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

LAB CHRONICLE

OrderID:	Q2529	**OrderDate:**	7/8/2025 3:36:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	**TP-91**	**SOIL**			**07/03/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	**TP-80**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	**TP-79**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	**TP-95**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	**TP-98**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-06	**TP-102**	**SOIL**			**07/07/25**			**07/08/25**
			Diesel Range Organics	8015D		07/16/25	07/17/25	

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

LAB CHRONICLE

			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
Q2529-07	**TP-101**	**SOIL**			**07/07/25**		**07/08/25**
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/10/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
Q2529-08	**TP-89**	**SOIL**			**07/08/25**		**07/08/25**
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
Q2529-09	**TP-33**	**SOIL**			**07/08/25**		**07/08/25**
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
Q2529-10	**TP-30**	**SOIL**			**07/08/25**		**07/08/25**
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/10/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.9 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016305.D	1	07/16/25 10:00	07/16/25 15:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10200		186	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.4		37 - 130	57%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016306.D	1	07/16/25 10:00	07/16/25 15:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	24100		186	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.5		37 - 130	78%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016307.D	1	07/16/25 10:00	07/16/25 16:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8560		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016165.D	1	07/16/25 10:00	07/16/25 14:18	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4190		202	1990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.9 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016166.D	1	07/16/25 10:00	07/16/25 14:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4130		194	1910	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	58%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	95.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016183.D	2	07/16/25 10:00	07/17/25 9:58	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	38600		353	3480	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.78		37 - 130	78%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016168.D	1	07/16/25 10:00	07/16/25 15:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	30300		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	57%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.1 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016169.D	1	07/16/25 10:00	07/16/25 16:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5490		187	1850	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.1		37 - 130	51%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.5 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016172.D	1	07/16/25 10:00	07/16/25 18:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2700		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.9		37 - 130	54%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016173.D	1	07/16/25 10:00	07/16/25 18:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4180		185	1820	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.2		37 - 130	61%	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.
() = Laboratory InHouse Limit

QC SUMMARY

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

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2529

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016162.D	98				0
PIBLK-FF016170.D	92				0
PIBLK-FF016177.D	101				0
PIBLK-FF016180.D	112				0
PIBLK-FF016184.D	111				0
PIBLK-FG016300.D	91				0
PIBLK-FG016308.D	93				0
PIBLK-FG016313.D	93				0
PB168878BL	88				0
PB168878BS	85				0
TP-91	57				0
TP-80	78				0
TP-79	59				0
TP-95	59				0
TP-98	58				0
TP-102	78				0
TP-101	57				0
TP-89	51				0
TP-33	54				0
TP-30	61				0
TP-23-99MS	62				0
TP-23-99MSD	59				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : TP-23-99MS **Datafile:** FG016311.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7793	4230	10586	82%		68-131

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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : TP-23-99MSD **Datafile:** FG016312.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7801	4230	10604	82%		68-131

MS/MSD % Recovery RPD : 0.2

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

SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2529

Client Sample ID : PB168878BS **Datafile:** FG016304.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	5498	83	68-131

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

4B

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168878BL

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Lab File ID: FG016303.D Lab Sample ID: PB168878BL

Instrument ID: FG Date Extracted: 07/16/2025

Matrix: (soil/water) Soil Date Analyzed: 07/16/25

Level: (low/med) low Time Analyzed: 14:18

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-95	Q2529-04	FF016165.D	07/16/25
TP-98	Q2529-05	FF016166.D	07/16/25
TP-101	Q2529-07	FF016168.D	07/16/25
TP-89	Q2529-08	FF016169.D	07/16/25
TP-33	Q2529-09	FF016172.D	07/16/25
TP-30	Q2529-10	FF016173.D	07/16/25
TP-102	Q2529-06	FF016183.D	07/17/25
PB168878BS	PB168878BS	FG016304.D	07/16/25
TP-91	Q2529-01	FG016305.D	07/16/25
TP-80	Q2529-02	FG016306.D	07/16/25
TP-79	Q2529-03	FG016307.D	07/16/25
TP-23-99MS	Q2543-04MS	FG016311.D	07/16/25
TP-23-99MSD	Q2543-04MSD	FG016312.D	07/16/25

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BL	SDG No.:	Q2529
Lab Sample ID:	PB168878BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016303.D	1	07/16/25 10:00	07/16/25 14:18	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.6		37 - 130	88%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016162.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016162.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016162.D	1		07/16/25	FF071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.6		29 - 130	98%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016170.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016170.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016170.D	1		07/16/25	FF071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		29 - 130	92%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016177.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016177.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016177.D	1		07/16/25	FF071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.2		29 - 130	101%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/17/25
Project:	South River WM Replacement	Date Received:	07/17/25
Client Sample ID:	PIBLK-FF016180.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016180.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016180.D	1		07/17/25	FF071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	22.3		29 - 130	112%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/17/25
Project:	South River WM Replacement	Date Received:	07/17/25
Client Sample ID:	PIBLK-FF016184.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016184.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016184.D	1		07/17/25	FF071725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	22.3		29 - 130	111%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016300.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016300.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016300.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.3		29 - 130	91%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016308.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016308.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016308.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.7		29 - 130	93%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016313.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016313.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016313.D	1		07/16/25	FG071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.6		29 - 130	93%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BS	SDG No.:	Q2529
Lab Sample ID:	PB168878BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016304.D	1	07/16/25 10:00	07/16/25 14:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5500		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.0		37 - 130	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MS	SDG No.:	Q2529
Lab Sample ID:	Q2543-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016311.D	1	07/16/25 10:00	07/16/25 18:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.3		37 - 130	62%	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MSD	SDG No.:	Q2529
Lab Sample ID:	Q2543-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016312.D	1	07/16/25 10:00	07/16/25 19:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2529

