



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

Hit Summary Sheet  
SW-846

|                      |                             |             |                              |               |   |     |     |       |
|----------------------|-----------------------------|-------------|------------------------------|---------------|---|-----|-----|-------|
| SDG No.:             | P4718                       | Order ID:   | P4718                        |               |   |     |     |       |
| Client:              | Portal Partners Tri-Venture | Project ID: | Amtrak Sawtooth Bridges 2024 |               |   |     |     |       |
| Sample ID            | Client ID                   | Matrix      | Parameter                    | Concentration | C | MDL | RDL | Units |
| Client ID :          |                             |             |                              |               |   |     |     |       |
| Total Concentration: |                             |             |                              | 0.000         |   |     |     |       |



# SAMPLE DATA

## Report of Analysis

|                    |                              |                    |                |
|--------------------|------------------------------|--------------------|----------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/04/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/05/24       |
| Client Sample ID:  | WB-307-SB02                  | SDG No.:           | P4718          |
| Lab Sample ID:     | P4718-03                     | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 100                          | Units:             | mL             |
| Soil Aliquot Vol:  |                              |                    | uL             |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | PH :               |                |
| Prep Method :      | 8151A                        | Injection Volume : |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028456.D        | 1         | 11/10/24 09:45 | 11/12/24 15:38 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 4.90  | U         | 4.90                | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 4.50  | U         | 4.50                | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 386   |           | 70 (39) - 130 (175) | 77%        | SPK: 500 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates &gt;25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                              |           |                    |                |           |
|--------------------|------------------------------|-----------|--------------------|----------------|-----------|
| Client:            | Portal Partners Tri-Venture  |           | Date Collected:    |                |           |
| Project:           | Amtrak Sawtooth Bridges 2024 |           | Date Received:     | 11/10/24       |           |
| Client Sample ID:  | PB164694TB                   |           | SDG No.:           | P4718          |           |
| Lab Sample ID:     | PB164694TB                   |           | Matrix:            | TCLP           |           |
| Analytical Method: | SW8151A                      |           | % Solid:           | 0              | Decanted: |
| Sample Wt/Vol:     | 100                          | Units: mL | Final Vol:         | 10000          | uL        |
| Soil Aliquot Vol:  |                              | uL        | Test:              | TCLP Herbicide |           |
| Extraction Type:   |                              |           | Injection Volume : |                |           |
| GPC Factor :       | 1.0                          | PH :      |                    |                |           |
| Prep Method :      | 8151A                        |           |                    |                |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028454.D        | 1         | 11/10/24 09:45 | 11/12/24 14:49 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 4.90  | U         | 4.90                | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 4.50  | U         | 4.50                | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 351   |           | 70 (39) - 130 (175) | 70%        | SPK: 500 |

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# QC SUMMARY

### Surrogate Summary

SDG No.: **P4718**

Client: **Portal Partners Tri-Venture**

Analytical Method: **8151A**

| Lab Sample ID    | Client ID        | Parameter | Column | Spike | Result | Rec | Qual | Limits  |           |
|------------------|------------------|-----------|--------|-------|--------|-----|------|---------|-----------|
|                  |                  |           |        |       |        |     |      | Low     | High      |
| I.BLK-PS028355.D | PIBLK-PS028355.D | 2,4-DCAA  | 1      | 500   | 501    | 100 |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 503    | 101 |      | 70 (39) | 130 (175) |
| I.BLK-PS028450.D | PIBLK-PS028450.D | 2,4-DCAA  | 1      | 500   | 503    | 101 |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 446    | 89  |      | 70 (39) | 130 (175) |
| PB164850BL       | PB164850BL       | 2,4-DCAA  | 1      | 500   | 484    | 97  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 408    | 82  |      | 70 (39) | 130 (175) |
| PB164850BS       | PB164850BS       | 2,4-DCAA  | 1      | 500   | 534    | 107 |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 468    | 94  |      | 70 (39) | 130 (175) |
| PB164694TB       | PB164694TB       | 2,4-DCAA  | 1      | 500   | 351    | 70  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 283    | 57  | *    | 70 (39) | 130 (175) |
| P4718-03         | WB-307-SB02      | 2,4-DCAA  | 1      | 500   | 386    | 77  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 314    | 63  | *    | 70 (39) | 130 (175) |
| P4718-03MS       | WB-307-SB02MS    | 2,4-DCAA  | 1      | 500   | 363    | 73  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 282    | 56  | *    | 70 (39) | 130 (175) |
| P4718-03MSD      | WB-307-SB02MSD   | 2,4-DCAA  | 1      | 500   | 366    | 73  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 282    | 56  | *    | 70 (39) | 130 (175) |
| I.BLK-PS028462.D | PIBLK-PS028462.D | 2,4-DCAA  | 1      | 500   | 497    | 99  |      | 70 (39) | 130 (175) |
|                  |                  | 2,4-DCAA  | 2      | 500   | 444    | 89  |      | 70 (39) | 130 (175) |

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

DataFile : PS028457.D

| Lab Sample ID:    | Parameter        | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low     | Limits<br>High | RPD |
|-------------------|------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|---------|----------------|-----|
| Client Sample ID: | WB-307-SB02MS    |       |                  |        |       |     |             |     |             |         |                |     |
| P4718-03MS        | 2,4-D            | 50    | 0                | 47.6   | ug/L  | 95  |             |     |             | 70 (65) | 130 (135)      |     |
|                   | 2,4,5-TP(Silvex) | 50    | 0                | 56.9   | ug/L  | 114 |             |     |             | 70 (62) | 130 (139)      |     |

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

DataFile : PS028458.D

| Lab Sample ID:                   | Parameter        | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low     | Limits<br>High | RPD     |
|----------------------------------|------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|---------|----------------|---------|
| Client Sample ID:<br>P4718-03MSD | WB-307-SB02MSD   |       |                  |        |       |     |             |     |             |         |                |         |
|                                  | 2,4-D            | 50    | 0                | 47.8   | ug/L  | 96  |             | 1   |             | 70 (65) | 130 (135)      | 20 (20) |
|                                  | 2,4,5-TP(Silvex) | 50    | 0                | 58.6   | ug/L  | 117 |             | 3   |             | 70 (62) | 130 (139)      | 20 (20) |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** P4718

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8151A **Datafile :** PS028453.D

| Lab Sample ID | Parameter        | Spike | Result | Units | Rec | RPD | Qual | RPD  |         | Limits    |  | RPD |
|---------------|------------------|-------|--------|-------|-----|-----|------|------|---------|-----------|--|-----|
|               |                  |       |        |       |     |     |      | Qual | Low     | High      |  |     |
| PB164850BS    | 2,4-D            | 5     | 5.00   | ug/L  | 100 |     |      |      | 70 (83) | 130 (130) |  |     |
|               | 2,4,5-TP(Silvex) | 5     | 5.20   | ug/L  | 104 |     |      |      | 70 (78) | 130 (127) |  |     |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164850BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164850BL

Lab File ID: PS028452.D

Matrix: (soil/water) water

Extraction: (Type) \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/10/2024

Date Analyzed (1): 11/12/2024

Date Analyzed (2): 11/12/2024

Time Analyzed (1): 13:53

Time Analyzed (2): 13:53

Instrument ID (1): ECD\_S

Instrument ID (2): ECD\_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED 1 | DATE<br>ANALYZED 2 |
|-------------------|------------------|----------------|--------------------|--------------------|
| PB164850BS        | PB164850BS       | PS028453.D     | 11/12/2024         | 11/12/2024         |
| PB164694TB        | PB164694TB       | PS028454.D     | 11/12/2024         | 11/12/2024         |
| WB-307-SB02       | P4718-03         | PS028456.D     | 11/12/2024         | 11/12/2024         |
| WB-307-SB02MS     | P4718-03MS       | PS028457.D     | 11/12/2024         | 11/12/2024         |
| WB-307-SB02MSD    | P4718-03MSD      | PS028458.D     | 11/12/2024         | 11/12/2024         |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_



# QC SAMPLE DATA

## Report of Analysis

|                    |                              |           |                    |                |           |
|--------------------|------------------------------|-----------|--------------------|----------------|-----------|
| Client:            | Portal Partners Tri-Venture  |           | Date Collected:    |                |           |
| Project:           | Amtrak Sawtooth Bridges 2024 |           | Date Received:     |                |           |
| Client Sample ID:  | PB164850BL                   |           | SDG No.:           | P4718          |           |
| Lab Sample ID:     | PB164850BL                   |           | Matrix:            | TCLP           |           |
| Analytical Method: | SW8151A                      |           | % Solid:           | 0              | Decanted: |
| Sample Wt/Vol:     | 1000                         | Units: mL | Final Vol:         | 10000          | uL        |
| Soil Aliquot Vol:  |                              | uL        | Test:              | TCLP Herbicide |           |
| Extraction Type:   |                              |           | Injection Volume : |                |           |
| GPC Factor :       | 1.0                          | PH :      |                    |                |           |
| Prep Method :      | SW3510C                      |           |                    |                |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028452.D        | 1         | 11/10/24 09:45 | 11/12/24 13:53 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 0.49  | U         | 0.49                | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 0.45  | U         | 0.45                | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 484   |           | 70 (39) - 130 (175) | 97%        | SPK: 500 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

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\* = Values outside of QC limits

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() = Laboratory InHouse Limit

## Report of Analysis

|                    |                              |                    |                |
|--------------------|------------------------------|--------------------|----------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/08/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/08/24       |
| Client Sample ID:  | PIBLK-PS028355.D             | SDG No.:           | P4718          |
| Lab Sample ID:     | I.BLK-PS028355.D             | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000 Units: mL               | Decanted:          |                |
| Soil Aliquot Vol:  | uL                           | Final Vol:         | 10000 uL       |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | Injection Volume : |                |
| PH :               |                              |                    |                |
| Prep Method :      | SW3510C                      |                    |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS028355.D        | 1         |           | 11/08/24      | PS110924      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 0.49  | U         | 0.49                | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 0.45  | U         | 0.45                | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 503   |           | 70 (39) - 130 (175) | 101%       | SPK: 500 |

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## Report of Analysis

|                    |                              |                    |                |
|--------------------|------------------------------|--------------------|----------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/12/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/12/24       |
| Client Sample ID:  | PIBLK-PS028450.D             | SDG No.:           | P4718          |
| Lab Sample ID:     | I.BLK-PS028450.D             | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000 Units: mL               | Decanted:          |                |
| Soil Aliquot Vol:  | uL                           | Final Vol:         | 10000 uL       |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | Injection Volume : |                |
| Prep Method :      | SW3510C                      |                    |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS028450.D        | 1         |           | 11/12/24      | PS111224      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 0.49  | U         | 0.49                | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 0.45  | U         | 0.45                | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 503   |           | 70 (39) - 130 (175) | 101%       | SPK: 500 |

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|                    |                              |                    |                |
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| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/12/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/12/24       |
| Client Sample ID:  | PIBLK-PS028462.D             | SDG No.:           | P4718          |
| Lab Sample ID:     | I.BLK-PS028462.D             | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 1000                         | Units:             | mL             |
| Soil Aliquot Vol:  |                              |                    | uL             |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | PH :               |                |
| Prep Method :      | SW3510C                      | Injection Volume : |                |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PS028462.D        | 1         |           | 11/12/24      | PS111224      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 0.49  | U         | 0.49                | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 0.45  | U         | 0.45                | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 497   |           | 70 (39) - 130 (175) | 99%        | SPK: 500 |

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|                    |                              |           |                    |                |           |
|--------------------|------------------------------|-----------|--------------------|----------------|-----------|
| Client:            | Portal Partners Tri-Venture  |           | Date Collected:    |                |           |
| Project:           | Amtrak Sawtooth Bridges 2024 |           | Date Received:     |                |           |
| Client Sample ID:  | PB164850BS                   |           | SDG No.:           | P4718          |           |
| Lab Sample ID:     | PB164850BS                   |           | Matrix:            | TCLP           |           |
| Analytical Method: | SW8151A                      |           | % Solid:           | 0              | Decanted: |
| Sample Wt/Vol:     | 1000                         | Units: mL | Final Vol:         | 10000          | uL        |
| Soil Aliquot Vol:  |                              | uL        | Test:              | TCLP Herbicide |           |
| Extraction Type:   |                              |           | Injection Volume : |                |           |
| GPC Factor :       | 1.0                          | PH :      |                    |                |           |
| Prep Method :      | SW3510C                      |           |                    |                |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028453.D        | 1         | 11/10/24 09:45 | 11/12/24 14:17 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 5.00  |           | 0.49                | 2.00       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 5.20  |           | 0.45                | 2.00       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 534   |           | 70 (39) - 130 (175) | 107%       | SPK: 500 |

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## Report of Analysis

|                    |                              |                    |                |
|--------------------|------------------------------|--------------------|----------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/04/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/05/24       |
| Client Sample ID:  | WB-307-SB02MS                | SDG No.:           | P4718          |
| Lab Sample ID:     | P4718-03MS                   | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 100                          | Units:             | mL             |
| Soil Aliquot Vol:  |                              |                    | uL             |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | PH :               |                |
| Prep Method :      | SW3510C                      | Injection Volume : |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028457.D        | 1         | 11/10/24 09:45 | 11/12/24 16:03 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 47.6  |           | 4.90                | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 56.9  |           | 4.50                | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 363   |           | 70 (39) - 130 (175) | 73%        | SPK: 500 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates &gt;25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                              |                    |                |
|--------------------|------------------------------|--------------------|----------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected:    | 11/04/24       |
| Project:           | Amtrak Sawtooth Bridges 2024 | Date Received:     | 11/05/24       |
| Client Sample ID:  | WB-307-SB02MSD               | SDG No.:           | P4718          |
| Lab Sample ID:     | P4718-03MSD                  | Matrix:            | TCLP           |
| Analytical Method: | SW8151A                      | % Solid:           | 0              |
| Sample Wt/Vol:     | 100                          | Units:             | mL             |
| Soil Aliquot Vol:  |                              |                    | uL             |
| Extraction Type:   |                              | Test:              | TCLP Herbicide |
| GPC Factor :       | 1.0                          | PH :               |                |
| Prep Method :      | SW3510C                      | Injection Volume : |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PS028458.D        | 1         | 11/10/24 09:45 | 11/12/24 16:27 | PB164850      |

| CAS Number        | Parameter         | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|-------------------|-------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>    |                   |       |           |                     |            |          |
| 94-75-7           | 2,4-D             | 47.8  |           | 4.90                | 20.0       | ug/L     |
| 93-72-1           | 2,4,5-TP (Silvex) | 58.6  |           | 4.50                | 20.0       | ug/L     |
| <b>SURROGATES</b> |                   |       |           |                     |            |          |
| 19719-28-9        | 2,4-DCAA          | 366   |           | 70 (39) - 130 (175) | 73%        | SPK: 500 |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates &gt;25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



# CALIBRATION SUMMARY

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

GC Column: RTX-CLP ID: 0.32 (mm)

[illegible]

# RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Instrument ID: ECD\_S Calibration Date(s): 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

|              |                            |                             |
|--------------|----------------------------|-----------------------------|
| LAB FILE ID: | RT 200 = <u>PS028356.D</u> | RT 500 = <u>PS028357.D</u>  |
|              | RT 750 = <u>PS028358.D</u> | RT 1000 = <u>PS028359.D</u> |
|              |                            | RT 1500 = <u>PS028360.D</u> |

| COMPOUND         | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN<br>RT | RT WINDOW<br>FROM TO |       |
|------------------|--------|--------|--------|---------|---------|------------|----------------------|-------|
| 2,4,5-TP(Silvex) | 9.91   | 9.91   | 9.91   | 9.91    | 9.91    | 9.91       | 9.81                 | 10.01 |
| 2,4-D            | 9.01   | 9.00   | 9.01   | 9.01    | 9.01    | 9.00       | 8.90                 | 9.10  |
| 2,4-DCAA         | 7.76   | 7.75   | 7.76   | 7.76    | 7.76    | 7.75       | 7.65                 | 7.85  |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

**Instrument ID:** ECD\_S **Calibration Date(s):** 11/08/2024 11/08/2024  
**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 (mm)

| <b>LAB FILE ID:</b> |             | CF 200 =          | <u>PS028356.D</u> | CF 500 =          | <u>PS028357.D</u> |                   |          |
|---------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| CF 750 =            |             | <u>PS028358.D</u> | CF 1000 =         | <u>PS028359.D</u> | CF 1500 =         | <u>PS028360.D</u> |          |
| COMPOUND            | CF 200      | CF 500            | CF 750            | CF 1000           | CF 1500           | CF                | %<br>RSD |
| 2,4,5-TP(Silvex)    | 21008200000 | 18982300000       | 19068100000       | 18267500000       | 17318700000       | 18929000000       | 7        |
| 2,4-D               | 3997770000  | 3571450000        | 3468690000        | 3334460000        | 3198650000        | 3514210000        | 9        |
| 2,4-DCAA            | 3196830000  | 2740430000        | 2735520000        | 2619650000        | 2511350000        | 2760750000        | 9        |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

