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

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : NYSDOT TWO BRONX RIVER PARKWAY BRIDGES

JPCL ENGINEERING

41-14 29th Street

Long Island City, NY - 11101

Phone No: 917-985-0770

ORDER ID : Q1487

ATTENTION : Paul Rotondi

Laboratory Certification ID # 20012

Table Of Contents for Q1487

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

Cover Page

Order ID : Q1487

Project ID : NYSDOT Two Bronx River Parkway Bridges

Client : JPCL Engineering

Lab Sample Number	Client Sample Number
Q1487-01	DN-B-42

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 3/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JPCL Engineering
Project Name: NYSDOT Two Bronx River Parkway Bridges
Project # N/A
Chemtech Project # Q1487
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 03/04/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB, Pesticide-TCL and SVOC-TCL BNA -20. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB166984BS} with File ID: BF141860.D met requirements for all samples except for 4-Nitroaniline[106%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression

The Continuous Calibration File ID BF141835.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitroaniline,4,6-Dinitro-2-methylphenol,4-

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Nitroaniline and 4-Nitrophenol , The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141858.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Benzo(g,h,i)perylene and Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The date and time of sampling were not listed in the COC.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature_____

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CASE NARRATIVE

JPCL Engineering
Project Name: NYSDOT Two Bronx River Parkway Bridges
Project # N/A
Chemtech Project # Q1487
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 03/04/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB, Pesticide-TCL and SVOC-TCL BNA -20. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The date and time of sampling were not listed in the COC.
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

JPCL Engineering
Project Name: NYSDOT Two Bronx River Parkway Bridges
Project # N/A
Chemtech Project # Q1487
Test Name: PCB

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 03/04/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB, Pesticide-TCL and SVOC-TCL BNA -20. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The date and time of sampling were not listed in the COC.
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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CASE NARRATIVE

JPCL Engineering
Project Name: NYSDOT Two Bronx River Parkway Bridges
Project # N/A
Chemtech Project # Q1487
Test Name: Metals ICP-RCRA,Mercury

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 03/04/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB, Pesticide-TCL and SVOC-TCL BNA -20. This data package contains results for Metals ICP-RCRA,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-RCRA was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
The Date and time of sampling was not listed in the COC.

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Signature_____

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1487

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 03/17/2025

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

LAB CHRONICLE

OrderID:	Q1487	**OrderDate:**	3/4/2025 3:33:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1487-01	**DN-B-42**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1487

Client: JPCL Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**DN-B-42**								
Q1487-01	DN-B-42	SOIL	9-Octadecenamide, (Z)-	*	140.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Benzophenone	*	240.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	JB	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Decane, 5-propyl-	*	330.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Dodecane, 2-methyl-6-propyl-	*	370.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Eicosane	*	320.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Heneicosane	*	230.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Heptacosane	*	180.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Hexadecane	*	390.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Hexadecane, 2,6,10,14-tetramethy	*	360.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Naphthalene, 1,4-dimethyl-	*	100.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Nonadecane	*	370.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Octacosane	*	120.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Octadecane, 1-iodo-	*	97.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Pentadecafluorooctanoic acid, oct	*	190.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Pentadecane, 2,6,10-trimethyl-	*	1,000.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tetracosane	*	490.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tetradecane	*	210.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tridecane	*	310.000	J	0	0	ug/Kg
			Total Tics :		**7,047.00**				
			Total Concentration:		**7,047.00**				

SAMPLE DATA

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	370	U	210	370	ug/Kg
108-95-2	Phenol	190	U	93.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	94.8	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	94.5	190	ug/Kg
95-48-7	2-Methylphenol	190	U	91.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	100	190	ug/Kg
98-86-2	Acetophenone	190	U	98.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	370	U	90.3	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.6	U	45.6	90.6	ug/Kg
67-72-1	Hexachloroethane	190	U	94.0	190	ug/Kg
98-95-3	Nitrobenzene	190	U	100	190	ug/Kg
78-59-1	Isophorone	190	U	95.8	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	97.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.5	190	ug/Kg
91-20-3	Naphthalene	190	U	93.5	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	93.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	94.3	190	ug/Kg
105-60-2	Caprolactam	370	U	98.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	87.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	93.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	370	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	80.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	83.8	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	98.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	94.3	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	190	U	92.5	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	U	97.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	94.2	190	ug/Kg
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	91.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	370	U	280	370	ug/Kg
100-02-7	4-Nitrophenol	370	U	130	370	ug/Kg
132-64-9	Dibenzofuran	190	U	95.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	97.6	190	ug/Kg
84-66-2	Diethylphthalate	190	U	90.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	96.9	190	ug/Kg
86-73-7	Fluorene	190	U	96.8	190	ug/Kg
100-01-6	4-Nitroaniline	190	UQ	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	370	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	92.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	89.3	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	96.2	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	370	U	87.5	370	ug/Kg
85-01-8	Phenanthrene	190	U	95.1	190	ug/Kg
120-12-7	Anthracene	190	U	95.5	190	ug/Kg
86-74-8	Carbazole	190	U	90.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	95.4	190	ug/Kg
206-44-0	Fluoranthene	190	U	92.5	190	ug/Kg
129-00-0	Pyrene	190	U	94.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	370	U	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	190	U	91.4	190	ug/Kg
218-01-9	Chrysene	190	U	90.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	370	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	190	U	91.8	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	190	U	93.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	U	88.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	91.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	190	U	90.7	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	98.3	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	117		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.1		18 - 107	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.4		20 - 109	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	119		10 - 116	79%	SPK: 150
1718-51-0	Terphenyl-d14	58.5		10 - 105	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.887			
1146-65-2	Naphthalene-d8	691000	8.163			
15067-26-2	Acenaphthene-d10	343000	9.916			
1517-22-2	Phenanthrene-d10	518000	11.404			
1719-03-5	Chrysene-d12	403000	14.033			
1520-96-3	Perylene-d12	460000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB		2.17	ug/Kg
000629-59-4	Tetradecane	210	J		9.32	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	100	J		9.57	ug/Kg
017312-62-8	Decane, 5-propyl-	330	J		9.64	ug/Kg
055045-08-4	Dodecane, 2-methyl-6-propyl-	370	J		9.85	ug/Kg
000630-02-4	Octacosane	120	J		10.2	ug/Kg
000544-76-3	Hexadecane	390	J		10.3	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000629-50-5	Tridecane	310	J		10.6	ug/Kg
000119-61-9	Benzophenone	240	J		10.6	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	1000	J		10.8	ug/Kg
000646-31-1	Tetracosane	490	J		11.3	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	360	J		11.3	ug/Kg
000629-93-6	Octadecane, 1-iodo-	97.0	J		11.7	ug/Kg
000629-92-5	Nonadecane	370	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
000112-95-8	Eicosane	320	J		12.1	ug/Kg
000629-94-7	Heneicosane	230	J		12.5	ug/Kg
000593-49-7	Heptacosane	180	J		12.9	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	140	J		13.5	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	190	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		18	112
		Phenol-d6	150	119	79		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.5	91		20	109
		2,4,6-Tribromophenol	150	167	111		10	116
		Terphenyl-d14	100	82.5	83		10	105
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		18	112
		Phenol-d6	150	116	77		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.3	91		20	109
		2,4,6-Tribromophenol	150	166	110		10	116
		Terphenyl-d14	100	94.9	95		10	105
Q1487-01	DN-B-42	2-Fluorophenol	150	117	78		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	98.1	98		18	107
		2-Fluorobiphenyl	100	81.4	81		20	109
		2,4,6-Tribromophenol	150	119	79		10	116
		Terphenyl-d14	100	58.5	59		10	105
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	102	68		15	107
		Nitrobenzene-d5	100	87.4	87		18	107
		2-Fluorobiphenyl	100	73.3	73		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	55.5	56		10	105
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		18	112
		Phenol-d6	150	104	70		15	107
		Nitrobenzene-d5	100	89.9	90		18	107
		2-Fluorobiphenyl	100	75.0	75		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	56.9	57		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MS		**Client Sample ID: DN-B-42MS**						**DataFile: BF141844.D**			
Benzaldehyde	1900	0	850	ug/Kg	45				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1600	ug/Kg	84				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				66	104	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				59	119	
Hexachloroethane	1900	0	1600	ug/Kg	84				65	117	
Nitrobenzene	1900	0	1800	ug/Kg	95				70	119	
Isophorone	1900	0	1600	ug/Kg	84				76	122	
2-Nitrophenol	1900	0	1900	ug/Kg	100				54	145	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	910	ug/Kg	48				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	1900	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				59	123	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				10	175	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				72	117	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				72	117	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				75	113	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				67	118	
2-Nitroaniline	1900	0	1900	ug/Kg	100				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1700	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70	125	
3-Nitroaniline	1900	0	1300	ug/Kg	68				30	99	
Acenaphthene	1900	0	1700	ug/Kg	89				70	121	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				10	155	
4-Nitrophenol	3800	0	4200	ug/Kg	111				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				55	128	
Diethylphthalate	1900	0	1500	ug/Kg	79				70	112	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				71	108	
Fluorene	1900	0	1600	ug/Kg	84				68	116	
4-Nitroaniline	1900	0	1900	ug/Kg	100				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				10	160	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				73	118	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				65	121	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				67	118	
Atrazine	1900	0	2400	ug/Kg	126				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84				47	128	
Phenanthrene	1900	0	1700	ug/Kg	89				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1700	ug/Kg	89				59	119	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				69	118	
Fluoranthene	1900	0	1500	ug/Kg	79				44	125	
Pyrene	1900	0	1400	ug/Kg	74				26	142	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				64	126	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				67	121	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68				40	129	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68				43	123	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				69	124	
1,4-Dioxane	1900	0	1600	ug/Kg	84				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MSD		**Client Sample ID: DN-B-42MSD**						**DataFile: BF141845.D**			
Benzaldehyde	1900	0	860	ug/Kg	45	0			10	86	20
Phenol	1900	0	1700	ug/Kg	89	6			67	126	20
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84	0			54	125	20
2-Chlorophenol	1900	0	1700	ug/Kg	89	6			79	107	20
2-Methylphenol	1900	0	1600	ug/Kg	84	0			66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74	0			65	110	20
Acetophenone	1900	0	1800	ug/Kg	95	7			75	111	20
3+4-Methylphenols	1900	0	1600	ug/Kg	84	0			66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74	0			59	119	20
Hexachloroethane	1900	0	1600	ug/Kg	84	0			65	117	20
Nitrobenzene	1900	0	1800	ug/Kg	95	0			70	119	20
Isophorone	1900	0	1600	ug/Kg	84	0			76	122	20
2-Nitrophenol	1900	0	1900	ug/Kg	100	0			54	145	20
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105	0			44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79	0			68	112	20
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84	0			72	118	20
Naphthalene	1900	0	1600	ug/Kg	84	0			72	110	20
4-Chloroaniline	1900	0	950	ug/Kg	50	4			10	91	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84	0			66	114	20
Caprolactam	1900	0	1900	ug/Kg	100	0			51	134	20
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84	0			57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79	0			59	123	20
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129	2			10	175	20
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95	7			72	117	20
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95	0			72	117	20
1,1-Biphenyl	1900	0	1900	ug/Kg	100	5			75	113	20
2-Chloronaphthalene	1900	0	1700	ug/Kg	89	0			67	118	20
2-Nitroaniline	1900	0	2000	ug/Kg	105	5			69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84	0			70	113	20
Acenaphthylene	1900	0	1800	ug/Kg	95	7			79	118	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100	0			70	125	20
3-Nitroaniline	1900	0	1400	ug/Kg	74	8			30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95	7			70	121	20
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74	4			10	155	20
4-Nitrophenol	3800	0	4300	ug/Kg	113	2			45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84	0			72	110	20
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111	6			55	128	20
Diethylphthalate	1900	0	1500	ug/Kg	79	0			70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84	6			71	108	20
Fluorene	1900	0	1600	ug/Kg	84	0			68	116	20
4-Nitroaniline	1900	0	2000	ug/Kg	105	5			55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84	6			10	160	20
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89	7			73	118	20
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89	0			65	121	20
Hexachlorobenzene	1900	0	1700	ug/Kg	89	0			67	118	20
Atrazine	1900	0	2400	ug/Kg	126	0			79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84	0			47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89	0			52	128	20
Anthracene	1900	0	1700	ug/Kg	89	0			62	124	20
Carbazole	1900	0	1700	ug/Kg	89	0			59	119	20
Di-n-butylphthalate	1900	0	1500	ug/Kg	79	0			69	118	20
Fluoranthene	1900	0	1600	ug/Kg	84	6			44	125	20
Pyrene	1900	0	1400	ug/Kg	74	0			26	142	20
Butylbenzylphthalate	1900	0	1400	ug/Kg	74	0			64	126	20
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95	0			33	116	20
Benzo(a)anthracene	1900	0	1700	ug/Kg	89	0			71	114	20
Chrysene	1900	0	1700	ug/Kg	89	6			57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79	7			42	169	20
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95	7			23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89	6			67	121	20
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79	0			57	134	20
Benzo(a)pyrene	1900	0	1800	ug/Kg	95	7			70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	0			40	129	20
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74	8			43	123	20
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100	5			69	124	20
1,4-Dioxane	1900	0	1600	ug/Kg	84	0			46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89	0			69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				10	133	
	Phenol	1700	1300	ug/Kg	76				62	112	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1300	ug/Kg	76				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1300	ug/Kg	76				58	111	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1600	ug/Kg	94				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	400	ug/Kg	24				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	850	ug/Kg	50				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				37	128	
	4-Nitrophenol	3300	3800	ug/Kg	115				48	119	
	Dibenzofuran	1700	1300	ug/Kg	76				63	99	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	2000	ug/Kg	118				47	152	
	Pentachlorophenol	3300	3000	ug/Kg	91				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
DN-B-42	Q1487-01	BF141846.D	03/05/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	93.2
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	84.3
443	15.0 - 24.0% of mass 442	16.7 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141835.D	03/05/2025	10:09
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
DN-B-42	Q1487-01	BF141846.D	03/05/2025	16:21

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	94.6
443	15.0 - 24.0% of mass 442	18.6 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	246608	6.887	945299	8.17	507589	9.92
	UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
	LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
	EPA SAMPLE NO.						
01	DN-B-42	183000	6.89	691002	8.16	343341	9.92
02	DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
03	DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	873644	11.404	595765	14.045	513355	15.51
	UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
	LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
	EPA SAMPLE NO.						
01	DN-B-42	517666	11.40	403116	14.03	459662	15.51
02	DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
03	DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	207866	6.887	779725	8.17	422269	9.92
	UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
	LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
	EPA SAMPLE NO.						
01	PB166984BL	218862	6.89	871720	8.16	477596	9.92
02	PB166984BS	222677	6.89	860348	8.17	467040	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	691934	11.404	434521	14.045	382575	15.515
	UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
	LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
	EPA SAMPLE NO.						
01	PB166984BL	848035	11.40	691946	14.04	552165	15.51
02	PB166984BS	801941	11.41	537472	14.05	470320	15.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	180	330	ug/Kg
108-95-2	Phenol	170	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	170	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	90.9	170	ug/Kg
98-86-2	Acetophenone	170	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	170	U	90.8	170	ug/Kg
78-59-1	Isophorone	170	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	75.5	170	ug/Kg
91-20-3	Naphthalene	170	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	83.3	170	ug/Kg
105-60-2	Caprolactam	330	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	81.7	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	170	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	170	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	120	330	ug/Kg
132-64-9	Dibenzofuran	170	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	170	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	85.6	170	ug/Kg
86-73-7	Fluorene	170	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	85.0	170	ug/Kg
1912-24-9	Atrazine	170	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	170	U	84.0	170	ug/Kg
120-12-7	Anthracene	170	U	84.4	170	ug/Kg
86-74-8	Carbazole	170	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	170	U	81.7	170	ug/Kg
129-00-0	Pyrene	170	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	80.7	170	ug/Kg
218-01-9	Chrysene	170	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	81.1	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		10 - 116	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	ug/Kg

