
Date

Kelli M. Oh
Radiochemistry Final Data Reviewer

4/20/21
Date

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Method Blank Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|----------------------|---------------------------|-------------------------|---------------------------|
| Lab ID: TC210407-1MB | Sample Matrix: WATER | Prep Batch: TC210407-1 | Final Aliquot: 250 ml |
| | Prep SOP: PAI 755 Rev 12 | QCBatchID: TC210407-1-1 | Result Units: pCi/l |
| | Date Collected: 07-Apr-21 | Run ID: TC210407-1A | File Name: Z20210412_0553 |
| | Date Prepared: 07-Apr-21 | Count Time: 30 minutes | |
| | Date Analyzed: 12-Apr-21 | | |

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 14133-76-7 | Tc-99 | 3.01E-02 +/- 1.21E+00 | 2.21E+00 | 2.00E+01 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| Tc-99m | 4.430E+03 | 3.93E+03 | Pci | 88.7 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - Requested MDC not met.

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

DL - Decision Level

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TC2103436-1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|-----------------------|---------------------------|-------------------------|---------------------------|
| Lab ID: TC210407-1LCS | Sample Matrix: WATER | Prep Batch: TC210407-1 | Final Aliquot: 250 ml |
| | Prep SOP: PAI 755 Rev 12 | QCBatchID: TC210407-1-1 | Result Units: pCi/l |
| | Date Collected: 07-Apr-21 | Run ID: TC210407-1A | File Name: Z20210412_0553 |
| | Date Prepared: 07-Apr-21 | Count Time: 30 minutes | |
| | Date Analyzed: 12-Apr-21 | | |

| CASNO | Target Nuclide | Results +/- 2s TPU | MDC | Spike Added | % Rec | Control Limits | Lab Qualifier |
|------------|----------------|-----------------------|----------|-------------|-------|----------------|---------------|
| 14133-76-7 | Tc-99 | 8.17E+02 +/- 1.31E+02 | 2.05E+00 | 9.110E+02 | 89.7 | 75 - 125 | |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| Tc-99m | 4.430E+03 | 4.21E+03 | Pci | 94.9 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS Recovery within control limits.
 M - The requested MDC was not met.
 M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
 MDC - Minimum Detectable Concentration

Data Package ID: TC2103436-1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
Work Order Number: 2103436
Client Name: Central Plateau Cleanup Company, LLC
ClientProject ID: SURV, March 2021 S21-003

| | |
|------------------|-----------|
| Field ID: | Shared QC |
| Lab ID: | 2104018-1 |

Sample Matrix: WATER
Prep SOP: PAI 755 Rev 12
Date Collected: 29-Mar-21
Date Prepared: 07-Apr-21
Date Analyzed: 12-Apr-21

Prep Batch: TC210407-1
QCBatchID: TC210407-1-1
Run ID: TC210407-1A
Count Time: 30 minutes
Report Basis: Unfiltered

Final Aliquot: 100 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Z20210412_0553

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|------------------------|----------|---------------|----|---------------|
| 14133-76-7 | Tc-99 | -5.23E-01 +/- 2.92E+00 | 5.47E+00 | 2E+01 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| Tc-99m | 4.430E+03 | 3.93E+03 | Pci | 88.8 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Sample specific Minimum Detectable Concentration
- BDL - Below Detection Limit
- DL - Decision Level

Data Package ID: TC2103436-1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Sample Duplicate Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | | | |
|-----------------------------|----------------------------------|---------------------------------|----------------------------------|
| Field ID: Shared QC | Sample Matrix: WATER | Prep Batch: TC210407-1 | Final Aliquot: 100 ml |
| Lab ID: 2104018-1DUP | Prep SOP: PAI 755 Rev 12 | QCBatchID: TC210407-1-1 | Prep Basis: Unfiltered |
| | Date Collected: 29-Mar-21 | Run ID: TC210407-1A | Moisture(%): NA |
| | Date Prepared: 07-Apr-21 | Count Time: 30 minutes | Result Units: pCi/l |
| | Date Analyzed: 12-Apr-21 | Report Basis: Unfiltered | File Name: Z20210412_0553 |