**Instrument ID:** ECD\_S **Calibration Date(s):** 11/08/2024 11/08/2024  
**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm)

| <b>LAB FILE ID:</b> |             | CF 200 =          | <u>PS028356.D</u> | CF 500 =          | <u>PS028357.D</u> |                   |          |
|---------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| CF 750 =            |             | <u>PS028358.D</u> | CF 1000 =         | <u>PS028359.D</u> | CF 1500 =         | <u>PS028360.D</u> |          |
| COMPOUND            | CF 200      | CF 500            | CF 750            | CF 1000           | CF 1500           | CF                | %<br>RSD |
| 2,4,5-TP(Silvex)    | 10970300000 | 10612300000       | 10768700000       | 10478800000       | 10130800000       | 10592200000       | 3        |
| 2,4-D               | 2051780000  | 1901200000        | 1935300000        | 1900220000        | 1880580000        | 1933820000        | 4        |
| 2,4-DCAA            | 1694540000  | 1575990000        | 1595150000        | 1561040000        | 1540400000        | 1593420000        | 4        |

**CALIBRATION VERIFICATION SUMMARY**

**Contract:** PORT06

**Lab Code:** CHEM      **Case No.:** P4718      **SAS No.:** P4718      **SDG NO.:** P4718

**Continuing Calib Date:** 11/12/2024      **Initial Calibration Date(s):** 11/08/2024      11/08/2024

**Continuing Calib Time:** 13:25      **Initial Calibration Time(s):** 15:13      16:58

**GC Column:** RTX-CLP      **ID:** 0.32      (mm)

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|------------------|------------|-----------|-----------|------|------------|
|                  |            |           | FROM      | TO   |            |
| 2,4-DCAA         | 7.24       | 7.25      | 7.15      | 7.35 | 0.01       |
| 2,4-D            | 8.37       | 8.38      | 8.28      | 8.48 | 0.01       |
| 2,4,5-TP(Silvex) | 9.25       | 9.26      | 9.16      | 9.36 | 0.01       |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Continuing Calib Date: 11/12/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 13:25 Initial Calibration Time(s): 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW |       | DIFF<br>RT |
|------------------|------------|-----------|-----------|-------|------------|
|                  |            |           | FROM      | TO    |            |
| 2,4-DCAA         | 7.75       | 7.76      | 7.66      | 7.86  | 0.01       |
| 2,4-D            | 9.00       | 9.01      | 8.91      | 9.11  | 0.02       |
| 2,4,5-TP(Silvex) | 9.90       | 9.91      | 9.81      | 10.01 | 0.01       |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL01 Date Analyzed: 11/12/2024

Lab Sample No.: HSTDCCC750 Data File : PS028451.D Time Analyzed: 13:25

| COMPOUND         | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|-------|--------------------|-------------------|------|
|                  |       | FROM      | TO    |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.254 | 9.160     | 9.360 | 735.550            | 712.500           | 3.2  |
| 2,4-D            | 8.374 | 8.279     | 8.479 | 712.300            | 705.000           | 1.0  |
| 2,4-DCAA         | 7.244 | 7.150     | 7.350 | 740.980            | 750.000           | -1.2 |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL01 Date Analyzed: 11/12/2024

Lab Sample No.: HSTDCCC750 Data File : PS028451.D Time Analyzed: 13:25

| COMPOUND         | RT    | RT WINDOW |        | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|--------|--------------------|-------------------|------|
|                  |       | FROM      | TO     |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.902 | 9.811     | 10.011 | 664.220            | 712.500           | -6.8 |
| 2,4-D            | 8.995 | 8.905     | 9.105  | 639.620            | 705.000           | -9.3 |
| 2,4-DCAA         | 7.747 | 7.655     | 7.855  | 681.430            | 750.000           | -9.1 |

**CALIBRATION VERIFICATION SUMMARY**

**Contract:** PORT06

**Lab Code:** CHEM      **Case No.:** P4718      **SAS No.:** P4718      **SDG NO.:** P4718

**Continuing Calib Date:** 11/12/2024      **Initial Calibration Date(s):** 11/08/2024      11/08/2024

**Continuing Calib Time:** 18:29      **Initial Calibration Time(s):** 15:13      16:58

**GC Column:** RTX-CLP      **ID:** 0.32      (mm)

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|------------------|------------|-----------|-----------|------|------------|
|                  |            |           | FROM      | TO   |            |
| 2,4-DCAA         | 7.24       | 7.25      | 7.15      | 7.35 | 0.01       |
| 2,4-D            | 8.37       | 8.38      | 8.28      | 8.48 | 0.01       |
| 2,4,5-TP(Silvex) | 9.25       | 9.26      | 9.16      | 9.36 | 0.01       |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Continuing Calib Date: 11/12/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 18:29 Initial Calibration Time(s): 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

| COMPOUND         | CCAL<br>RT | AVG<br>RT | RT WINDOW |       | DIFF<br>RT |
|------------------|------------|-----------|-----------|-------|------------|
|                  |            |           | FROM      | TO    |            |
| 2,4-DCAA         | 7.75       | 7.76      | 7.66      | 7.86  | 0.01       |
| 2,4-D            | 8.99       | 9.01      | 8.91      | 9.11  | 0.02       |
| 2,4,5-TP(Silvex) | 9.90       | 9.91      | 9.81      | 10.01 | 0.01       |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL02 Date Analyzed: 11/12/2024

Lab Sample No.: HSTDCCC750 Data File : PS028463.D Time Analyzed: 18:29

| COMPOUND         | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|-------|--------------------|-------------------|------|
|                  |       | FROM      | TO    |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.253 | 9.160     | 9.360 | 730.330            | 712.500           | 2.5  |
| 2,4-D            | 8.372 | 8.279     | 8.479 | 706.140            | 705.000           | 0.2  |
| 2,4-DCAA         | 7.243 | 7.150     | 7.350 | 746.010            | 750.000           | -0.5 |

### CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL02 Date Analyzed: 11/12/2024

Lab Sample No.: HSTDCCC750 Data File : PS028463.D Time Analyzed: 18:29

| COMPOUND         | RT    | RT WINDOW |        | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|------------------|-------|-----------|--------|--------------------|-------------------|------|
|                  |       | FROM      | TO     |                    |                   |      |
| 2,4,5-TP(Silvex) | 9.901 | 9.811     | 10.011 | 663.190            | 712.500           | -6.9 |
| 2,4-D            | 8.994 | 8.905     | 9.105  | 643.750            | 705.000           | -8.7 |
| 2,4-DCAA         | 7.746 | 7.655     | 7.855  | 675.910            | 750.000           | -9.9 |

## Analytical Sequence

|                                              |                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------|
| <b>Client:</b> Portal Partners Tri-Venture   | <b>SDG No.:</b> P4718                                                        |
| <b>Project:</b> Amtrak Sawtooth Bridges 2024 | <b>Instrument ID:</b> ECD_S                                                  |
| <b>GC Column:</b> RTX-CLP                    | <b>ID:</b> 0.32 (mm) <b>Inst. Calib. Date(s):</b> 11/08/2024      11/08/2024 |

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,  
AND STANDARDS IS GIVEN BELOW:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCAA<br>RT # | RT # |
|-------------------|------------------|------------------|------------------|------------|--------------|------|
| 1.BLK             | 1.BLK            | 11/08/2024       | 14:25            | PS028355.D | 7.25         | 0.00 |
| HSTDICC200        | HSTDICC200       | 11/08/2024       | 15:13            | PS028356.D | 7.25         | 0.00 |
| HSTDICC500        | HSTDICC500       | 11/08/2024       | 15:46            | PS028357.D | 7.25         | 0.00 |
| HSTDICC750        | HSTDICC750       | 11/08/2024       | 16:10            | PS028358.D | 7.25         | 0.00 |
| HSTDICC1000       | HSTDICC1000      | 11/08/2024       | 16:34            | PS028359.D | 7.25         | 0.00 |
| HSTDICC1500       | HSTDICC1500      | 11/08/2024       | 16:58            | PS028360.D | 7.25         | 0.00 |
| 1.BLK             | 1.BLK            | 11/12/2024       | 13:00            | PS028450.D | 7.24         | 0.00 |
| HSTDCCC750        | HSTDCCC750       | 11/12/2024       | 13:25            | PS028451.D | 7.24         | 0.00 |
| PB164850BL        | PB164850BL       | 11/12/2024       | 13:53            | PS028452.D | 7.25         | 0.00 |
| PB164850BS        | PB164850BS       | 11/12/2024       | 14:17            | PS028453.D | 7.24         | 0.00 |
| PB164694TB        | PB164694TB       | 11/12/2024       | 14:49            | PS028454.D | 7.25         | 0.00 |
| WB-307-SB02       | P4718-03         | 11/12/2024       | 15:38            | PS028456.D | 7.24         | 0.00 |
| WB-307-SB02MS     | P4718-03MS       | 11/12/2024       | 16:03            | PS028457.D | 7.24         | 0.00 |
| WB-307-SB02MSD    | P4718-03MSD      | 11/12/2024       | 16:27            | PS028458.D | 7.24         | 0.00 |
| 1.BLK             | 1.BLK            | 11/12/2024       | 18:04            | PS028462.D | 7.24         | 0.00 |
| HSTDCCC750        | HSTDCCC750       | 11/12/2024       | 18:29            | PS028463.D | 7.24         | 0.00 |

## Analytical Sequence

|                                              |                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------|
| <b>Client:</b> Portal Partners Tri-Venture   | <b>SDG No.:</b> P4718                                                      |
| <b>Project:</b> Amtrak Sawtooth Bridges 2024 | <b>Instrument ID:</b> ECD_S                                                |
| <b>GC Column:</b> RTX-CLP2                   | <b>ID:</b> 0.32 (mm) <b>Inst. Calib. Date(s):</b> 11/08/2024    11/08/2024 |

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,  
AND STANDARDS IS GIVEN BELOW:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCAA<br>RT # | RT # |
|-------------------|------------------|------------------|------------------|------------|--------------|------|
| 1.BLK             | 1.BLK            | 11/08/2024       | 14:25            | PS028355.D | 7.76         | 0.00 |
| HSTDICC200        | HSTDICC200       | 11/08/2024       | 15:13            | PS028356.D | 7.76         | 0.00 |
| HSTDICC500        | HSTDICC500       | 11/08/2024       | 15:46            | PS028357.D | 7.75         | 0.00 |
| HSTDICC750        | HSTDICC750       | 11/08/2024       | 16:10            | PS028358.D | 7.76         | 0.00 |
| HSTDICC1000       | HSTDICC1000      | 11/08/2024       | 16:34            | PS028359.D | 7.76         | 0.00 |
| HSTDICC1500       | HSTDICC1500      | 11/08/2024       | 16:58            | PS028360.D | 7.76         | 0.00 |
| 1.BLK             | 1.BLK            | 11/12/2024       | 13:00            | PS028450.D | 7.75         | 0.00 |
| HSTDCCC750        | HSTDCCC750       | 11/12/2024       | 13:25            | PS028451.D | 7.75         | 0.00 |
| PB164850BL        | PB164850BL       | 11/12/2024       | 13:53            | PS028452.D | 7.75         | 0.00 |
| PB164850BS        | PB164850BS       | 11/12/2024       | 14:17            | PS028453.D | 7.75         | 0.00 |
| PB164694TB        | PB164694TB       | 11/12/2024       | 14:49            | PS028454.D | 7.75         | 0.00 |
| WB-307-SB02       | P4718-03         | 11/12/2024       | 15:38            | PS028456.D | 7.75         | 0.00 |
| WB-307-SB02MS     | P4718-03MS       | 11/12/2024       | 16:03            | PS028457.D | 7.75         | 0.00 |
| WB-307-SB02MSD    | P4718-03MSD      | 11/12/2024       | 16:27            | PS028458.D | 7.75         | 0.00 |
| 1.BLK             | 1.BLK            | 11/12/2024       | 18:04            | PS028462.D | 7.75         | 0.00 |
| HSTDCCC750        | HSTDCCC750       | 11/12/2024       | 18:29            | PS028463.D | 7.75         | 0.00 |

# COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164850BS

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164850BS Date(s) Analyzed: 11/12/2024 11/12/2024

Instrument ID (1): ECD\_S Instrument ID (2): ECD\_S

GC Column: (1): RTX-CLP ID: 0.32 (mm) GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

| ANALYTE          | COL | RT   | RT WINDOW |      | CONCENTRATION | %RPD |
|------------------|-----|------|-----------|------|---------------|------|
|                  |     |      | FROM      | TO   |               |      |
| 2,4-D            | 1   | 8.37 | 8.32      | 8.42 | 5.00          | 12.8 |
|                  | 2   | 9.00 | 8.95      | 9.05 | 4.40          |      |
| 2,4,5-TP(Silvex) | 1   | 9.25 | 9.20      | 9.30 | 5.20          | 12.2 |
|                  | 2   | 9.90 | 9.85      | 9.95 | 4.60          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-307-SB02MS

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: P4718-03MS Date(s) Analyzed: 11/12/2024 11/12/2024

Instrument ID (1): ECD\_S Instrument ID (2): ECD\_S

GC Column: (1): RTX-CLP ID: 0.32 (mm) GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

| ANALYTE          | COL | RT   | RT WINDOW |      | CONCENTRATION | %RPD |
|------------------|-----|------|-----------|------|---------------|------|
|                  |     |      | FROM      | TO   |               |      |
| 2,4,5-TP(Silvex) | 1   | 9.25 | 9.20      | 9.30 | 46.0          | 21.2 |
|                  | 2   | 9.90 | 9.85      | 9.95 | 56.9          |      |
| 2,4-D            | 1   | 8.37 | 8.32      | 8.42 | 47.6          | 14.4 |
|                  | 2   | 8.99 | 8.94      | 9.04 | 41.2          |      |

**COMPOUND DETECTION SUMMARY**

**CLIENT SAMPLE NO.**

**WB-307-SB02MSD**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

**Lab Sample ID:** P4718-03MSD **Date(s) Analyzed:** 11/12/2024 11/12/2024

**Instrument ID (1):** ECD\_S **Instrument ID (2):** ECD\_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE          | COL | RT   | RT WINDOW |      | CONCENTRATION | %RPD |
|------------------|-----|------|-----------|------|---------------|------|
|                  |     |      | FROM      | TO   |               |      |
| 2,4-D            | 1   | 8.37 | 8.32      | 8.42 | 47.8          | 11.3 |
|                  | 2   | 8.99 | 8.94      | 9.04 | 42.7          |      |
| 2,4,5-TP(Silvex) | 1   | 9.25 | 9.20      | 9.30 | 46.2          | 23.7 |
|                  | 2   | 9.91 | 9.86      | 9.96 | 58.6          |      |



# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028456.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 15:38  
 Operator : AR\AJ  
 Sample : P4718-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 WB-307-SB02

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:52:03 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2  | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|---------|---------|---------|
| -----                       |       |       |          |         |         |         |
| System Monitoring Compounds |       |       |          |         |         |         |
| 4) S 2,4-DCAA               | 7.244 | 7.746 | 1066.4E6 | 499.6E6 | 386.260 | 313.540 |