Calibration Sequence : FF071025		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	104463293	104463	FF016130.D
500	56348110	112696	FF016131.D
200	23430036	117150	FF016132.D
100	12876046	128760	FF016133.D
50	5695447	113909	FF016134.D

AVG RF : 115396 **% RSD : 7.638** **AVG RT : 15.1002**

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2529

Calibration Sequence : FG070925		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	107457449	107457	FG016264.D
500	53927299	107855	FG016265.D
200	23004292	115021	FG016266.D
100	12319443	123194	FG016267.D
50	6076250	121525	FG016268.D
AVG RF : 115010	**% RSD : 6.414**		**AVG RT : 15.201**

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FF016163.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64445768	128892	115396	11.695

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FF016171.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57646303	115293	115396	0.089

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FF016178.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63725868	127452	115396	10.448

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FF016181.D Analyst Name: YP\AJ Analyst Date: 07-17-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	67327496	134655	115396	16.689

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FF016185.D Analyst Name: YP\AJ Analyst Date: 07-17-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57422086	114844	115396	0.478

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FG016301.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	54750916	109502	115010	4.789

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FG016309.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56207865	112416	115010	2.255

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2529

DataFile: FG016314.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56814336	113629	115010	1.201

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

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2529

Project: South River WM Replacement **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.1002**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	16 Jul 2025 12:08	FF016162.D	15.097	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 12:40	FF016163.D	15.100	
TP-95	Q2529-04	16 Jul 2025 14:18	FF016165.D	15.096	
TP-98	Q2529-05	16 Jul 2025 14:47	FF016166.D	15.096	
TP-101	Q2529-07	16 Jul 2025 15:47	FF016168.D	15.097	
TP-89	Q2529-08	16 Jul 2025 16:17	FF016169.D	15.095	
PIBLK02	I.BLK02	16 Jul 2025 16:47	FF016170.D	15.096	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FF016171.D	15.097	
TP-33	Q2529-09	16 Jul 2025 18:16	FF016172.D	15.094	
TP-30	Q2529-10	16 Jul 2025 18:46	FF016173.D	15.094	
PIBLK03	I.BLK03	16 Jul 2025 20:45	FF016177.D	15.093	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 22:44	FF016178.D	15.094	
PIBLK04	I.BLK04	17 Jul 2025 08:28	FF016180.D	15.090	
50 PPM TRPH STD	50 PPM TRPH STD	17 Jul 2025 08:58	FF016181.D	15.093	
TP-102	Q2529-06	17 Jul 2025 09:58	FF016183.D	15.089	
PIBLK05	I.BLK05	17 Jul 2025 10:28	FF016184.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	17 Jul 2025 11:59	FF016185.D	15.092	
PIBLK06	I.BLK06	16 Jul 2025 12:08	FG016300.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 12:40	FG016301.D	15.204	
PB168878BL	PB168878BL	16 Jul 2025 14:18	FG016303.D	15.198	
PB168878BS	PB168878BS	16 Jul 2025 14:47	FG016304.D	15.199	
TP-91	Q2529-01	16 Jul 2025 15:17	FG016305.D	15.199	
TP-80	Q2529-02	16 Jul 2025 15:47	FG016306.D	15.200	
TP-79	Q2529-03	16 Jul 2025 16:17	FG016307.D	15.201	
PIBLK07	I.BLK07	16 Jul 2025 16:47	FG016308.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FG016309.D	15.203	
TP-23-99MS	Q2543-04MS	16 Jul 2025 18:46	FG016311.D	15.199	
TP-23-99MSD	Q2543-04MSD	16 Jul 2025 19:16	FG016312.D	15.199	
PIBLK08	I.BLK08	16 Jul 2025 19:46	FG016313.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 20:45	FG016314.D	15.201	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.101	15.301

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
Data File : FF016167.D
Signal(s) : FID2B.ch
Acq On : 16 Jul 2025 15:17
Operator : YP\AJ
Sample : Q2529-06
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-102

Integration File: autoint1.e
Quant Time: Jul 17 03:37:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.097	1648304	16.927 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