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|------------------------|----------|---------------|----|---------------|
| 14133-76-7 | Tc-99 | -1.87E+00 +/- 2.85E+00 | 5.69E+00 | 2E+01 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| Tc-99m | 4.430E+03 | 3.83E+03 | Pci | 86.5 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

D - DER is greater than Control Limit of 3

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

DL - Decision Level

Data Package ID: TC2103436-1

Date Printed:

Thursday, April 15, 2021

ALS -- Fort Collins

LIMS Version: 7.015

Page 1 of 1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Duplicate Sample Results (DER)

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|--------------|
| Field ID: | Shared QC |
| Lab ID: | 2104018-1DUP |

Sample Matrix: WATER

Prep SOP: PAI 755 Rev 12

Date Collected: 29-Mar-21

Date Prepared: 07-Apr-21

Date Analyzed: 12-Apr-21

Prep Batch: TC210407-1

QCBatchID: TC210407-1-1

Run ID: TC210407-1A

Count Time: 30 minutes

Report Basis: Unfiltered

Final Aliquot: 100 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Z20210412_0553

| CASNO | Analyte | Sample | | | | Duplicate | | | | DER | DER Lim |
|------------|---------|------------------------|---------|----------|-------|------------------------|---------|----------|-------|------|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 14133-76-7 | Tc-99 | -5.23E-01 +/- 2.92E+00 | | 5.47E+00 | U | -5.23E-01 +/- 2.92E+00 | | 5.69E+00 | U | 0.66 | 3 |

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

D - DER is greater than Control Limit of 3

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: TC2103436-1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Duplicate Sample Results (RPD)

Lab Name: ALS -- Fort Collins

Work Order Number: 2103436

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: SURV, March 2021 S21-003

| | |
|-----------|--------------|
| Field ID: | Shared QC |
| Lab ID: | 2104018-1DUP |

Sample Matrix: WATER

Prep SOP: PAI 755 Rev 12

Date Collected: 29-Mar-21

Date Prepared: 07-Apr-21

Date Analyzed: 12-Apr-21

Prep Batch: TC210407-1

QCBatchID: TC210407-1-1

Run ID: TC210407-1A

Count Time: 30 minutes

Report Basis: Unfiltered

Final Aliquot: 100 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Z20210412_0553

| CASNO | Analyte | Sample | | | | Duplicate | | | | RPD | RPD Lim |
|------------|---------|------------|--------------|----------|-------|------------|--------------|----------|-------|-----|---------|
| | | Result +/- | 2 s TPU | MDC | Flags | Result +/- | 2 s TPU | MDC | Flags | | |
| 14133-76-7 | Tc-99 | -5.23E-01 | +/- 2.92E+00 | 5.47E+00 | U | -5.23E-01 | +/- 2.92E+00 | 5.69E+00 | U | NC | 20 |

Comments:

Qualifiers/Flags:

+ - Duplicate RPD not within limits.
 U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 M - Requested MDC not met.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC

Abbreviations:

TPU - Total Propagated Uncertainty
 BDL - Below Detection Limit
 NR - Not Reported

Data Package ID: TC2103436-1

Technetium-99 by Liquid Scintillation

PAI 704_Tc99 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
Work Order Number: 2103436
Client Name: Central Plateau Cleanup Company, LLC
ClientProject ID: SURV, March 2021 S21-003

| | |
|------------------|------------|
| Field ID: | B404V8 |
| Lab ID: | 2103436-16 |

Sample Matrix: WATER
Prep SOP: PAI 755 Rev 12
Date Collected: 22-Mar-21
Date Prepared: 07-Apr-21
Date Analyzed: 12-Apr-21

Prep Batch: TC210407-1
QCBatchID: TC210407-1-1
Run ID: TC210407-1A
Count Time: 30 minutes
Report Basis: Unfiltered

Final Aliquot: 100 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Z20210412_0553

Analysis ReqCode: SMR_TC99_LSC

| CASNO | Target Nuclide | Result +/- 2 s TPU | MDC | Requested MDC | DL | Lab Qualifier |
|------------|----------------|-----------------------|----------|---------------|----|---------------|
| 14133-76-7 | Tc-99 | 4.48E+00 +/- 3.47E+00 | 5.18E+00 | 2E+01 | NA | U |