Target Compounds

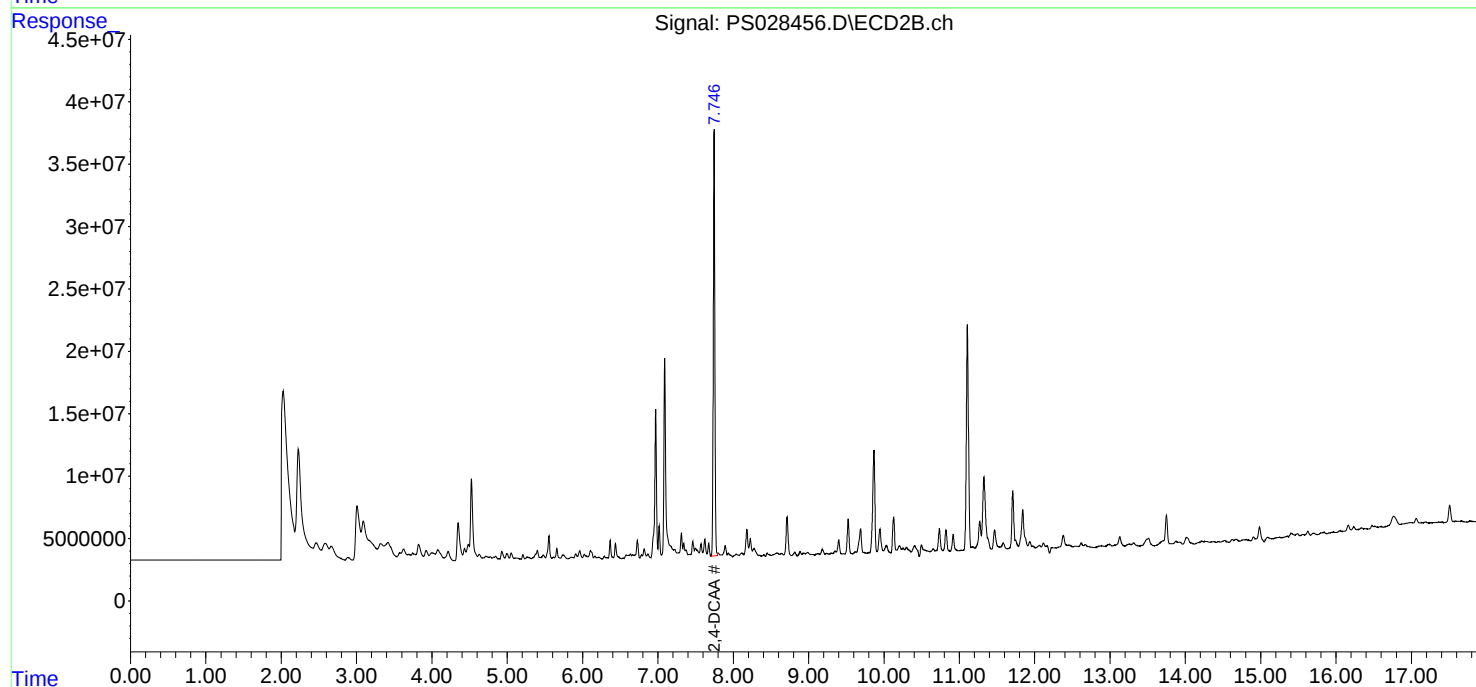
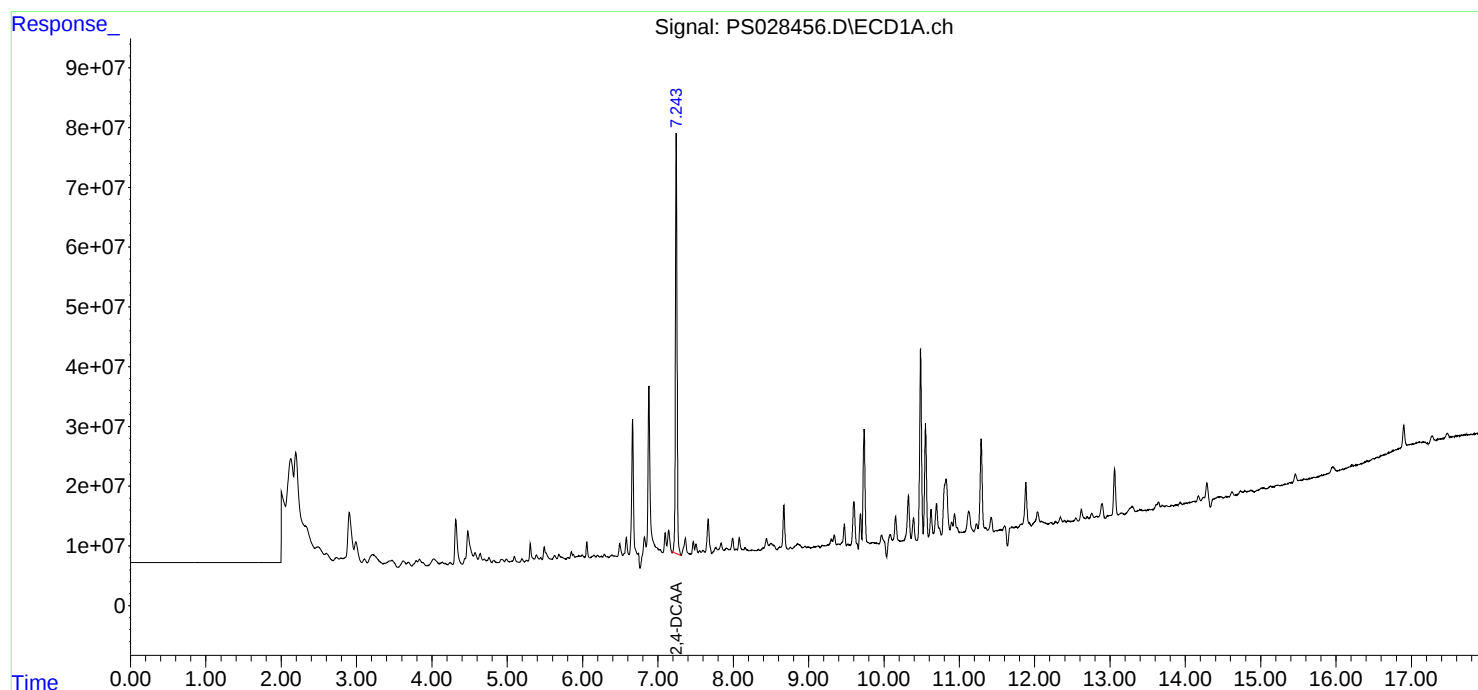
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

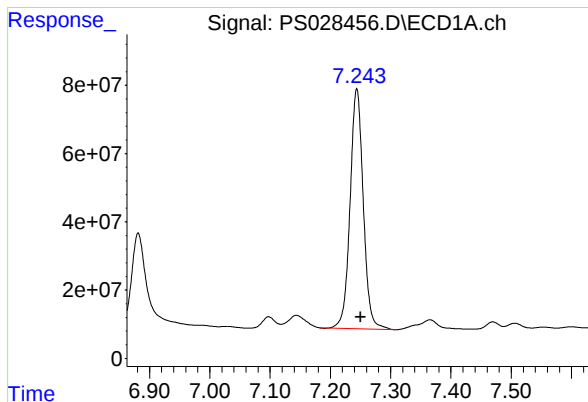
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028456.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 15:38  
Operator : AR\AJ  
Sample : P4718-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
WB-307-SB02

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:52:03 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

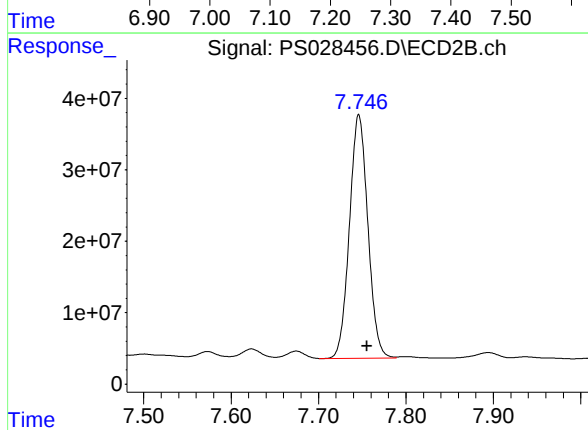




#4 2,4-DCAA

R.T.: 7.244 min  
Delta R.T.: -0.006 min  
Response: 1066368198  
Conc: 386.26 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
WB-307-SB02



#4 2,4-DCAA

R.T.: 7.746 min  
Delta R.T.: -0.009 min  
Response: 499601746  
Conc: 313.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028454.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 14:49  
 Operator : AR\AJ  
 Sample : PB164694TB  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 PB164694TB

A

B

C

D

E

F

G

H

I

J

K

L

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:50:14 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound                    | RT#1  | RT#2  | Resp#1  | Resp#2  | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|---------|---------|---------|---------|
| -----                       |       |       |         |         |         |         |
| System Monitoring Compounds |       |       |         |         |         |         |
| 4) S 2,4-DCAA               | 7.247 | 7.746 | 969.4E6 | 451.4E6 | 351.121 | 283.276 |

Target Compounds

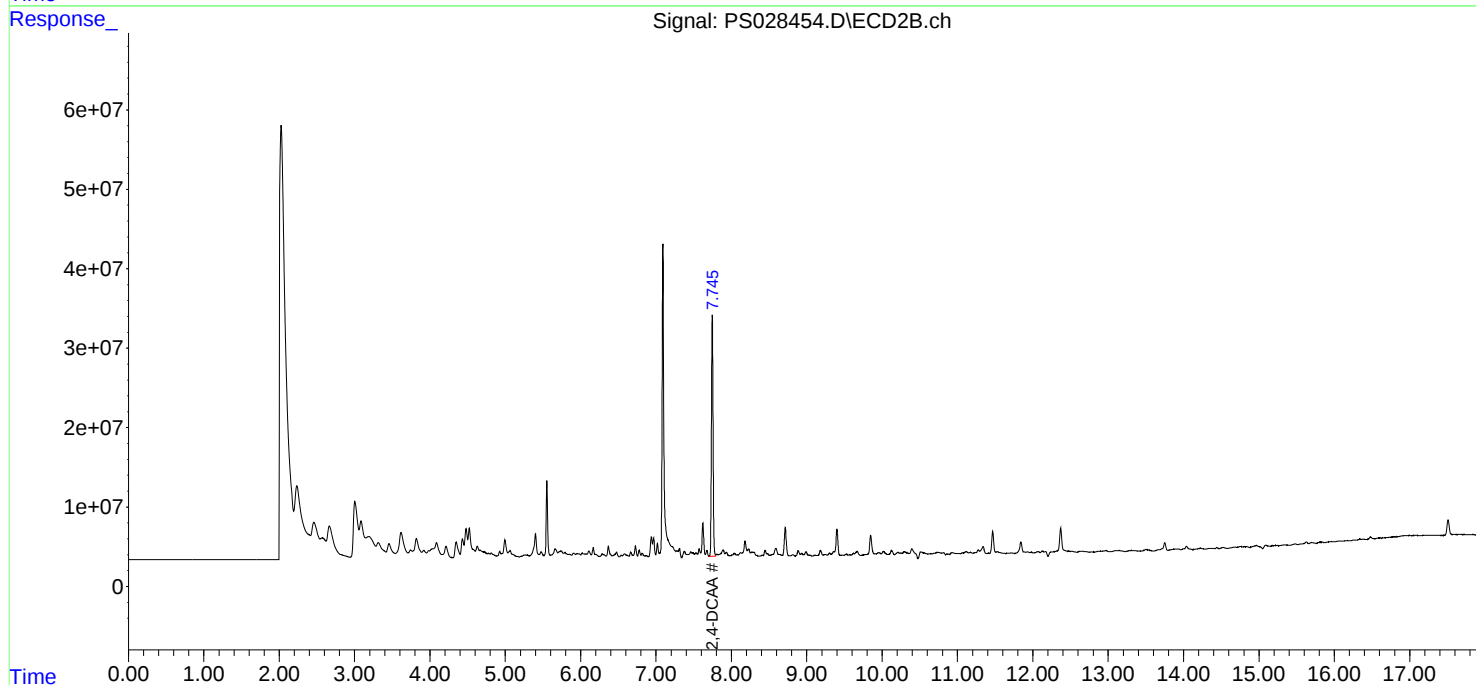
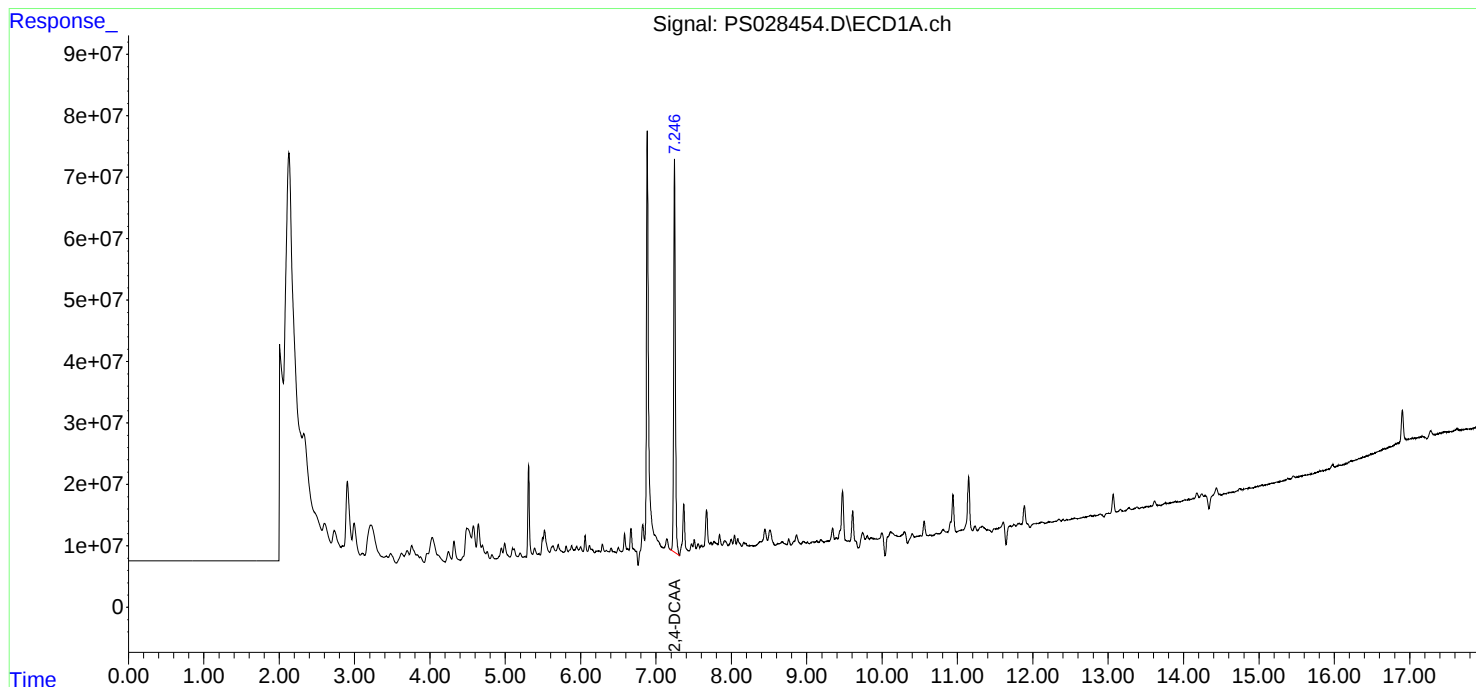
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

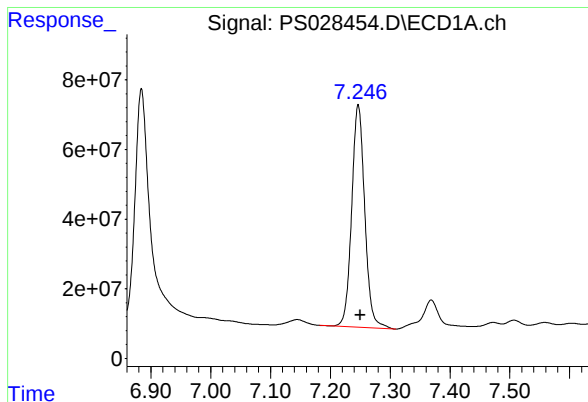
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028454.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 14:49  
Operator : AR\AJ  
Sample : PB164694TB  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
PB164694TB

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:50:14 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

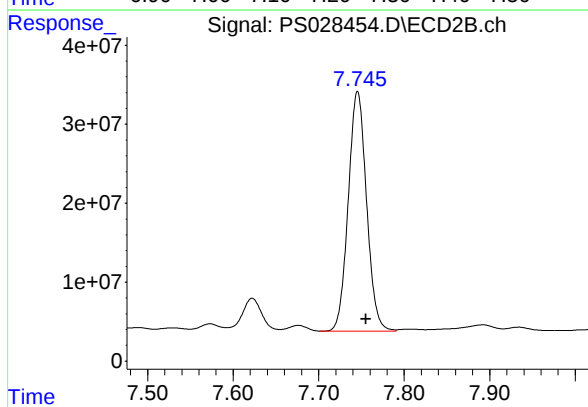




#4 2,4-DCAA

R.T.: 7.247 min  
Delta R.T.: -0.003 min  
Response: 969358443  
Conc: 351.12 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
PB164694TB



#4 2,4-DCAA

R.T.: 7.746 min  
Delta R.T.: -0.010 min  
Response: 451378108  
Conc: 283.28 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028452.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 13:53  
 Operator : AR\AJ  
 Sample : PB164850BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 ECD\_S  
 ClientSampleId :  
 PB164850BL

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:48:31 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

#### System Monitoring Compounds

|      |          |       |       |          |         |         |         |
|------|----------|-------|-------|----------|---------|---------|---------|
| 4) S | 2,4-DCAA | 7.246 | 7.746 | 1336.7E6 | 649.5E6 | 484.173 | 407.586 |
|------|----------|-------|-------|----------|---------|---------|---------|

