

# LAB CHRONICLE

OrderID: Q2436

Client: CDM Smith

Contact: Marcie Ann Encinas

**OrderDate:** 6/26/2025 3:41:00 PM

**Project:** South River WM Replacement

Location: D51,VOA Ref. #2 Soil

| LabID    | ClientID | Matrix | Test                    | Method | Sample Date | Prep Date  | Anal Date  | Received |
|----------|----------|--------|-------------------------|--------|-------------|------------|------------|----------|
| Q2436-01 | TP-70    | SOIL   |                         |        | 06/25/25    |            |            | 06/26/25 |
| Q2+30-01 | 11-70    | 3011   | Diesel Range Organics   | 8015D  | 00/25/25    | 06/30/25   | 06/30/25   | 00/20/25 |
|          |          |        | Gasoline Range Organics | 8015D  |             | 00/30/23   | 06/27/25   |          |
|          |          |        | PCB                     | 8082A  |             | 06/27/25   | 06/27/25   |          |
|          |          |        | Pesticide-TCL           | 8081B  |             | 06/27/25   | 06/28/25   |          |
|          |          |        |                         |        |             | 23, 21, 25 | 55, 25, 25 |          |
| Q2436-02 | TP-69    | SOIL   |                         |        | 06/25/25    |            |            | 06/26/25 |
|          |          |        | Diesel Range Organics   | 8015D  |             | 06/30/25   | 06/30/25   |          |
|          |          |        | Gasoline Range Organics | 8015D  |             |            | 06/27/25   |          |
|          |          |        | PCB                     | 8082A  |             | 06/27/25   | 06/27/25   |          |
|          |          |        | Pesticide-TCL           | 8081B  |             | 06/27/25   | 06/28/25   |          |
| Q2436-03 | TP-85    | SOIL   |                         |        | 06/25/25    |            |            | 06/26/25 |
|          |          |        | Diesel Range Organics   | 8015D  |             | 06/30/25   | 06/30/25   |          |
|          |          |        | Gasoline Range Organics | 8015D  |             |            | 06/27/25   |          |
|          |          |        | PCB                     | 8082A  |             | 06/27/25   | 06/27/25   |          |
|          |          |        | Pesticide-TCL           | 8081B  |             | 06/27/25   | 06/28/25   |          |
| Q2436-04 | TP-86    | SOIL   |                         |        | 06/25/25    |            |            | 06/26/25 |
| _        |          |        | Diesel Range Organics   | 8015D  |             | 06/30/25   | 06/30/25   |          |
|          |          |        | Gasoline Range Organics | 8015D  |             | , ,        | 06/30/25   |          |
|          |          |        | PCB                     | 8082A  |             | 06/27/25   | 06/27/25   |          |
|          |          |        | Pesticide-TCL           | 8081B  |             | 06/27/25   | 06/28/25   |          |
| Q2436-05 | TP-84    | SOIL   |                         |        | 06/25/25    |            |            | 06/26/25 |
| •        |          |        | Diesel Range Organics   | 8015D  |             | 06/30/25   | 06/30/25   |          |
|          |          |        | Gasoline Range Organics | 8015D  |             | 00,50,25   | 06/27/25   |          |
|          |          |        | PCB                     | 8082A  |             | 06/27/25   | 06/27/25   |          |
|          |          |        | Pesticide-TCL           | 8081B  |             | 06/27/25   | 06/28/25   |          |
| 02426.06 | TD 02    | COT    |                         |        | 06 (25 (25  | , , -      |            | 06/26/25 |
| Q2436-06 | TP-83    | SOIL   | Discal Banna Oussais    | 00155  | 06/25/25    | 06/20/25   | 06/20/25   | 06/26/25 |
|          |          |        | Diesel Range Organics   | 8015D  |             | 06/30/25   | 06/30/25   |          |
|          |          |        |                         |        |             |            |            |          |