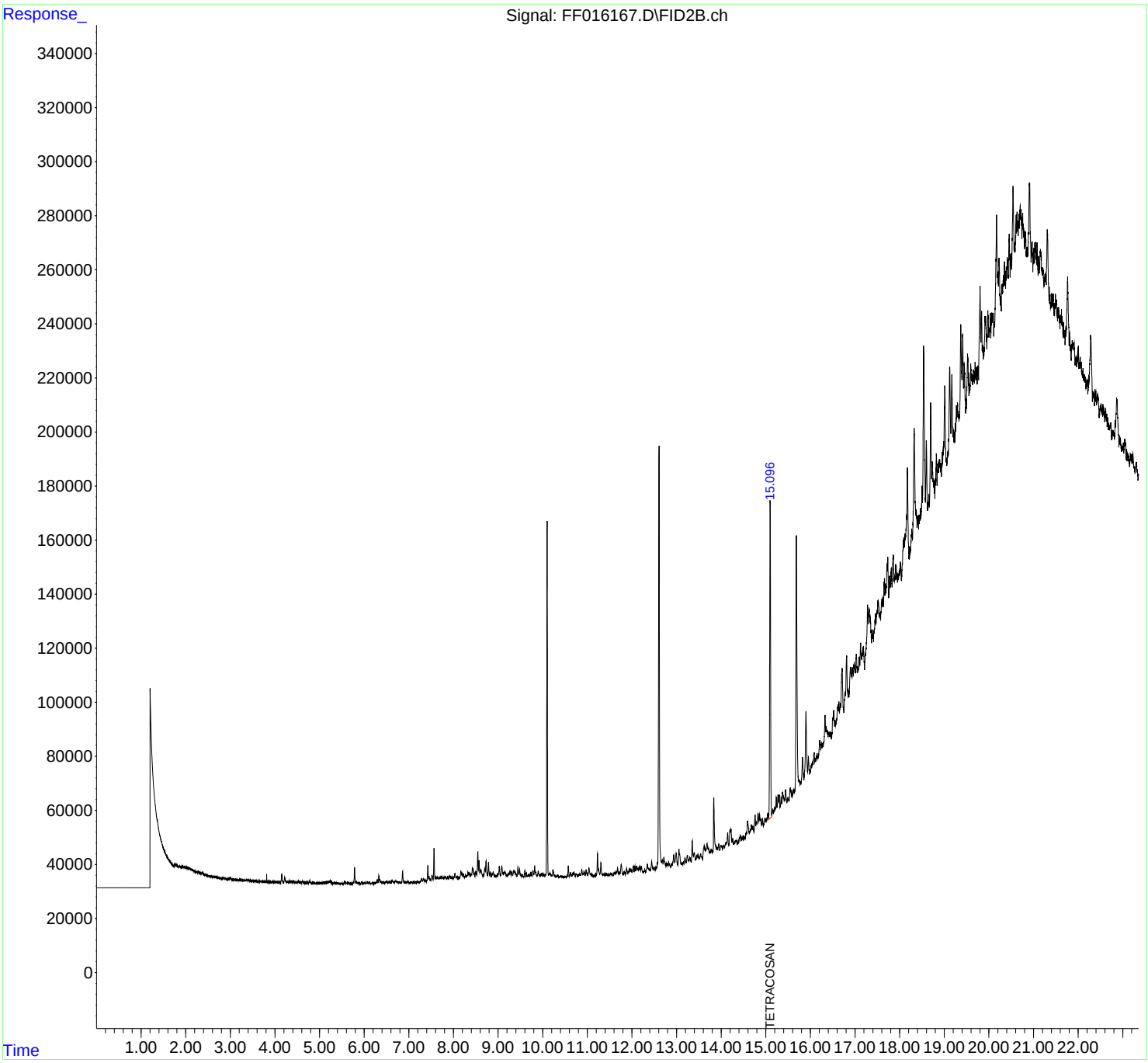
Quantitation Report (QT Reviewed)

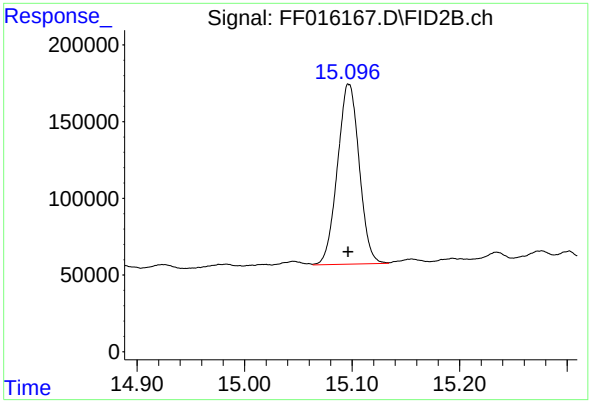
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
Data File : FF016167.D
Signal(s) : FID2B.ch
Acq On : 16 Jul 2025 15:17
Operator : YP\AJ
Sample : Q2529-06
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-102

Integration File: autoint1.e
Quant Time: Jul 17 03:37:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.097 min
Delta R.T.: 0.000 min
Response: 1648304
Conc: 16.93 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-102