#### Target Compounds

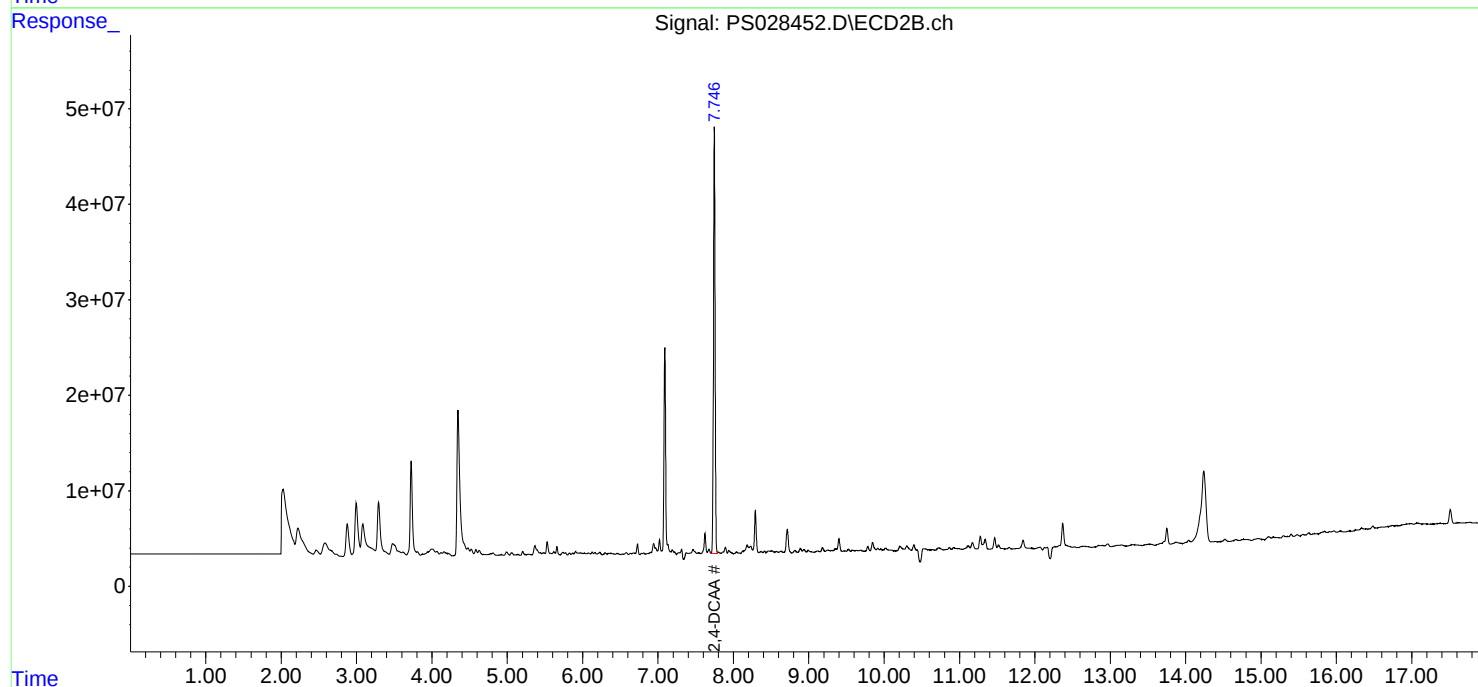
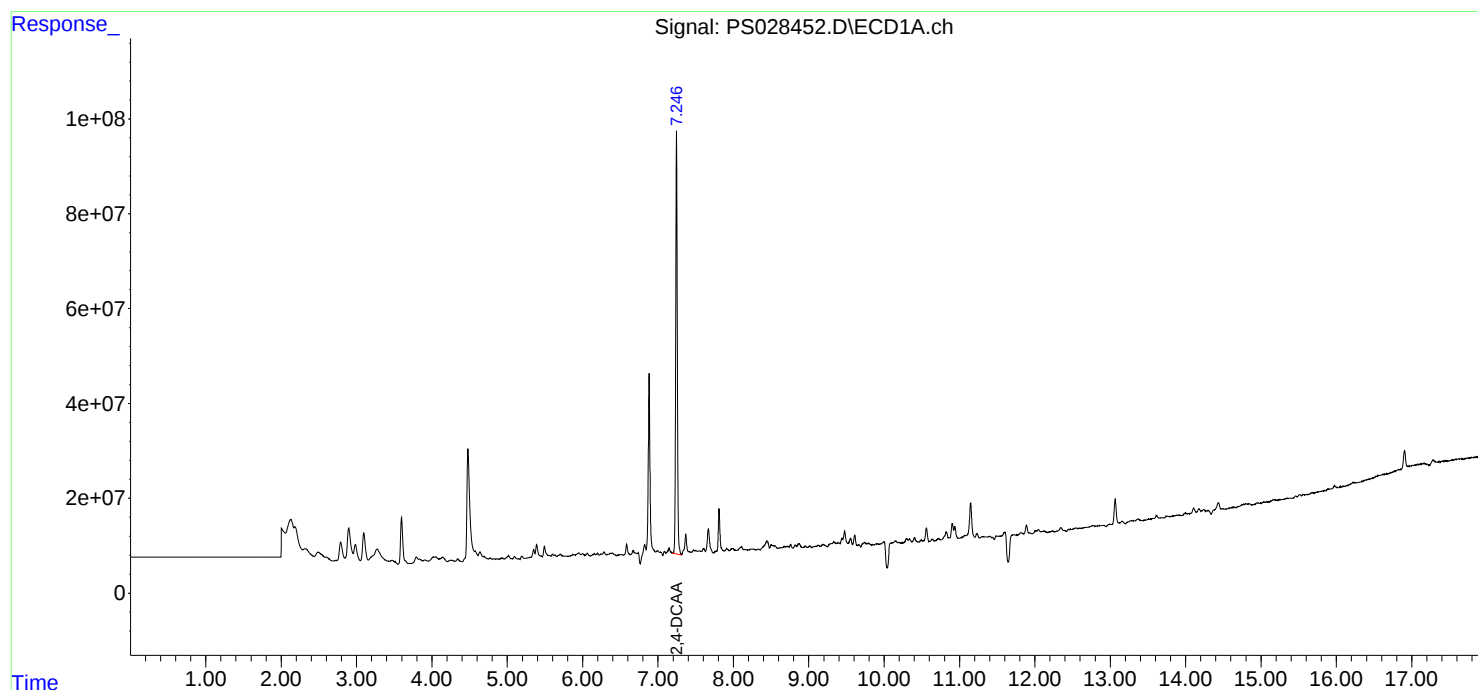
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

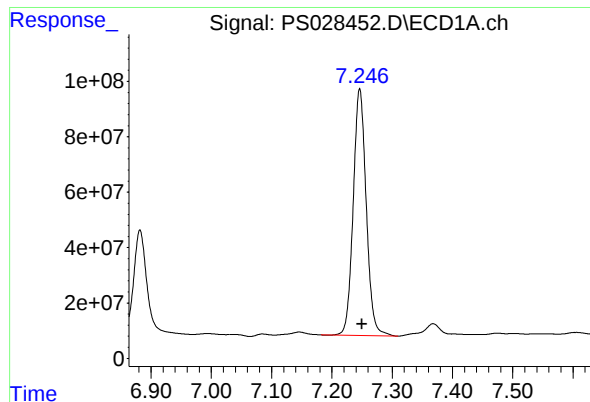
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028452.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 13:53  
Operator : AR\AJ  
Sample : PB164850BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
ECD\_S  
ClientSampleId :  
PB164850BL

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:48:31 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

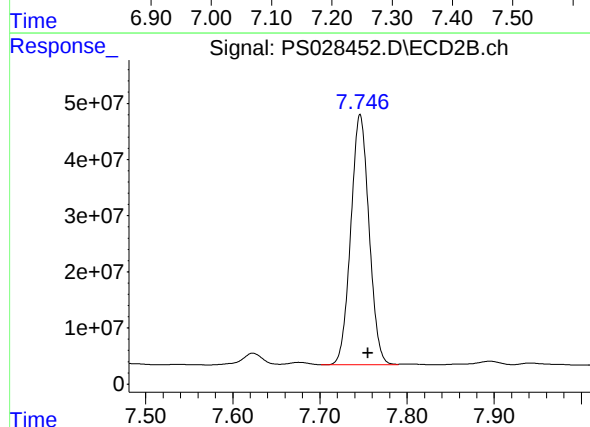




#4 2,4-DCAA

R.T.: 7.246 min  
Delta R.T.: -0.004 min  
Response: 1336682250  
Conc: 484.17 ng/ml

Instrument :  
ECD\_S  
ClientSampleId :  
PB164850BL



#4 2,4-DCAA

R.T.: 7.746 min  
Delta R.T.: -0.009 min  
Response: 649456249  
Conc: 407.59 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028453.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 14:17  
 Operator : AR\AJ  
 Sample : PB164850BS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

PB164850BS

## Manual Integrations

## APPROVED

Reviewed By :Abdul Mirza 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:49:19 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

|                             | Compound     | RT#1   | RT#2   | Resp#1    | Resp#2    | ng/ml   | ng/ml    |
|-----------------------------|--------------|--------|--------|-----------|-----------|---------|----------|
| -----                       |              |        |        |           |           |         |          |
| System Monitoring Compounds |              |        |        |           |           |         |          |
| 4) S                        | 2,4-DCAA     | 7.244  | 7.747  | 1473.7E6  | 745.8E6   | 533.813 | 468.074  |
| Target Compounds            |              |        |        |           |           |         |          |
| 1) T                        | Dalapon      | 2.642  | 2.702  | 1603.3E6  | 1144.6E6  | 449.334 | 403.640  |
| 2) T                        | 3,5-DICHL... | 6.413  | 6.699  | 1978.3E6  | 1034.0E6  | 494.396 | 436.449  |
| 3) T                        | 4-Nitroph... | 7.043  | 7.273  | 851.3E6   | 434.3E6   | 459.111 | 410.058  |
| 5) T                        | DICAMBA      | 7.432  | 7.948  | 6083.4E6  | 3177.8E6  | 505.234 | 443.241  |
| 6) T                        | MCPD         | 7.614  | 8.048  | 386.0E6   | 250.1E6   | 47.198  | 42.572   |
| 7) T                        | MCPA         | 7.764  | 8.294  | 541.4E6   | 337.7E6   | 48.284  | 42.171   |
| 8) T                        | DICHLORPROP  | 8.142  | 8.665  | 1568.1E6  | 772.0E6   | 505.896 | 433.386  |
| 9) T                        | 2,4-D        | 8.373  | 8.995  | 1768.2E6  | 858.0E6   | 503.150 | 443.669m |
| 10) T                       | Pentachlo... | 8.673  | 9.525  | 24641.0E6 | 11621.2E6 | 547.067 | 466.398  |
| 11) T                       | 2,4,5-TP ... | 9.253  | 9.902  | 9787.9E6  | 4837.3E6  | 517.087 | 456.686  |
| 12) T                       | 2,4,5-T      | 9.547  | 10.323 | 10003.4E6 | 4763.8E6  | 516.142 | 459.114  |
| 13) T                       | 2,4-DB       | 10.123 | 10.890 | 1514.4E6  | 569.9E6   | 489.947 | 429.989  |
| 14) T                       | DINOSEB      | 11.339 | 11.270 | 8131.3E6  | 3199.9E6  | 501.519 | 445.836  |
| 15) T                       | Picloram     | 11.144 | 12.368 | 15318.2E6 | 6261.2E6  | 487.747 | 435.033  |
| 16) T                       | DCPA         | 11.631 | 12.316 | 13760.1E6 | 5123.5E6  | 514.851 | 457.042  |
| -----                       |              |        |        |           |           |         |          |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028453.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 14:17  
Operator : AR\AJ  
Sample : PB164850BS  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

PB164850BS

## Manual Integrations

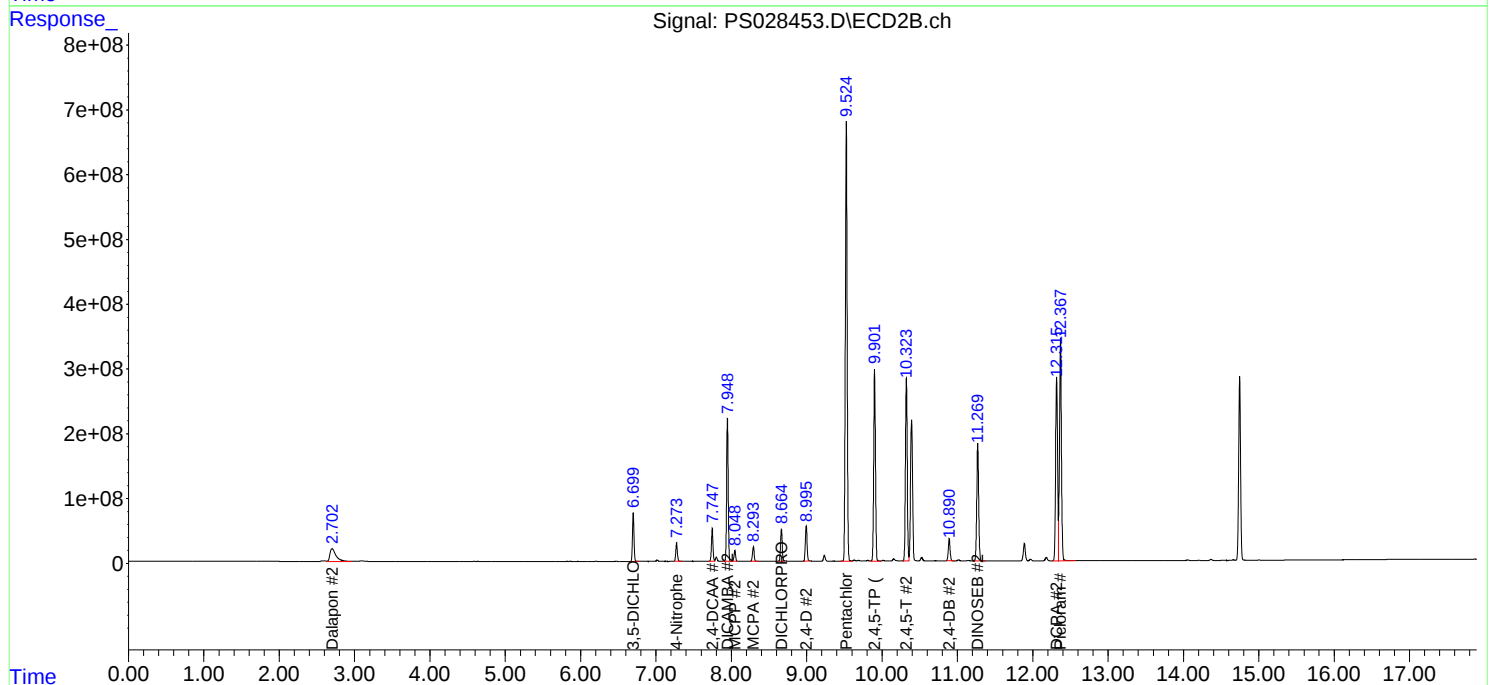
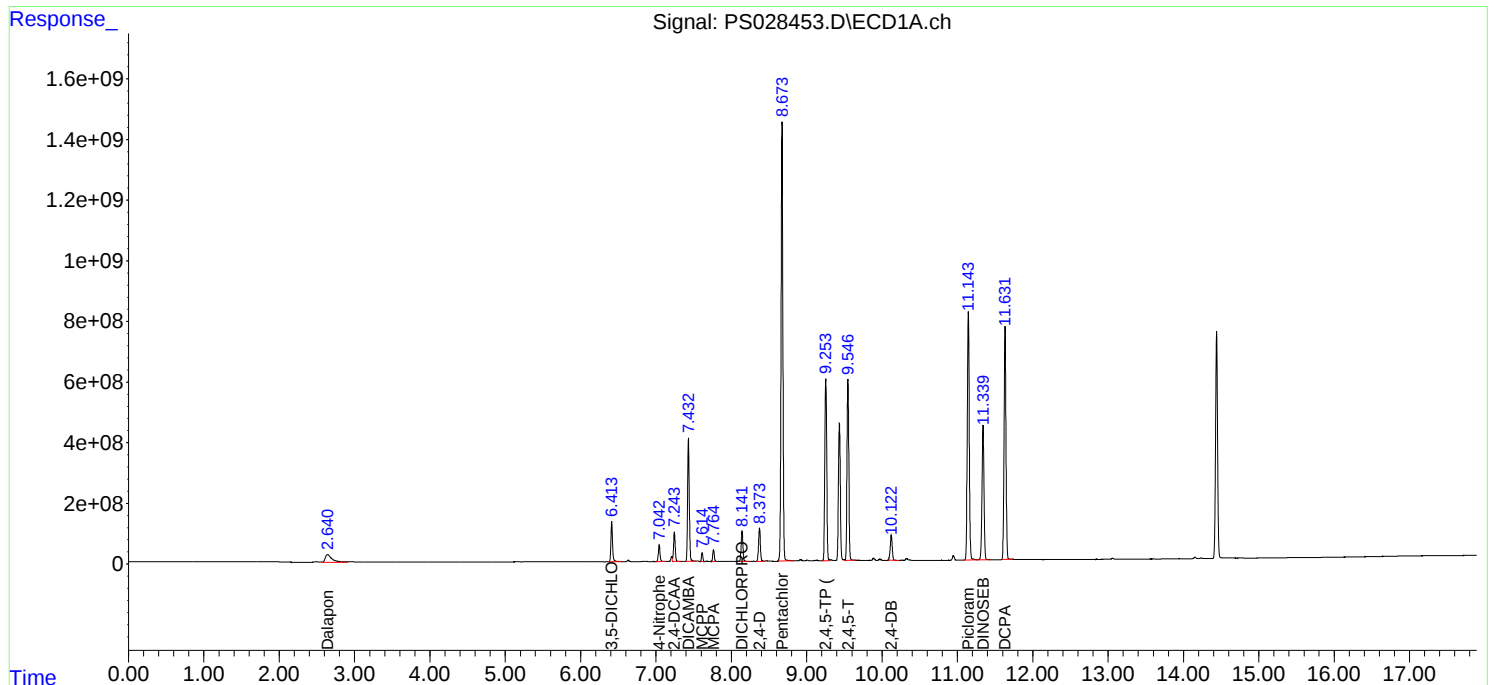
## APPROVED