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Report of Analysis

Client:	JPCL Engineering			Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges			Date Received:	
Client Sample ID:	PB166984BL			SDG No.:	Q1487
Lab Sample ID:	PB166984BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	116		15 - 107	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		10 - 116	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		10 - 105	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	102		15 - 107	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

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Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	104		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		18 - 107	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF1418
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo(a)anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo(b)fluoranthene	1.362	1.368		0.4	
Benzo(k)fluoranthene	1.158	1.057		-8.7	
Benzo(a)pyrene	1.093	1.074		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.310		2.8	
Dibenzo(a,h)anthracene	1.040	1.067		2.6	
Benzo(g,h,i)perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo(a)anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo(b)fluoranthene	1.362	1.388		1.9	
Benzo(k)fluoranthene	1.158	1.073		-7.3	
Benzo(a)pyrene	1.093	1.113		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.507		18.3	
Dibenzo(a,h)anthracene	1.040	1.220		17.3	
Benzo(g,h,i)perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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LAB CHRONICLE

OrderID:	Q1487	**OrderDate:**	3/4/2025 3:33:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1487-01	**DN-B-42**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	
			Pesticide-TCL	8081B		03/05/25	03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1487 **Order ID:** Q1487

Client: JPCL Engineering **Project ID:** NYSDOT Two Bronx River Parkway I

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094519.D	1	03/05/25 09:10	03/05/25 19:35	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.90	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	1.90	U	0.56	1.90	ug/kg
319-86-8	delta-BHC	1.90	U	0.53	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	1.90	U	0.22	1.90	ug/kg
76-44-8	Heptachlor	1.90	U	0.19	1.90	ug/kg
309-00-2	Aldrin	1.90	U	0.16	1.90	ug/kg
1024-57-3	Heptachlor epoxide	1.90	U	0.26	1.90	ug/kg
959-98-8	Endosulfan I	1.90	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	1.90	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	1.90	U	0.15	1.90	ug/kg
72-20-8	Endrin	1.90	U	0.18	1.90	ug/kg
33213-65-9	Endosulfan II	1.90	U	0.34	1.90	ug/kg
72-54-8	4,4-DDD	1.90	U	0.22	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	1.90	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	1.90	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	1.90	U	0.43	1.90	ug/kg
53494-70-5	Endrin ketone	1.90	U	0.25	1.90	ug/kg
7421-93-4	Endrin aldehyde	1.90	U	0.44	1.90	ug/kg
5103-71-9	alpha-Chlordane	1.90	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	1.90	U	0.22	1.90	ug/kg
8001-35-2	Toxaphene	37.4	U	5.90	37.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		20 - 144	99%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.0		19 - 148	120%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094519.D	1	03/05/25 09:10	03/05/25 19:35	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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,
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Surrogate Summary

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL094323.D	PIBLK-PL094323.D	Decachlorobiphenyl	1	20	24.7	123		43	140
		Tetrachloro-m-xylene	1	20	23.3	116		77	126
		Decachlorobiphenyl	2	20	23.6	118		43	140
		Tetrachloro-m-xylene	2	20	22.8	114		77	126
I.BLK-PL094497.D	PIBLK-PL094497.D	Decachlorobiphenyl	1	20	22.5	113		43	140
		Tetrachloro-m-xylene	1	20	22.8	114		77	126
		Decachlorobiphenyl	2	20	21.1	106		43	140
		Tetrachloro-m-xylene	2	20	21.8	109		77	126
PB166986BL	PB166986BL	Decachlorobiphenyl	1	20	25.1	126		20	144
		Tetrachloro-m-xylene	1	20	22.3	111		19	148
		Decachlorobiphenyl	2	20	23.4	117		20	144
		Tetrachloro-m-xylene	2	20	21.5	108		19	148
PB166986BS	PB166986BS	Decachlorobiphenyl	1	20	22.9	114		20	144
		Tetrachloro-m-xylene	1	20	21.6	108		19	148
		Decachlorobiphenyl	2	20	21.6	108		20	144
		Tetrachloro-m-xylene	2	20	19.7	99		19	148
I.BLK-PL094510.D	PIBLK-PL094510.D	Decachlorobiphenyl	1	20	22.3	112		43	140
		Tetrachloro-m-xylene	1	20	22.5	112		77	126
		Decachlorobiphenyl	2	20	21.9	110		43	140
		Tetrachloro-m-xylene	2	20	21.9	109		77	126
Q1485-01MS	DN-B-41MS	Decachlorobiphenyl	1	20	21.8	109		20	144
		Tetrachloro-m-xylene	1	20	26.0	130		19	148
		Decachlorobiphenyl	2	20	18.4	92		20	144
		Tetrachloro-m-xylene	2	20	25.3	126		19	148
Q1485-01MSD	DN-B-41MSD	Decachlorobiphenyl	1	20	22.2	111		20	144
		Tetrachloro-m-xylene	1	20	25.8	129		19	148
		Decachlorobiphenyl	2	20	18.4	92		20	144
		Tetrachloro-m-xylene	2	20	24.9	124		19	148
Q1487-01	DN-B-42	Decachlorobiphenyl	1	20	19.7	99		20	144
		Tetrachloro-m-xylene	1	20	23.3	116		19	148
		Decachlorobiphenyl	2	20	18.1	90		20	144
		Tetrachloro-m-xylene	2	20	24.0	120		19	148
I.BLK-PL094520.D	PIBLK-PL094520.D	Decachlorobiphenyl	1	20	21.9	110		43	140
		Tetrachloro-m-xylene	1	20	22.9	115		77	126
		Decachlorobiphenyl	2	20	19.2	96		43	140
		Tetrachloro-m-xylene	2	20	22.5	113		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8081B **DataFile :** PL094516.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**DN-B-41MS**											
Q1485-01MS	alpha-BHC	20.01	0	20.5	ug/kg	102				60	144	
	beta-BHC	20.01	0	21.2	ug/kg	106				54	143	
	delta-BHC	20.01	0	20.8	ug/kg	104				29	151	
	gamma-BHC (Lindane)	20.01	0	20.4	ug/kg	102				61	140	
	Heptachlor	20.01	0	21.4	ug/kg	107				63	135	
	Aldrin	20.01	0	20.3	ug/kg	101				49	139	
	Heptachlor epoxide	20.01	0	20.7	ug/kg	103				41	156	
	Endosulfan I	20.01	0	21.2	ug/kg	106				56	142	
	Dieldrin	20.01	0	21.3	ug/kg	106				47	161	
	4,4'-DDE	20.01	0	21.1	ug/kg	105				55	136	
	Endrin	20.01	0	24.9	ug/kg	124				57	139	
	Endosulfan II	20.01	0	21.6	ug/kg	108				40	163	
	4,4'-DDD	20.01	0	23.6	ug/kg	118				47	163	
	Endosulfan sulfate	20.01	0	22.2	ug/kg	111				62	139	
	4,4'-DDT	20.01	0	21.4	ug/kg	107				51	146	
	Methoxychlor	20.01	0	23.3	ug/kg	116				54	136	
	Endrin ketone	20.01	0	20.0	ug/kg	100				60	129	
	Endrin aldehyde	20.01	0	20.1	ug/kg	100				59	132	
	alpha-Chlordane	20.01	0	21.2	ug/kg	106				39	166	
	gamma-Chlordane	20.01	0	21.2	ug/kg	106				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8081B **DataFile :** PL094517.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**DN-B-41MSD**											
Q1485-01MSD	alpha-BHC	20	0	20.2	ug/kg	101		1		60	144	20
	beta-BHC	20	0	21.0	ug/kg	105		1		54	143	20
	delta-BHC	20	0	20.6	ug/kg	103		1		29	151	20
	gamma-BHC (Lindane)	20	0	20.1	ug/kg	101		1		61	140	20
	Heptachlor	20	0	21.0	ug/kg	105		2		63	135	20
	Aldrin	20	0	20.2	ug/kg	101		0		49	139	20
	Heptachlor epoxide	20	0	20.7	ug/kg	104		1		41	156	20
	Endosulfan I	20	0	20.9	ug/kg	104		2		56	142	20
	Dieldrin	20	0	21.2	ug/kg	106		0		47	161	20
	4,4'-DDE	20	0	21.1	ug/kg	106		1		55	136	20
	Endrin	20	0	24.4	ug/kg	122		2		57	139	20
	Endosulfan II	20	0	21.4	ug/kg	107		1		40	163	20
	4,4'-DDD	20	0	24.0	ug/kg	120		2		47	163	20
	Endosulfan sulfate	20	0	22.1	ug/kg	111		0		62	139	20
	4,4'-DDT	20	0	21.6	ug/kg	108		1		51	146	20
	Methoxychlor	20	0	23.5	ug/kg	117		1		54	136	20
	Endrin ketone	20	0	20.3	ug/kg	102		2		60	129	20
	Endrin aldehyde	20	0	20.6	ug/kg	103		3		59	132	20
	alpha-Chlordane	20	0	21.1	ug/kg	106		0		39	166	20
	gamma-Chlordane	20	0	21.2	ug/kg	106		0		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8081B **Datafile :** PL094501.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166986BS	alpha-BHC	16.66	17.1	ug/kg	103				84	123	
	beta-BHC	16.66	17.6	ug/kg	106				82	123	
	delta-BHC	16.66	17.4	ug/kg	104				83	126	
	gamma-BHC (Lindane)	16.66	16.9	ug/kg	101				83	125	
	Heptachlor	16.66	18.1	ug/kg	109				83	122	
	Aldrin	16.66	17.2	ug/kg	103				82	124	
	Heptachlor epoxide	16.66	17.9	ug/kg	107				83	120	
	Endosulfan I	16.66	18.0	ug/kg	108				81	124	
	Dieldrin	16.66	18.1	ug/kg	109				85	121	
	4,4'-DDE	16.66	19.0	ug/kg	114				81	123	
	Endrin	16.66	20.8	ug/kg	125				76	130	
	Endosulfan II	16.66	19.1	ug/kg	115				80	125	
	4,4'-DDD	16.66	20.3	ug/kg	122				80	131	
	Endosulfan sulfate	16.66	18.5	ug/kg	111				81	122	
	4,4'-DDT	16.66	19.4	ug/kg	116				70	129	
	Methoxychlor	16.66	18.6	ug/kg	112				60	119	
	Endrin ketone	16.66	19.2	ug/kg	115				77	132	
	Endrin aldehyde	16.66	17.6	ug/kg	106				79	124	
	alpha-Chlordane	16.66	18.3	ug/kg	110				84	120	
	gamma-Chlordane	16.66	18.2	ug/kg	109				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166986BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

Lab Sample ID: PB166986BL Lab File ID: PL094500.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 03/05/2025

Date Analyzed (1): 03/05/2025 Date Analyzed (2): 03/05/2025

Time Analyzed (1): 14:46 Time Analyzed (2): 14:46

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166986BS	PB166986BS	PL094501.D	03/05/2025	03/05/2025
DN-B-41MS	Q1485-01MS	PL094516.D	03/05/2025	03/05/2025
DN-B-41MSD	Q1485-01MSD	PL094517.D	03/05/2025	03/05/2025
DN-B-42	Q1487-01	PL094519.D	03/05/2025	03/05/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166986BL	SDG No.:	Q1487
Lab Sample ID:	PB166986BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094500.D	1	03/05/25 09:10	03/05/25 14:46	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.70	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	1.70	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	1.70	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	1.70	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	1.70	U	0.17	1.70	ug/kg
309-00-2	Aldrin	1.70	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	1.70	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	1.70	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	1.70	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	1.70	U	0.13	1.70	ug/kg
72-20-8	Endrin	1.70	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	1.70	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	1.70	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	1.70	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	1.70	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	1.70	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	1.70	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	1.70	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	1.70	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	1.70	U	0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.1		20 - 144	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.3		19 - 148	111%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166986BL	SDG No.:	Q1487
Lab Sample ID:	PB166986BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094500.D	1	03/05/25 09:10	03/05/25 14:46	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	02/21/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	02/21/25
Client Sample ID:	PIBLK-PL094323.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094323.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094323.D	1		02/21/25	pl022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.7		43 - 140	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.3		77 - 126	116%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	02/21/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	02/21/25
Client Sample ID:	PIBLK-PL094323.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094323.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094323.D	1		02/21/25	pl022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094497.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094497.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094497.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.5		43 - 140	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.8		77 - 126	114%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094497.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094497.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094497.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094510.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094510.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094510.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.3		43 - 140	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.5		77 - 126	112%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094510.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094510.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094510.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094520.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094520.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094520.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.9		43 - 140	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.9		77 - 126	115%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PL094520.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PL094520.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094520.D	1		03/05/25	PL030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166986BS	SDG No.:	Q1487
Lab Sample ID:	PB166986BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094501.D	1	03/05/25 09:10	03/05/25 14:59	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.1		0.18	1.70	ug/kg
319-85-7	beta-BHC	17.6		0.49	1.70	ug/kg
319-86-8	delta-BHC	17.4		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.9		0.19	1.70	ug/kg
76-44-8	Heptachlor	18.1		0.17	1.70	ug/kg
309-00-2	Aldrin	17.2		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.9		0.23	1.70	ug/kg
959-98-8	Endosulfan I	18.0		0.17	1.70	ug/kg
60-57-1	Dieldrin	18.1		0.15	1.70	ug/kg
72-55-9	4,4-DDE	19.0		0.13	1.70	ug/kg
72-20-8	Endrin	20.8		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	19.1		0.30	1.70	ug/kg
72-54-8	4,4-DDD	20.3		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	18.5		0.13	1.70	ug/kg
50-29-3	4,4-DDT	19.4		0.17	1.70	ug/kg
72-43-5	Methoxychlor	18.6		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	19.2		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	17.6		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.3		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.2		0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.9		20 - 144	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		19 - 148	108%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166986BS	SDG No.:	Q1487
Lab Sample ID:	PB166986BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094501.D	1	03/05/25 09:10	03/05/25 14:59	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-41MS	SDG No.:	Q1487
Lab Sample ID:	Q1485-01MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	83.1 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094516.D	1	03/05/25 09:10	03/05/25 18:54	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	20.5		0.22	2.00	ug/kg
319-85-7	beta-BHC	21.2		0.59	2.00	ug/kg
319-86-8	delta-BHC	20.8		0.56	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	20.4		0.23	2.00	ug/kg
76-44-8	Heptachlor	21.4		0.20	2.00	ug/kg
309-00-2	Aldrin	20.3		0.17	2.00	ug/kg
1024-57-3	Heptachlor epoxide	20.7		0.28	2.00	ug/kg
959-98-8	Endosulfan I	21.2		0.20	2.00	ug/kg
60-57-1	Dieldrin	21.3		0.18	2.00	ug/kg
72-55-9	4,4-DDE	21.1		0.16	2.00	ug/kg
72-20-8	Endrin	24.9		0.19	2.00	ug/kg
33213-65-9	Endosulfan II	21.6		0.36	2.00	ug/kg
72-54-8	4,4-DDD	23.6		0.23	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	22.2		0.16	2.00	ug/kg
50-29-3	4,4-DDT	21.4		0.20	2.00	ug/kg
72-43-5	Methoxychlor	23.3		0.46	2.00	ug/kg
53494-70-5	Endrin ketone	20.0		0.26	2.00	ug/kg
7421-93-4	Endrin aldehyde	20.1		0.47	2.00	ug/kg
5103-71-9	alpha-Chlordane	21.2		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	21.2		0.23	2.00	ug/kg
8001-35-2	Toxaphene	39.6	U	6.30	39.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.8		20 - 144	109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	26.0		19 - 148	130%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-41MS	SDG No.:	Q1487
Lab Sample ID:	Q1485-01MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	83.1 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094516.D	1	03/05/25 09:10	03/05/25 18:54	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-41MSD	SDG No.:	Q1487
Lab Sample ID:	Q1485-01MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	83.1 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094517.D	1	03/05/25 09:10	03/05/25 19:08	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	20.2		0.22	2.00	ug/kg
319-85-7	beta-BHC	21.0		0.59	2.00	ug/kg
319-86-8	delta-BHC	20.6		0.56	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	20.1		0.23	2.00	ug/kg
76-44-8	Heptachlor	21.0		0.20	2.00	ug/kg
309-00-2	Aldrin	20.2		0.17	2.00	ug/kg
1024-57-3	Heptachlor epoxide	20.7		0.28	2.00	ug/kg
959-98-8	Endosulfan I	20.9		0.20	2.00	ug/kg
60-57-1	Dieldrin	21.2		0.18	2.00	ug/kg
72-55-9	4,4-DDE	21.1		0.16	2.00	ug/kg
72-20-8	Endrin	24.4		0.19	2.00	ug/kg
33213-65-9	Endosulfan II	21.4		0.36	2.00	ug/kg
72-54-8	4,4-DDD	24.0		0.23	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	22.1		0.16	2.00	ug/kg
50-29-3	4,4-DDT	21.6		0.20	2.00	ug/kg
72-43-5	Methoxychlor	23.5		0.46	2.00	ug/kg
53494-70-5	Endrin ketone	20.3		0.26	2.00	ug/kg
7421-93-4	Endrin aldehyde	20.6		0.47	2.00	ug/kg
5103-71-9	alpha-Chlordane	21.1		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	21.2		0.23	2.00	ug/kg
8001-35-2	Toxaphene	39.6	U	6.30	39.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.2		20 - 144	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.8		19 - 148	129%	SPK: 20