A
B
C
D
E
F
G

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
Data File : FF016167.D
Signal(s) : FID2B.ch
Acq On : 16 Jul 2025 15:17
Sample : Q2529-06
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.329	4.297	4.349	HH	2339	67130	1.49%	0.051%
2	4.359	4.349	4.369	HH	2243	25819	0.57%	0.020%
3	4.381	4.369	4.398	HH	2336	38842	0.86%	0.029%
4	4.409	4.398	4.450	HH	2121	64124	1.42%	0.048%
5	4.485	4.450	4.505	HH	2015	63846	1.42%	0.048%
6	4.525	4.505	4.545	HH	2334	50062	1.11%	0.038%
7	4.565	4.545	4.593	HH	2144	55669	1.23%	0.042%
8	4.619	4.593	4.640	HH	2438	57848	1.28%	0.044%
9	4.653	4.640	4.684	HH	2009	50671	1.12%	0.038%
10	4.691	4.684	4.719	HH	1941	37762	0.84%	0.029%
11	4.736	4.719	4.759	HH	1842	42365	0.94%	0.032%
12	4.779	4.759	4.821	HH	2829	74064	1.64%	0.056%
13	4.847	4.821	4.866	HH	2015	49215	1.09%	0.037%
14	4.868	4.866	4.924	HH	1842	57093	1.27%	0.043%
15	4.927	4.924	4.937	HH	1731	13205	0.29%	0.010%
16	4.950	4.937	4.990	HH	1894	53986	1.20%	0.041%
17	4.994	4.990	5.008	HH	1693	17785	0.39%	0.013%
18	5.016	5.008	5.021	HH	1702	13034	0.29%	0.010%
19	5.025	5.021	5.041	HH	1717	18916	0.42%	0.014%
20	5.064	5.041	5.069	HH	1801	28531	0.63%	0.022%
21	5.082	5.069	5.107	HH	1776	40084	0.89%	0.030%
22	5.127	5.107	5.142	HH	1974	39533	0.88%	0.030%
23	5.246	5.142	5.262	HH	2510	148832	3.30%	0.112%
24	5.271	5.262	5.305	HH	1918	44222	0.98%	0.033%
25	5.329	5.305	5.361	HH	1996	57545	1.28%	0.043%
26	5.369	5.361	5.388	HH	1582	24682	0.55%	0.019%
27	5.402	5.388	5.421	HH	1735	32504	0.72%	0.025%
28	5.423	5.421	5.426	HH	1666	5235	0.12%	0.004%
29	5.432	5.426	5.447	HH	1675	20364	0.45%	0.015%
30	5.451	5.447	5.484	HH	1527	32111	0.71%	0.024%
31	5.493	5.484	5.522	HH	1512	33125	0.73%	0.025%
32	5.559	5.522	5.586	HH	2402	67020	1.49%	0.051%
33	5.596	5.586	5.610	HH	1735	23618	0.52%	0.018%
34	5.628	5.610	5.680	HH	1880	68316	1.51%	0.052%
35	5.687	5.680	5.707	HH	1569	25249	0.56%	0.019%
36	5.719	5.707	5.734	HH	1494	23359	0.52%	0.018%

37	5.757	5.734	5.764	HH	1864	30349	0.67%	0.023%
38	5.784	5.764	5.819	HH	7514	114008	2.53%	0.086%
39	5.830	5.819	5.847	HH	2162	31862	0.71%	0.024%
40	5.852	5.847	5.868	HH	1733	20935	0.46%	0.016%
41	5.871	5.868	5.915	HH	1678	43879	0.97%	0.033%
42	5.942	5.915	5.968	HH	2078	54695	1.21%	0.041%
43	5.999	5.968	6.003	HH	1682	34173	0.76%	0.026%
44	6.018	6.003	6.037	HH	1878	34325	0.76%	0.026%
45	6.046	6.037	6.051	HH	1727	14095	0.31%	0.011%
46	6.070	6.051	6.086	HH	1994	38488	0.85%	0.029%
47	6.111	6.086	6.150	HH	1925	65706	1.46%	0.050%
48	6.156	6.150	6.164	HH	1617	12994	0.29%	0.010%
49	6.168	6.164	6.172	HH	1625	7746	0.17%	0.006%
50	6.179	6.172	6.199	HH	1765	26992	0.60%	0.020%
51	6.231	6.199	6.254	HH	1748	52993	1.17%	0.040%
52	6.290	6.254	6.309	HH	2800	69317	1.54%	0.052%
53	6.328	6.309	6.388	HH	4444	126596	2.81%	0.096%
54	6.394	6.388	6.414	HH	2129	31143	0.69%	0.024%
55	6.431	6.414	6.457	HH	2124	48044	1.07%	0.036%
56	6.476	6.457	6.487	HH	2190	35962	0.80%	0.027%
57	6.501	6.487	6.544	HH	2292	68496	1.52%	0.052%
58	6.583	6.544	6.602	HH	2157	67671	1.50%	0.051%
59	6.624	6.602	6.649	HH	2912	64765	1.44%	0.049%
60	6.654	6.649	6.659	HH	2015	11899	0.26%	0.009%
61	6.670	6.659	6.676	HH	2010	19809	0.44%	0.015%
62	6.705	6.676	6.719	HH	2491	58044	1.29%	0.044%
63	6.735	6.719	6.766	HH	2386	59057	1.31%	0.045%
64	6.785	6.766	6.809	HH	2123	50098	1.11%	0.038%
65	6.814	6.809	6.819	HH	1757	10360	0.23%	0.008%
66	6.860	6.819	6.891	HH	6100	124419	2.76%	0.094%
67	6.899	6.891	6.929	HH	2053	44588	0.99%	0.034%
68	6.939	6.929	6.957	HH	2111	34086	0.76%	0.026%
69	6.982	6.957	7.008	HH	2434	61358	1.36%	0.046%
70	7.019	7.008	7.027	HH	1736	19179	0.43%	0.014%
71	7.052	7.027	7.089	HH	2098	71213	1.58%	0.054%
72	7.112	7.089	7.144	HH	2204	65465	1.45%	0.049%
73	7.155	7.144	7.173	HH	1951	32962	0.73%	0.025%
74	7.195	7.173	7.215	HH	2420	53296	1.18%	0.040%
75	7.225	7.215	7.241	HH	2013	30570	0.68%	0.023%
76	7.282	7.241	7.309	HH	3319	105288	2.33%	0.080%
77	7.327	7.309	7.347	HH	3430	66591	1.48%	0.050%
78	7.363	7.347	7.394	HH	2843	71107	1.58%	0.054%
79	7.426	7.394	7.442	HH	8140	131548	2.92%	0.099%
80	7.454	7.442	7.473	HH	4188	67513	1.50%	0.051%
81	7.477	7.473	7.491	HH	2910	30555	0.68%	0.023%
82	7.521	7.491	7.543	HH	4435	112813	2.50%	0.085%
83	7.564	7.543	7.590	HH	14520	199693	4.43%	0.151%
84	7.607	7.590	7.626	HH	3917	76923	1.71%	0.058%
85	7.638	7.626	7.669	HH	3748	91653	2.03%	0.069%
86	7.689	7.669	7.697	HH	3689	58924	1.31%	0.045%
87	7.739	7.697	7.771	HH	4080	164186	3.64%	0.124%
88	7.793	7.771	7.812	HH	3858	91972	2.04%	0.069%
89	7.818	7.812	7.844	HH	3877	70465	1.56%	0.053%