Reviewed By :Abdul Mirza 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:49:19 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028457.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 16:03  
 Operator : AR\AJ  
 Sample : P4718-03MS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

WB-307-SB02MS

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:52:50 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

|                             | Compound     | RT#1   | RT#2   | Resp#1    | Resp#2   | ng/ml    | ng/ml    |
|-----------------------------|--------------|--------|--------|-----------|----------|----------|----------|
| -----                       |              |        |        |           |          |          |          |
| System Monitoring Compounds |              |        |        |           |          |          |          |
| 4) S                        | 2,4-DCAA     | 7.243  | 7.746  | 1003.4E6  | 448.7E6  | 363.454  | 281.603  |
| Target Compounds            |              |        |        |           |          |          |          |
| 1) T                        | Dalapon      | 2.648  | 2.708  | 1090.1E6  | 853.3E6  | 305.511  | 300.912m |
| 2) T                        | 3,5-DICHL... | 6.413  | 6.700  | 1633.6E6  | 896.5E6  | 408.261  | 378.435  |
| 5) T                        | DICAMBA      | 7.431  | 7.947  | 4729.6E6  | 2513.9E6 | 392.802  | 350.642  |
| 6) T                        | MCPPE        | 7.613  | 8.048  | 268.6E6   | 196.6E6  | 32.837   | 33.460   |
| 7) T                        | MCPA         | 7.763  | 8.292  | 443.1E6   | 311.0E6  | 39.517   | 38.841   |
| 8) T                        | DICHLORPROP  | 8.142  | 8.663  | 1323.2E6  | 654.4E6  | 426.886  | 367.387  |
| 9) T                        | 2,4-D        | 8.372  | 8.994  | 1674.4E6  | 796.6E6  | 476.468  | 411.947m |
| 10) T                       | Pentachlo... | 8.672  | 9.524  | 16151.6E6 | 7477.8E6 | 358.590  | 300.109  |
| 11) T                       | 2,4,5-TP ... | 9.253  | 9.904  | 8712.7E6  | 6026.7E6 | 460.286  | 568.973  |
| 12) T                       | 2,4,5-T      | 9.546  | 10.323 | 8500.8E6  | 4004.4E6 | 438.614  | 385.924  |
| 13) T                       | 2,4-DB       | 10.123 | 10.890 | 1026.4E6  | 423.2E6  | 332.078  | 319.341m |
| 14) T                       | DINOSEB      | 11.337 | 11.270 | 3981.6E6  | 1556.1E6 | 245.578m | 216.807  |
| 15) T                       | Picloram     | 11.143 | 12.367 | 11550.6E6 | 4685.2E6 | 367.784  | 325.532  |
| 16) T                       | DCPA         | 11.629 | 12.316 | 11377.0E6 | 4781.3E6 | 425.682  | 426.518  |
| -----                       |              |        |        |           |          |          |          |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028457.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 16:03  
Operator : AR\AJ  
Sample : P4718-03MS  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

WB-307-SB02MS

## Manual Integrations

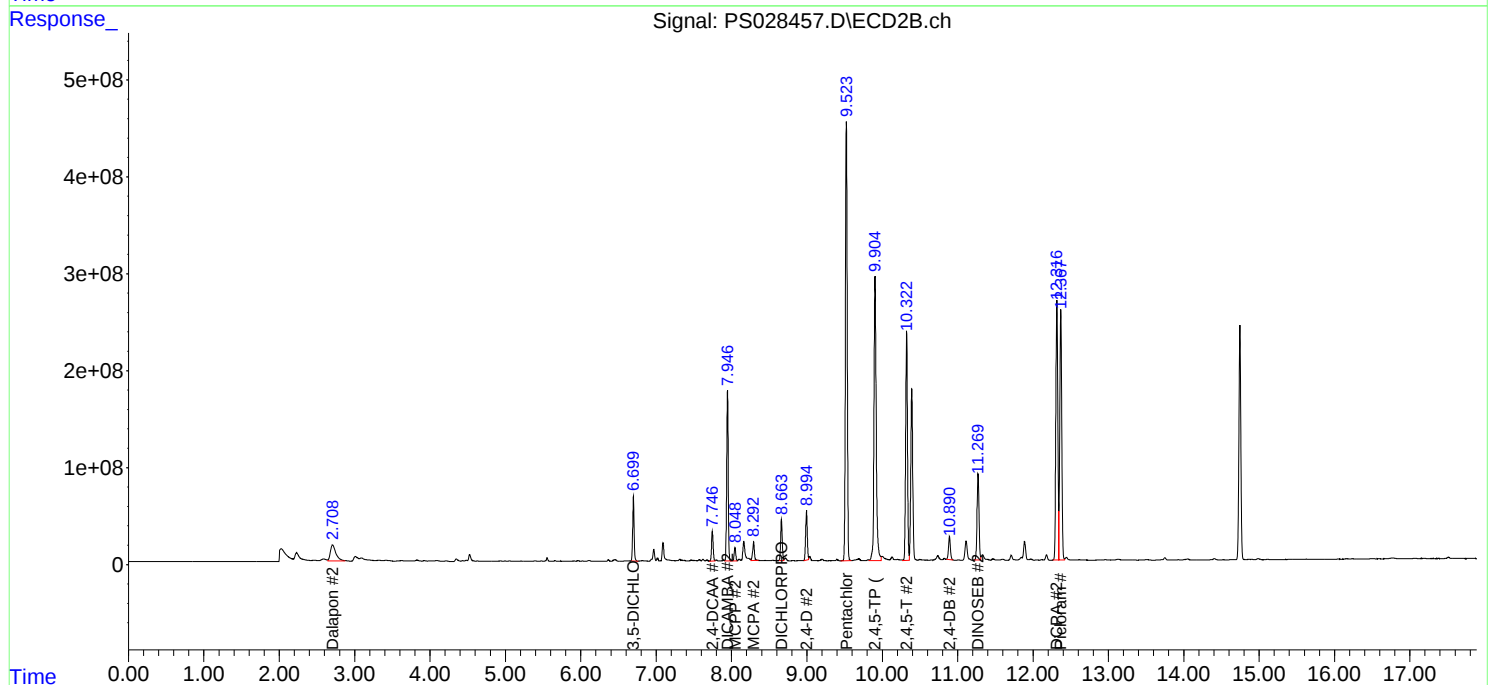
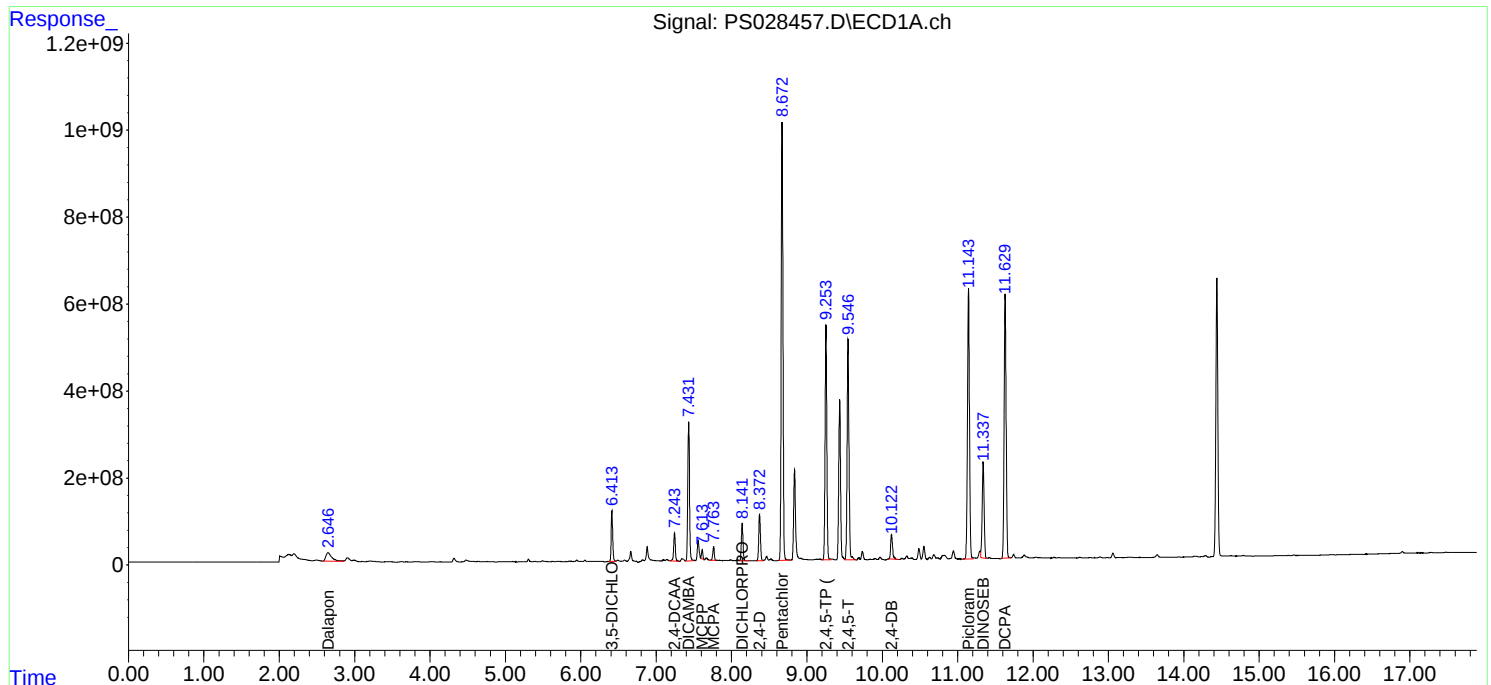
APPROVED

Reviewed By :Yogesh Patel 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:52:50 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
 Data File : PS028458.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 12 Nov 2024 16:27  
 Operator : AR\AJ  
 Sample : P4718-03MSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

**Instrument :**

ECD\_S

**ClientSampleId :**

WB-307-SB02MSD

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 12 23:53:43 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
 Quant Title : 8080.M  
 QLast Update : Fri Nov 08 17:46:43 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

|                             | Compound     | RT#1   | RT#2   | Resp#1    | Resp#2   | ng/ml   | ng/ml     |
|-----------------------------|--------------|--------|--------|-----------|----------|---------|-----------|
| -----                       |              |        |        |           |          |         |           |
| System Monitoring Compounds |              |        |        |           |          |         |           |
| 4) S                        | 2,4-DCAA     | 7.242  | 7.746  | 1010.9E6  | 449.7E6  | 366.165 | 282.219   |
| Target Compounds            |              |        |        |           |          |         |           |
| 1) T                        | Dalapon      | 2.645  | 2.707  | 1085.7E6  | 883.8E6  | 304.269 | 311.686m  |
| 2) T                        | 3,5-DICHL... | 6.413  | 6.699  | 1637.7E6  | 909.6E6  | 409.275 | 383.951m  |
| 5) T                        | DICAMBA      | 7.431  | 7.947  | 4745.0E6  | 2525.0E6 | 394.077 | 352.182   |
| 6) T                        | MCPPE        | 7.612  | 8.048  | 268.8E6   | 197.0E6  | 32.870  | 33.531    |
| 7) T                        | MCPA         | 7.762  | 8.292  | 447.0E6   | 315.8E6  | 39.871  | 39.434    |
| 8) T                        | DICHLORPROP  | 8.141  | 8.664  | 1329.8E6  | 658.3E6  | 429.020 | 369.584   |
| 9) T                        | 2,4-D        | 8.372  | 8.994  | 1679.5E6  | 824.8E6  | 477.904 | 426.508m  |
| 10) T                       | Pentachlo... | 8.671  | 9.524  | 16218.0E6 | 7515.5E6 | 360.063 | 301.622   |
| 11) T                       | 2,4,5-TP ... | 9.253  | 9.905  | 8739.5E6  | 6210.7E6 | 461.699 | 586.342 # |
| 12) T                       | 2,4,5-T      | 9.546  | 10.323 | 8504.4E6  | 4019.3E6 | 438.799 | 387.361   |
| 13) T                       | 2,4-DB       | 10.123 | 10.890 | 1029.9E6  | 419.1E6  | 333.195 | 316.242m  |
| 14) T                       | DINOSEB      | 11.337 | 11.269 | 4050.7E6  | 1558.4E6 | 249.839 | 217.126   |
| 15) T                       | Picloram     | 11.142 | 12.367 | 11606.3E6 | 4702.5E6 | 369.556 | 326.732   |
| 16) T                       | DCPA         | 11.629 | 12.315 | 11355.7E6 | 4797.6E6 | 424.885 | 427.974   |
| -----                       |              |        |        |           |          |         |           |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Data\PS111224\  
Data File : PS028458.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 12 Nov 2024 16:27  
Operator : AR\AJ  
Sample : P4718-03MSD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