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-41MSD	SDG No.:	Q1487
Lab Sample ID:	Q1485-01MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	83.1 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094517.D	1	03/05/25 09:10	03/05/25 19:08	PB166986

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L **Calibration Date(s):** 02/21/2025 02/21/2025

Calibration Times: 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094326.D RT 075 = PL094327.D

RT 050 = PL094328.D RT 025 = PL094329.D RT 005 = PL094330.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
alpha-BHC	3.99	3.99	3.99	3.99	3.99	3.99	3.89	4.09
alpha-Chlordane	6.02	6.01	6.02	6.02	6.01	6.01	5.91	6.11
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.06	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.16	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.32	4.32	4.32	4.33	4.32	4.32	4.22	4.42
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.91	4.91	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L **Calibration Date(s):** 02/21/2025 02/21/2025

Calibration Times: 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094326.D RT 075 = PL094327.D

RT 050 = PL094328.D RT 025 = PL094329.D RT 005 = PL094330.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.78	5.78	5.78	5.78	5.78	5.78	5.68	5.88
4,4'-DDE	5.22	5.22	5.22	5.23	5.22	5.22	5.12	5.32
4,4'-DDT	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
Aldrin	4.22	4.22	4.22	4.22	4.22	4.22	4.12	4.32
alpha-BHC	3.27	3.27	3.27	3.27	3.27	3.27	3.17	3.37
alpha-Chlordane	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
beta-BHC	3.90	3.90	3.90	3.90	3.90	3.90	3.80	4.00
Decachlorobiphenyl	7.90	7.90	7.90	7.91	7.90	7.90	7.80	8.00
delta-BHC	4.13	4.13	4.13	4.13	4.13	4.13	4.03	4.23
Dieldrin	5.36	5.35	5.36	5.36	5.36	5.36	5.26	5.46
Endosulfan I	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Endosulfan II	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Endosulfan sulfate	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
Endrin aldehyde	6.11	6.10	6.11	6.11	6.11	6.11	6.01	6.21
Endrin ketone	6.83	6.83	6.83	6.84	6.83	6.83	6.73	6.93
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
gamma-Chlordane	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.61	6.60	6.61	6.61	6.60	6.60	6.50	6.70
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 10:56 11:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094326.D **CF 075 =** PL094327.D

CF 050 = PL094328.D **CF 025 =** PL094329.D **CF 005 =** PL094330.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1803580000	1795660000	1810310000	1935150000	1904070000	1849750000	4
4,4'-DDE	2493500000	2470740000	2506610000	2704950000	2882800000	2611720000	7
4,4'-DDT	1974760000	1979910000	2019710000	2146120000	2379640000	2100030000	8
Aldrin	3281770000	3217010000	3255180000	3477160000	3927610000	3431750000	9
alpha-BHC	3748810000	3649740000	3623010000	3780620000	4111130000	3782660000	5
alpha-Chlordane	2727770000	2693090000	2738980000	2936760000	3388830000	2897090000	10
beta-BHC	1501030000	1494420000	1485840000	1667440000	1835770000	1596900000	10
Decachlorobiphenyl	1933170000	1963230000	2030640000	2203310000	2505970000	2127260000	11
delta-BHC	3482300000	3394730000	3353250000	3521830000	3939260000	3538270000	7
Dieldrin	2692690000	2671770000	2693570000	2901890000	3285250000	2849030000	9
Endosulfan I	2547690000	2536030000	2605780000	2783760000	3269880000	2748630000	11
Endosulfan II	2275250000	2276760000	2334150000	2535820000	3164240000	2517240000	15
Endosulfan sulfate	2066530000	2082580000	2124320000	2325240000	2720550000	2263840000	12
Endrin	2293020000	2294250000	2335150000	2563130000	3275860000	2552280000	16
Endrin aldehyde	1783210000	1799570000	1847420000	2020050000	2283730000	1946800000	11
Endrin ketone	2341850000	2345380000	2389970000	2583410000	2873950000	2506910000	9
gamma-BHC (Lindane)	3636600000	3544540000	3535300000	3710470000	4046760000	3694740000	6
gamma-Chlordane	2749680000	2723950000	2753190000	2951510000	3502350000	2936140000	11
Heptachlor	3238030000	3195300000	3207600000	3444620000	3866240000	3390360000	8
Heptachlor epoxide	2854740000	2830940000	2868110000	3075040000	3438100000	3013390000	9
Methoxychlor	1034140000	1042330000	1072820000	1161190000	1244730000	1111040000	8
Tetrachloro-m-xylene	2440810000	2429970000	2443520000	2602410000	2778780000	2539100000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L

Calibration Date(s): 02/21/2025 02/21/2025

Calibration Times: 10:56 11:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094326.D **CF 075 =** PL094327.D

CF 050 = PL094328.D **CF 025 =** PL094329.D **CF 005 =** PL094330.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3335160000	3215540000	3139450000	3166740000	3069690000	3185310000	3
4,4'-DDE	4281660000	4182440000	4118800000	4213820000	4203280000	4200000000	1
4,4'-DDT	3703100000	3584290000	3529700000	3537620000	3430330000	3557010000	3
Aldrin	4820710000	4668200000	4536250000	4555960000	4520730000	4620370000	3
alpha-BHC	5213240000	5010060000	4886090000	4788800000	4675760000	4914790000	4
alpha-Chlordane	4373480000	4258810000	4191540000	4303990000	4460210000	4317600000	2
beta-BHC	1965110000	1930080000	1919640000	1976280000	2153520000	1988920000	5
Decachlorobiphenyl	3675900000	3638830000	3681980000	3820210000	4411300000	3845640000	8
delta-BHC	5032580000	4845250000	4682410000	4626330000	4491990000	4735710000	4
Dieldrin	4518600000	4388970000	4327740000	4347710000	4325860000	4381780000	2
Endosulfan I	4036260000	3934540000	3904680000	3979590000	4077800000	3986580000	2
Endosulfan II	3796570000	3715310000	3681290000	3767040000	3737420000	3739530000	1
Endosulfan sulfate	3706520000	3626300000	3609280000	3706820000	3819330000	3693650000	2
Endrin	3538690000	3451940000	3434060000	3498850000	3100040000	3404720000	5
Endrin aldehyde	3123920000	3068890000	3064770000	3158970000	3385600000	3160430000	4
Endrin ketone	4300600000	4199470000	4213040000	4281500000	4343010000	4267520000	1
gamma-BHC (Lindane)	4983380000	4798550000	4658170000	4606370000	4503230000	4709940000	4
gamma-Chlordane	4438420000	4307340000	4231380000	4301670000	4415360000	4338830000	2
Heptachlor	4844080000	4715390000	4629500000	4679640000	4732940000	4720310000	2
Heptachlor epoxide	4316300000	4215090000	4165700000	4257130000	4322680000	4255380000	2
Methoxychlor	1924140000	1903960000	1935750000	2006380000	1984890000	1951030000	2
Tetrachloro-m-xylene	3209080000	3135420000	3127500000	3185970000	3297890000	3191170000	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L **Date(s) Analyzed:** 02/21/2025 02/21/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.23	6.13	6.33	27502600
		2	6.44	6.34	6.54	15755600
		3	7.05	6.95	7.15	85691600
		4	7.15	7.05	7.25	64144500
		5	7.93	7.83	8.03	48033300

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_L **Date(s) Analyzed:** 02/21/2025 02/21/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.00	4.90	5.10	27519700
		2	5.32	5.22	5.42	26638800
		3	5.68	5.58	5.78	28297800
		4	6.59	6.49	6.69	98473700
		5	7.03	6.93	7.13	90711700

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 09:25 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 09:25 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.22	5.22	5.12	5.32	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.83	6.83	6.73	6.93	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094499.D **Time Analyzed:** 09:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.606	6.806	56.100	50.000	12.2
4,4'-DDE	6.191	6.088	6.288	52.160	50.000	4.3
4,4'-DDT	7.022	6.919	7.119	51.890	50.000	3.8
Aldrin	5.255	5.153	5.353	50.110	50.000	0.2
alpha-BHC	3.994	3.891	4.091	50.090	50.000	0.2
alpha-Chlordane	6.017	5.915	6.115	50.460	50.000	0.9
beta-BHC	4.525	4.422	4.622	49.600	50.000	-0.8
Decachlorobiphenyl	9.054	8.949	9.149	48.110	50.000	-3.8
delta-BHC	4.772	4.669	4.869	50.940	50.000	1.9
Dieldrin	6.343	6.240	6.440	50.200	50.000	0.4
Endosulfan I	6.068	5.965	6.165	50.060	50.000	0.1
Endosulfan II	6.793	6.690	6.890	47.610	50.000	-4.8
Endosulfan sulfate	7.158	7.054	7.254	48.590	50.000	-2.8
Endrin	6.571	6.470	6.670	46.480	50.000	-7.0
Endrin aldehyde	6.923	6.820	7.020	50.470	50.000	0.9
Endrin ketone	7.643	7.539	7.739	49.010	50.000	-2.0
gamma-BHC (Lindane)	4.327	4.224	4.424	50.010	50.000	0.0
gamma-Chlordane	5.939	5.835	6.035	49.900	50.000	-0.2
Heptachlor	4.914	4.812	5.012	50.590	50.000	1.2
Heptachlor epoxide	5.682	5.579	5.779	51.910	50.000	3.8
Methoxychlor	7.499	7.396	7.596	51.120	50.000	2.2
Tetrachloro-m-xylene	3.538	3.435	3.635	51.300	50.000	2.6

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094499.D **Time Analyzed:** 09:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.781	5.679	5.879	55.380	50.000	10.8
4,4'-DDE	5.224	5.124	5.324	52.050	50.000	4.1
4,4'-DDT	6.030	5.929	6.129	53.060	50.000	6.1
Aldrin	4.221	4.119	4.319	51.640	50.000	3.3
alpha-BHC	3.274	3.172	3.372	50.610	50.000	1.2
alpha-Chlordane	5.037	4.935	5.135	49.990	50.000	0.0
beta-BHC	3.904	3.803	4.003	50.800	50.000	1.6
Decachlorobiphenyl	7.905	7.804	8.004	47.360	50.000	-5.3
delta-BHC	4.132	4.030	4.230	51.240	50.000	2.5
Dieldrin	5.357	5.256	5.456	51.290	50.000	2.6
Endosulfan I	5.093	4.991	5.191	40.290	50.000	-19.4
Endosulfan II	5.927	5.826	6.026	52.950	50.000	5.9
Endosulfan sulfate	6.330	6.228	6.428	50.740	50.000	1.5
Endrin	5.632	5.531	5.731	58.680	50.000	17.4
Endrin aldehyde	6.107	6.006	6.206	50.810	50.000	1.6
Endrin ketone	6.834	6.733	6.933	53.800	50.000	7.6
gamma-BHC (Lindane)	3.604	3.502	3.702	51.430	50.000	2.9
gamma-Chlordane	4.973	4.872	5.072	50.330	50.000	0.7
Heptachlor	3.941	3.840	4.040	50.810	50.000	1.6
Heptachlor epoxide	4.723	4.622	4.822	50.470	50.000	0.9
Methoxychlor	6.606	6.505	6.705	52.050	50.000	4.1
Tetrachloro-m-xylene	2.771	2.670	2.870	51.240	50.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 17:46 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 17:46 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.22	5.22	5.12	5.32	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.83	6.83	6.73	6.93	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094511.D **Time Analyzed:** 17:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.606	6.806	57.700	50.000	15.4
4,4'-DDE	6.190	6.088	6.288	53.060	50.000	6.1
4,4'-DDT	7.022	6.919	7.119	53.180	50.000	6.4
Aldrin	5.255	5.153	5.353	50.870	50.000	1.7
alpha-BHC	3.993	3.891	4.091	50.790	50.000	1.6
alpha-Chlordane	6.016	5.915	6.115	51.120	50.000	2.2
beta-BHC	4.524	4.422	4.622	50.580	50.000	1.2
Decachlorobiphenyl	9.053	8.949	9.149	47.800	50.000	-4.4
delta-BHC	4.771	4.669	4.869	51.200	50.000	2.4
Dieldrin	6.342	6.240	6.440	51.450	50.000	2.9
Endosulfan I	6.067	5.965	6.165	50.970	50.000	1.9
Endosulfan II	6.793	6.690	6.890	48.110	50.000	-3.8
Endosulfan sulfate	7.157	7.054	7.254	49.070	50.000	-1.9
Endrin	6.571	6.470	6.670	47.650	50.000	-4.7
Endrin aldehyde	6.923	6.820	7.020	51.200	50.000	2.4
Endrin ketone	7.643	7.539	7.739	49.560	50.000	-0.9
gamma-BHC (Lindane)	4.325	4.224	4.424	50.780	50.000	1.6
gamma-Chlordane	5.937	5.835	6.035	50.820	50.000	1.6
Heptachlor	4.913	4.812	5.012	51.160	50.000	2.3
Heptachlor epoxide	5.682	5.579	5.779	52.750	50.000	5.5
Methoxychlor	7.498	7.396	7.596	52.590	50.000	5.2
Tetrachloro-m-xylene	3.537	3.435	3.635	51.890	50.000	3.8