90	7.870	7.844	7.898	HH	3831	117575	2.61%	0.089%
91	7.920	7.898	7.947	HH	4297	114089	2.53%	0.086%
92	7.969	7.947	7.986	HH	3848	85282	1.89%	0.064%
93	8.030	7.986	8.060	HH	5203	181847	4.03%	0.137%
94	8.076	8.060	8.102	HH	4088	96354	2.14%	0.073%
95	8.120	8.102	8.138	HH	3756	78370	1.74%	0.059%
96	8.168	8.138	8.186	HH	5772	137851	3.06%	0.104%
97	8.196	8.186	8.212	HH	5106	74957	1.66%	0.057%
98	8.223	8.212	8.251	HH	5031	102325	2.27%	0.077%
99	8.269	8.251	8.290	HH	4734	99105	2.20%	0.075%
100	8.327	8.290	8.343	HH	5582	150196	3.33%	0.113%
101	8.357	8.343	8.384	HH	5312	118221	2.62%	0.089%
102	8.398	8.384	8.411	HH	5289	77590	1.72%	0.059%
103	8.425	8.411	8.434	HH	7447	91020	2.02%	0.069%
104	8.440	8.434	8.457	HH	6883	82981	1.84%	0.063%
105	8.467	8.457	8.481	HH	5384	70374	1.56%	0.053%
106	8.503	8.481	8.524	HH	5732	130881	2.90%	0.099%
107	8.546	8.524	8.561	HH	13308	197778	4.38%	0.149%
108	8.574	8.561	8.591	HH	10080	140777	3.12%	0.106%
109	8.618	8.591	8.667	HH	6537	248485	5.51%	0.188%
110	8.700	8.667	8.712	HH	6914	149561	3.32%	0.113%
111	8.731	8.712	8.763	HH	9866	213729	4.74%	0.161%
112	8.785	8.763	8.807	HH	9375	171473	3.80%	0.130%
113	8.822	8.807	8.836	HH	5942	89277	1.98%	0.067%
114	8.844	8.836	8.857	HH	4859	59696	1.32%	0.045%
115	8.891	8.857	8.942	HH	5862	242899	5.38%	0.184%
116	8.947	8.942	8.957	HH	4252	38685	0.86%	0.029%
117	8.983	8.957	9.001	HH	4811	117756	2.61%	0.089%
118	9.030	9.001	9.061	HH	7882	203459	4.51%	0.154%
119	9.083	9.061	9.111	HH	7954	185627	4.11%	0.140%
120	9.127	9.111	9.135	HH	5344	75363	1.67%	0.057%
121	9.151	9.135	9.181	HH	5982	148046	3.28%	0.112%
122	9.195	9.181	9.208	HH	4769	72793	1.61%	0.055%
123	9.273	9.208	9.292	HH	6276	264751	5.87%	0.200%
124	9.305	9.292	9.325	HH	5829	102609	2.27%	0.078%
125	9.347	9.325	9.357	HH	6141	105565	2.34%	0.080%
126	9.365	9.357	9.388	HH	6112	105053	2.33%	0.079%
127	9.394	9.388	9.410	HH	5170	64701	1.43%	0.049%
128	9.418	9.410	9.427	HH	4633	44143	0.98%	0.033%
129	9.446	9.427	9.469	HH	7605	149029	3.30%	0.113%
130	9.484	9.469	9.527	HH	6754	181289	4.02%	0.137%
131	9.540	9.527	9.568	HH	4694	107720	2.39%	0.081%
132	9.600	9.568	9.618	HH	6361	147345	3.27%	0.111%
133	9.633	9.618	9.647	HH	5334	83395	1.85%	0.063%
134	9.684	9.647	9.703	HH	4999	147692	3.27%	0.112%
135	9.737	9.703	9.756	HH	5811	154743	3.43%	0.117%
136	9.779	9.756	9.801	HH	6285	138276	3.07%	0.104%
137	9.820	9.801	9.836	HH	7904	134874	2.99%	0.102%
138	9.844	9.836	9.877	HH	5838	119607	2.65%	0.090%
139	9.901	9.877	9.934	HH	6119	173595	3.85%	0.131%
140	9.939	9.934	9.946	HH	4458	31470	0.70%	0.024%
141	9.967	9.946	9.994	HH	5230	137965	3.06%	0.104%