## Instrument :

ECD\_S

## ClientSampleId :

WB-307-SB02MSD

## Manual Integrations

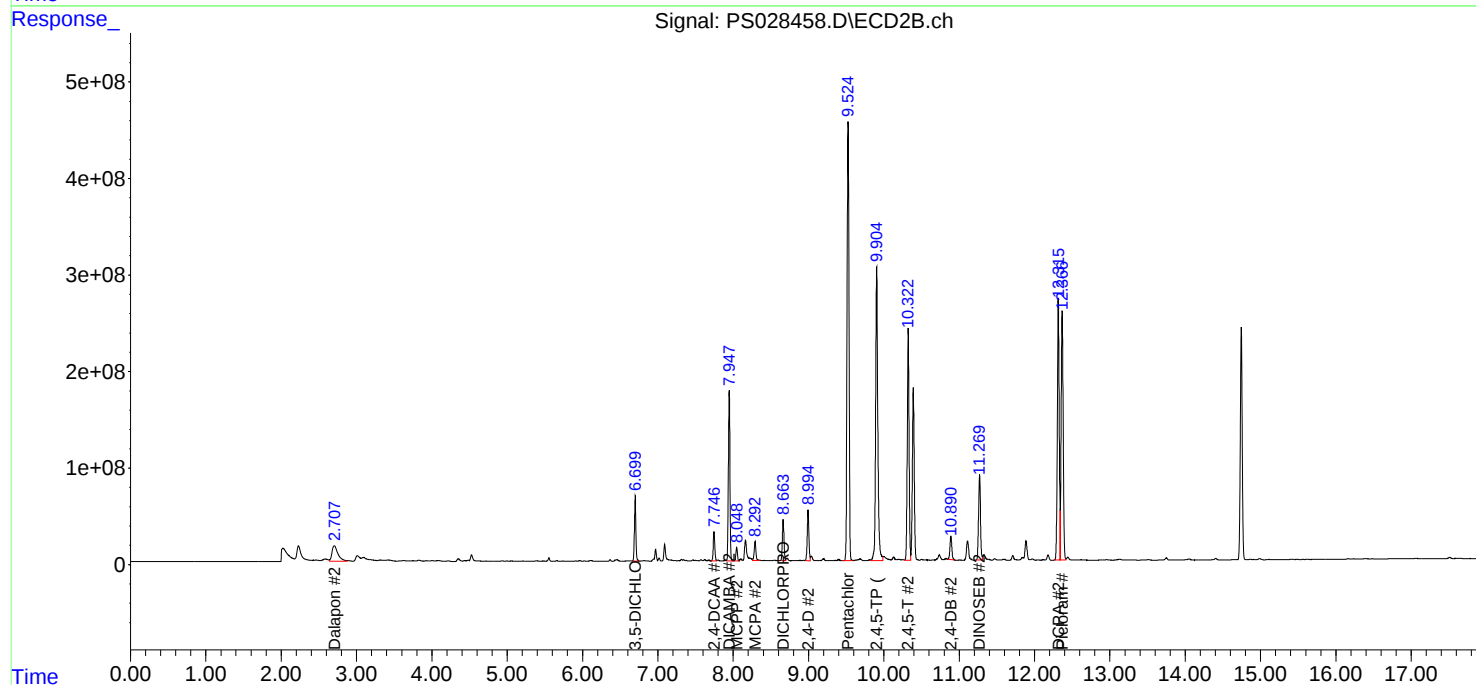
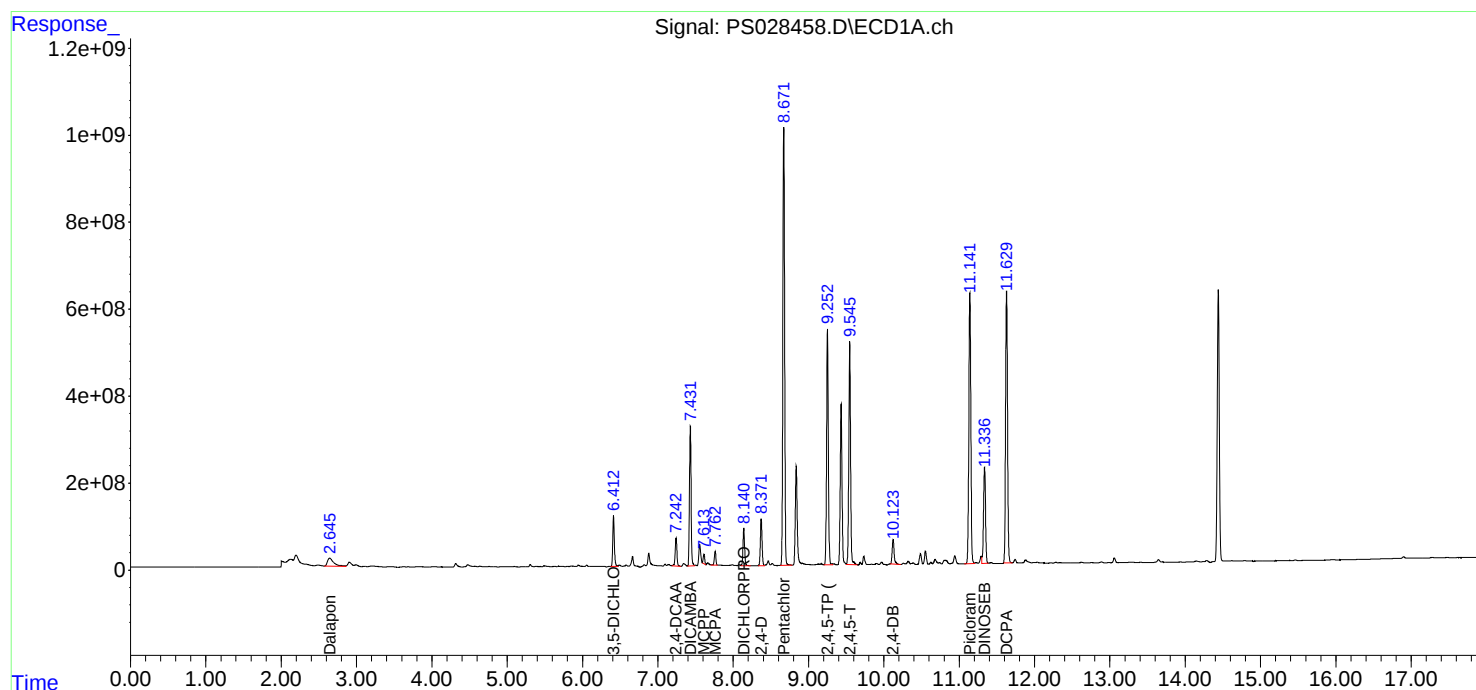
APPROVED

Reviewed By :Yogesh Patel 11/13/2024

Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 12 23:53:43 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_S\Method\PS110924.M  
Quant Title : 8080.M  
QLast Update : Fri Nov 08 17:46:43 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2  
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



## Manual Integration Report

Sequence:

PS110924

Instrument

ECD\_s

| Sample ID  | File ID    | Parameter | Review By | Review On                | Supervised By | Supervised On         | Reason                      |
|------------|------------|-----------|-----------|--------------------------|---------------|-----------------------|-----------------------------|
| HSTDICC500 | PS028357.D | 2,4-DCAA  | Abdul     | 11/11/2024<br>5:06:04 PM | Ankita        | 11/12/2024<br>8:58:43 | Peak Integrated by Software |
| I.BLK      | PS028362.D | 2,4-DCAA  | Abdul     | 11/11/2024<br>5:06:07 PM | Ankita        | 11/12/2024<br>8:58:45 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PS111224 | Instrument | ECD_s |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter                       | Review By | Review On                | Supervised By | Supervised On          | Reason                      |
|-------------|------------|---------------------------------|-----------|--------------------------|---------------|------------------------|-----------------------------|
| I.BLK       | PS028450.D | 2,4-DCAA                        | Abdul     | 11/13/2024<br>9:36:22 AM | Ankita        | 11/13/2024<br>10:38:17 | Peak Integrated by Software |
| HSTDCCC750  | PS028451.D | 2,4-D #2                        | Abdul     | 11/13/2024<br>9:36:28 AM | Ankita        | 11/13/2024<br>10:38:19 | Peak Integrated by Software |
| HSTDCCC750  | PS028451.D | 2,4-DCAA                        | Abdul     | 11/13/2024<br>9:36:28 AM | Ankita        | 11/13/2024<br>10:38:19 | Peak Integrated by Software |
| PB164850BS  | PS028453.D | 2,4-D #2                        | Abdul     | 11/13/2024<br>9:33:59 AM | Ankita        | 11/13/2024<br>10:38:21 | Peak Integrated by Software |
| P4718-03MS  | PS028457.D | 2,4-D #2                        | yogesh    | 11/13/2024<br>2:53:12 PM | Ankita        | 11/13/2024<br>2:53:22  | Peak Integrated by Software |
| P4718-03MS  | PS028457.D | 2,4-DB #2                       | yogesh    | 11/13/2024<br>2:53:12 PM | Ankita        | 11/13/2024<br>2:53:22  | Peak Integrated by Software |
| P4718-03MS  | PS028457.D | Dalapon #2                      | yogesh    | 11/13/2024<br>2:53:12 PM | Ankita        | 11/13/2024<br>2:53:22  | Peak Integrated by Software |
| P4718-03MS  | PS028457.D | DINOSEB                         | yogesh    | 11/13/2024<br>2:53:12 PM | Ankita        | 11/13/2024<br>2:53:22  | Peak Integrated by Software |
| P4718-03MSD | PS028458.D | 2,4-D #2                        | yogesh    | 11/13/2024<br>2:53:14 PM | Ankita        | 11/13/2024<br>2:53:24  | Peak Integrated by Software |
| P4718-03MSD | PS028458.D | 2,4-DB #2                       | yogesh    | 11/13/2024<br>2:53:14 PM | Ankita        | 11/13/2024<br>2:53:24  | Peak Integrated by Software |
| P4718-03MSD | PS028458.D | 3,5-DICHLOROBENZOI<br>C ACID #2 | yogesh    | 11/13/2024<br>2:53:14 PM | Ankita        | 11/13/2024<br>2:53:24  | Peak Integrated by Software |
| P4718-03MSD | PS028458.D | Dalapon #2                      | yogesh    | 11/13/2024<br>2:53:14 PM | Ankita        | 11/13/2024<br>2:53:24  | Peak Integrated by Software |
| HSTDCCC750  | PS028463.D | 2,4-D #2                        | Abdul     | 11/13/2024<br>9:34:26 AM | Ankita        | 11/13/2024<br>10:38:28 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PS111224 | Instrument | ECD_s |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter                       | Review By | Review On                | Supervised By | Supervised On          | Reason                      |
|------------|------------|---------------------------------|-----------|--------------------------|---------------|------------------------|-----------------------------|
| I.BLK      | PS028472.D | 2,4-DCAA                        | Abdul     | 11/13/2024<br>9:34:40 AM | Ankita        | 11/13/2024<br>10:38:33 | Peak Integrated by Software |
| HSTDCCC750 | PS028473.D | 2,4-D #2                        | Abdul     | 11/13/2024<br>9:34:45 AM | Ankita        | 11/13/2024<br>10:38:35 | Peak Integrated by Software |
| HSTDCCC750 | PS028473.D | 4-Nitrophenol #2                | Abdul     | 11/13/2024<br>9:34:45 AM | Ankita        | 11/13/2024<br>10:38:35 | Peak Integrated by Software |
| HSTDCCC750 | PS028483.D | 2,4-D #2                        | Abdul     | 11/13/2024<br>9:35:13 AM | Ankita        | 11/13/2024<br>10:38:47 | Peak Integrated by Software |
| HSTDCCC750 | PS028483.D | 2,4-DB #2                       | Abdul     | 11/13/2024<br>9:35:13 AM | Ankita        | 11/13/2024<br>10:38:47 | Peak Integrated by Software |
| HSTDCCC750 | PS028483.D | 3,5-DICHLOROBENZOI<br>C ACID #2 | Abdul     | 11/13/2024<br>9:35:13 AM | Ankita        | 11/13/2024<br>10:38:47 | Peak Integrated by Software |
| HSTDCCC750 | PS028483.D | DICHLORPROP #2                  | Abdul     | 11/13/2024<br>9:35:13 AM | Ankita        | 11/13/2024<br>10:38:47 | Peak Integrated by Software |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS110924**

|                                         |                                                                        |                   |                                    |
|-----------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                               | Abdul                                                                  | Review On         | 11/11/2024 5:07:36 PM              |
| Supervise By                            | Ankita                                                                 | Supervise On      | 11/12/2024 8:59:40 AM              |
| SubDirectory                            | PS110924                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| <b>STD. NAME</b>                        | <b>STD REF.#</b>                                                       |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC                                     | PP23462                                                                |                   |                                    |
| Internal Standard/PEM                   |                                                                        |                   |                                    |
| ICV/I.BLK                               | PP23469                                                                |                   |                                    |
| Surrogate Standard                      |                                                                        |                   |                                    |
| MS/MSD Standard                         |                                                                        |                   |                                    |
| LCS Standard                            |                                                                        |                   |                                    |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | HEXANE      | PS028354.D     | 08 Nov 2024 14:00 | AR\AJ    | Ok     |
| 2   | I.BLK       | PS028355.D     | 08 Nov 2024 14:25 | AR\AJ    | Ok     |
| 3   | HSTDICC200  | PS028356.D     | 08 Nov 2024 15:13 | AR\AJ    | Ok     |
| 4   | HSTDICC500  | PS028357.D     | 08 Nov 2024 15:46 | AR\AJ    | Ok,M   |
| 5   | HSTDICC750  | PS028358.D     | 08 Nov 2024 16:10 | AR\AJ    | Ok     |
| 6   | HSTDICC1000 | PS028359.D     | 08 Nov 2024 16:34 | AR\AJ    | Ok     |
| 7   | HSTDICC1500 | PS028360.D     | 08 Nov 2024 16:58 | AR\AJ    | Ok     |
| 8   | HSTDICV750  | PS028361.D     | 08 Nov 2024 17:22 | AR\AJ    | Ok     |
| 9   | I.BLK       | PS028362.D     | 08 Nov 2024 17:46 | AR\AJ    | Ok,M   |
| 10  | HSTDCCC750  | PS028363.D     | 08 Nov 2024 18:10 | AR\AJ    | Ok     |
| 11  | P4700-01    | PS028364.D     | 08 Nov 2024 18:34 | AR\AJ    | Ok,M   |
| 12  | P4701-01    | PS028365.D     | 08 Nov 2024 18:58 | AR\AJ    | Ok,M   |
| 13  | P4701-05    | PS028366.D     | 08 Nov 2024 19:22 | AR\AJ    | Ok     |
| 14  | PB164754BL  | PS028367.D     | 08 Nov 2024 19:46 | AR\AJ    | Ok     |
| 15  | PB164754BS  | PS028368.D     | 08 Nov 2024 20:10 | AR\AJ    | Ok,M   |
| 16  | P4722-03    | PS028369.D     | 08 Nov 2024 20:34 | AR\AJ    | Not Ok |
| 17  | P4722-08    | PS028370.D     | 08 Nov 2024 20:58 | AR\AJ    | Ok,M   |
| 18  | P4722-13    | PS028371.D     | 08 Nov 2024 21:22 | AR\AJ    | Not Ok |
| 19  | P4739-01    | PS028372.D     | 08 Nov 2024 21:46 | AR\AJ    | Ok,M   |
| 20  | P4739-01MS  | PS028373.D     | 08 Nov 2024 22:10 | AR\AJ    | Ok,M   |
| 21  | P4739-01MSD | PS028374.D     | 08 Nov 2024 22:34 | AR\AJ    | Ok,M   |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS110924**

| Review By                               | Abdul                                                                  | Review On         | 11/11/2024 5:07:36 PM              |
|-----------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By                            | Ankita                                                                 | Supervise On      | 11/12/2024 8:59:40 AM              |
| SubDirectory                            | PS110924                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| STD. NAME                               | STD REF.#                                                              |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC                                     | PP23462                                                                |                   |                                    |
| Internal Standard/PEM                   |                                                                        |                   |                                    |
| ICV/I.BLK                               | PP23469                                                                |                   |                                    |
| Surrogate Standard                      |                                                                        |                   |                                    |
| MS/MSD Standard                         |                                                                        |                   |                                    |
| LCS Standard                            |                                                                        |                   |                                    |

|    |             |            |                   |       |        |
|----|-------------|------------|-------------------|-------|--------|
| 22 | P4739-05    | PS028375.D | 08 Nov 2024 22:58 | AR\AJ | Ok     |
| 23 | P4739-09    | PS028376.D | 08 Nov 2024 23:22 | AR\AJ | Ok,M   |
| 24 | P4739-13    | PS028377.D | 08 Nov 2024 23:46 | AR\AJ | Ok,M   |
| 25 | I.BLK       | PS028378.D | 09 Nov 2024 00:10 | AR\AJ | Ok     |
| 26 | HSTDCCC750  | PS028379.D | 09 Nov 2024 00:34 | AR\AJ | Ok     |
| 27 | P4601-24RE  | PS028380.D | 09 Nov 2024 00:58 | AR\AJ | Not Ok |
| 28 | P4601-25RE  | PS028381.D | 09 Nov 2024 01:22 | AR\AJ | Not Ok |
| 29 | P4601-26RE  | PS028382.D | 09 Nov 2024 01:46 | AR\AJ | Not Ok |
| 30 | P4602-43    | PS028383.D | 09 Nov 2024 02:10 | AR\AJ | Not Ok |
| 31 | P4602-44MS  | PS028384.D | 09 Nov 2024 02:34 | AR\AJ | Not Ok |
| 32 | P4602-45MSD | PS028385.D | 09 Nov 2024 02:58 | AR\AJ | Not Ok |
| 33 | P4602-40    | PS028386.D | 09 Nov 2024 03:22 | AR\AJ | Not Ok |
| 34 | P4602-41MS  | PS028387.D | 09 Nov 2024 03:46 | AR\AJ | Not Ok |
| 35 | P4602-42MSD | PS028388.D | 09 Nov 2024 04:10 | AR\AJ | Not Ok |
| 36 | PB164393TB  | PS028389.D | 09 Nov 2024 04:34 | AR\AJ | Not Ok |
| 37 | I.BLK       | PS028390.D | 09 Nov 2024 04:58 | AR\AJ | Not Ok |
| 38 | HSTDCCC750  | PS028391.D | 09 Nov 2024 05:22 | AR\AJ | Not Ok |