# LAB CHRONICLE

|          |        |      | Gasoline Range Organics | 8015D |          |          | 06/27/25 |          |
|----------|--------|------|-------------------------|-------|----------|----------|----------|----------|
|          |        |      | PCB                     | 8082A |          | 06/27/25 | 06/27/25 |          |
|          |        |      | Pesticide-TCL           | 8081B |          | 06/27/25 | 06/28/25 |          |
| Q2436-07 | TP-87  | SOIL |                         |       | 06/26/25 |          |          | 06/26/25 |
|          |        |      | Diesel Range Organics   | 8015D |          | 06/30/25 | 06/30/25 |          |
|          |        |      | Gasoline Range Organics | 8015D |          |          | 06/30/25 |          |
|          |        |      | PCB                     | 8082A |          | 06/27/25 | 06/27/25 |          |
|          |        |      | Pesticide-TCL           | 8081B |          | 06/27/25 | 06/28/25 |          |
| Q2436-08 | TP-100 | SOIL |                         |       | 06/26/25 |          |          | 06/26/25 |
|          |        |      | Diesel Range Organics   | 8015D |          | 06/30/25 | 06/30/25 |          |
|          |        |      | Gasoline Range Organics | 8015D |          |          | 06/27/25 |          |
|          |        |      | PCB                     | 8082A |          | 06/27/25 | 06/27/25 |          |
|          |        |      | Pesticide-TCL           | 8081B |          | 06/27/25 | 06/28/25 |          |
| Q2436-09 | TP-99  | SOIL |                         |       | 06/26/25 |          |          | 06/26/25 |
|          |        |      | Diesel Range Organics   | 8015D |          | 06/30/25 | 06/30/25 |          |
|          |        |      | Gasoline Range Organics | 8015D |          |          | 06/27/25 |          |
|          |        |      | PCB                     | 8082A |          | 06/27/25 | 06/27/25 |          |
|          |        |      | Pesticide-TCL           | 8081B |          | 06/27/25 | 06/28/25 |          |
| Q2436-10 | TP-82  | SOIL |                         |       | 06/26/25 |          |          | 06/26/25 |
|          |        |      | Diesel Range Organics   | 8015D |          | 06/30/25 | 07/01/25 |          |
|          |        |      | Gasoline Range Organics | 8015D |          |          | 06/30/25 |          |
|          |        |      | PCB                     | 8082A |          | 06/27/25 | 06/27/25 |          |
|          |        |      | Pesticide-TCL           | 8081B |          | 06/27/25 | 06/28/25 |          |
|          |        |      |                         |       |          |          |          |          |



# SAMPLE DATA



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

# **Report of Analysis**

Client: CDM Smith

South River WM Replacement

g

Client Sample ID: TP-70

Lab Sample ID: Q2436-01

Analytical Method: 8015D GRO

Sample Wt/Vol: 4.7 Units:

Soil Aliquot Vol: uL

1

Extraction Type:

GPC Factor: PH:

Prep Method:

Project:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/25/25

06/26/25

Q2436

**SOIL** 

82.1

5

Prep Batch ID

Decanted:

mL

FB031949.D

06/27/25 12:20

FB062725

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 11.0   | U         | 11.0     | 58.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 14.2 |           | 50 - 150 | 71%        | SPK: 20           |

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.



Date Received:

Test:

06/26/25

Gasoline Range Organics



# **Report of Analysis**

Client: CDM Smith

DM Smith Date Collected: 06/25/25

Project: South River WM Replacement

TP-69 SDG No.: Q2436

Lab Sample ID: Q2436-02 Matrix: SOIL

uL

Analytical Method: 8015D GRO % Solid: 82 Decanted:

Sample Wt/Vol: 4.03 Units: g Final Vol: 5 mL

Extraction Type: Injection Volume :

GPC Factor: PH:

Prep Method:

Soil Aliquot Vol:

Client Sample ID:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031961.D 1 06/27/25 18:25 FB062725

| CAS Number            | Parameter                    | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                          | 12.0   | U         | 12.0     | 68.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluorot | o 15.7 |           | 50 - 150 | 78%        | SPK: 20           |

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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

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g



# **Report of Analysis**

Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: TP-85

Lab Sample ID: Q2436-03

Analytical Method: 8015D GRO

Sample Wt/Vol: 4.32 Units:

Soil Aliquot Vol: uL

•

Extraction Type:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/25/25

06/26/25

Q2436

**SOIL** 

85.1

5

Prep Batch ID

Decanted:

mL

FB031951.D 1

06/27/25 13:14

FB062725

Gasoline Range Organics

| CAS Number            | Parameter                    | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                          | 11.0   | U         | 11.0     | 61.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluorot | o 15.7 |           | 50 - 150 | 78%        | SPK: 20           |

#### Comments:

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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

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Client: CDM Smith

South River WM Replacement

g

Client Sample ID: TP-86

Lab Sample ID: Q2436-04

Analytical Method: 8015D GRO

Sample Wt/Vol: 4.08 Units:

Soil Aliquot Vol: uL

1

Extraction Type:

GPC Factor: PH:

Prep Method:

Project:

File ID/Qc Batch: Dilution:

Date Analyzed

Prep Batch ID

Decanted:

mL

FB031971.D 50

06/30/25 12:59

Injection Volume:

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

06/25/25

06/26/25

Q2436

**SOIL** 

88.7

5

FB063025

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 589    | J         | 571      | 3110       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 24.7 |           | 50 - 150 | 123%       | SPK: 20           |

#### Comments:

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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

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D = Dilution

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Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: TP-84

Lab Sample ID: Q2436-05

Analytical Method: 8015D GRO

Sample Wt/Vol: 4.18 Units: g

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB031953.D

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

06/25/25

06/26/25

Q2436

**SOIL** 

92.3

5

Prep Batch ID

Gasoline Range Organics

Decanted:

mL

06/27/25 14:09

Injection Volume:

FB062725

| CA | AS Number             | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|----|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
|    | CARGETS<br>GRO        | GRO                           | 11.0   | U         | 11.0     | 58.0       | ug/kg             |
|    | SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 13.7 |           | 50 - 150 | 68%        | SPK: 20           |

#### Comments:

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LOD = Limit of Detection

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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.



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

# **Report of Analysis**

Client: CDM Smith

South River WM Replacement

Client Sample ID: TP-83

Lab Sample ID: Q2436-06

Analytical Method: 8015D GRO

Sample Wt/Vol: 5 Units: g

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

Project:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/25/25

06/26/25

Q2436

**SOIL** 

90.6

5

Prep Batch ID

Decanted:

mL

FB031956.D

06/27/25 16:06

FB062725

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 9.00   | U         | 9.00     | 50.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 14.0 |           | 50 - 150 | 70%        | SPK: 20           |

#### Comments:

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LOD = Limit of Detection

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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.



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

# **Report of Analysis**

Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: TP-87

Lab Sample ID: Q2436-07

Analytical Method: 8015D GRO

Sample Wt/Vol: 5.2 Units: g

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/26/25

06/26/25

Q2436

**SOIL** 

89.9

5

Prep Batch ID

Decanted:

mL

FB031969.D 1

06/30/25 12:04

FB063025

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 9.00   | U         | 9.00     | 48.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 14.8 |           | 50 - 150 | 74%        | SPK: 20           |

#### Comments:

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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

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Client: CDM Smith

South River WM Replacement

Client Sample ID: TP-100

Lab Sample ID: Q2436-08

Analytical Method: 8015D GRO

Sample Wt/Vol: 6 Units: g

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB031958.D

Project:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/26/25

06/26/25

Q2436

**SOIL** 

85.6

5

Prep Batch ID

Decanted:

mL

06/27/25 17:01

FB062725

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 8.00   | U         | 8.00     | 44.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 15.1 |           | 50 - 150 | 76%        | SPK: 20           |

#### Comments:

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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

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Client: CDM Smith

South River WM Replacement

g

Client Sample ID: TP-99

Lab Sample ID: Q2436-09

Analytical Method: 8015D GRO

Sample Wt/Vol: 4.5 Units:

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB031959.D

Project:

File ID/Qc Batch: Dilution:

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/26/25

06/26/25

Q2436

**SOIL** 

92.2

5

Prep Batch ID

Decanted:

mL

1

06/27/25 17:29

FB062725

Gasoline Range Organics

| CAS Number            | Parameter                     | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                           | 11.0   | J         | 10.0     | 54.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | o 15.7 |           | 50 - 150 | 78%        | SPK: 20           |

#### Comments:

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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

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Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: TP-82

Lab Sample ID: Q2436-10

Analytical Method: 8015D GRO

Sample Wt/Vol: 5 Units: g

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB031970.D

File ID/Qc Batch: Dilution:

Date Analyzed

Injection Volume:

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

06/26/25

06/26/25

Q2436

**SOIL** 

92

5

Prep Batch ID

Decanted:

mL

06/30/25 12:31

FB063025

Gasoline Range Organics

| CAS Number            | Parameter                    | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                          | 9.00   | U         | 9.00     | 49.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluorot | o 17.1 |           | 50 - 150 | 85%        | SPK: 20           |

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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.



# QC SUMMARY



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

#### SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

 Lab Name:
 Chemtech
 Client:
 CDM Smith

 Lab Code:
 CHEM
 Case No.:
 Q2436
 SAS No.:
 Q2436
 SDG No.:
 Q2436

| Eab Code. CITEM | <u>Q2430</u> | 5/15/10 | <u>2430</u> BDO | 2243 |     |
|-----------------|--------------|---------|-----------------|------|-----|
| EPA             | S1           | S2      | S3              | S4   | TOT |
| SAMPLE NO.      | AAA-TI       | FT      |                 |      | OUT |
| VBF0627S1       | 76           |         |                 |      | 0   |
| BSF0627S1       | 84           |         |                 |      | 0   |
| TP-70           | 71           |         |                 |      | 0   |
| TP-85           | 78           |         |                 |      | 0   |
| TP-84           | 68           |         |                 |      | 0   |
| TP-83           | 70           |         |                 |      | 0   |
| TP-100          | 76           |         |                 |      | 0   |
| TP-99           | 78           |         |                 |      | 0   |
| TP-69           | 78           |         |                 |      | 0   |
| BSF0627S3       | 88           |         |                 |      | 0   |
| VBF0630S1       | 80           |         |                 |      | 0   |
| VBF0630S2       | 85           |         |                 |      | 0   |
| BSF0630S1       | 86           |         |                 |      | 0   |
| TP-87           | 74           |         |                 |      | 0   |
| TP-82           | 85           |         |                 |      | 0   |
| TP-86           | 123          |         |                 |      | 0   |

QC LIMITS

For Water : 50-150 For Soil : 50-150

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

AAA-TFT

D Surrogate Diluted Out



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# SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

| Lab Name: | Chemtech |         |       | Client: | CDM Smith |         |       |
|-----------|----------|---------|-------|---------|-----------|---------|-------|
| Lab Code: | СНЕМ     | Cas No: | Q2436 | SAS No: | Q2436     | SDG No: | Q2436 |

Matrix Spike - EPA Sample No: BSF0627S1 Datafile: FB031948.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | CONCENTRATION<br>ug/kg | LCS/LCSD<br>CONCENTRATION<br>ug/kg | % REC | QC LIMITS |
|----------|-------------------------|------------------------|------------------------------------|-------|-----------|
| GRO      | 180                     | 0                      | 154                                | 86    | 50-150    |

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# SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

 Lab Name:
 Chemtech
 Client:
 CDM Smith

 Lab Code:
 CHEM
 Cas No:
 Q2436
 SAS No:
 Q2436
 SDG No:
 Q2436

Matrix Spike - EPA Sample No: BSF0627S3 Datafile: FB031962.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | CONCENTRATION<br>ug/kg | LCS/LCSD<br>CONCENTRATION<br>ug/kg | % REC | QC LIMITS |
|----------|-------------------------|------------------------|------------------------------------|-------|-----------|
| GRO      | 180                     | 0                      | 156                                | 87    | 50-150    |

LCS/LCSD % Recovery RPD : 1.3



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#### SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