142	10.004	9.994	10.017	HH	4686	65576	1.45%	0.050%
143	10.027	10.017	10.047	HH	4954	82682	1.83%	0.062%
144	10.099	10.047	10.131	HH	135552	1576003	34.94%	1.191%
145	10.148	10.131	10.156	HH	5267	77547	1.72%	0.059%
146	10.162	10.156	10.187	HH	5209	90664	2.01%	0.069%
147	10.196	10.187	10.212	HH	4514	65410	1.45%	0.049%
148	10.232	10.212	10.289	HH	6640	228931	5.07%	0.173%
149	10.309	10.289	10.319	HH	4216	74329	1.65%	0.056%
150	10.337	10.319	10.374	HH	4642	140832	3.12%	0.106%
151	10.407	10.374	10.436	HH	4410	150836	3.34%	0.114%
152	10.454	10.436	10.466	HH	4060	72370	1.60%	0.055%
153	10.471	10.466	10.491	HH	3984	59118	1.31%	0.045%
154	10.507	10.491	10.527	HH	4168	87162	1.93%	0.066%
155	10.540	10.527	10.547	HH	4178	48686	1.08%	0.037%
156	10.573	10.547	10.599	HH	7979	172352	3.82%	0.130%
157	10.621	10.599	10.643	HH	5487	126824	2.81%	0.096%
158	10.677	10.643	10.692	HH	5468	142684	3.16%	0.108%
159	10.706	10.692	10.730	HH	5442	112455	2.49%	0.085%
160	10.749	10.730	10.801	HH	5126	194279	4.31%	0.147%
161	10.822	10.801	10.858	HH	5040	162168	3.59%	0.123%
162	10.876	10.858	10.910	HH	6660	173685	3.85%	0.131%
163	10.926	10.910	10.944	HH	6043	108017	2.39%	0.082%
164	10.973	10.944	11.009	HH	6684	208273	4.62%	0.157%
165	11.035	11.009	11.065	HH	7326	199128	4.41%	0.150%
166	11.073	11.065	11.087	HH	4956	64000	1.42%	0.048%
167	11.107	11.087	11.148	HH	4933	166208	3.68%	0.126%
168	11.155	11.148	11.160	HH	4306	31779	0.70%	0.024%
169	11.193	11.160	11.205	HH	5003	124492	2.76%	0.094%
170	11.228	11.205	11.245	HH	12575	197300	4.37%	0.149%
171	11.251	11.245	11.281	HH	6738	126139	2.80%	0.095%
172	11.304	11.281	11.336	HH	9283	210325	4.66%	0.159%
173	11.366	11.336	11.385	HH	4987	142120	3.15%	0.107%
174	11.429	11.385	11.466	HH	5001	232184	5.15%	0.175%
175	11.485	11.466	11.499	HH	4895	94571	2.10%	0.071%
176	11.515	11.499	11.519	HH	4945	58186	1.29%	0.044%
177	11.538	11.519	11.566	HH	5281	139321	3.09%	0.105%
178	11.608	11.566	11.631	HH	5410	197061	4.37%	0.149%
179	11.649	11.631	11.660	HH	5843	98755	2.19%	0.075%
180	11.678	11.660	11.700	HH	7369	146060	3.24%	0.110%
181	11.704	11.700	11.709	HH	5281	28259	0.63%	0.021%
182	11.724	11.709	11.736	HH	5511	87196	1.93%	0.066%
183	11.759	11.736	11.799	HH	8597	251294	5.57%	0.190%
184	11.833	11.799	11.852	HH	5619	169428	3.76%	0.128%
185	11.882	11.852	11.902	HH	7009	176349	3.91%	0.133%
186	11.941	11.902	11.967	HH	7211	243575	5.40%	0.184%
187	11.975	11.967	12.004	HH	6435	136277	3.02%	0.103%
188	12.032	12.004	12.049	HH	8060	185536	4.11%	0.140%
189	12.066	12.049	12.083	HH	7976	142691	3.16%	0.108%
190	12.100	12.083	12.121	HH	7780	159587	3.54%	0.121%
191	12.131	12.121	12.143	HH	7100	92812	2.06%	0.070%
192	12.161	12.143	12.169	HH	7344	110156	2.44%	0.083%
193	12.181	12.169	12.198	HH	7807	123805	2.74%	0.094%
194	12.214	12.198	12.246	HH	7854	193131	4.28%	0.146%

