

LAB CHRONICLE

OrderID: Q1206

Client: RU2 Engineering, LLC

Contact: Rutu Manani

OrderDate: 1/28/2025 11:18:51 AM

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Location: E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1206-01	JPP-20.1-012725	SOIL			01/27/25			01/28/25
			Diesel Range Organics	8015D		01/29/25	01/30/25	
			Gasoline Range Organics	8015D			01/29/25	
Q1206-05	JPP-16.3-012725	SOIL			01/27/25			01/28/25
			Diesel Range Organics	8015D		01/29/25	01/30/25	
			Gasoline Range Organics	8015D			01/29/25	



.

В



F

SAMPLE DATA





Client: RU2 Engineering, LLC Date Collected: 01/27/25

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-20.1-012725 SDG No.: Q1206

Lab Sample ID: Q1206-01 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 85.5 Decanted:

Sample Wt/Vol: 4.99 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

FB031369.D 1 01/29/25 15:01 FB012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	53.0	U	9.00	53.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluorot	to 16.5		50 - 150	83%	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.





Client: RU2 Engineering, LLC Date Collected: 01/27/25

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received: 01/28/25

Client Sample ID: JPP-16.3-012725 SDG No.: Q1206

Lab Sample ID: Q1206-05 Matrix: SOIL

Analytical Method: 8015D GRO % Solid: 85.9 Decanted:

Sample Wt/Vol: 5.09 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

FB031370.D 1 01/29/25 15:28 FB012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	51.0	U	9.00	51.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluorot	to 12.8		50 - 150	64%	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.



QC SUMMARY

В

С

E

ī



SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Client: Chemtech RU2 Engineering, LLC Lab Code: CHEM Case No.: Q1206 SAS No.: Q1206 SDG No.: Q1206 **EPA** S1 S2 S3 S4 TOT SAMPLE NO. OUT AAA-TFT VBF0129S1 0 86 BSF0129S1 94 0 BSF0129S2 88 0 JPP-20.1-012725 83 0 JPP-16.3-012725 64 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



Fax: 908 789 8922

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

Lab Name:	Chemtech			Client:	RU2 Engineering,	, LLC	
Lab Code:	СНЕМ	Cas No:	Q1206	SAS No:	Q1206	SDG No:	Q1206

Matrix Spike - EPA Sample No: BSF0129S1 Datafile: FB031359.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	205	114	50-150

Α

В

D





Fax: 908 789 8922

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

 Lab Name:
 Chemtech
 Client:
 RU2 Engineering, LLC

 Lab Code:
 CHEM
 Cas No:
 Q1206
 SAS No:
 Q1206
 SDG No:
 Q1206

Matrix Spike - EPA Sample No: BSF0129S2 Datafile: FB031367.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	183	102	50-150

LCS/LCSD % Recovery RPD : 10.14



В









Fax: 908 789 8922

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0129S1

Lab Name: CHEMTECH Contract: RUTW01

Lab File ID: FB031357.D Lab Sample ID: VBF0129S1

Date Analyzed: 01/29/25 Time Analyzed: 9:17

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
BSF0129S1	BSF0129S1	FB031359.D	01/29/25
BSF0129S2	BSF0129S2	FB031367.D	01/29/25
JPP-20.1-012725	Q1206-01	FB031369.D	01/29/25
JPP-16.3-012725	Q1206-05	FB031370.D	01/29/25

COMMENTS:		

A

_

Е

F



Α





_

QC SAMPLE DATA





Client: RU2 Engineering, LLC Date Collected:

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received:

Client Sample ID: VBF0129S1 SDG No.: Q1206
Lab Sample ID: VBF0129S1 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
FB031357.D 1 01/29/25 9:17 FB012925

Qualifier MDL Units(Dry Weight) **CAS Number Parameter** Conc. LOQ / CRQL **TARGETS GRO GRO** 45.0 U 8.00 45.0 ug/kg **SURROGATES** 98-08-8 Alpha, Alpha, Alpha-Trifluoroto 17.1 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: RU2 Engineering, LLC Date Collected:

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received:

Client Sample ID: BSF0129S1 SDG No.: Q1206
Lab Sample ID: BSF0129S1 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

FB031359.D 1 01/29/25 10:11 FB012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	205		8.00	45.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluorot	o 18.9		50 - 150	94%	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: RU2 Engineering, LLC Date Collected:

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR Date Received:

Client Sample ID: BSF0129S2 SDG No.: Q1206
Lab Sample ID: BSF0129S2 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

FB031367.D 1 01/29/25 14:07 FB012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS GRO	GRO	183		8.00	45.0	ug/kg
SURROGATES 98-08-8	Alpha,Alpha,Alpha-Trifluoro	to 17.6		50 - 150	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.











Α

В

С

Е

CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name:	Chemtech	Contract:	RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1206 SAS No.: Q1206 SDG No.: Q1206

Calibration Sequence : FB011525		Test : Gasoline Ra	ange Organics
Concentration (PPB)	Area Count	Reference Factor	File ID
45	1619248	35983	FB031307.D
90	2849383	31660	FB031308.D
180	5927461	32930	FB031309.D
450	17402832	38673	FB031310.D
900	36014388	40016	FB031311.D
AVC DE - 25952		/ DSD + 10 001	AVC DT - 9 799

AVG RF: 35852 % RSD: 10.001 AVG RT: 8.7886

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

Fax: 908 789 8922

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech	Contract:	RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1206 SAS No.: Q1206 SDG No.: Q1206

DataFile: FB031356.D Analyst Name: YP/AJ Analyst Date: 01-29-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6971344	38730	35852	8.027

ь

E

ŀ

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

Fax: 908 789 8922

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech	Contract:	RUTW01
			

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1206 SAS No.: Q1206 SDG No.: Q1206

DataFile: FB031368.D Analyst Name: YP/AJ Analyst Date: 01-29-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6618938	36772	35852	2.566

В

Е

F

Fax: 908 789 8922

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name:	Chemtech	Contract:	RUTW01
	·		

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1206 SAS No.: Q1206 SDG No.: Q1206

DataFile: FB031374.D Analyst Name: YP/AJ Analyst Date: 01-29-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6660371	37002	35852	3.208



Fax: 908 789 8922

Analytical Sequence

Client: RU2 Engineering, LLC SDG No.: Q1206

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR 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 8.7886					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	29 Jan 2025 8:39	FB031356.D	8.789	
VBF0129S1	VBF0129S1	29 Jan 2025 9:17	FB031357.D	8.793	
BSF0129S1	BSF0129S1	29 Jan 2025 10:11	FB031359.D	8.796	
BSF0129S2	BSF0129S2	29 Jan 2025 14:07	FB031367.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	29 Jan 2025 14:34	FB031368.D	8.795	
JPP-20.1-012725	Q1206-01	29 Jan 2025 15:01	FB031369.D	8.795	
JPP-16.3-012725	Q1206-05	29 Jan 2025 15:28	FB031370.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	29 Jan 2025 17:15	FB031374.D	8.794	

A

С

E