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094511.D **Time Analyzed:** 17:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.780	5.679	5.879	56.540	50.000	13.1
4,4'-DDE	5.224	5.124	5.324	52.760	50.000	5.5
4,4'-DDT	6.030	5.929	6.129	53.820	50.000	7.6
Aldrin	4.220	4.119	4.319	51.910	50.000	3.8
alpha-BHC	3.273	3.172	3.372	51.510	50.000	3.0
alpha-Chlordane	5.037	4.935	5.135	50.670	50.000	1.3
beta-BHC	3.903	3.803	4.003	51.310	50.000	2.6
Decachlorobiphenyl	7.906	7.804	8.004	49.390	50.000	-1.2
delta-BHC	4.132	4.030	4.230	51.840	50.000	3.7
Dieldrin	5.357	5.256	5.456	51.780	50.000	3.6
Endosulfan I	5.092	4.991	5.191	40.540	50.000	-18.9
Endosulfan II	5.926	5.826	6.026	53.570	50.000	7.1
Endosulfan sulfate	6.329	6.228	6.428	51.550	50.000	3.1
Endrin	5.631	5.531	5.731	59.970	50.000	19.9
Endrin aldehyde	6.107	6.006	6.206	51.110	50.000	2.2
Endrin ketone	6.834	6.733	6.933	55.190	50.000	10.4
gamma-BHC (Lindane)	3.603	3.502	3.702	52.050	50.000	4.1
gamma-Chlordane	4.973	4.872	5.072	51.040	50.000	2.1
Heptachlor	3.941	3.840	4.040	51.400	50.000	2.8
Heptachlor epoxide	4.723	4.622	4.822	51.390	50.000	2.8
Methoxychlor	6.606	6.505	6.705	53.720	50.000	7.4
Tetrachloro-m-xylene	2.770	2.670	2.870	52.110	50.000	4.2

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 20:02 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/21/2025 02/21/2025

Continuing Calib Time: 20:02 **Initial Calibration Time(s):** 10:56 11:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.22	5.22	5.12	5.32	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.83	6.83	6.73	6.93	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094521.D **Time Analyzed:** 20:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.606	6.806	57.640	50.000	15.3
4,4'-DDE	6.190	6.088	6.288	52.630	50.000	5.3
4,4'-DDT	7.022	6.919	7.119	49.980	50.000	0.0
Aldrin	5.255	5.153	5.353	50.750	50.000	1.5
alpha-BHC	3.993	3.891	4.091	51.170	50.000	2.3
alpha-Chlordane	6.016	5.915	6.115	50.760	50.000	1.5
beta-BHC	4.524	4.422	4.622	50.800	50.000	1.6
Decachlorobiphenyl	9.054	8.949	9.149	46.700	50.000	-6.6
delta-BHC	4.769	4.669	4.869	51.780	50.000	3.6
Dieldrin	6.342	6.240	6.440	51.160	50.000	2.3
Endosulfan I	6.067	5.965	6.165	50.430	50.000	0.9
Endosulfan II	6.792	6.690	6.890	47.970	50.000	-4.1
Endosulfan sulfate	7.158	7.054	7.254	48.260	50.000	-3.5
Endrin	6.571	6.470	6.670	46.620	50.000	-6.8
Endrin aldehyde	6.923	6.820	7.020	49.870	50.000	-0.3
Endrin ketone	7.642	7.539	7.739	48.350	50.000	-3.3
gamma-BHC (Lindane)	4.325	4.224	4.424	51.150	50.000	2.3
gamma-Chlordane	5.936	5.835	6.035	50.570	50.000	1.1
Heptachlor	4.913	4.812	5.012	51.230	50.000	2.5
Heptachlor epoxide	5.682	5.579	5.779	52.290	50.000	4.6
Methoxychlor	7.499	7.396	7.596	51.090	50.000	2.2
Tetrachloro-m-xylene	3.536	3.435	3.635	51.950	50.000	3.9

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL094521.D **Time Analyzed:** 20:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.780	5.679	5.879	56.560	50.000	13.1
4,4'-DDE	5.223	5.124	5.324	52.170	50.000	4.3
4,4'-DDT	6.030	5.929	6.129	52.280	50.000	4.6
Aldrin	4.220	4.119	4.319	52.370	50.000	4.7
alpha-BHC	3.273	3.172	3.372	52.170	50.000	4.3
alpha-Chlordane	5.036	4.935	5.135	50.770	50.000	1.5
beta-BHC	3.903	3.803	4.003	51.930	50.000	3.9
Decachlorobiphenyl	7.906	7.804	8.004	45.430	50.000	-9.1
delta-BHC	4.131	4.030	4.230	52.200	50.000	4.4
Dieldrin	5.356	5.256	5.456	51.080	50.000	2.2
Endosulfan I	5.092	4.991	5.191	40.480	50.000	-19.0
Endosulfan II	5.926	5.826	6.026	52.490	50.000	5.0
Endosulfan sulfate	6.329	6.228	6.428	50.080	50.000	0.2
Endrin	5.631	5.531	5.731	59.850	50.000	19.7
Endrin aldehyde	6.107	6.006	6.206	49.850	50.000	-0.3
Endrin ketone	6.834	6.733	6.933	53.030	50.000	6.1
gamma-BHC (Lindane)	3.603	3.502	3.702	52.610	50.000	5.2
gamma-Chlordane	4.973	4.872	5.072	51.310	50.000	2.6
Heptachlor	3.940	3.840	4.040	51.720	50.000	3.4
Heptachlor epoxide	4.723	4.622	4.822	51.790	50.000	3.6
Methoxychlor	6.605	6.505	6.705	50.360	50.000	0.7
Tetrachloro-m-xylene	2.770	2.670	2.870	52.950	50.000	5.9

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No. (PEM): PEM - PL094324.D **Date Analyzed:** 02/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.049	8.950	9.150	19.210	20.000	-4.0
Tetrachloro-m-xylene	3.536	3.490	3.590	18.850	20.000	-5.8
alpha-BHC	3.991	3.940	4.040	10.030	10.000	0.3
beta-BHC	4.523	4.470	4.570	10.250	10.000	2.5
gamma-BHC (Lindane)	4.324	4.270	4.370	9.920	10.000	-0.8
Endrin	6.570	6.500	6.640	41.860	50.000	-16.3
4,4'-DDT	7.020	6.950	7.090	87.790	100.000	-12.2
Methoxychlor	7.497	7.430	7.570	207.340	250.000	-17.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No. (PEM): PEM - PL094324.D **Date Analyzed:** 02/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.904	7.800	8.000	18.560	20.000	-7.2
Tetrachloro-m-xylene	2.771	2.720	2.820	18.550	20.000	-7.3
alpha-BHC	3.273	3.220	3.320	8.830	10.000	-11.7
beta-BHC	3.903	3.850	3.950	9.960	10.000	-0.4
gamma-BHC (Lindane)	3.603	3.550	3.650	8.530	10.000	-14.7
Endrin	5.632	5.560	5.700	45.740	50.000	-8.5
4,4'-DDT	6.029	5.960	6.100	98.350	100.000	-1.7
Methoxychlor	6.605	6.530	6.680	222.980	250.000	-10.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No. (PEM): PEM - PL094498.D **Date Analyzed:** 03/05/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	23.610	20.000	18.1
Tetrachloro-m-xylene	3.538	3.490	3.590	25.110	20.000	25.6
alpha-BHC	3.994	3.940	4.040	12.820	10.000	28.2
beta-BHC	4.525	4.470	4.580	13.130	10.000	31.3
gamma-BHC (Lindane)	4.326	4.280	4.380	12.550	10.000	25.5
Endrin	6.572	6.500	6.640	50.280	50.000	0.6
4,4'-DDT	7.024	6.950	7.090	112.610	100.000	12.6
Methoxychlor	7.501	7.430	7.570	256.110	250.000	2.4

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/21/2025 02/21/2025

Client Sample No. (PEM): PEM - PL094498.D **Date Analyzed:** 03/05/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.905	7.800	8.010	22.830	20.000	14.2
Tetrachloro-m-xylene	2.771	2.720	2.820	24.130	20.000	20.7
alpha-BHC	3.274	3.220	3.320	11.360	10.000	13.6
beta-BHC	3.904	3.850	3.950	13.010	10.000	30.1
gamma-BHC (Lindane)	3.604	3.550	3.650	11.070	10.000	10.7
Endrin	5.633	5.560	5.700	62.860	50.000	25.7
4,4'-DDT	6.031	5.960	6.100	127.740	100.000	27.7
Methoxychlor	6.606	6.540	6.680	278.660	250.000	11.5

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Analytical Sequence

Client: JPCL Engineering **SDG No.:** Q1487

Project: NYSDOT Two Bronx River Parkway Bridges **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/21/2025 02/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/21/2025	10:15	PL094323.D	9.05	3.54
PEM	PEM	02/21/2025	10:29	PL094324.D	9.05	3.54
RESCHK	RESCHK	02/21/2025	10:42	PL094325.D	9.05	3.54
PSTDICC100	PSTDICC100	02/21/2025	10:56	PL094326.D	9.05	3.54
PSTDICC075	PSTDICC075	02/21/2025	11:10	PL094327.D	9.05	3.54
PSTDICC050	PSTDICC050	02/21/2025	11:23	PL094328.D	9.05	3.54
PSTDICC025	PSTDICC025	02/21/2025	11:37	PL094329.D	9.05	3.54
PSTDICC005	PSTDICC005	02/21/2025	11:51	PL094330.D	9.05	3.54
PCHLORICC500	PCHLORICC500	02/21/2025	12:32	PL094333.D	9.05	3.54
PTOXICC500	PTOXICC500	02/21/2025	13:40	PL094338.D	9.05	3.54
I.BLK	I.BLK	03/05/2025	08:58	PL094497.D	9.06	3.54
PEM	PEM	03/05/2025	09:12	PL094498.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/05/2025	09:25	PL094499.D	9.05	3.54
PB166986BL	PB166986BL	03/05/2025	14:46	PL094500.D	9.07	3.55
PB166986BS	PB166986BS	03/05/2025	14:59	PL094501.D	9.06	3.54
I.BLK	I.BLK	03/05/2025	17:32	PL094510.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/05/2025	17:46	PL094511.D	9.05	3.54
DN-B-41MS	Q1485-01MS	03/05/2025	18:54	PL094516.D	9.05	3.54
DN-B-41MSD	Q1485-01MSD	03/05/2025	19:08	PL094517.D	9.05	3.54
DN-B-42	Q1487-01	03/05/2025	19:35	PL094519.D	9.05	3.54
I.BLK	I.BLK	03/05/2025	19:49	PL094520.D	9.05	3.54
PSTDCCC050	PSTDCCC050	03/05/2025	20:02	PL094521.D	9.05	3.54

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Analytical Sequence

Client: JPCL Engineering **SDG No.:** Q1487

Project: NYSDOT Two Bronx River Parkway Bridges **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/21/2025 02/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/21/2025	10:15	PL094323.D	7.91	2.77
PEM	PEM	02/21/2025	10:29	PL094324.D	7.90	2.77
RESCHK	RESCHK	02/21/2025	10:42	PL094325.D	7.90	2.77
PSTDICC100	PSTDICC100	02/21/2025	10:56	PL094326.D	7.90	2.77
PSTDICC075	PSTDICC075	02/21/2025	11:10	PL094327.D	7.90	2.77
PSTDICC050	PSTDICC050	02/21/2025	11:23	PL094328.D	7.90	2.77
PSTDICC025	PSTDICC025	02/21/2025	11:37	PL094329.D	7.91	2.77
PSTDICC005	PSTDICC005	02/21/2025	11:51	PL094330.D	7.90	2.77
PCHLORICC500	PCHLORICC500	02/21/2025	12:32	PL094333.D	7.90	2.77
PTOXICC500	PTOXICC500	02/21/2025	13:40	PL094338.D	7.90	2.77
I.BLK	I.BLK	03/05/2025	08:58	PL094497.D	7.91	2.77
PEM	PEM	03/05/2025	09:12	PL094498.D	7.91	2.77
PSTDCCC050	PSTDCCC050	03/05/2025	09:25	PL094499.D	7.91	2.77
PB166986BL	PB166986BL	03/05/2025	14:46	PL094500.D	7.91	2.77
PB166986BS	PB166986BS	03/05/2025	14:59	PL094501.D	7.91	2.77
I.BLK	I.BLK	03/05/2025	17:32	PL094510.D	7.91	2.77
PSTDCCC050	PSTDCCC050	03/05/2025	17:46	PL094511.D	7.91	2.77
DN-B-41MS	Q1485-01MS	03/05/2025	18:54	PL094516.D	7.91	2.77
DN-B-41MSD	Q1485-01MSD	03/05/2025	19:08	PL094517.D	7.91	2.77
DN-B-42	Q1487-01	03/05/2025	19:35	PL094519.D	7.91	2.77
I.BLK	I.BLK	03/05/2025	19:49	PL094520.D	7.91	2.77
PSTDCCC050	PSTDCCC050	03/05/2025	20:02	PL094521.D	7.91	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
DN-B-41MS

Contract: JPCL01
Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487
Lab Sample ID: Q1485-01MS **Date(s) Analyzed:** 03/05/2025 03/05/2025
Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L
GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	20.8	3.8
	2	5.93	5.88	5.98	21.6	
4,4'-DDD	1	6.71	6.66	6.76	23.6	3.9
	2	5.78	5.73	5.83	22.7	
4,4'-DDT	1	7.02	6.97	7.07	21.4	2.8
	2	6.03	5.98	6.08	20.8	
Endrin aldehyde	1	6.92	6.87	6.97	20.1	6.2
	2	6.11	6.06	6.16	18.9	
Endosulfan sulfate	1	7.16	7.11	7.21	21.2	4.6
	2	6.33	6.28	6.38	22.2	
Methoxychlor	1	7.50	7.45	7.55	23.3	20.3
	2	6.61	6.56	6.66	19.0	
Endrin ketone	1	7.64	7.59	7.69	20.0	0.5
	2	6.84	6.79	6.89	19.9	
alpha-BHC	1	3.99	3.94	4.04	20.5	0
	2	3.27	3.22	3.32	20.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	20.3	0.5
	2	3.60	3.55	3.65	20.4	
Heptachlor	1	4.91	4.86	4.96	21.4	2.4
	2	3.94	3.89	3.99	20.9	
Aldrin	1	5.26	5.21	5.31	20.3	2.5
	2	4.22	4.17	4.27	19.8	
beta-BHC	1	4.52	4.47	4.57	21.2	0.9
	2	3.90	3.85	3.95	21.0	
delta-BHC	1	4.77	4.72	4.82	20.8	3.4
	2	4.13	4.08	4.18	20.1	
Heptachlor epoxide	1	5.68	5.63	5.73	20.6	0.5
	2	4.72	4.67	4.77	20.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