195	12.254	12.246	12.264	HH	5875	62613	1.39%	0.047%
196	12.288	12.264	12.306	HH	6455	151900	3.37%	0.115%
197	12.348	12.306	12.382	HH	8579	328234	7.28%	0.248%
198	12.395	12.382	12.412	HH	6978	119261	2.64%	0.090%
199	12.442	12.412	12.482	HH	9745	327925	7.27%	0.248%
200	12.490	12.482	12.493	HH	7064	46745	1.04%	0.035%
201	12.504	12.493	12.524	HH	7454	128767	2.85%	0.097%
202	12.539	12.524	12.548	HH	7342	103095	2.29%	0.078%
203	12.571	12.548	12.579	HH	9455	155821	3.45%	0.118%
204	12.608	12.579	12.666	HH	162577	2438158	54.05%	1.842%
205	12.682	12.666	12.697	HH	10223	179454	3.98%	0.136%
206	12.715	12.697	12.751	HH	11128	316685	7.02%	0.239%
207	12.760	12.751	12.764	HH	8729	68347	1.52%	0.052%
208	12.768	12.764	12.775	HH	8699	55376	1.23%	0.042%
209	12.791	12.775	12.810	HH	8914	182138	4.04%	0.138%
210	12.824	12.810	12.866	HH	9239	281138	6.23%	0.212%
211	12.887	12.866	12.902	HH	8854	178797	3.96%	0.135%
212	12.936	12.902	12.957	HH	12054	336449	7.46%	0.254%
213	12.992	12.957	13.030	HH	12653	450264	9.98%	0.340%
214	13.055	13.030	13.104	HH	14246	484966	10.75%	0.366%
215	13.121	13.104	13.125	HH	8950	113370	2.51%	0.086%
216	13.132	13.125	13.137	HH	8927	64138	1.42%	0.048%
217	13.155	13.137	13.167	HH	9475	165526	3.67%	0.125%
218	13.187	13.167	13.210	HH	10961	255517	5.66%	0.193%
219	13.243	13.210	13.272	HH	11989	392087	8.69%	0.296%
220	13.294	13.272	13.327	HH	11010	336537	7.46%	0.254%
221	13.352	13.327	13.378	HH	17335	402797	8.93%	0.304%
222	13.394	13.378	13.429	HH	12992	360630	7.99%	0.272%
223	13.448	13.429	13.453	HH	11734	154943	3.43%	0.117%
224	13.456	13.453	13.464	HH	11709	80244	1.78%	0.061%
225	13.465	13.464	13.473	HH	11669	59312	1.31%	0.045%
226	13.483	13.473	13.509	HH	12181	249091	5.52%	0.188%
227	13.542	13.509	13.580	HH	12512	485249	10.76%	0.367%
228	13.622	13.580	13.646	HH	15634	541464	12.00%	0.409%
229	13.683	13.646	13.742	HH	16327	838220	18.58%	0.633%
230	13.748	13.742	13.759	HH	13345	132196	2.93%	0.100%
231	13.778	13.759	13.801	HH	14256	342785	7.60%	0.259%
232	13.807	13.801	13.812	HH	13426	90383	2.00%	0.068%
233	13.835	13.812	13.891	HH	33181	907390	20.12%	0.686%
234	13.907	13.891	13.920	HH	14854	247257	5.48%	0.187%
235	13.944	13.920	13.970	HH	16096	450653	9.99%	0.340%
236	13.989	13.970	14.001	HH	15604	272296	6.04%	0.206%
237	14.005	14.001	14.031	HH	15578	271167	6.01%	0.205%
238	14.053	14.031	14.061	HH	15570	277304	6.15%	0.210%
239	14.065	14.061	14.077	HH	15382	137823	3.06%	0.104%
240	14.096	14.077	14.101	HH	16476	233468	5.18%	0.176%
241	14.146	14.101	14.169	HH	20137	704653	15.62%	0.532%
242	14.198	14.169	14.208	HH	21470	439946	9.75%	0.332%
243	14.219	14.208	14.240	HH	21412	379313	8.41%	0.287%
244	14.259	14.240	14.280	HH	18109	419807	9.31%	0.317%
245	14.324	14.280	14.367	HH	17334	879838	19.50%	0.665%
246	14.430	14.367	14.450	HH	19331	881603	19.54%	0.666%