M : Manual Integration

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS111224**

|                                                                    |                                                                        |                   |                                    |
|--------------------------------------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                                                          | Abdul                                                                  | Review On         | 11/13/2024 9:35:41 AM              |
| Supervise By                                                       | Ankita                                                                 | Supervise On      | 11/13/2024 10:39:11 AM             |
| SubDirectory                                                       | PS111224                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                                                       |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                            | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC<br>Internal Standard/PEM                                       | PP23462                                                                |                   |                                    |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23469                                                                |                   |                                    |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | HEXANE      | PS028449.D     | 12 Nov 2024 12:36 | AR\AJ    | Ok     |
| 2   | I.BLK       | PS028450.D     | 12 Nov 2024 13:00 | AR\AJ    | Ok,M   |
| 3   | HSTDCCC750  | PS028451.D     | 12 Nov 2024 13:25 | AR\AJ    | Ok,M   |
| 4   | PB164850BL  | PS028452.D     | 12 Nov 2024 13:53 | AR\AJ    | Ok     |
| 5   | PB164850BS  | PS028453.D     | 12 Nov 2024 14:17 | AR\AJ    | Ok,M   |
| 6   | PB164694TB  | PS028454.D     | 12 Nov 2024 14:49 | AR\AJ    | Ok     |
| 7   | PB164793TB  | PS028455.D     | 12 Nov 2024 15:14 | AR\AJ    | Ok     |
| 8   | P4718-03    | PS028456.D     | 12 Nov 2024 15:38 | AR\AJ    | Ok     |
| 9   | P4718-03MS  | PS028457.D     | 12 Nov 2024 16:03 | AR\AJ    | Ok,M   |
| 10  | P4718-03MSD | PS028458.D     | 12 Nov 2024 16:27 | AR\AJ    | Ok,M   |
| 11  | P4722-04    | PS028459.D     | 12 Nov 2024 16:51 | AR\AJ    | Ok,M   |
| 12  | P4722-09    | PS028460.D     | 12 Nov 2024 17:16 | AR\AJ    | Ok     |
| 13  | P4722-14    | PS028461.D     | 12 Nov 2024 17:41 | AR\AJ    | Ok,M   |
| 14  | I.BLK       | PS028462.D     | 12 Nov 2024 18:04 | AR\AJ    | Ok     |
| 15  | HSTDCCC750  | PS028463.D     | 12 Nov 2024 18:29 | AR\AJ    | Ok,M   |
| 16  | P4732-02    | PS028464.D     | 12 Nov 2024 19:18 | AR\AJ    | Ok     |
| 17  | P4771-06    | PS028465.D     | 12 Nov 2024 19:43 | AR\AJ    | Ok     |
| 18  | P4771-08    | PS028466.D     | 12 Nov 2024 20:08 | AR\AJ    | Ok,M   |
| 19  | PB164908BL  | PS028467.D     | 12 Nov 2024 20:32 | AR\AJ    | Ok     |
| 20  | PB164908BS  | PS028468.D     | 12 Nov 2024 20:56 | AR\AJ    | Ok,M   |
| 21  | PB164904TB  | PS028469.D     | 12 Nov 2024 21:21 | AR\AJ    | Ok     |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QCBatch ID # PS111224**

| Review By                               | Abdul                                                                  | Review On         | 11/13/2024 9:35:41 AM              |
|-----------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By                            | Ankita                                                                 | Supervise On      | 11/13/2024 10:39:11 AM             |
| SubDirectory                            | PS111224                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| STD. NAME                               | STD REF.#                                                              |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC                                     | PP23462                                                                |                   |                                    |
| Internal Standard/PEM                   |                                                                        |                   |                                    |
| ICV/I.BLK                               | PP23469                                                                |                   |                                    |
| Surrogate Standard                      |                                                                        |                   |                                    |
| MS/MSD Standard                         |                                                                        |                   |                                    |
| LCS Standard                            |                                                                        |                   |                                    |

|    |             |            |                   |       |      |
|----|-------------|------------|-------------------|-------|------|
| 22 | P4722-05    | PS028470.D | 12 Nov 2024 21:45 | AR\AJ | Ok   |
| 23 | P4722-10    | PS028471.D | 12 Nov 2024 22:09 | AR\AJ | Ok   |
| 24 | I.BLK       | PS028472.D | 12 Nov 2024 22:34 | AR\AJ | Ok,M |
| 25 | HSTDCCC750  | PS028473.D | 12 Nov 2024 22:57 | AR\AJ | Ok,M |
| 26 | P4722-15    | PS028474.D | 12 Nov 2024 23:46 | AR\AJ | Ok   |
| 27 | P4722-10MS  | PS028475.D | 13 Nov 2024 00:10 | AR\AJ | Ok,M |
| 28 | P4722-10MSD | PS028476.D | 13 Nov 2024 00:34 | AR\AJ | Ok,M |
| 29 | PB164910BL  | PS028477.D | 13 Nov 2024 00:59 | AR\AJ | Ok   |
| 30 | PB164910BS  | PS028478.D | 13 Nov 2024 01:23 | AR\AJ | Ok,M |
| 31 | PB164910BSD | PS028479.D | 13 Nov 2024 01:48 | AR\AJ | Ok,M |
| 32 | P4791-02    | PS028480.D | 13 Nov 2024 02:12 | AR\AJ | Ok   |
| 33 | P4792-04    | PS028481.D | 13 Nov 2024 02:36 | AR\AJ | Ok,M |
| 34 | I.BLK       | PS028482.D | 13 Nov 2024 03:01 | AR\AJ | Ok   |
| 35 | HSTDCCC750  | PS028483.D | 13 Nov 2024 04:14 | AR\AJ | Ok,M |

M : Manual Integration

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS110924**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 11/11/2024 5:07:36 PM              |
| Supervise By | Ankita   | Supervise On      | 11/12/2024 8:59:40 AM              |
| SubDirectory | PS110924 | HP Acquire Method | HP Processing Method ps110924 8151 |

| STD. NAME                               | STD REF.#                                                              |
|-----------------------------------------|------------------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |
| CCC                                     | PP23462                                                                |
| Internal Standard/PEM                   |                                                                        |
| ICV/I.BLK                               | PP23469                                                                |
| Surrogate Standard                      |                                                                        |
| MS/MSD Standard                         |                                                                        |
| LCS Standard                            |                                                                        |

| Sr# | SampleId    | ClientID    | Data File Name | Date-Time         | Comment                     | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|-----------------------------|----------|--------|
| 1   | HEXANE      | HEXANE      | PS028354.D     | 08 Nov 2024 14:00 |                             | AR\AJ    | Ok     |
| 2   | I.BLK       | I.BLK       | PS028355.D     | 08 Nov 2024 14:25 |                             | AR\AJ    | Ok     |
| 3   | HSTDICC200  | HSTDICC200  | PS028356.D     | 08 Nov 2024 15:13 |                             | AR\AJ    | Ok     |
| 4   | HSTDICC500  | HSTDICC500  | PS028357.D     | 08 Nov 2024 15:46 |                             | AR\AJ    | Ok,M   |
| 5   | HSTDICC750  | HSTDICC750  | PS028358.D     | 08 Nov 2024 16:10 |                             | AR\AJ    | Ok     |
| 6   | HSTDICC1000 | HSTDICC1000 | PS028359.D     | 08 Nov 2024 16:34 |                             | AR\AJ    | Ok     |
| 7   | HSTDICC1500 | HSTDICC1500 | PS028360.D     | 08 Nov 2024 16:58 |                             | AR\AJ    | Ok     |
| 8   | HSTDICV750  | ICVPS110924 | PS028361.D     | 08 Nov 2024 17:22 |                             | AR\AJ    | Ok     |
| 9   | I.BLK       | I.BLK       | PS028362.D     | 08 Nov 2024 17:46 |                             | AR\AJ    | Ok,M   |
| 10  | HSTDCCC750  | HSTDCCC750  | PS028363.D     | 08 Nov 2024 18:10 |                             | AR\AJ    | Ok     |
| 11  | P4700-01    | MH-8        | PS028364.D     | 08 Nov 2024 18:34 |                             | AR\AJ    | Ok,M   |
| 12  | P4701-01    | BP-F3       | PS028365.D     | 08 Nov 2024 18:58 |                             | AR\AJ    | Ok,M   |
| 13  | P4701-05    | BP-F4       | PS028366.D     | 08 Nov 2024 19:22 |                             | AR\AJ    | Ok     |
| 14  | PB164754BL  | PB164754BL  | PS028367.D     | 08 Nov 2024 19:46 |                             | AR\AJ    | Ok     |
| 15  | PB164754BS  | PB164754BS  | PS028368.D     | 08 Nov 2024 20:10 |                             | AR\AJ    | Ok,M   |
| 16  | P4722-03    | WC-1(0-6)   | PS028369.D     | 08 Nov 2024 20:34 | 2,4-DCAA low in both column | AR\AJ    | Not Ok |
| 17  | P4722-08    | WC-2(0-6)   | PS028370.D     | 08 Nov 2024 20:58 |                             | AR\AJ    | Ok,M   |
| 18  | P4722-13    | WC-3(0-6)   | PS028371.D     | 08 Nov 2024 21:22 | 2,4-DCAA Low in both column | AR\AJ    | Not Ok |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS110924**

| Review By                               | Abdul                                                                  | Review On         | 11/11/2024 5:07:36 PM              |
|-----------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By                            | Ankita                                                                 | Supervise On      | 11/12/2024 8:59:40 AM              |
| SubDirectory                            | PS110924                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| STD. NAME                               | STD REF.#                                                              |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC                                     | PP23462                                                                |                   |                                    |
| Internal Standard/PEM                   |                                                                        |                   |                                    |
| ICV/I.BLK                               | PP23469                                                                |                   |                                    |
| Surrogate Standard                      |                                                                        |                   |                                    |
| MS/MSD Standard                         |                                                                        |                   |                                    |
| LCS Standard                            |                                                                        |                   |                                    |

|    |             |            |            |                   |                                                            |       |        |
|----|-------------|------------|------------|-------------------|------------------------------------------------------------|-------|--------|
| 19 | P4739-01    | TP-14      | PS028372.D | 08 Nov 2024 21:46 |                                                            | AR\AJ | Ok,M   |
| 20 | P4739-01MS  | TP-14MS    | PS028373.D | 08 Nov 2024 22:10 | Some compound recovery fail                                | AR\AJ | Ok,M   |
| 21 | P4739-01MSD | TP-14MSD   | PS028374.D | 08 Nov 2024 22:34 | Some compound recovery fail                                | AR\AJ | Ok,M   |
| 22 | P4739-05    | BP-G2      | PS028375.D | 08 Nov 2024 22:58 |                                                            | AR\AJ | Ok     |
| 23 | P4739-09    | BP-B2      | PS028376.D | 08 Nov 2024 23:22 |                                                            | AR\AJ | Ok,M   |
| 24 | P4739-13    | TP-11      | PS028377.D | 08 Nov 2024 23:46 |                                                            | AR\AJ | Ok,M   |
| 25 | I.BLK       | I.BLK      | PS028378.D | 09 Nov 2024 00:10 |                                                            | AR\AJ | Ok     |
| 26 | HSTDCCC750  | HSTDCCC750 | PS028379.D | 09 Nov 2024 00:34 |                                                            | AR\AJ | Ok     |
| 27 | P4601-24RE  | CC0P1RE    | PS028380.D | 09 Nov 2024 00:58 | Closing CCC fail,                                          | AR\AJ | Not Ok |
| 28 | P4601-25RE  | CC0P3RE    | PS028381.D | 09 Nov 2024 01:22 | Closing CCC fail,                                          | AR\AJ | Not Ok |
| 29 | P4601-26RE  | CC0P5RE    | PS028382.D | 09 Nov 2024 01:46 | Closing CCC fail,                                          | AR\AJ | Not Ok |
| 30 | P4602-43    | CC0R8      | PS028383.D | 09 Nov 2024 02:10 | , Closing CCC fail                                         | AR\AJ | Not Ok |
| 31 | P4602-44MS  | CC0R8MS    | PS028384.D | 09 Nov 2024 02:34 | Some compound recovery fail,<br>Closing CCC fail           | AR\AJ | Not Ok |
| 32 | P4602-45MSD | CC0R8MSD   | PS028385.D | 09 Nov 2024 02:58 | Some compound recovery fail,<br>Closing CCC fail           | AR\AJ | Not Ok |
| 33 | P4602-40    | CC0R6      | PS028386.D | 09 Nov 2024 03:22 | Closing CCC fail                                           | AR\AJ | Not Ok |
| 34 | P4602-41MS  | CC0R6MS    | PS028387.D | 09 Nov 2024 03:46 | Some compound recovery fail,<br>Closing CCC fail           | AR\AJ | Not Ok |
| 35 | P4602-42MSD | CC0R6MSD   | PS028388.D | 09 Nov 2024 04:10 | Some compound recovery fail,<br>RPD fail, Closing CCC fail | AR\AJ | Not Ok |
| 36 | PB164393TB  | PB164393TB | PS028389.D | 09 Nov 2024 04:34 | Closing CCC fail                                           | AR\AJ | Not Ok |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS110924**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 11/11/2024 5:07:36 PM              |
| Supervise By | Ankita   | Supervise On      | 11/12/2024 8:59:40 AM              |
| SubDirectory | PS110924 | HP Acquire Method | HP Processing Method ps110924 8151 |

| STD. NAME                                                          | STD REF.#                                                              |
|--------------------------------------------------------------------|------------------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                            | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |
| CCC<br>Internal Standard/PEM                                       | PP23462                                                                |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23469                                                                |

|    |            |            |            |                   |                  |       |        |
|----|------------|------------|------------|-------------------|------------------|-------|--------|
| 37 | I.BLK      | I.BLK      | PS028390.D | 09 Nov 2024 04:58 | Closing CCC fail | AR\AJ | Not Ok |
| 38 | HSTDCCC750 | HSTDCCC750 | PS028391.D | 09 Nov 2024 05:22 | CCC fail         | AR\AJ | Not Ok |

M : Manual Integration

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS111224**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 11/13/2024 9:35:41 AM              |
| Supervise By | Ankita   | Supervise On      | 11/13/2024 10:39:11 AM             |
| SubDirectory | PS111224 | HP Acquire Method | HP Processing Method ps110924 8151 |

| STD. NAME                               | STD REF.#                                                              |
|-----------------------------------------|------------------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |
| CCC                                     | PP23462                                                                |
| Internal Standard/PEM                   |                                                                        |
| ICV/I.BLK                               | PP23469                                                                |
| Surrogate Standard                      |                                                                        |
| MS/MSD Standard                         |                                                                        |
| LCS Standard                            |                                                                        |

| Sr# | SampleId    | ClientID       | Data File Name | Date-Time         | Comment                     | Operator | Status |
|-----|-------------|----------------|----------------|-------------------|-----------------------------|----------|--------|
| 1   | HEXANE      | HEXANE         | PS028449.D     | 12 Nov 2024 12:36 |                             | AR\AJ    | Ok     |
| 2   | I.BLK       | I.BLK          | PS028450.D     | 12 Nov 2024 13:00 |                             | AR\AJ    | Ok,M   |
| 3   | HSTDCCC750  | HSTDCCC750     | PS028451.D     | 12 Nov 2024 13:25 |                             | AR\AJ    | Ok,M   |
| 4   | PB164850BL  | PB164850BL     | PS028452.D     | 12 Nov 2024 13:53 |                             | AR\AJ    | Ok     |
| 5   | PB164850BS  | PB164850BS     | PS028453.D     | 12 Nov 2024 14:17 |                             | AR\AJ    | Ok,M   |
| 6   | PB164694TB  | PB164694TB     | PS028454.D     | 12 Nov 2024 14:49 |                             | AR\AJ    | Ok     |
| 7   | PB164793TB  | PB164793TB     | PS028455.D     | 12 Nov 2024 15:14 |                             | AR\AJ    | Ok     |
| 8   | P4718-03    | WB-307-SB02    | PS028456.D     | 12 Nov 2024 15:38 |                             | AR\AJ    | Ok     |
| 9   | P4718-03MS  | WB-307-SB02MS  | PS028457.D     | 12 Nov 2024 16:03 | Some compound recovery fail | AR\AJ    | Ok,M   |
| 10  | P4718-03MSD | WB-307-SB02MSD | PS028458.D     | 12 Nov 2024 16:27 | Some compound recovery fail | AR\AJ    | Ok,M   |
| 11  | P4722-04    | WC-1(0-6)      | PS028459.D     | 12 Nov 2024 16:51 |                             | AR\AJ    | Ok,M   |
| 12  | P4722-09    | WC-2(0-6)      | PS028460.D     | 12 Nov 2024 17:16 |                             | AR\AJ    | Ok     |
| 13  | P4722-14    | WC-3(0-6)      | PS028461.D     | 12 Nov 2024 17:41 |                             | AR\AJ    | Ok,M   |
| 14  | I.BLK       | I.BLK          | PS028462.D     | 12 Nov 2024 18:04 |                             | AR\AJ    | Ok     |
| 15  | HSTDCCC750  | HSTDCCC750     | PS028463.D     | 12 Nov 2024 18:29 |                             | AR\AJ    | Ok,M   |
| 16  | P4732-02    | PPE-COMP       | PS028464.D     | 12 Nov 2024 19:18 |                             | AR\AJ    | Ok     |
| 17  | P4771-06    | P-1            | PS028465.D     | 12 Nov 2024 19:43 |                             | AR\AJ    | Ok     |
| 18  | P4771-08    | P-2            | PS028466.D     | 12 Nov 2024 20:08 |                             | AR\AJ    | Ok,M   |