DN-B-41MS

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Lab Sample ID: Q1485-01MS **Date(s) Analyzed:** 03/05/2025 03/05/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	21.2	4.8
	2	5.09	5.04	5.14	20.2	
gamma-Chlordane	1	5.94	5.89	5.99	20.9	1.4
	2	4.97	4.92	5.02	21.2	
alpha-Chlordane	1	6.02	5.97	6.07	21.2	1.4
	2	5.04	4.99	5.09	20.9	
4,4'-DDE	1	6.19	6.14	6.24	21.1	0
	2	5.23	5.18	5.28	21.1	
Dieldrin	1	6.34	6.29	6.39	21.0	1.4
	2	5.36	5.31	5.41	21.3	
Endrin	1	6.57	6.52	6.62	19.5	24.3
	2	5.63	5.58	5.68	24.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

DN-B-41MSD

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Lab Sample ID: Q1485-01MSD **Date(s) Analyzed:** 03/05/2025 03/05/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	21.2	0.9
	2	5.93	5.88	5.98	21.4	
4,4'-DDD	1	6.71	6.66	6.76	24.0	8.7
	2	5.78	5.73	5.83	22.0	
4,4'-DDT	1	7.02	6.97	7.07	21.6	2.3
	2	6.03	5.98	6.08	21.1	
Endrin aldehyde	1	6.92	6.87	6.97	20.6	5.5
	2	6.11	6.06	6.16	19.5	
Endosulfan sulfate	1	7.16	7.11	7.21	21.5	2.8
	2	6.33	6.28	6.38	22.1	
Methoxychlor	1	7.50	7.45	7.55	23.5	19.6
	2	6.61	6.56	6.66	19.3	
Endrin ketone	1	7.64	7.59	7.69	20.2	0.5
	2	6.84	6.79	6.89	20.3	
alpha-BHC	1	3.99	3.94	4.04	20.2	0
	2	3.27	3.22	3.32	20.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	19.9	1
	2	3.60	3.55	3.65	20.1	
Heptachlor	1	4.91	4.86	4.96	21.0	0.5
	2	3.94	3.89	3.99	20.9	
Aldrin	1	5.26	5.21	5.31	20.2	2
	2	4.22	4.17	4.27	19.8	
beta-BHC	1	4.53	4.48	4.58	20.9	0.5
	2	3.90	3.85	3.95	21.0	
delta-BHC	1	4.77	4.72	4.82	20.6	2.5
	2	4.13	4.08	4.18	20.1	
Heptachlor epoxide	1	5.68	5.63	5.73	20.7	1.5
	2	4.72	4.67	4.77	20.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

DN-B-41MSD

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Lab Sample ID: Q1485-01MSD **Date(s) Analyzed:** 03/05/2025 03/05/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	20.9	4.4
	2	5.09	5.04	5.14	20.0	
gamma-Chlordane	1	5.94	5.89	5.99	20.9	1.4
	2	4.97	4.92	5.02	21.2	
alpha-Chlordane	1	6.02	5.97	6.07	21.1	1
	2	5.04	4.99	5.09	20.9	
4,4'-DDE	1	6.19	6.14	6.24	20.8	1.4
	2	5.23	5.18	5.28	21.1	
Dieldrin	1	6.34	6.29	6.39	21.2	0
	2	5.36	5.31	5.41	21.2	
Endrin	1	6.57	6.52	6.62	19.5	22.3
	2	5.63	5.58	5.68	24.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166986BS

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Lab Sample ID: PB166986BS **Date(s) Analyzed:** 03/05/2025 03/05/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.80	6.75	6.85	17.7	7.6
	2	5.93	5.88	5.98	19.1	
4,4'-DDD	1	6.71	6.66	6.76	20.3	2.5
	2	5.78	5.73	5.83	19.8	
4,4'-DDT	1	7.03	6.98	7.08	19.2	1
	2	6.03	5.98	6.08	19.4	
Endrin aldehyde	1	6.93	6.88	6.98	17.6	0
	2	6.11	6.06	6.16	17.6	
Endosulfan sulfate	1	7.16	7.11	7.21	17.5	5.6
	2	6.33	6.28	6.38	18.5	
alpha-BHC	1	4.00	3.95	4.05	17.1	2.4
	2	3.27	3.22	3.32	16.7	
Aldrin	1	5.26	5.21	5.31	17.2	2.9
	2	4.22	4.17	4.27	16.7	
beta-BHC	1	4.53	4.48	4.58	17.6	1.1
	2	3.90	3.85	3.95	17.4	
delta-BHC	1	4.77	4.72	4.82	17.4	5.3
	2	4.13	4.08	4.18	16.5	
Endosulfan I	1	6.07	6.02	6.12	18.0	0.6
	2	5.09	5.04	5.14	17.9	
alpha-Chlordane	1	6.02	5.97	6.07	18.3	3.3
	2	5.04	4.99	5.09	17.7	
4,4'-DDE	1	6.19	6.14	6.24	19.0	4.9
	2	5.23	5.18	5.28	18.1	
Dieldrin	1	6.35	6.30	6.40	18.1	0
	2	5.36	5.31	5.41	18.1	
Endrin	1	6.57	6.52	6.62	17.0	20.1
	2	5.63	5.58	5.68	20.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB166986BS

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Lab Sample ID: PB166986BS **Date(s) Analyzed:** 03/05/2025 03/05/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	18.6	0
	2	6.61	6.56	6.66	18.6	
Endrin ketone	1	7.65	7.60	7.70	17.7	8.1
	2	6.84	6.79	6.89	19.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.9	1.2
	2	3.60	3.55	3.65	16.7	
Heptachlor	1	4.92	4.87	4.97	18.1	3.4
	2	3.94	3.89	3.99	17.5	
Heptachlor epoxide	1	5.68	5.63	5.73	17.9	2.8
	2	4.72	4.67	4.77	17.4	
gamma-Chlordane	1	5.94	5.89	5.99	18.2	1.7
	2	4.97	4.92	5.02	17.9	

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LAB CHRONICLE

OrderID:	Q1487	**OrderDate:**	3/4/2025 3:33:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1487-01	**DN-B-42**	**SOIL**			**03/04/25**			**03/04/25**
			PCB	8082A		03/05/25	03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1487 **Order ID:** Q1487

Client: JPCL Engineering **Project ID:** NYSDOT Two Bronx River Parkway I

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
			Total Concentration:	**0.000**				

SAMPLE DATA

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070271.D	1	03/05/25 09:10	03/05/25 16:52	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.3	U	3.80	19.3	ug/kg
11104-28-2	Aroclor-1221	19.3	U	7.30	19.3	ug/kg
11141-16-5	Aroclor-1232	19.3	U	3.90	19.3	ug/kg
53469-21-9	Aroclor-1242	19.3	U	3.80	19.3	ug/kg
12672-29-6	Aroclor-1248	19.3	U	8.90	19.3	ug/kg
11097-69-1	Aroclor-1254	19.3	U	3.10	19.3	ug/kg
37324-23-5	Aroclor-1262	19.3	U	5.20	19.3	ug/kg
11100-14-4	Aroclor-1268	19.3	U	3.90	19.3	ug/kg
11096-82-5	Aroclor-1260	19.3	U	3.30	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.9		32 - 144	130%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.3		32 - 175	97%	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

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Surrogate Summary

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP069995.D	PIBLK-PP069995.D	Tetrachloro-m-xylene	1	20	21.9	109		60	140
		Decachlorobiphenyl	1	20	21.8	109		60	140
		Tetrachloro-m-xylene	2	20	22.1	110		60	140
		Decachlorobiphenyl	2	20	21.6	108		60	140
I.BLK-PP070263.D	PIBLK-PP070263.D	Tetrachloro-m-xylene	1	20	20.1	100		60	140
		Decachlorobiphenyl	1	20	18.8	94		60	140
		Tetrachloro-m-xylene	2	20	20.9	105		60	140
		Decachlorobiphenyl	2	20	20.3	102		60	140
PB166985BL	PB166985BL	Tetrachloro-m-xylene	1	20	24.9	125		32	144
		Decachlorobiphenyl	1	20	22.2	111		32	175
		Tetrachloro-m-xylene	2	20	24.1	121		32	144
		Decachlorobiphenyl	2	20	23.8	119		32	175
PB166985BS	PB166985BS	Tetrachloro-m-xylene	1	20	25.4	127		32	144
		Decachlorobiphenyl	1	20	22.5	113		32	175
		Tetrachloro-m-xylene	2	20	24.1	121		32	144
		Decachlorobiphenyl	2	20	23.7	119		32	175
Q1487-01	DN-B-42	Tetrachloro-m-xylene	1	20	23.6	118		32	144
		Decachlorobiphenyl	1	20	18.1	90		32	175
		Tetrachloro-m-xylene	2	20	25.9	130		32	144
		Decachlorobiphenyl	2	20	19.3	97		32	175
I.BLK-PP070278.D	PIBLK-PP070278.D	Tetrachloro-m-xylene	1	20	21.2	106		60	140
		Decachlorobiphenyl	1	20	19.6	98		60	140
		Tetrachloro-m-xylene	2	20	20.7	104		60	140
		Decachlorobiphenyl	2	20	20.6	103		60	140
Q1488-03MS	ENV-101-SB02MS	Tetrachloro-m-xylene	1	20	24.9	125		32	144
		Decachlorobiphenyl	1	20	19.6	98		32	175
		Tetrachloro-m-xylene	2	20	23.8	119		32	144
		Decachlorobiphenyl	2	20	21.1	106		32	175
Q1488-03MSD	ENV-101-SB02MSD	Tetrachloro-m-xylene	1	20	26.5	132		32	144
		Decachlorobiphenyl	1	20	22.3	112		32	175
		Tetrachloro-m-xylene	2	20	24.6	123		32	144
		Decachlorobiphenyl	2	20	24.1	121		32	175
I.BLK-PP070293.D	PIBLK-PP070293.D	Tetrachloro-m-xylene	1	20	21.6	108		60	140
		Decachlorobiphenyl	1	20	20.2	101		60	140
		Tetrachloro-m-xylene	2	20	21.7	109		60	140
		Decachlorobiphenyl	2	20	21.4	107		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8082A **DataFile :** PP070279.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**ENV-101-SB02MS**											
Q1488-03MS	AR1016	183.5	0	188	ug/kg	102				55	146	
	AR1260	183.5	0	174	ug/kg	95				31	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8082A **DataFile :** PP070280.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**ENV-101-SB02MSD**											
Q1488-03MSD	AR1016	183.7	0	193	ug/kg	105		3		55	146	20
	AR1260	183.7	0	183	ug/kg	100		5		31	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8082A **Datafile :** PP070265.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166985BS	AR1016	166.6	165	ug/kg	99				71	120	
	AR1260	166.6	161	ug/kg	97				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166985BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

Lab Sample ID: PB166985BL Lab File ID: PP070264.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 03/05/2025

Date Analyzed (1): 03/05/2025 Date Analyzed (2): 03/05/2025

Time Analyzed (1): 14:58 Time Analyzed (2): 14:58

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166985BS	PB166985BS	PP070265.D	03/05/2025	03/05/2025
DN-B-42	Q1487-01	PP070271.D	03/05/2025	03/05/2025
ENV-101-SB02MS	Q1488-03MS	PP070279.D	03/05/2025	03/05/2025
ENV-101-SB02MSD	Q1488-03MSD	PP070280.D	03/05/2025	03/05/2025

COMMENTS:

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1016-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1016-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1016-5	(5)	6.15	6.15	6.16	6.15	6.15	6.15	6.05	6.25
Aroclor-1260-1	(1)	7.27	7.27	7.28	7.27	7.28	7.27	7.17	7.37
Aroclor-1260-2	(2)	7.52	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Aroclor-1260-3	(3)	7.88	7.89	7.89	7.88	7.89	7.89	7.79	7.99
Aroclor-1260-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1260-5	(5)	8.43	8.43	8.43	8.43	8.43	8.43	8.33	8.53
Decachlorobiphenyl		10.25	10.26	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene		4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63
Aroclor-1242-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1242-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1242-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1242-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.25	10.26	10.25	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.53	4.53	4.43	4.63
Aroclor-1248-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1248-2	(2)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Aroclor-1248-3	(3)	6.15	6.16	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1248-4	(4)	6.55	6.56	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1248-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.26	10.26	10.26	10.25	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.53	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1254-1	(1)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-2	(2)	6.75	6.74	6.75	6.75	6.74	6.75	6.65	6.85
Aroclor-1254-3	(3)	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
Aroclor-1254-4	(4)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Aroclor-1254-5	(5)	7.81	7.80	7.81	7.81	7.81	7.81	7.71	7.91
Decachlorobiphenyl		10.26	10.25	10.26	10.26	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1268-1	(1)	8.74	8.75	8.75	8.74	8.75	8.75	8.65	8.85
Aroclor-1268-2	(2)	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
Aroclor-1268-3	(3)	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
Aroclor-1268-4	(4)	9.49	9.49	9.49	9.49	9.49	9.49	9.39	9.59
Aroclor-1268-5	(5)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.25	10.25	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene	4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1016-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-5	(5)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1260-1	(1)	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-2	(2)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1260-3	(3)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Aroclor-1260-4	(4)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-5	(5)	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1242-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1242-4	(4)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1242-5	(5)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1248-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1248-2	(2)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-3	(3)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1248-4	(4)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1248-5	(5)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1254-1	(1)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-2	(2)	5.88	5.88	5.88	5.88	5.87	5.88	5.78	5.98
Aroclor-1254-3	(3)	6.28	6.28	6.28	6.28	6.28	6.28	6.18	6.38
Aroclor-1254-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1254-5	(5)	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1268-1	(1)	7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Aroclor-1268-2	(2)	7.81	7.82	7.82	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-3	(3)	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
Aroclor-1268-4	(4)	8.32	8.32	8.32	8.31	8.32	8.32	8.22	8.42
Aroclor-1268-5	(5)	8.62	8.62	8.62	8.62	8.62	8.62	8.52	8.72

