

LAB CHRONICLE

OrderID: Q2543 **OrderDate:** 7/9/2025 12:26:00 PM

Client: CDM Smith Project: South River WM Replacement

Contact: Marcie Ann Encinas Location: O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	TP-41	SOIL			07/08/25			07/09/25
•			Gasoline Range Organics	8015D	, ,		07/10/25	
			РСВ	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	TP-49	SOIL			07/09/25			07/09/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	TP-23	SOIL			07/09/25			07/09/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	TP-23-99	SOIL			07/09/25			07/09/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	







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SAMPLE DATA



Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

07/08/25

07/09/25

Q2543

SOIL

Decanted:

mL

Gasoline Range Organics

Prep Batch ID

82

5



Report of Analysis

Client: CDM Smith

Project: South River WM Replacement

Units:

g

Client Sample ID: TP-41

Lab Sample ID: Q2543-01

Analytical Method: 8015D GRO

many treat in contra

5.15

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

Sample Wt/Vol:

File ID/Qc Batch: Dilution: Date Analyzed

FB032065.D 1 07/10/25 12:36 FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	18.0	J	10.0	53.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluoroto	o 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

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





Client: CDM Smith

Project: South River WM Replacement

4.75

Units:

g

Client Sample ID: TP-49

Lab Sample ID: Q2543-02

Analytical Method: 8015D GRO

Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB032073.D

Sample Wt/Vol:

File ID/Qc Batch: Dilution:

Date Analyzed

Injection Volume:

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

07/09/25

07/09/25

Q2543

SOIL

73.9

5

Prep Batch ID

Decanted:

mL

07/10/25 16:52

FB071025

Gasoline Range Organics

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	12.0	U	12.0	64.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluorot	o 17.7		50 - 150	88%	SPK: 20

Comments:

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Client: CDM Smith

Project: South River WM Replacement

4.8

Units:

g

Client Sample ID: TP-23

Lab Sample ID: Q2543-03

Analytical Method: 8015D GRO

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Soil Aliquot Vol: uL

Extraction Type:

GPC Factor: PH:

Prep Method:

FB032067.D

Sample Wt/Vol:

File ID/Qc Batch: Dilution:

Date Analyzed

Injection Volume:

Prep Batch ID

Decanted:

mL

07/10/25 13:31

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

07/09/25

07/09/25

Q2543

SOIL

85

5

FB071025

Gasoline Range Organics

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	10.0	U	10.0	55.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluorot	to 18.0		50 - 150	90%	SPK: 20

Comments:

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D = Dilution

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



07/09/25



Report of Analysis

Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received: 07/09/25

Client Sample ID: TP-23-99 SDG No.: Q2543

Lab Sample ID: Q2543-04 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 85.4 Decanted:

Sample Wt/Vol: 4.81 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

FB032068.D 1 07/10/25 13:59 FB071025

Qualifier MDL Units(Dry Weight) **CAS Number Parameter** Conc. LOQ / CRQL **TARGETS GRO GRO** 10.0 U 10.0 55.0 ug/kg **SURROGATES** 98-08-8 Alpha, Alpha, Alpha-Trifluoroto 18.5 50 - 150 93% SPK: 20

Comments:

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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:	Alliance	Client:	CDM Smith
Lab Code:	ACE	SDG No.:	O2543

CLIENT ID	S1	S2	S3	S4	ТОТ
	AAA-TFT				OUT
VBF0710S1	92				0
BSF0710S1	101				0
TP-41	84				0
TP-23	90				0
TP-23-99	93				0
BSF0710S2	96				0
TP-49	88				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: All	iance	Client:	CDM Smith
ab Code: AC	E	SDG No:	Q2543
Client Sample ID :	BSF0710S1	Datafile:	FB032062.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

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

Lab Name: Alliance	Client: CDM Smith
Lab Code: ACE	SDG No: Q2543
Client Sample ID : BSF0710S2	Datafile: FB032070.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

LCS/LCSD % Recovery RPD : 0

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METHOD BLANK SUMMARY

CLIENT	SAMPLE	NO.
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VBF0710S1

ab Name:	Alliance	Contract:	CAMP02	

Lab Code: ACE SDG NO.: Q2543

Lab File ID: FB032060.D Lab Sample ID: VBF0710S1

Date Analyzed: 07/10/25 Time Analyzed: 9:50

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:

CLIENT	LAB	LAB	DATE
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
BSF0710S1	BSF0710S1	FB032062.D	07/10/25
TP-41	Q2543-01	FB032065.D	07/10/25
TP-23	Q2543-03	FB032067.D	07/10/25
TP-23-99	Q2543-04	FB032068.D	07/10/25
BSF0710S2	BSF0710S2	FB032070.D	07/10/25
TP-49	02543-02	FB032073.D	07/10/25

COMMENTS:		



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QC SAMPLE DATA



Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: VBF0710S1 SDG No.: Q2543
Lab Sample ID: VBF0710S1 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

FB032060.D 1 07/10/25 9:50 FB071025

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 18.4 50 - 150 92% SPK: 20

Comments:

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Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: BSF0710S1 SDG No.: Q2543
Lab Sample ID: BSF0710S1 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

FB032062.D 1 07/10/25 10:45 FB071025

CAS Number	Parameter	Conc.	Qualifier MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	155	8.00	45.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpl	ha-Trifluoroto 20.2	50 - 150	101%	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

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: BSF0710S2 SDG No.: Q2543
Lab Sample ID: BSF0710S2 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

FB032070.D 1 07/10/25 14:54 FB071025

Qualifier MDL LOQ / CRQL Units(Dry Weight) **CAS Number Parameter** Conc. **TARGETS GRO GRO** 155 8.00 45.0 ug/kg **SURROGATES** 98-08-8 Alpha, Alpha, Alpha-Trifluoroto 19.2 50 - 150 96% SPK: 20

Comments:

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LOQ = Limit of Quantitation

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CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Alliance Lab Name: Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

Calibration Sequence : FB062325		Test : Gasoline Ra	ange 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: 7.013	AVG RT: 8.798

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032059.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4467208	24818	29754	16.589

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032071.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4595160	25529	29754	14.2

В

D

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Fax: 908 789 8922

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2543

DataFile: FB032085.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4594906	25527	29754	14.206

С

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Analytical Sequence

Client: CDM Smith SDG No.: Q2543

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:

MEAN SUROGATE RT FROM	INITIAL CALIBRATION	8.798			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 9:08	FB032059.D	8.796	
VBF0710S1	VBF0710S1	10 Jul 2025 9:50	FB032060.D	8.797	
BSF0710S1	BSF0710S1	10 Jul 2025 10:45	FB032062.D	8.798	
TP-41	Q2543-01	10 Jul 2025 12:36	FB032065.D	8.798	
TP-23	Q2543-03	10 Jul 2025 13:31	FB032067.D	8.799	
TP-23-99	Q2543-04	10 Jul 2025 13:59	FB032068.D	8.798	
BSF0710S2	BSF0710S2	10 Jul 2025 14:54	FB032070.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 15:22	FB032071.D	8.800	
TP-49	Q2543-02	10 Jul 2025 16:52	FB032073.D	8.800	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 23:17	FB032085.D	8.799	

С