Chemical Yield Summary

| Carrier/Tracer | Amount Added | Result | Units | Yield | Control Limits | Flag |
|----------------|--------------|----------|-------|-------|----------------|------|
| Tc-99m | 4.430E+03 | 4.22E+03 | Pci | 95.3 | 40 - 110 % | |

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Sample specific Minimum Detectable Concentration
BDL - Below Detection Limit
DL - Decision Level

Data Package ID: TC2103436-1

Prep Batch ID: TC210407-1

| | | | |
|--------------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 04/07/21 | End Date: 04/07/21 | Concentration Method: NONE | Batch Created By: jcp |
| Start Time: 9:53 | End Time: 9:53 | Extract Method: PAI 75512 | Date Created: 04/07/21 |
| Prep Analyst: John C. Petrovic | | Initial Volume Units: ml | Time Created: 9:53 |
| Comments: | | Final Volume Units: ml | Validated By: jcp |
| | | | Date Validated: 04/08/21 |
| | | | Time Validated: 9:08 |

QC Batch ID: TC210407-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|---------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| TC210407-1 | MB | XXXXXX | WATER | XXXXXX | 250 | 250 | NONE | 1 | 2104018 |
| TC210407-1CB1 | MB | XXXXXX | WATER | XXXXXX | 250 | 250 | NONE | 1 | 2104018 |
| TC210407-1CB2 | MB | XXXXXX | WATER | XXXXXX | 250 | 250 | NONE | 1 | 2104018 |
| TC210407-1CB3 | MB | XXXXXX | WATER | XXXXXX | 250 | 250 | NONE | 1 | 2104018 |
| TC210407-1 | LCS | XXXXXX | WATER | XXXXXX | 250 | 250 | NONE | 1 | 2104018 |
| 2104018-1 | DUP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 2104018 |
| 2103436-16 | SMP | B404V8 | WATER | 3/22/2021 | 100 | 100 | NONE | 1 | 2103436 |
| 2104004-1 | SMP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 2104004 |
| 2104018-1 | SMP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 2104018 |

QC Types

| | | | | | |
|------|------------------------------------|--|------|--------------------------------------|--|
| CAR | Carrier reference sample | | DLS | Detection Limit Standard | |
| DUP | Laboratory Duplicate | | LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicat | | LODV | Limit of Detection Verification | |
| LOQV | Limit of Quantitation Verification | | MB | Method Blank | |
| MS | Laboratory Matrix Spike | | MSD | Laboratory Matrix Spike Duplicate | |
| REP | Sample replicate | | RVS | Reporting Level Verification Standar | |
| SMP | Field Sample | | SYS | Sample Yield Spike | |

ALS Laboratory Group - Fort Collins

QUALITY ASSURANCE SUMMARY SHEET

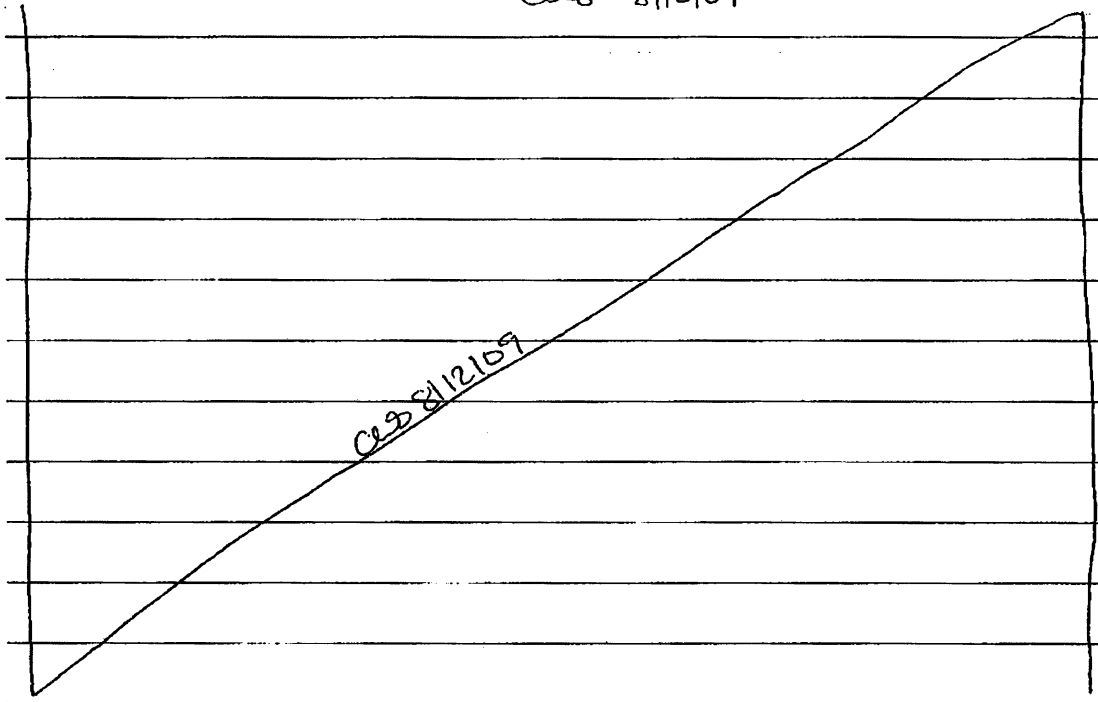
PAR W.O. # / BATCH Generic
 TEST Tc99
 METHOD Prep
 SOP/REV (PREP) 705
 SOP/REV (ANAL) _____

Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQO's or sample characteristics.

cas 8/12/09

Due to possible matrix interference, a ferric hydroxide precipitation was performed on all samples per SOP 755, section 8.2.10

cas 8/12/09



cas 8/12/09

cas 8/12/09

TECHNICIAN/ANALYST Crystal Sheffer DATE 8/12/09

DEPARTMENT MANAGER [Signature] DATE 8/12/09

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ALS Laboratory Group - Fort Collins

QUALITY ASSURANCE SUMMARY SHEET

PAR W.O. # / BATCH General
 TEST Tc99
 METHOD Prep
 SOP/REV (PREP) 755
 SOP/REV (ANAL) _____

Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQO's or sample characteristics.

cls 8/12/09

Tc99^m 711.2613.17 was used as a tracer for this batch. It has a half-life of 6 hours and therefore must be delivered the day of prep and diluted to a working level solution. The procedure noted below is standard for all Tc99^m dilutions.

1. Open the Pb shielded container and carefully remove the vial containing the Tc99^m primary standard.
2. Withdraw a 1 mL aliquot of the Tc99^m primary standard from the vial using a 10 mL syringe fitted with a hypodermic needle. Dispense the aliquot into a disposable beaker that contains ~100 mL of DI water. Cap and mix well. This intermediate solution is a 1/100x dilution of the primary standard.
3. Using a 10 mL syringe, transfer 10 mL of the intermediate solution prepared in step 2 into a disposable beaker that contains ~70 mL of DI water. Cap and mix well. This working standard solution is a 1/800x dilution of the primary standard.



cls 8/12/09


cls 8/12/09

Attach ver

Rx# 147098
 Date Ordered: 20Oct2020
 Date/Time Prepared: 21Oct2020 00:51 MT
CardinalHealth
 CARDINAL HEALTH 414, LLC
 DENVER
 19400 40TH AVE. STE B
 DENVER CO 80238
 303.373.0579

ALS LABORATORY GROUP
 225 COMMERCE DR
 FORT COLLINS CO 80524-2762
 1 0430 Fort Collins

Safetrac 


CAUTION

 RADIOACTIVE MATERIALS

Product: Tc-99m Sodium Pertechnetate Unit Dose mCi (HO)
Disp Amt: 0.54 mCi
Calibration: 21Oct2020 08:00 MT

Notes:
 Source - Not for Human Use For Calibration Use Only
 Indication: Point Source mCi
 Dispense Date: 21Oct2020
 Use By: 22Oct2020 00:51 MT
 Lot#: E20295-0001
 Price(est): N/A
 Physician: Charles Orchard, RSO
 NPT:
 RPh: A. Worthem

Caution Federal law prohibits dispensing without a prescription - Rx only All Tc-99m drugs are below 0.15 uCi of Mo-99mCi of Tc-99m at BUC.

TECHNICIAN/ANALYST Crystal Shreffler DATE 8/12/09

DEPARTMENT MANAGER [Signature] DATE 8/12/09

378636

FORM 302r6.doc (4/22/04)