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene	3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	45557625	47855512	49968516	54800208	50948980	49826168	7
Aroclor-1016-2	(2)	66706952	67781012	72991154	76640772	69769920	70777962	6
Aroclor-1016-3	(3)	40794671	44579197	45146958	47844192	41247180	43922440	7
Aroclor-1016-4	(4)	33978080	35043389	37559532	39668600	35057220	36261364	6
Aroclor-1016-5	(5)	31514906	31680175	34068042	35364724	35064900	33538549	5
Aroclor-1260-1	(1)	54823994	55486535	59388846	62695304	59405260	58359988	6
Aroclor-1260-2	(2)	73383444	75987972	80712800	85961116	92581060	81725278	9
Aroclor-1260-3	(3)	59489338	60560020	64011918	67792592	61951460	62761066	5
Aroclor-1260-4	(4)	58704582	59596489	63141360	67201512	68361020	63400993	7
Aroclor-1260-5	(5)	124764910	128178828	134805260	140592412	127581700	131184622	5
Decachlorobiphenyl		1071742430	1139629213	1165555660	1227723520	1090515400	1139033245	5
Tetrachloro-m-xylene		1433727050	1435859520	1533424440	1590932200	1344174400	1467623522	7
Aroclor-1242-1	(1)	38359202	40766156	41566668	47963164	43620760	42455190	9
Aroclor-1242-2	(2)	56757612	55666953	60328714	62664932	52294440	57542530	7
Aroclor-1242-3	(3)	34692482	36785992	38528310	46539712	33080140	37925327	14
Aroclor-1242-4	(4)	28738709	28291829	32018112	32372976	27652280	29814781	7
Aroclor-1242-5	(5)	32588629	32785485	35429746	39255208	36117200	35235254	8
Decachlorobiphenyl		1021050090	1049520227	1099648880	1125224680	979176800	1054924135	6
Tetrachloro-m-xylene		1392047690	1350066600	1467421460	1456806320	1242599600	1381788334	7
Aroclor-1248-1	(1)	29585124	31433301	32559076	36305496	33667780	32710155	8
Aroclor-1248-2	(2)	39473771	42013749	42864276	46958912	39450360	42152214	7
Aroclor-1248-3	(3)	43926772	44170904	46948106	50004072	40811360	45172243	8
Aroclor-1248-4	(4)	53918087	55655911	58640506	66304332	60297700	58963307	8
Aroclor-1248-5	(5)	51833391	52919351	56894804	67563228	56719440	57186043	11
Decachlorobiphenyl		1044729320	1067835560	1119982260	1186291160	1031748600	1090117380	6
Tetrachloro-m-xylene		1393266240	1426265507	1481945040	1527838200	1310175600	1427898117	6
Aroclor-1254-1	(1)	51156577	57570420	60622162	67008468	47144000	56700325	14
Aroclor-1254-2	(2)	78872042	81254612	86985854	93340172	97974740	87685484	9
Aroclor-1254-3	(3)	79973406	82322503	87641586	92940192	102754200	89126377	10
Aroclor-1254-4	(4)	66856800	68050653	73453394	76814612	87380160	74511124	11
Aroclor-1254-5	(5)	65315189	68448207	69620926	72356948	60070200	67162294	7
Decachlorobiphenyl		1075591380	1094765307	1221801800	1207489520	1097348200	1139399241	6
Tetrachloro-m-xylene		1443804100	1475957520	1555264320	1605313440	1392239200	1494515716	6
Aroclor-1268-1	(1)	188433469	184749517	193628348	206851508	186804180	192093404	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	162697797	159627413	168307400	177293676	160000200	165585297	4
Aroclor-1268-3	(3)	141621356	137143849	145386650	153273656	140094780	143504058	4
Aroclor-1268-4	(4)	63392961	60284985	64357574	66970196	60240320	63049207	5
Aroclor-1268-5	(5)	414016384	401287087	418333378	444189832	401775920	415920520	4
Decachlorobiphenyl		1839528480	1828279133	1916502300	2031355480	1847859400	1892704959	4
Tetrachloro-m-xylene		1501238100	1376017987	1532711540	1621137720	1417123400	1489645749	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	29885830	30191223	33586918	36186236	37142680	33398577	10
Aroclor-1016-2	(2)	42247324	42370143	46984138	50510676	50858960	46594248	9
Aroclor-1016-3	(3)	23325129	22666977	25816242	27757500	25596220	25032414	8
Aroclor-1016-4	(4)	18421261	17991491	20585360	22152124	21203180	20070683	9
Aroclor-1016-5	(5)	23822938	23028484	26536406	28616852	27728040	25946544	9
Aroclor-1260-1	(1)	44977992	45171227	49550340	56779968	51216800	49539265	10
Aroclor-1260-2	(2)	59688698	59926561	64720792	71640216	71124240	65420101	9
Aroclor-1260-3	(3)	52251359	51461445	57261004	62988144	77648420	60322074	18
Aroclor-1260-4	(4)	44361395	45109507	48615116	51524344	54726600	48867392	9
Aroclor-1260-5	(5)	111484150	113477796	119592622	125243744	126075940	119174850	6
Decachlorobiphenyl		984571270	1029317907	1118262220	1135932120	1152437600	1084104223	7
Tetrachloro-m-xylene		879784240	907640400	952717360	1058760600	981262000	956032920	7
Aroclor-1242-1	(1)	25489035	24475017	27848416	27117444	28407820	26667546	6
Aroclor-1242-2	(2)	35977820	35199769	38539928	39076044	37212540	37201220	4
Aroclor-1242-3	(3)	19863858	18273261	20997152	20082888	19211500	19685732	5
Aroclor-1242-4	(4)	18777771	17922656	19968364	21100536	20505160	19654897	7
Aroclor-1242-5	(5)	24360224	22407967	26366090	27368000	23855560	24871568	8
Decachlorobiphenyl		899284040	984619373	1017502000	1027377360	962336000	978223755	5
Tetrachloro-m-xylene		920809800	854904253	959106780	929536920	894966400	911864831	4
Aroclor-1248-1	(1)	19339318	20312839	22158310	22596092	21441940	21169700	6
Aroclor-1248-2	(2)	25841628	26874321	28982946	30984640	28578600	28252427	7
Aroclor-1248-3	(3)	26866525	28025000	30088164	32810700	30987640	29755606	8
Aroclor-1248-4	(4)	31739244	33065895	35285822	36808472	38827540	35145395	8
Aroclor-1248-5	(5)	32923317	34190145	36090288	38291344	39345240	36168067	7
Decachlorobiphenyl		999826530	1002616133	1003875200	1054961080	1165261200	1045308029	7
Tetrachloro-m-xylene		903111320	931293867	957405100	986258320	972075400	950028801	3
Aroclor-1254-1	(1)	50279933	51640439	55752488	60013056	55160920	54569367	7
Aroclor-1254-2	(2)	44271421	45567105	49578352	53549416	50761380	48745535	8
Aroclor-1254-3	(3)	70979950	72598121	78881282	84287020	72336540	75816583	7
Aroclor-1254-4	(4)	50771725	50149405	54249580	57298592	44830820	51460024	9
Aroclor-1254-5	(5)	64408865	66088107	72696700	75630908	59021560	67569228	10
Decachlorobiphenyl		963124600	1013018133	1145558760	1245512000	1148271200	1103096939	10
Tetrachloro-m-xylene		957176240	952284093	991535260	1081903280	978837400	992347255	5
Aroclor-1268-1	(1)	160284327	157759444	159569126	170516088	180615940	165748985	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	139528496	137224495	137304354	146542344	164608100	145041558	8
Aroclor-1268-3	(3)	118669811	115934707	120470364	129761704	127485360	122464389	5
Aroclor-1268-4	(4)	50956768	50155827	52914114	57814536	54084040	53185057	6
Aroclor-1268-5	(5)	345492428	353062379	344150492	366619864	366772500	355219533	3
Decachlorobiphenyl		1574839450	1670989493	1686779340	1791292760	1882315600	1721243329	7
Tetrachloro-m-xylene		969499550	855552893	995885280	1076293640	1034726400	986391553	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.73	4.63	4.83	18915900
		2	4.81	4.71	4.91	14591600
		3	4.89	4.79	4.99	43158200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.89	4.79	4.99	32884000
		2	5.42	5.32	5.52	16260200
		3	5.70	5.60	5.80	34867200
		4	5.86	5.76	5.96	17799400
		5	5.95	5.85	6.05	12607200
Aroclor-1262	500	1	8.11	8.01	8.21	80729000
		2	8.43	8.33	8.53	161087000
		3	8.75	8.65	8.85	110612000
		4	8.84	8.74	8.94	83914000
		5	9.49	9.39	9.59	58804600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.04	3.94	4.14	13421200
		2	4.13	4.03	4.23	10166200
		3	4.21	4.11	4.31	30359600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.21	4.11	4.31	22742000
		2	4.94	4.84	5.04	22833200
		3	5.12	5.02	5.22	12024000
		4	5.20	5.10	5.30	10865300
		5	5.37	5.27	5.47	11305400
Aroclor-1262	500	1	6.97	6.87	7.07	83475400
		2	7.23	7.13	7.33	66291000
		3	7.75	7.65	7.85	60580400
		4	7.81	7.71	7.91	105474000
		5	8.32	8.22	8.42	51930200

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 11:49 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.25	10.26	10.16	10.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 11:49 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.15	5.16	5.06	5.26	0.01
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.22	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.46	7.47	7.37	7.57	0.01
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070259.D **Time Analyzed:** 11:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.581	5.781	474.860	500.000	-5.0
Aroclor-1016-2	5.700	5.602	5.802	491.780	500.000	-1.6
Aroclor-1016-3	5.763	5.665	5.865	489.540	500.000	-2.1
Aroclor-1016-4	5.860	5.762	5.962	496.730	500.000	-0.7
Aroclor-1016-5	6.153	6.056	6.256	483.820	500.000	-3.2
Aroclor-1260-1	7.273	7.175	7.375	482.320	500.000	-3.5
Aroclor-1260-2	7.527	7.429	7.629	455.430	500.000	-8.9
Aroclor-1260-3	7.885	7.788	7.988	488.800	500.000	-2.2
Aroclor-1260-4	8.110	8.012	8.212	479.200	500.000	-4.2
Aroclor-1260-5	8.430	8.333	8.533	484.960	500.000	-3.0
Decachlorobiphenyl	10.253	10.156	10.356	47.630	50.000	-4.7
Tetrachloro-m-xylene	4.526	4.427	4.627	52.370	50.000	4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070259.D **Time Analyzed:** 11:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.917	4.820	5.020	513.670	500.000	2.7
Aroclor-1016-2	4.936	4.839	5.039	509.760	500.000	2.0
Aroclor-1016-3	5.113	5.017	5.217	518.780	500.000	3.8
Aroclor-1016-4	5.154	5.058	5.258	507.120	500.000	1.4
Aroclor-1016-5	5.370	5.273	5.473	534.650	500.000	6.9
Aroclor-1260-1	6.407	6.312	6.512	493.320	500.000	-1.3
Aroclor-1260-2	6.596	6.500	6.700	502.660	500.000	0.5
Aroclor-1260-3	6.750	6.654	6.854	468.200	500.000	-6.4
Aroclor-1260-4	7.222	7.126	7.326	524.080	500.000	4.8
Aroclor-1260-5	7.463	7.367	7.567	533.970	500.000	6.8
Decachlorobiphenyl	8.882	8.788	8.988	48.820	50.000	-2.4
Tetrachloro-m-xylene	3.828	3.730	3.930	51.480	50.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 18:13 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.25	10.26	10.16	10.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 18:13 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.22	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.46	7.47	7.37	7.57	0.01
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070274.D **Time Analyzed:** 18:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.581	5.781	519.700	500.000	3.9
Aroclor-1016-2	5.701	5.602	5.802	539.100	500.000	7.8
Aroclor-1016-3	5.763	5.665	5.865	538.430	500.000	7.7
Aroclor-1016-4	5.860	5.762	5.962	548.080	500.000	9.6
Aroclor-1016-5	6.154	6.056	6.256	519.480	500.000	3.9
Aroclor-1260-1	7.274	7.175	7.375	514.400	500.000	2.9
Aroclor-1260-2	7.527	7.429	7.629	499.540	500.000	-0.1
Aroclor-1260-3	7.886	7.788	7.988	529.380	500.000	5.9
Aroclor-1260-4	8.110	8.012	8.212	505.520	500.000	1.1
Aroclor-1260-5	8.431	8.333	8.533	525.530	500.000	5.1
Decachlorobiphenyl	10.252	10.156	10.356	50.370	50.000	0.7
Tetrachloro-m-xylene	4.526	4.427	4.627	55.610	50.000	11.2

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070274.D **Time Analyzed:** 18:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.917	4.820	5.020	528.080	500.000	5.6
Aroclor-1016-2	4.936	4.839	5.039	524.790	500.000	5.0
Aroclor-1016-3	5.113	5.017	5.217	536.640	500.000	7.3
Aroclor-1016-4	5.155	5.058	5.258	534.000	500.000	6.8
Aroclor-1016-5	5.370	5.273	5.473	553.470	500.000	10.7
Aroclor-1260-1	6.408	6.312	6.512	510.260	500.000	2.1
Aroclor-1260-2	6.596	6.500	6.700	514.490	500.000	2.9
Aroclor-1260-3	6.750	6.654	6.854	485.590	500.000	-2.9
Aroclor-1260-4	7.223	7.126	7.326	541.710	500.000	8.3
Aroclor-1260-5	7.464	7.367	7.567	564.500	500.000	12.9
Decachlorobiphenyl	8.883	8.788	8.988	50.840	50.000	1.7
Tetrachloro-m-xylene	3.828	3.730	3.930	52.730	50.000	5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 22:50 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.28	7.28	7.18	7.38	0.00
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

Continuing Calib Date: 03/05/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 22:50 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.01
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070289.D **Time Analyzed:** 22:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.681	5.581	5.781	507.650	500.000	1.5
Aroclor-1016-2	5.702	5.602	5.802	514.280	500.000	2.9
Aroclor-1016-3	5.764	5.665	5.865	501.590	500.000	0.3
Aroclor-1016-4	5.862	5.762	5.962	507.010	500.000	1.4
Aroclor-1016-5	6.155	6.056	6.256	518.280	500.000	3.7
Aroclor-1260-1	7.275	7.175	7.375	532.180	500.000	6.4
Aroclor-1260-2	7.529	7.429	7.629	505.610	500.000	1.1
Aroclor-1260-3	7.888	7.788	7.988	546.130	500.000	9.2
Aroclor-1260-4	8.113	8.012	8.212	525.010	500.000	5.0
Aroclor-1260-5	8.433	8.333	8.533	541.570	500.000	8.3
Decachlorobiphenyl	10.258	10.156	10.356	51.680	50.000	3.4
Tetrachloro-m-xylene	4.527	4.427	4.627	55.950	50.000	11.9

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CALIBRATION VERIFICATION SUMMARY

Contract: JPCL01

Lab Code: CHEM **Case No.:** Q1487 **SAS No.:** Q1487 **SDG NO.:** Q1487

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 03/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070289.D **Time Analyzed:** 22:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.919	4.820	5.020	536.170	500.000	7.2
Aroclor-1016-2	4.938	4.839	5.039	532.730	500.000	6.5
Aroclor-1016-3	5.115	5.017	5.217	542.770	500.000	8.6
Aroclor-1016-4	5.157	5.058	5.258	529.850	500.000	6.0
Aroclor-1016-5	5.372	5.273	5.473	573.280	500.000	14.7
Aroclor-1260-1	6.410	6.312	6.512	516.300	500.000	3.3
Aroclor-1260-2	6.598	6.500	6.700	527.370	500.000	5.5
Aroclor-1260-3	6.752	6.654	6.854	498.350	500.000	-0.3
Aroclor-1260-4	7.225	7.126	7.326	567.590	500.000	13.5
Aroclor-1260-5	7.466	7.367	7.567	585.700	500.000	17.1
Decachlorobiphenyl	8.886	8.788	8.988	52.490	50.000	5.0
Tetrachloro-m-xylene	3.830	3.730	3.930	52.590	50.000	5.2