 Lab Name:
 Chemtech
 Client:
 CDM Smith

 Lab Code:
 CHEM
 Cas No:
 Q2436
 SAS No:
 Q2436
 SDG No:
 Q2436

Matrix Spike - EPA Sample No: BSF0630S1 Datafile: FB031967.D

| COMPOUND | SPIKE<br>ADDED<br>ug/kg | CONCENTRATION<br>ug/kg | LCS/LCSD<br>CONCENTRATION<br>ug/kg | % REC | QC LIMITS |
|----------|-------------------------|------------------------|------------------------------------|-------|-----------|
| GRO      | 180                     | 0                      | 168                                | 93    | 50-150    |



Instrument ID:

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#### METHOD BLANK SUMMARY

| EPA | SAMPLE | NO. |
|-----|--------|-----|
|-----|--------|-----|

VBF0627S1

| Lab Name:   | СНЕМТЕСН             |           |       | Contract: CAMPO       | 2              |  |
|-------------|----------------------|-----------|-------|-----------------------|----------------|--|
| Lab Code:   | СНЕМ                 | Case No.: | Q2436 | SAS No.: <u>Q2436</u> | SDG NO.: Q2436 |  |
| Lab File ID | ): <u>FB031946.D</u> |           |       | Lab Sample ID:        | VBF0627S1      |  |
| Date Analyz | ed: 06/27/25         |           |       | Time Analyzed:        | 10:24          |  |
| GC Column:  | RTX-502.2            | ID: 0.53  | (mm)  | Heated Purge: (Y      | /n) <u> </u>   |  |

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

| EPA        | LAB       | LAB        | DATE     |
|------------|-----------|------------|----------|
| SAMPLE NO. | SAMPLE ID | FILE ID    | ANALYZED |
| BSF0627S1  | BSF0627S1 | FB031948.D | 06/27/25 |
| TP-70      | Q2436-01  | FB031949.D | 06/27/25 |
| TP-85      | Q2436-03  | FB031951.D | 06/27/25 |
| TP-84      | Q2436-05  | FB031953.D | 06/27/25 |
| TP-83      | Q2436-06  | FB031956.D | 06/27/25 |
| TP-100     | Q2436-08  | FB031958.D | 06/27/25 |
| TP-99      | Q2436-09  | FB031959.D | 06/27/25 |
| TP-69      | Q2436-02  | FB031961.D | 06/27/25 |
| BSF0627S3  | BSF0627S3 | FB031962.D | 06/27/25 |

| COMMENTS: |  |  |  |
|-----------|--|--|--|
|           |  |  |  |





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#### METHOD BLANK SUMMARY

| EPA SAMPLE NO. |  |
|----------------|--|
| VBF0630S1      |  |

| Lab Name: CHEMTECH                 | Contract: CAMP02              |
|------------------------------------|-------------------------------|
| Lab Code: CHEM Case No.: Q2436     | SAS No.: Q2436 SDG NO.: Q2436 |
| Lab File ID: FB031965.D            | Lab Sample ID: VBF0630S1      |
| Date Analyzed: 06/30/25            | Time Analyzed: 10:12          |
| GC Column: RTX-502.2 ID: 0.53 (mm) | Heated Purge: (Y/N) Y         |
| Instrument ID: FR                  |                               |

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

| EPA        | LAB       | LAB        | DATE     |
|------------|-----------|------------|----------|
| SAMPLE NO. | SAMPLE ID | FILE ID    | ANALYZED |
| BSF0630S1  | BSF0630S1 | FB031967.D | 06/30/25 |
| TP-87      | Q2436-07  | FB031969.D | 06/30/25 |
| TP-82      | Q2436-10  | FB031970.D | 06/30/25 |

| COMMENTS: |  |
|-----------|--|
|           |  |
|           |  |





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#### METHOD BLANK SUMMARY

| EFA     | SHITE | NO. |
|---------|-------|-----|
| VBF0630 | )S2   |     |
|         |       |     |

| Lab Name: | CHEMTECH | Contract: | CAMP02 |  |
|-----------|----------|-----------|--------|--|
|-----------|----------|-----------|--------|--|