Instrument ID: ECD\_S

**Daily Analysis Runlog For Sequence/QC Batch ID # PS111224**

|                                                                    |                                                                        |                   |                                    |
|--------------------------------------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                                                          | Abdul                                                                  | Review On         | 11/13/2024 9:35:41 AM              |
| Supervise By                                                       | Ankita                                                                 | Supervise On      | 11/13/2024 10:39:11 AM             |
| SubDirectory                                                       | PS111224                                                               | HP Acquire Method | HP Processing Method ps110924 8151 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                                                       |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                            | P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469 |                   |                                    |
| CCC<br>Internal Standard/PEM                                       | PP23462                                                                |                   |                                    |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP23469                                                                |                   |                                    |

|    |             |                   |            |                   |  |       |      |
|----|-------------|-------------------|------------|-------------------|--|-------|------|
| 19 | PB164908BL  | PB164908BL        | PS028467.D | 12 Nov 2024 20:32 |  | AR\AJ | Ok   |
| 20 | PB164908BS  | PB164908BS        | PS028468.D | 12 Nov 2024 20:56 |  | AR\AJ | Ok,M |
| 21 | PB164904TB  | PB164904TB        | PS028469.D | 12 Nov 2024 21:21 |  | AR\AJ | Ok   |
| 22 | P4722-05    | WC-1(0-6)         | PS028470.D | 12 Nov 2024 21:45 |  | AR\AJ | Ok   |
| 23 | P4722-10    | WC-2(0-6)         | PS028471.D | 12 Nov 2024 22:09 |  | AR\AJ | Ok   |
| 24 | I.BLK       | I.BLK             | PS028472.D | 12 Nov 2024 22:34 |  | AR\AJ | Ok,M |
| 25 | HSTDCCC750  | HSTDCCC750        | PS028473.D | 12 Nov 2024 22:57 |  | AR\AJ | Ok,M |
| 26 | P4722-15    | WC-3(0-6)         | PS028474.D | 12 Nov 2024 23:46 |  | AR\AJ | Ok   |
| 27 | P4722-10MS  | WC-2(0-6)MS       | PS028475.D | 13 Nov 2024 00:10 |  | AR\AJ | Ok,M |
| 28 | P4722-10MSD | WC-2(0-6)MSD      | PS028476.D | 13 Nov 2024 00:34 |  | AR\AJ | Ok,M |
| 29 | PB164910BL  | PB164910BL        | PS028477.D | 13 Nov 2024 00:59 |  | AR\AJ | Ok   |
| 30 | PB164910BS  | PB164910BS        | PS028478.D | 13 Nov 2024 01:23 |  | AR\AJ | Ok,M |
| 31 | PB164910BSD | PB164910BSD       | PS028479.D | 13 Nov 2024 01:48 |  | AR\AJ | Ok,M |
| 32 | P4791-02    | HINCHMAN-OILY-WAT | PS028480.D | 13 Nov 2024 02:12 |  | AR\AJ | Ok   |
| 33 | P4792-04    | MANHOLE-WASTE-DR  | PS028481.D | 13 Nov 2024 02:36 |  | AR\AJ | Ok,M |
| 34 | I.BLK       | I.BLK             | PS028482.D | 13 Nov 2024 03:01 |  | AR\AJ | Ok   |
| 35 | HSTDCCC750  | HSTDCCC750        | PS028483.D | 13 Nov 2024 04:14 |  | AR\AJ | Ok,M |

M : Manual Integration

|                         |               |                                    |                    |               |       |
|-------------------------|---------------|------------------------------------|--------------------|---------------|-------|
| <b>SOP ID :</b>         | M1311-TCLP-15 | <b>Start Prep Date :</b>           | 11/06/2024         | <b>Time :</b> | 16:45 |
| <b>SDG No :</b>         | N/A           | <b>End Prep Date :</b>             | 11/07/2024         | <b>Time :</b> | 09:35 |
| <b>Welgh By :</b>       | JP            | <b>Combination Ratio :</b>         | 20                 |               |       |
| <b>Balance ID :</b>     | WC SC-4       | <b>ZHE Cleaning Batch :</b>        | N/A                |               |       |
| <b>pH Meter ID :</b>    | WC PH METER-1 | <b>Initial Room Temperature:</b>   | 24 °C              |               |       |
| <b>Extraction By :</b>  | JP            | <b>Final Room Temperature:</b>     | 23 °C              |               |       |
| <b>Filter By :</b>      | JP            | <b>TCLP Technician Signature :</b> | <i>[Signature]</i> |               |       |
| <b>Pippete ID :</b>     | WC            | <b>Supervisor By :</b>             | <i>[Signature]</i> |               |       |
| <b>Tumbler ID :</b>     | T-1 / T-2     |                                    |                    |               |       |
| <b>TCLP Filter ID :</b> | 114771        |                                    |                    |               |       |

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |

| Chemical Used        | ML/SAMPLE U | Lot Number                          |
|----------------------|-------------|-------------------------------------|
| TCLP-FLUID-1         | N/A         | WP108622                            |
| HCL-TCLP,1N          | N/A         | WP108584                            |
| HNO3-TCLP,1N         | N/A         | WP108585                            |
| pH Strips            | N/A         | W1931,W1934,W2350,W2755             |
| pH Strips            | N/A         | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber        | N/A         | 23091                               |
| 120ml Plastic bottle | N/A         | 21029                               |
| 1:1 HNO3             | MP81119     | N/A                                 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftation and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location              |
|----------------|-----------------------------------------|-----------------------------------|
| 11/07/24 11:00 | <i>[Signature]</i> Prep Group           | <i>[Signature]</i> Analysis Group |

| Sample ID  | ClientID         | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| P4718-03   | WB-307-SB02      | 01             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 6.0               | 1.5                     | T-1      |
| P4719-03   | BAYAVE-STOCKPILE | 02             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.5                     | T-1      |
| P4720-05   | JC-701-COMP-01   | 03             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1      |
| P4722-04   | WC-1(0-6)        | 04             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-1      |
| P4722-09   | WC-2(0-6)        | 05             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.0               | 1.0                     | T-1      |
| P4722-14   | WC-3(0-6)        | 06             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 6.2               | 1.5                     | T-1      |
| P4732-02   | PPE-COMP         | 07             | 100.00        | 2000                            | N/A          | N/A            | N/A             | 6.0               | 1.0                     | T-1      |
| P4738-02   | 72-12018         | 08             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 4.5               | 1.5                     | T-1      |
| P4739-04   | TP-14            | 09             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.0                     | T-1      |
| P4739-08   | BP-G2            | 10             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 5.6               | 1.5                     | T-1      |
| P4739-12   | BP-B2            | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.0                     | T-2      |
| P4739-16   | TP-11            | 12             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 8.2               | 1.5                     | T-2      |
| PB164694TB | LEB694           | 13             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.94              | 1.0                     | T-2      |

| SampleID   | ClientID         | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|------------|------------------|-------------------|-------------------|---------------|------------------------------|----------|--------------|
| P4718-03   | WB-307-SB02      | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4719-03   | BAYAVE-STOCKPILE | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4720-05   | JC-701-COMP-01   | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4722-04   | WC-1(0-6)        | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4722-09   | WC-2(0-6)        | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4722-14   | WC-3(0-6)        | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4732-02   | PPE-COMP         | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4738-02   | 72-12018         | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4739-04   | TP-14            | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4739-08   | BP-G2            | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4739-12   | BP-B2            | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| P4739-16   | TP-11            | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| PB164694TB | LEB694           | N/A               | N/A               | N/A           | N/A                          | N/A      | N/A          |

**Hot Block ID :** WC S-1 /WC S-2
**Thermometer ID :** FLASHPOINT

| SampleID   | ClientID         | Sample Weight (g) | Volume DI Water (mL) | PH after 5 min stir | PH after 10 min stir | Extraction Fluid 1 or 2 | pH Extraction Fluid |
|------------|------------------|-------------------|----------------------|---------------------|----------------------|-------------------------|---------------------|
| P4718-03   | WB-307-SB02      | 5.02              | 96.5                 | 8.4                 | 3.0                  | #1                      | 4.94                |
| P4719-03   | BAYAVE-STOCKPILE | 5.01              | 96.5                 | 8.4                 | 3.0                  | #1                      | 4.94                |
| P4720-05   | JC-701-COMP-01   | 5.02              | 96.5                 | 6.0                 | 2.0                  | #1                      | 4.94                |
| P4722-04   | WC-1(0-6)        | 5.03              | 96.5                 | 9.4                 | 4.0                  | #1                      | 4.94                |
| P4722-09   | WC-2(0-6)        | 5.02              | 96.5                 | 9.0                 | 3.5                  | #1                      | 4.94                |
| P4722-14   | WC-3(0-6)        | 5.01              | 96.5                 | 8.6                 | 3.5                  | #1                      | 4.94                |
| P4732-02   | PPE-COMP         | 5.00              | 96.5                 | 8.4                 | 3.0                  | #1                      | 4.94                |
| P4738-02   | 72-12018         | 5.02              | 96.5                 | 7.0                 | 2.5                  | #1                      | 4.94                |
| P4739-04   | TP-14            | 5.03              | 96.5                 | 7.2                 | 2.5                  | #1                      | 4.94                |
| P4739-08   | BP-G2            | 5.04              | 96.5                 | 8.0                 | 3.0                  | #1                      | 4.94                |
| P4739-12   | BP-B2            | 5.02              | 96.5                 | 7.6                 | 2.5                  | #1                      | 4.94                |
| P4739-16   | TP-11            | 5.01              | 96.5                 | 10.0                | 4.0                  | #1                      | 4.94                |
| PB164694TB | LEB694           | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.94                |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4719      WorkList ID : 185149      Department : TCLP Extraction      Date : 11-06-2024 07:55:14

| Sample   | Customer Sample  | Matrix | Test            | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|------------------|--------|-----------------|--------------|----------|-----------------------------|--------------|--------|
| P4718-03 | WB-307-SB02      | Solid  | TCLP Extraction | Cool 4 deg C | PORT06   | L21                         | 11/04/2024   | 1311   |
| P4719-03 | BAYAVE-STOCKPILE | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | K21                         | 11/05/2024   | 1311   |
| P4720-05 | JC-701-COMP-01   | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | K31                         | 11/05/2024   | 1311   |
| P4722-04 | WC-1(0-6)        | Solid  | TCLP Extraction | Cool 4 deg C | WALS01   | L23                         | 11/05/2024   | 1311   |
| P4722-09 | WC-2(0-6)        | Solid  | TCLP Extraction | Cool 4 deg C | WALS01   | L23                         | 11/05/2024   | 1311   |
| P4722-14 | WC-3(0-6)        | Solid  | TCLP Extraction | Cool 4 deg C | WALS01   | L23                         | 11/05/2024   | 1311   |
| P4732-02 | PPE-COMP         | Solid  | TCLP Extraction | Cool 4 deg C | FUR101   | L11                         | 11/06/2024   | 1311   |
| P4738-02 | 72-12018         | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | L23                         | 11/06/2024   | 1311   |
| P4739-04 | TP-14            | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | L21                         | 11/06/2024   | 1311   |
| P4739-08 | BP-G2            | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | L21                         | 11/06/2024   | 1311   |
| P4739-12 | BP-B2            | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | L21                         | 11/06/2024   | 1311   |
| P4739-16 | TP-11            | Solid  | TCLP Extraction | Cool 4 deg C | PSEG03   | L21                         | 11/06/2024   | 1311   |

Date/Time 11/06/24 16:10  
 Raw Sample Received by: *[Signature]*  
 Raw Sample Relinquished by: *[Signature]*

Date/Time 11/06/24 18:00  
 Raw Sample Received by: *[Signature]*  
 Raw Sample Relinquished by: *[Signature]*

**SOP ID:** M8151A-Herbicide-22

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** RJ

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 4,7

**Extraction Start Date :** 11/10/2024

**Extraction Start Time :** 09:45

**Extraction End Date :** 11/10/2024

**Extraction End Time :** 16:45

**Concentration By:** RS

**Supervisor By :** rajesh

**Extraction Method:** ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 5/500 PPM           | PP23930             |
| Surrogate     | 1.0ML    | 5000 PPB            | PP23907             |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Ether              | N/A            | E3370      |
| Acidified Na2SO4   | N/A            | EP2503     |
| NAOH 6N            | N/A            | EP2553     |
| 1:3 SULPHURIC ACID | N/A            | EP2528     |
| NACL               | N/A            | M4459      |
| METHANOL           | N/A            | V14150     |
| ISO OCTANE         | N/A            | E3554      |
| Diazomethane       | N/A            | EP3529     |
| Hexane             | N/A            | E3826      |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

**Extraction Conformance/Non-Conformance Comments:**

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ML Vial Lot # 03-40 BTS721.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 11/11/24    | RP (Ext. Lab)                           | RP (Ext. Lab)        |
| 9:05        | Preparation Group                       | Analysis Group       |

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/10/2024

| Sample ID       | Client Sample ID | Test           | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|------------------|----------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                  |                |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB164694TB      | PB164694TB       | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 |       |          | SEP-01      |
| PB164793TB      | PB164793TB       | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 |       |          | 2           |
| PB164850BL      | HBLK850          | TCLP Herbicide | 1000   | 6  | RUPESH         | ritesh     | 10                 |       |          | 3           |
| PB164850BS      | HLCS850          | TCLP Herbicide | 1000   | 6  | RUPESH         | ritesh     | 10                 |       |          | 4           |
| P4718-03        | WB-307-SB02      | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 5           |
| P4718-03MS      | WB-307-SB02MS    | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 6           |
| P4718-03MS<br>D | WB-307-SB02MSD   | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 7           |
| P4722-04        | WC-1(0-6)        | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 8           |
| P4722-09        | WC-2(0-6)        | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 9           |
| P4722-14        | WC-3(0-6)        | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 10          |
| P4732-02        | PPE-COMP         | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 11          |
| P4738-02        | 72-12018         | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 12          |
| P4771-06        | P-1              | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 13          |
| P4771-08        | P-2              | TCLP Herbicide | 100    | 6  | RUPESH         | ritesh     | 10                 | A     |          | 14          |

\* Extracts relinquished on the same date as received.

11/10/24

## TCLP EXTRACTION LOGPAGE

PB164793

| Sample ID  | ClientID        | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Pre Pos |
|------------|-----------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|---------|
| P4756-04   | BP-B4           | 01             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.5                     | T-1     |
| P4771-06   | P-1             | 02             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 5.6               | 1.0                     | T-1     |
| P4771-08   | P-2             | 03             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.5                     | T-1     |
| P4788-04   | BP-G3           | 04             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.0                     | T-1     |
| P4789-04   | BP-F21          | 05             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.6               | 1.5                     | T-1     |
| P4792-01   | DIESLE-DRUM     | 06             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 7.0               | 1.0                     | T-1     |
| P4792-06   | OILY-STONE-DRUM | 07             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 4.5               | 1.5                     | T-1     |
| P4793-02   | M00-24-00345    | 08             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 3.0               | 1.5                     | T-1     |
| P4795-02   | LAW-23-00189    | 09             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 3.5               | 1.0                     | T-1     |
| P4798-04   | MH-6            | 10             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.8               | 1.5                     | T-1     |
| PB164793TB | LEB793          | 11             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.94              | 1.0                     | T-1     |

11/09/2024  
11:30

## SPLP EXTRACTION LOGPAGE

PB164792

| Sample ID  | ClientID  | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prej Pos |
|------------|-----------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| P4722-05   | WC-1(0-6) | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| P4722-10   | WC-2(0-6) | 12             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 7.0               | 1.0                     | T-2      |
| P4722-15   | WC-3(0-6) | 13             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| PB164792TB | LEB792    | 14             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.24              | 1.0                     | T-2      |

11/09/2023  
11:30

## LAB CHRONICLE

|                 |                             |                   |                                        |
|-----------------|-----------------------------|-------------------|----------------------------------------|
| <b>OrderID:</b> | P4718                       | <b>OrderDate:</b> | 11/5/2024 1:31:00 PM                   |
| <b>Client:</b>  | Portal Partners Tri-Venture | <b>Project:</b>   | Amtrak Sawtooth Bridges 2024           |
| <b>Contact:</b> | Joseph Krupansky            | <b>Location:</b>  | L21,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID    | ClientID    | Matrix | Test           | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-------------|--------|----------------|--------|-------------|-----------|-----------|----------|
| P4718-01 | WB-307-SB01 | SOIL   | PCB            | 8082A  | 11/04/24    | 11/06/24  | 11/06/24  | 11/05/24 |
|          |             |        | EPH            | NJEPH  |             | 11/08/24  | 11/08/24  |          |
| P4718-02 | WB-307-SB02 | SOIL   | PCB            | 8082A  | 11/04/24    | 11/06/24  | 11/06/24  | 11/05/24 |
|          |             |        | EPH            | NJEPH  |             | 11/08/24  | 11/08/24  |          |
| P4718-03 | WB-307-SB02 | TCLP   | TCLP Herbicide | 8151A  | 11/04/24    | 11/10/24  | 11/12/24  | 11/05/24 |
| P4718-04 | WB-307-SW   | WATER  | PCB            | 8082A  | 11/04/24    | 11/06/24  | 11/06/24  | 11/05/24 |
|          |             |        | EPH            | NJEPH  |             | 11/09/24  | 11/11/24  |          |