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Analytical Sequence

Client: JPCL Engineering **SDG No.:** Q1487

Project: NYSDOT Two Bronx River Parkway Bridges **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	10.25	4.53
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	10.25	4.52
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	10.26	4.53
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	10.26	4.53
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	10.25	4.52
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	10.26	4.53
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	10.25	4.52
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	10.26	4.53
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	10.26	4.53
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	10.25	4.52
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	10.26	4.53
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	10.25	4.53
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	10.26	4.53
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	10.26	4.53
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	10.26	4.53
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	10.26	4.53
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	10.26	4.53
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	10.25	4.52
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	10.26	4.53
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	10.25	4.52
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	10.26	4.53
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	10.26	4.53
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	10.26	4.52
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	10.25	4.53
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	10.25	4.52
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	10.25	4.53
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	10.26	4.53
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	10.25	4.52
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	11:49	PP070259.D	10.25	4.53
I.BLK	I.BLK	03/05/2025	12:54	PP070263.D	10.25	4.52
PB166985BL	PB166985BL	03/05/2025	14:58	PP070264.D	10.26	4.53
PB166985BS	PB166985BS	03/05/2025	15:14	PP070265.D	10.26	4.53
DN-B-42	Q1487-01	03/05/2025	16:52	PP070271.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	18:13	PP070274.D	10.25	4.53
I.BLK	I.BLK	03/05/2025	19:19	PP070278.D	10.26	4.53
ENV-101-SB02MS	Q1488-03MS	03/05/2025	19:35	PP070279.D	10.26	4.53
ENV-101-SB02MSD	Q1488-03MSD	03/05/2025	19:51	PP070280.D	10.26	4.53
AR1660CCC500	AR1660CCC500	03/05/2025	22:50	PP070289.D	10.26	4.53
I.BLK	I.BLK	03/05/2025	23:56	PP070293.D	10.26	4.52

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Analytical Sequence

Client: JPCL Engineering **SDG No.:** Q1487

Project: NYSDOT Two Bronx River Parkway Bridges **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	8.89	3.83
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	8.89	3.83
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	8.89	3.83
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	8.89	3.83
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	8.89	3.83
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	8.89	3.83
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	8.89	3.83
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	8.89	3.83
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	8.89	3.83
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	8.89	3.83
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	8.89	3.83
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	8.89	3.83
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	8.89	3.83
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	8.89	3.83
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	8.89	3.83
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	8.89	3.83
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	8.89	3.83
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	8.89	3.83
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	8.89	3.83
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	8.89	3.83
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	8.89	3.83
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	8.89	3.83
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	8.89	3.83
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	8.89	3.83
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	8.89	3.83
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	8.89	3.83
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	8.89	3.83
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	8.89	3.83
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	8.89	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	11:49	PP070259.D	8.88	3.83
I.BLK	I.BLK	03/05/2025	12:54	PP070263.D	8.88	3.83
PB166985BL	PB166985BL	03/05/2025	14:58	PP070264.D	8.89	3.83
PB166985BS	PB166985BS	03/05/2025	15:14	PP070265.D	8.88	3.83
DN-B-42	Q1487-01	03/05/2025	16:52	PP070271.D	8.88	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	18:13	PP070274.D	8.88	3.83
I.BLK	I.BLK	03/05/2025	19:19	PP070278.D	8.88	3.83
ENV-101-SB02MS	Q1488-03MS	03/05/2025	19:35	PP070279.D	8.89	3.83
ENV-101-SB02MSD	Q1488-03MSD	03/05/2025	19:51	PP070280.D	8.88	3.83
AR1660CCC500	AR1660CCC500	03/05/2025	22:50	PP070289.D	8.89	3.83
I.BLK	I.BLK	03/05/2025	23:56	PP070293.D	8.89	3.83

QC SAMPLE DATA

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166985BL	SDG No.:	Q1487
Lab Sample ID:	PB166985BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070264.D	1	03/05/25 09:10	03/05/25 14:58	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	17.0	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	17.0	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		32 - 144	125%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		32 - 175	119%	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

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Fax : 908 789 8922

Report of Analysis

Client:	JPCL Engineering	Date Collected:	02/24/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	02/24/25
Client Sample ID:	PIBLK-PP069995.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PP069995.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069995.D	1		02/24/25	PP022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		60 - 140	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		60 - 140	108%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070263.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PP070263.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070263.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		60 - 140	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		60 - 140	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.
() = Laboratory InHouse Limit

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070278.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PP070278.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070278.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		60 - 140	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		60 - 140	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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/05/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/05/25
Client Sample ID:	PIBLK-PP070293.D	SDG No.:	Q1487
Lab Sample ID:	I.BLK-PP070293.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070293.D	1		03/05/25	PP030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		60 - 140	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		60 - 140	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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166985BS	SDG No.:	Q1487
Lab Sample ID:	PB166985BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070265.D	1	03/05/25 09:10	03/05/25 15:14	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	165		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	161		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.4		32 - 144	127%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.7		32 - 175	119%	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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02MS	SDG No.:	Q1487
Lab Sample ID:	Q1488-03MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070279.D	1	03/05/25 09:10	03/05/25 19:35	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	188		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	18.7	U	7.10	18.7	ug/kg
11141-16-5	Aroclor-1232	18.7	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	18.7	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	18.7	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	18.7	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	18.7	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	18.7	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	174		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		32 - 144	125%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		32 - 175	106%	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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02MSD	SDG No.:	Q1487
Lab Sample ID:	Q1488-03MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070280.D	1	03/05/25 09:10	03/05/25 19:51	PB166985

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	193		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	18.7	U	7.10	18.7	ug/kg
11141-16-5	Aroclor-1232	18.7	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	18.7	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	18.7	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	18.7	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	18.7	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	18.7	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	183		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.5		32 - 144	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.1		32 - 175	121%	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

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LAB CHRONICLE

OrderID:	Q1487	**OrderDate:**	3/4/2025 3:33:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1487-01	**DN-B-42**	**SOIL**			**03/04/25**			**03/04/25**
			Mercury	7471B		03/05/25	03/05/25	
			Metals ICP-RCRA	6010D		03/05/25	03/13/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1487 **Order ID:** Q1487

Client: JPCL Engineering **Project ID:** NYSDOT Two Bronx River Parkway Bridg

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : DN-B-42								
Q1487-01	DN-B-42	SOIL	Arsenic	1.12		0.31	1.08	mg/Kg
Q1487-01	DN-B-42	SOIL	Barium	113		0.69	5.38	mg/Kg
Q1487-01	DN-B-42	SOIL	Chromium	30.1		0.058	0.54	mg/Kg
Q1487-01	DN-B-42	SOIL	Lead	16.6		0.16	0.65	mg/Kg
Q1487-01	DN-B-42	SOIL	Mercury	0.036		0.0070	0.016	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.12		1	0.31	1.08	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7440-39-3	Barium	113		1	0.69	5.38	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7440-43-9	Cadmium	0.32	U	1	0.017	0.32	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7440-47-3	Chromium	30.1		1	0.058	0.54	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7439-92-1	Lead	16.6		1	0.16	0.65	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7439-97-6	Mercury	0.036		1	0.0070	0.016	mg/Kg	03/05/25 09:50	03/05/25 15:06	SW7471B	
7782-49-2	Selenium	1.08	U	1	0.36	1.08	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050
7440-22-4	Silver	0.54	U	1	0.056	0.54	mg/Kg	03/05/25 10:05	03/13/25 13:27	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS RCRA				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV32	Mercury	3.65	4.0	91	90 - 110	CV	03/05/2025	13:59	LB134903

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV65	Mercury	5.02	5.0	100	90 - 110	CV	03/05/2025	14:03	LB134903
CCV66	Mercury	4.92	5.0	98	90 - 110	CV	03/05/2025	14:40	LB134903
CCV67	Mercury	4.97	5.0	99	90 - 110	CV	03/05/2025	15:08	LB134903
CCV68	Mercury	4.93	5.0	98	90 - 110	CV	03/05/2025	15:29	LB134903

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Barium	527	520	101	90 - 110	P	03/06/2025	10:50	LB134928
	Cadmium	503	510	99	90 - 110	P	03/06/2025	10:50	LB134928
	Chromium	529	520	102	90 - 110	P	03/06/2025	10:50	LB134928
	Lead	1010	1000	100	90 - 110	P	03/06/2025	10:50	LB134928
	Selenium	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Silver	258	250	103	90 - 110	P	03/06/2025	10:50	LB134928

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	19.2	20.0	96	80 - 120	P	03/06/2025	11:38	LB134928
	Barium	94.2	100	94	80 - 120	P	03/06/2025	11:38	LB134928
	Cadmium	5.70	6.0	95	80 - 120	P	03/06/2025	11:38	LB134928
	Chromium	10.4	10.0	104	80 - 120	P	03/06/2025	11:38	LB134928
	Lead	11.9	12.0	99	80 - 120	P	03/06/2025	11:38	LB134928
	Selenium	20.3	20.0	101	80 - 120	P	03/06/2025	11:38	LB134928
	Silver	10.1	10.0	101	80 - 120	P	03/06/2025	11:38	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5170	5000	103	90 - 110	P	03/06/2025	12:19	LB134928
	Barium	9900	10000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Cadmium	2500	2500	100	90 - 110	P	03/06/2025	12:19	LB134928
	Chromium	1020	1000	102	90 - 110	P	03/06/2025	12:19	LB134928
	Lead	5010	5000	100	90 - 110	P	03/06/2025	12:19	LB134928
	Selenium	5210	5000	104	90 - 110	P	03/06/2025	12:19	LB134928
	Silver	1280	1250	102	90 - 110	P	03/06/2025	12:19	LB134928
CCV02	Arsenic	5010	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Barium	10100	10000	101	90 - 110	P	03/06/2025	13:10	LB134928
	Cadmium	2420	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Chromium	985	1000	98	90 - 110	P	03/06/2025	13:10	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	13:10	LB134928
	Selenium	5030	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Silver	1240	1250	100	90 - 110	P	03/06/2025	13:10	LB134928
CCV03	Arsenic	5050	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Barium	9680	10000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Cadmium	2430	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Chromium	993	1000	99	90 - 110	P	03/06/2025	14:00	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Selenium	5040	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Silver	1230	1250	98	90 - 110	P	03/06/2025	14:00	LB134928
CCV04	Arsenic	4960	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Barium	9740	10000	97	90 - 110	P	03/06/2025	14:50	LB134928
	Cadmium	2460	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	14:50	LB134928
	Lead	4910	5000	98	90 - 110	P	03/06/2025	14:50	LB134928
	Selenium	4970	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Silver	1250	1250	100	90 - 110	P	03/06/2025	14:50	LB134928
CCV05	Arsenic	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Barium	9790	10000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Cadmium	2480	2500	99	90 - 110	P	03/06/2025	15:53	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	15:53	LB134928
	Lead	4940	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Selenium	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1240	1250	99	90 - 110	P	03/06/2025	15:53	LB134928

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Barium	537	520	103	90 - 110	P	03/12/2025	10:52	LB135011
	Cadmium	506	510	99	90 - 110	P	03/12/2025	10:52	LB135011
	Chromium	541	520	104	90 - 110	P	03/12/2025	10:52	LB135011
	Lead	1020	1000	102	90 - 110	P	03/12/2025	10:52	LB135011
	Selenium	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Silver	262	250	105	90 - 110	P	03/12/2025	10:52	LB135011

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	22.2	20.0	111	80 - 120	P	03/12/2025	10:56	LB135011
	Barium	89.2	100	89	80 - 120	P	03/12/2025	10:56	LB135011
	Cadmium	5.83	6.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Chromium	10.6	10.0	106	80 - 120	P	03/12/2025	10:56	LB135011
	Lead	11.7	12.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Selenium	17.5	20.0	87	80 - 120	P	03/12/2025	10:56	LB135011
	Silver	11.0	10.0	110	80 - 120	P	03/12/2025	10:56	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	11:29	LB135011
	Barium	9300	10000	93	90 - 110	P	03/12/2025	11:29	LB135011
	Cadmium	2470	2500	99	90 - 110	P	03/12/2025	11:29	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	11:29	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	11:29	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Silver	1260	1250	101	90 - 110	P	03/12/2025	11:29	LB135011
CCV02	Arsenic	5150	5000	103	90 - 110	P	03/12/2025	12:20	LB135011
	Barium	9180	10000	92	90 - 110	P	03/12/2025	12:20	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	12:20	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	12:20	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	12:20	LB135011
	Selenium	5180	5000	104	90 - 110	P	03/12/2025	12:20	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	12:20	LB135011
CCV03	Arsenic	5100	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	13:10	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	13:10	LB135011
	Lead	5000	5000	100	90 - 110	P	03/12/2025	13:10	LB135011
	Selenium	5090	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Silver	1290	1250	103	90 - 110	P	03/12/2025	13:10	LB135011
CCV04	Arsenic	5330	5000	107	90 - 110	P	03/12/2025	14:24	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	14:24	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	14:24	LB135011
	Lead	5090	5000	102	90 - 110	P	03/12/2025	14:24	LB135011
	Selenium	5140	5000	103	90 - 110	P	03/12/2025	14:24	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	14:24	LB135011
CCV05	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	15:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	15:25	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	15:25	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	15:25	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1250	1250	100	90 - 110	P	03/12/2025	15:25	LB135011
CCV06	Arsenic	5190	5000	104	90 - 110	P	03/12/2025	16:25	LB135011
	Barium	9100	10000	91	90 - 110	P	03/12/2025	16:25	LB135011
	Cadmium	2450	2500	98	90 - 110	P	03/12/2025	16:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	16:25	LB135011
	Lead	4990	5000	100	90 - 110	P	03/12/2025	16:25	LB135011
	Selenium	4960	5000	99	90 - 110	P	03/12/2025	16:25	LB135011
	Silver	1260	1250	100	90 - 110	P	03/12/2025	16:25	LB135011
CCV07	Arsenic	5300	5000	106	90 - 110	P	03/12/2025	17:25	LB135011
	Barium	9240	10000	92	90 - 110	P	03/12/2025	17:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	17:25	LB135011
	Lead	5030	5000	101	90 - 110	P	03/12/2025	17:25	LB135011
	Selenium	5120	5000	102	90 - 110	P	03/12/2025	17:25	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	17:25	LB135011
CCV08	Arsenic	5240	5000	105	90 - 110	P	03/12/2025	18:23	LB135011
	Barium	9130	10000	91	90 - 110	P	03/12/2025	18:23	LB135011
	Cadmium	2490	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	18:23	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:23	LB135011
	Selenium	5010	5000	100	90 - 110	P	03/12/2025	18:23	LB135011
	Silver	1280	1250	102	90 - 110	P	03/12/2025	18:23	LB135011
CCV09	Arsenic	5290	5000	106	90 - 110	P	03/12/2025	18:49	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	18:49	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	18:49	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	18:49	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Selenium	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	18:49	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Barium	533	520	102	90 - 110	P	03/13/2025	12:07	LB135035
	Cadmium	503	510	99	90 - 110	P	03/13/2025	12:07	LB135035
	Chromium	525	520	101	90 - 110	P	03/13/2025	12:07	LB135035
	Lead	1000	1000	100	90 - 110	P	03/13/2025	12:07	LB135035
	Selenium	1040	1000	104	90 - 110	P	03/13/2025	12:07	LB135035
	Silver	252	250	101	90 - 110	P	03/13/2025	12:07	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	17.3	20.0	86	80 - 120	P	03/13/2025	12:13	LB135035
	Barium	92.2	100	92	80 - 120	P	03/13/2025	12:13	LB135035
	Cadmium	5.95	6.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Chromium	10.1	10.0	101	80 - 120	P	03/13/2025	12:13	LB135035
	Lead	12.6	12.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Selenium	19.2	20.0	96	80 - 120	P	03/13/2025	12:13	LB135035
	Silver	10.6	10.0	106	80 - 120	P	03/13/2025	12:13	LB135035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5160	5000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Barium	9860	10000	99	90 - 110	P	03/13/2025	12:53	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	12:53	LB135035
	Chromium	1050	1000	105	90 - 110	P	03/13/2025	12:53	LB135035
	Lead	5190	5000	104	90 - 110	P	03/13/2025	12:53	LB135035
	Selenium	5070	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
	Silver	1300	1250	104	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Arsenic	5290	5000	106	90 - 110	P	03/13/2025	13:49	LB135035
	Barium	10100	10000	101	90 - 110	P	03/13/2025	13:49	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
	Chromium	1100	1000	110	90 - 110	P	03/13/2025	13:49	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	13:49	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Arsenic	5130	5000	102	90 - 110	P	03/13/2025	14:40	LB135035
	Barium	9830	10000	98	90 - 110	P	03/13/2025	14:40	LB135035
	Cadmium	2540	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
	Chromium	1050	1000	106	90 - 110	P	03/13/2025	14:40	LB135035
	Lead	5150	5000	103	90 - 110	P	03/13/2025	14:40	LB135035
	Selenium	5060	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Silver	1280	1250	103	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Barium	9580	10000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	15:38	LB135035
	Chromium	1030	1000	103	90 - 110	P	03/13/2025	15:38	LB135035
	Lead	5050	5000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Selenium	4830	5000	97	90 - 110	P	03/13/2025	15:38	LB135035
	Silver	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	16:28	LB135035
	Barium	9880	10000	99	90 - 110	P	03/13/2025	16:28	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	16:28	LB135035
	Lead	5300	5000	106	90 - 110	P	03/13/2025	16:28	LB135035
	Selenium	5150	5000	103	90 - 110	P	03/13/2025	16:28	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Arsenic	5070	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Barium	9980	10000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	17:21	LB135035
	Chromium	1060	1000	106	90 - 110	P	03/13/2025	17:21	LB135035
	Lead	5180	5000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Selenium	4970	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Silver	1290	1250	103	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	18:12	LB135035
	Barium	9960	10000	100	90 - 110	P	03/13/2025	18:12	LB135035
	Cadmium	2640	2500	106	90 - 110	P	03/13/2025	18:12	LB135035
	Chromium	1090	1000	109	90 - 110	P	03/13/2025	18:12	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	18:12	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Barium	9390	10000	94	90 - 110	P	03/13/2025	18:53	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	18:53	LB135035
	Chromium	1040	1000	104	90 - 110	P	03/13/2025	18:53	LB135035
	Lead	5060	5000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Selenium	4840	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
	Silver	1250	1250	100	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Arsenic	5280	5000	106	90 - 110	P	03/13/2025	19:12	LB135035
	Barium	9620	10000	96	90 - 110	P	03/13/2025	19:12	LB135035
	Cadmium	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	19:12	LB135035
	Lead	5120	5000	102	90 - 110	P	03/13/2025	19:12	LB135035
	Selenium	5440	5000	109	90 - 110	P	03/13/2025	19:12	LB135035
	Silver	1290	1250	104	90 - 110	P	03/13/2025	19:12	LB135035