Lab File ID: FB031966.D Lab Sample ID: VBF0630S2

Date Analyzed: 06/30/25 Time Analyzed: 10:40

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

| EPA        | LAB       | LAB        | DATE     |
|------------|-----------|------------|----------|
| SAMPLE NO. | SAMPLE ID | FILE ID    | ANALYZED |
| TP-86      | Q2436-04  | FB031971.D | 06/30/25 |

| COMMENTS: |  |
|-----------|--|
|           |  |
|           |  |



# QC SAMPLE DATA





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: VBF0627S1 SDG No.: Q2436
Lab Sample ID: VBF0627S1 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Soil Aliquot Vol: uL Test: Gasoline Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031946.D 1 06/27/25 10:24 FB062725

Qualifier MDL LOQ / CRQL Units(Dry Weight) **CAS Number Parameter** Conc. **TARGETS GRO GRO** 8.00 U 8.00 45.0 ug/kg **SURROGATES** 98-08-8 Alpha, Alpha, Alpha-Trifluoroto 15.2 50 - 150 76% SPK: 20

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: VBF0630S1 SDG No.: Q2436
Lab Sample ID: VBF0630S1 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Soil Aliquot Vol: uL Test: Gasoline Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031965.D 1 06/30/25 10:12 FB063025

| CAS Number            | Parameter                    | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|------------------------------|--------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                          | 8.00   | U         | 8.00     | 45.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluorot | o 16.0 |           | 50 - 150 | 80%        | SPK: 20           |

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: VBF0630S2 SDG No.: Q2436
Lab Sample ID: VBF0630S2 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Soil Aliquot Vol: uL Test: Gasoline Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID
FB031966.D 50 06/30/25 10:40 FB063025

Qualifier MDL Units(Dry Weight) **CAS Number Parameter** Conc. LOQ / CRQL **TARGETS GRO GRO** 413 U 413 2250 ug/kg **SURROGATES** 98-08-8 Alpha, Alpha, Alpha-Trifluoroto 17.1 50 - 150 85% SPK: 20

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.





Date Collected:

Date Received:

Test:

Q2436

**SOIL** 

Gasoline Range Organics

Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: BSF0627S1 SDG No.:

Lab Sample ID: BSF0627S1 Matrix:

uL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Extraction Type: Injection Volume :

GPC Factor: PH:

Prep Method:

Soil Aliquot Vol:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031948.D 1 06/27/25 11:19 FB062725

| CAS Number            | Parameter                   | Conc.   | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-----------------------------|---------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                         | 154     |           | 8.00     | 45.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoro | to 16.8 |           | 50 - 150 | 84%        | SPK: 20           |

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: BSF0630S1 SDG No.: Q2436
Lab Sample ID: BSF0630S1 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Soil Aliquot Vol: uL Test: Gasoline Range Organics

Extraction Type: Injection Volume :

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031967.D 1 06/30/25 11:08 FB063025

| CAS Number            | Parameter                   | Conc.   | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-----------------------------|---------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                         | 168     |           | 8.00     | 45.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoro | to 17.2 |           | 50 - 150 | 86%        | SPK: 20           |

#### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: BSF0627S3 SDG No.: Q2436
Lab Sample ID: BSF0627S3 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 100 Decanted:

Sample Wt/Vol: 5 Units: g Final Vol: 5 mL

Soil Aliquot Vol: uL Test: Gasoline Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID

FB031962.D 1 06/27/25 18:53 FB062725

| CAS Number            | Parameter                   | Conc.    | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-----------------------|-----------------------------|----------|-----------|----------|------------|-------------------|
| TARGETS<br>GRO        | GRO                         | 156      |           | 8.00     | 45.0       | ug/kg             |
| SURROGATES<br>98-08-8 | Alpha,Alpha,Alpha-Trifluoro | oto 17.6 |           | 50 - 150 | 88%        | SPK: 20           |

#### Comments:

U = Not Detected

LOO = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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.



# CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

| Lab Name: | Chemtech        | Contract: | CAMP02 |
|-----------|-----------------|-----------|--------|
| D (ID.    | C. d. D WM D. d |           |        |

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

| Calibration Sequence : FB062325 |            | Test : Gasoline Ra | Test : Gasoline Range Organics |  |  |
|---------------------------------|------------|--------------------|--------------------------------|--|--|
| Concentration (PPB)             | Area Count | Reference Factor   | File ID                        |  |  |
| 45                              | 1490557    | 33123              | FB031909.D                     |  |  |
| 90                              | 2566530    | 28517              | FB031910.D                     |  |  |
| 180                             | 5166210    | 28701              | FB031911.D                     |  |  |
| 450                             | 12609856   | 28022              | FB031912.D                     |  |  |
| 900                             | 27368301   | 30409              | FB031913.D                     |  |  |
| AVG RF: 29754 % RSD             |            | 6 RSD : 7.013      | AVG RT : 8.79                  |  |  |



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# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | Chemtech             |           |               | Contract: | CAMP02    |                  |  |
|------------|----------------------|-----------|---------------|-----------|-----------|------------------|--|
| ProjectID: | South River WM Repla | cement    |               |           |           |                  |  |
| Lab Code:  | СНЕМ                 | Case No.: | Q2436         | SAS No.:  | Q2436     | SDG No.: Q2436   |  |
| DataFile:  | FB031945.D           |           | Analyst Name: | YP/AJ     | Analyst I | Date: 06-27-2025 |  |

| Conc. (PPB) | Area Count | RF    | Average RF | %D    |
|-------------|------------|-------|------------|-------|
| 180         | 4972296    | 27624 | 29754      | 7.159 |



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# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | Chemtech              | hemtech   |               |          | CAMP02     |                 |  |
|------------|-----------------------|-----------|---------------|----------|------------|-----------------|--|
| ProjectID: | South River WM Replac | cement    |               |          |            |                 |  |
| Lab Code:  | СНЕМ                  | Case No.: | Q2436         | SAS No.: | Q2436      | SDG No.: Q2436  |  |
| DataFile:  | FB031955.D            |           | Analyst Name: | YP/AJ    | Analyst Da | ate: 06-27-2025 |  |

| Conc. (PPB) | Area Count | RF    | Average RF | %D     |
|-------------|------------|-------|------------|--------|
| 180         | 4580542    | 25447 | 29754      | 14.475 |



# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | Chemtech              |           |               | Contract: | CAMP02     |                 |
|------------|-----------------------|-----------|---------------|-----------|------------|-----------------|
| ProjectID: | South River WM Replac | cement    |               |           |            |                 |
| Lab Code:  | СНЕМ                  | Case No.: | Q2436         | SAS No.:  | Q2436      | SDG No.: Q2436  |
| DataFile:  | FB031963.D            |           | Analyst Name: | YP/AJ     | Analyst Da | ate: 06-27-2025 |

| Conc. (PPB) | Area Count | RF    | Average RF | %D     |
|-------------|------------|-------|------------|--------|
| 180         | 4575171    | 25418 | 29754      | 14.573 |



# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | Chemtech              | Chemtech  |               |          | CAMP02    |                  |  |
|------------|-----------------------|-----------|---------------|----------|-----------|------------------|--|
| ProjectID: | South River WM Replac | ement     |               |          |           |                  |  |
| Lab Code:  | СНЕМ                  | Case No.: | Q2436         | SAS No.: | Q2436     | SDG No.: Q2436   |  |
| DataFile:  | FB031964.D            |           | Analyst Name: | YP/AJ    | Analyst D | Date: 06-30-2025 |  |

| Conc. (PPB) | Area Count | RF    | Average RF | %D     |
|-------------|------------|-------|------------|--------|
| 180         | 4611565    | 25620 | 29754      | 13.894 |



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# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | Chemtech              |           |               | Contract: | CAMP02    |                  |  |
|------------|-----------------------|-----------|---------------|-----------|-----------|------------------|--|
| ProjectID: | South River WM Replac | ement     |               |           |           |                  |  |
| Lab Code:  | СНЕМ                  | Case No.: | Q2436         | SAS No.:  | Q2436     | SDG No.: Q2436   |  |
| DataFile:  | FB031973.D            |           | Analyst Name: | YP/AJ     | Analyst D | pate: 06-30-2025 |  |

| Conc. (PPB) | Area Count | RF    | Average RF | %D   |
|-------------|------------|-------|------------|------|
| 180         | 5074480    | 28192 | 29754      | 5.25 |