247	14.463	14.450	14.473	HH	18433	249012	5.52%	0.188%
248	14.495	14.473	14.511	HH	19121	426806	9.46%	0.322%
249	14.530	14.511	14.536	HH	18663	276323	6.13%	0.209%
250	14.564	14.536	14.569	HH	20306	384645	8.53%	0.291%
251	14.591	14.569	14.631	HH	24631	816529	18.10%	0.617%
252	14.676	14.631	14.694	HH	23325	820633	18.19%	0.620%
253	14.709	14.694	14.735	HH	22811	533303	11.82%	0.403%
254	14.760	14.735	14.775	HH	26859	570388	12.64%	0.431%
255	14.792	14.775	14.802	HH	24497	397914	8.82%	0.301%
256	14.826	14.802	14.844	HH	27458	630627	13.98%	0.476%
257	14.861	14.844	14.877	HH	27061	521220	11.55%	0.394%
258	14.882	14.877	14.904	HH	25143	394106	8.74%	0.298%
259	14.924	14.904	14.945	HH	25403	590521	13.09%	0.446%
260	14.983	14.945	14.999	HH	25728	791750	17.55%	0.598%
261	15.019	14.999	15.025	HH	25537	399920	8.87%	0.302%
262	15.046	15.025	15.064	HH	27563	608401	13.49%	0.460%
263	15.097	15.064	15.134	HH	142804	2732698	60.58%	2.065%
264	15.156	15.134	15.173	HH	29189	648310	14.37%	0.490%
265	15.194	15.173	15.210	HH	29553	638451	14.15%	0.482%
266	15.234	15.210	15.251	HH	33498	763957	16.94%	0.577%
267	15.276	15.251	15.288	HH	34388	723370	16.04%	0.547%
268	15.302	15.288	15.323	HH	34374	674694	14.96%	0.510%
269	15.343	15.323	15.357	HH	33333	650422	14.42%	0.491%
270	15.376	15.357	15.413	HH	35152	1111458	24.64%	0.840%
271	15.421	15.413	15.425	HH	32592	230121	5.10%	0.174%
272	15.442	15.425	15.465	HH	36302	817279	18.12%	0.617%
273	15.486	15.465	15.494	HH	33414	572022	12.68%	0.432%
274	15.502	15.494	15.524	HH	33102	585149	12.97%	0.442%
275	15.552	15.524	15.592	HH	37100	1424676	31.58%	1.076%
276	15.614	15.592	15.627	HH	36069	731983	16.23%	0.553%
277	15.640	15.627	15.644	HH	35591	369140	8.18%	0.279%
278	15.684	15.644	15.742	HH	130309	3701130	82.05%	2.796%
279	15.756	15.742	15.770	HH	39878	647594	14.36%	0.489%
280	15.783	15.770	15.788	HH	39161	419365	9.30%	0.317%
281	15.822	15.788	15.854	HH	48224	1684475	37.34%	1.273%
282	15.900	15.854	15.934	HH	65375	2396988	53.14%	1.811%
283	15.954	15.934	15.984	HH	48525	1350997	29.95%	1.021%
284	15.993	15.984	15.998	HH	43522	357740	7.93%	0.270%
285	16.023	15.998	16.028	HH	45198	793116	17.58%	0.599%
286	16.054	16.028	16.062	HH	46732	953696	21.14%	0.721%
287	16.084	16.062	16.099	HH	49918	1055151	23.39%	0.797%
288	16.114	16.099	16.119	HH	47817	561780	12.45%	0.424%
289	16.151	16.119	16.164	HH	49573	1320096	29.26%	0.997%
290	16.210	16.164	16.231	HH	54428	2035849	45.13%	1.538%
291	16.248	16.231	16.261	HH	53717	936913	20.77%	0.708%
292	16.268	16.261	16.287	HH	53268	852582	18.90%	0.644%
293	16.327	16.287	16.343	HH	63704	1935089	42.90%	1.462%
294	16.356	16.343	16.396	HH	59711	1819027	40.32%	1.374%
295	16.405	16.396	16.428	HH	57325	1094901	24.27%	0.827%
296	16.440	16.428	16.446	HH	57601	628675	13.94%	0.475%
297	16.449	16.446	16.461	HH	56960	487499	10.81%	0.368%
298	16.466	16.461	16.475	HH	57402	480616	10.65%	0.363%
299	16.496	16.475	16.503	HH	62731	983103	21.79%	0.743%

rteres

300	16.523	16.503	16.542	HH	65478	1491853	33.07%	1.127%
301	16.554	16.542	16.561	HH	61854	672052	14.90%	0.508%
302	16.584	16.561	16.589	HH	62353	1026173	22.75%	0.775%
303	16.618	16.589	16.624	HH	67348	1394255	30.91%	1.053%
304	16.637	16.624	16.652	HH	68824	1116337	24.75%	0.843%
305	16.666	16.652	16.676	HH	68132	953492	21.14%	0.720%
306	16.707	16.676	16.749	HH	81222	3191206	70.74%	2.411%
307	16.774	16.749	16.779	HH	72194	1243526	27.57%	0.940%
308	16.812	16.779	16.852	HH	85811	3335236	73.94%	2.520%
309	16.856	16.852	16.864	HH	71869	495570	10.99%	0.374%
310	16.893	16.864	16.897	HH	80785	1508356	33.44%	1.140%
311	16.901	16.897	16.918	HH	81534	1018333	22.57%	0.769%
312	16.940	16.918	16.959	HH	81556	1920338	42.57%	1.451%
313	16.981	16.959	17.010	HH	83188	2503466	55.50%	1.891%
314	17.030	17.010	17.054	HH	86245	2184088	48.42%	1.650%
315	17.061	17.054	17.075	HH	81839	1030634	22.85%	0.779%
316	17.093	17.075	17.108	HH	85407	1637629	36.30%	1.237%
317	17.126	17.108	17.153	HH	90403	2300964	51.01%	1.738%
318	17.171	17.153	17.176	HH	88005	1195183	26.49%	0.903%
319	17.183	17.176	17.189	HH	89119	713739	15.82%	0.539%
320	17.190	17.189	17.214	HH	88964	1269850	28.15%	0.959%
321	17.282	17.214	17.296	HH	104673	4510991	100.00%	3.408%
322	17.312	17.296	17.336	HH	103359	2408947	53.40%	1.820%
323	17.344	17.336	17.371	HH	99907	2010119	44.56%	1.519%
324	17.387	17.371	17.406	HH	95253	1968458	43.64%	1.487%
325	17.458	17.406	17.472	HH	101258	3854407	85.44%	2.912%

Sum of corrected areas: 132354035

FF071025.M Thu Jul 17 05:05:28 2025