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# GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

| Lab Name:  | <u>Chemtech</u> Contract: |             |               | CAMP02   |       |                             |       |   |
|------------|---------------------------|-------------|---------------|----------|-------|-----------------------------|-------|---|
| ProjectID: | South River WM R          | Replacement |               |          |       |                             |       |   |
| Lab Code:  | СНЕМ                      | Case No.:   | Q2436         | SAS No.: | Q2436 | SDG No.:                    | Q2436 |   |
| DataFile:  | FB031984.D                | _           | Analyst Name: | YP/AJ    | Ana   | alyst Date: <u>06-30-20</u> | )25   | _ |

| Conc. (PPB) | Area Count | RF    | Average RF | %D    |
|-------------|------------|-------|------------|-------|
| 180         | 5073667    | 28187 | 29754      | 5.267 |

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# **Analytical Sequence**

Client: CDM Smith SDG No.: Q2436

Project: South River WM Replacement Instrument ID: FID\_B

GC Column: RTX-502.2 ID: 0.53 (mm)

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

|                   |                  | 8.798                     |            |       |   |
|-------------------|------------------|---------------------------|------------|-------|---|
| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE AND TIME<br>ANALYZED | DATAFILE   | RT    | # |
| 20 PPB GRO STD    | 20 PPB GRO STD   | 27 Jun 2025 9:38          | FB031945.D | 8.792 |   |
| VBF0627S1         | VBF0627S1        | 27 Jun 2025 10:24         | FB031946.D | 8.795 |   |
| BSF0627S1         | BSF0627S1        | 27 Jun 2025 11:19         | FB031948.D | 8.795 |   |
| TP-70             | Q2436-01         | 27 Jun 2025 12:20         | FB031949.D | 8.624 | ŧ |
| TP-85             | Q2436-03         | 27 Jun 2025 13:14         | FB031951.D | 8.663 | ŧ |
| TP-84             | Q2436-05         | 27 Jun 2025 14:09         | FB031953.D | 8.796 |   |
| 20 PPB GRO STD    | 20 PPB GRO STD   | 27 Jun 2025 15:21         | FB031955.D | 8.796 |   |
| TP-83             | Q2436-06         | 27 Jun 2025 16:06         | FB031956.D | 8.629 | k |
| TP-100            | Q2436-08         | 27 Jun 2025 17:01         | FB031958.D | 8.624 | ŧ |
| TP-99             | Q2436-09         | 27 Jun 2025 17:29         | FB031959.D | 8.637 | ŧ |
| TP-69             | Q2436-02         | 27 Jun 2025 18:25         | FB031961.D | 8.796 |   |
| BSF0627S3         | BSF0627S3        | 27 Jun 2025 18:53         | FB031962.D | 8.796 |   |
| 20 PPB GRO STD    | 20 PPB GRO STD   | 27 Jun 2025 19:20         | FB031963.D | 8.796 |   |
| 20 PPB GRO STD    | 20 PPB GRO STD   | 30 Jun 2025 9:27          | FB031964.D | 8.789 |   |
| VBF0630S1         | VBF0630S1        | 30 Jun 2025 10:12         | FB031965.D | 8.796 |   |
| VBF0630S2         | VBF0630S2        | 30 Jun 2025 10:40         | FB031966.D | 8.798 |   |
| BSF0630S1         | BSF0630S1        | 30 Jun 2025 11:08         | FB031967.D | 8.798 |   |
| TP-87             | Q2436-07         | 30 Jun 2025 12:04         | FB031969.D | 8.572 | * |
| TP-82             | Q2436-10         | 30 Jun 2025 12:31         | FB031970.D | 8.546 | ķ |
| TP-86             | Q2436-04         | 30 Jun 2025 12:59         | FB031971.D | 8.523 | * |
| 20 PPB GRO STD    | 20 PPB GRO STD   | 30 Jun 2025 13:54         | FB031973.D | 8.802 |   |