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CRDL STANDARD FOR AA & ICP

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	103	40 - 160	CV	03/05/2025	14:08	LB134903
CRI01	Arsenic	22.6	20.0	113	40 - 160	P	03/06/2025	11:47	LB134928
	Barium	92.7	100	93	40 - 160	P	03/06/2025	11:47	LB134928
	Cadmium	5.78	6.0	96	40 - 160	P	03/06/2025	11:47	LB134928
	Chromium	10.1	10.0	101	40 - 160	P	03/06/2025	11:47	LB134928
	Lead	12.6	12.0	105	40 - 160	P	03/06/2025	11:47	LB134928
	Selenium	22.0	20.0	110	40 - 160	P	03/06/2025	11:47	LB134928
	Silver	10.2	10.0	102	40 - 160	P	03/06/2025	11:47	LB134928
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	03/12/2025	11:05	LB135011
	Barium	88.8	100	89	40 - 160	P	03/12/2025	11:05	LB135011
	Cadmium	5.85	6.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Chromium	10.3	10.0	103	40 - 160	P	03/12/2025	11:05	LB135011
	Lead	10.9	12.0	91	40 - 160	P	03/12/2025	11:05	LB135011
	Selenium	18.3	20.0	92	40 - 160	P	03/12/2025	11:05	LB135011
	Silver	11.1	10.0	111	40 - 160	P	03/12/2025	11:05	LB135011
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Barium	94.0	100	94	40 - 160	P	03/13/2025	12:21	LB135035
	Cadmium	5.90	6.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Chromium	10.4	10.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Lead	11.7	12.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Selenium	21.3	20.0	107	40 - 160	P	03/13/2025	12:21	LB135035
	Silver	10.6	10.0	106	40 - 160	P	03/13/2025	12:21	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB32	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:01	LB134903

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:06	LB134903
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:43	LB134903
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	15:10	LB134903
CCB68	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	15:31	LB134903

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	11:43	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	11:43	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	11:43	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	12:23	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	12:23	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	12:23	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	13:14	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	13:14	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	13:14	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:05	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:05	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:05	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:54	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:54	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:54	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	15:57	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	15:57	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	15:57	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:01	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:01	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:34	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:34	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	12:24	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	12:24	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	13:14	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	13:14	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	14:28	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	14:28	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	15:29	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	15:29	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	16:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	16:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	17:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	17:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:27	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:27	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:53	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:53	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:17	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:58	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	13:54	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	14:48	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	15:42	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	16:32	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	17:25	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	18:35	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	18:35	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:03	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:21	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035

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PREPARATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166988BL		**SOLID**		**Batch Number:**	**PB166988**		**Prep Date:**	**03/05/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	03/05/2025	14:19	LB134903

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Metals
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PREPARATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166977BL		**SOLID**		**Batch Number:**	**PB166977**		**Prep Date:**	**03/05/2025**	
	Arsenic	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Barium	4.90	<4.90	U	4.90	P	03/12/2025	12:28	LB135011
	Cadmium	0.29	<0.29	U	0.29	P	03/12/2025	12:28	LB135011
	Chromium	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011
	Lead	0.59	<0.59	U	0.59	P	03/12/2025	12:28	LB135011
	Selenium	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Silver	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	12.0			-20	20	03/06/2025	11:51	LB134928
	Barium	2.98	6.0	50	-94	106	03/06/2025	11:51	LB134928
	Cadmium	-4.02	1.0	402	-5	7	03/06/2025	11:51	LB134928
	Chromium	55.3	52.0	106	42	62	03/06/2025	11:51	LB134928
	Lead	6.40			-12	12	03/06/2025	11:51	LB134928
	Selenium	2.15			-20	20	03/06/2025	11:51	LB134928
	Silver	0.89			-10	10	03/06/2025	11:51	LB134928
ICSAB01	Arsenic	98.3	104	94	88.4	120	03/06/2025	12:04	LB134928
	Barium	498	537	93	437	637	03/06/2025	12:04	LB134928
	Cadmium	1010	972	104	826	1120	03/06/2025	12:04	LB134928
	Chromium	567	542	105	460	624	03/06/2025	12:04	LB134928
	Lead	55.0	49.0	112	37	61	03/06/2025	12:04	LB134928
	Selenium	47.8	46.0	104	26	66	03/06/2025	12:04	LB134928
	Silver	190	201	94	170	232	03/06/2025	12:04	LB134928
ICSA01	Arsenic	5.78			-20	20	03/12/2025	11:09	LB135011
	Barium	1.43	6.0	24	-94	106	03/12/2025	11:09	LB135011
	Cadmium	-3.50	1.0	350	-5	7	03/12/2025	11:09	LB135011
	Chromium	60.0	52.0	115	42	62	03/12/2025	11:09	LB135011
	Lead	5.99			-12	12	03/12/2025	11:09	LB135011
	Selenium	-15.8			-20	20	03/12/2025	11:09	LB135011
	Silver	0.57			-10	10	03/12/2025	11:09	LB135011
ICSAB01	Arsenic	116	104	112	88.4	120	03/12/2025	11:14	LB135011
	Barium	454	537	84	437	637	03/12/2025	11:14	LB135011
	Cadmium	1000	972	103	826	1120	03/12/2025	11:14	LB135011
	Chromium	595	542	110	460	624	03/12/2025	11:14	LB135011
	Lead	52.3	49.0	107	37	61	03/12/2025	11:14	LB135011
	Selenium	34.2	46.0	74	26	66	03/12/2025	11:14	LB135011
	Silver	226	201	112	170	232	03/12/2025	11:14	LB135011
ICSA01	Arsenic	4.32			-20	20	03/13/2025	12:25	LB135035
	Barium	4.72	6.0	79	-94	106	03/13/2025	12:25	LB135035
	Cadmium	-3.11	1.0	311	-5	7	03/13/2025	12:25	LB135035
	Chromium	60.0	52.0	115	42	62	03/13/2025	12:25	LB135035
	Lead	4.72			-12	12	03/13/2025	12:25	LB135035
	Selenium	-15.2			-20	20	03/13/2025	12:25	LB135035
	Silver	-0.88			-10	10	03/13/2025	12:25	LB135035
ICSAB01	Arsenic	113	104	109	88.4	120	03/13/2025	12:30	LB135035
	Barium	485	537	90	437	637	03/13/2025	12:30	LB135035
	Cadmium	1000	972	103	826	1120	03/13/2025	12:30	LB135035
	Chromium	564	542	104	460	624	03/13/2025	12:30	LB135035
	Lead	54.2	49.0	111	37	61	03/13/2025	12:30	LB135035
	Selenium	43.0	46.0	94	26	66	03/13/2025	12:30	LB135035

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Metals
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INTERFERENCE CHECK SAMPLE

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Silver	218	201	108	170	232	03/13/2025	12:30	LB135035

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: JPCL Engineering **level:** low **sdg no.:** Q1487

contract: JPCL01 **lab code:** CHEM **case no.:** Q1487 **sas no.:** Q1487

matrix: Solid **sample id:** Q1474-01 **client id:** BU-03-02282025MS

Percent Solids for Sample: 93.3 **Spiked ID:** Q1474-01MS **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.023		0.28	98		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: JPCL Engineering **level:** low **sdg no.:** Q1487

contract: JPCL01 **lab code:** CHEM **case no.:** Q1487 **sas no.:** Q1487

matrix: Solid **sample id:** Q1474-01 **client id:** BU-03-02282025MSD

Percent Solids for Sample: 93.3 **Spiked ID:** Q1474-01MSD **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.023		0.27	109		CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: JPCL Engineering **level:** low **sdg no.:** Q1487

contract: JPCL01 **lab code:** CHEM **case no.:** Q1487 **sas no.:** Q1487

matrix: Solid **sample id:** Q1482-01 **client id:** OR-03-030425MS

Percent Solids for Sample: 90.8 **Spiked ID:** Q1482-01MS **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.2		2.23		38.8	85		P
Barium	mg/Kg	75 - 125	40.0		28.9		9.7	115		P
Cadmium	mg/Kg	75 - 125	8.89		0.29	U	9.7	92		P
Chromium	mg/Kg	75 - 125	27.2		9.62		19.4	91		P
Lead	mg/Kg	75 - 125	57.1		9.00		48.5	99		P
Selenium	mg/Kg	75 - 125	76.5		0.42	J	97.0	78		P
Silver	mg/Kg	75 - 125	4.47		1.44		3.6	84		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: JPCL Engineering **level:** low **sdg no.:** Q1487

contract: JPCL01 **lab code:** CHEM **case no.:** Q1487 **sas no.:** Q1487

matrix: Solid **sample id:** Q1482-01 **client id:** OR-03-030425MSD

Percent Solids for Sample: 90.8 **Spiked ID:** Q1482-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.7		2.23		38.5	87		P
Barium	mg/Kg	75 - 125	39.3		28.9		9.6	109		P
Cadmium	mg/Kg	75 - 125	8.98		0.29	U	9.6	94		P
Chromium	mg/Kg	75 - 125	26.9		9.62		19.2	90		P
Lead	mg/Kg	75 - 125	57.5		9.00		48.1	101		P
Selenium	mg/Kg	75 - 125	77.5		0.42	J	96.2	80		P
Silver	mg/Kg	75 - 125	4.38		1.44		3.6	82		P

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Metals
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Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Matrix: Solid **Sample ID:** Q1474-01 **Client ID:** BU-03-02282025DUP

Percent Solids for Sample: 93.3 **Duplicate ID** Q1474-01DUP **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.023		0.022		4		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Matrix: Solid **Sample ID:** Q1474-01MS **Client ID:** BU-03-02282025MSD

Percent Solids for Sample: 93.3 **Duplicate ID** Q1474-01MSD **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.30		0.32		7		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Matrix: Solid **Sample ID:** Q1482-01 **Client ID:** OR-03-030425DUP

Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01DUP **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	2.23		2.11		6		P
Barium	mg/Kg	20	28.9		30.8		6		P
Cadmium	mg/Kg	20	0.29	U	0.31	U			P
Chromium	mg/Kg	20	9.62		10.3		7		P
Lead	mg/Kg	20	9.00		9.71		8		P
Selenium	mg/Kg	20	0.42	J	1.03	U	200.0		P
Silver	mg/Kg	20	1.44		1.54		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Matrix: Solid **Sample ID:** Q1482-01MS **Client ID:** OR-03-030425MSD

Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	35.2		35.7		1		P
Barium	mg/Kg	20	40.0		39.3		2		P
Cadmium	mg/Kg	20	8.89		8.98		1		P
Chromium	mg/Kg	20	27.2		26.9		1		P
Lead	mg/Kg	20	57.1		57.5		1		P
Selenium	mg/Kg	20	76.5		77.5		1		P
Silver	mg/Kg	20	4.47		4.38		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166977BS							
Arsenic	mg/Kg	39.8	39.2		98	80 - 120	P
Barium	mg/Kg	10.0	8.73		87	80 - 120	P
Cadmium	mg/Kg	10.0	9.17		92	80 - 120	P
Chromium	mg/Kg	19.9	21.0		106	80 - 120	P
Lead	mg/Kg	49.8	47.0		94	80 - 120	P
Selenium	mg/Kg	99.5	95.1		96	80 - 120	P
Silver	mg/Kg	3.7	3.85		104	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166988BS							
Mercury	mg/Kg	0.25	0.25		100	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

BU-03-02282025L

Lab Name: Chemtech Consulting Group **Contract:** JPCL01

Lab Code: CHEM **Lb No.:** lb134903 **Lab Sample ID :** Q1474-01L **SDG No.:** Q1487

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.023		0.066	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-03-030425L

Lab Name: Chemtech Consulting Group **Contract:** JPCL01

Lab Code: CHEM **Lb No.:** lb134928 **Lab Sample ID :** Q1482-01L **SDG No.:** Q1487

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	2.23		2.89	J	30		P
Barium	28.9		31.9		11		P
Cadmium	0.29	U	1.44	U			P
Chromium	9.62		10.8		13		P
Lead	9.00		9.93		10		P
Selenium	0.42	J	4.79	U	100.0		P
Silver	1.44		1.55	J	8		P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1487 **SAS No.:** Q1487

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Method:**

Case No.: Q1487 **SAS No.:** Q1487

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166977**						
PB166977BL	PB166977BL	MB	SOLID	03/05/2025	2.04	100.0	100.00
PB166977BS	PB166977BS	LCS	SOLID	03/05/2025	2.01	100.0	100.00
Q1482-01DUP	OR-03-030425DUP	DUP	SOLID	03/05/2025	2.14	100.0	90.80
Q1482-01MS	OR-03-030425MS	MS	SOLID	03/05/2025	2.27	100.0	90.80
Q1482-01MSD	OR-03-030425MSD	MSD	SOLID	03/05/2025	2.29	100.0	90.80
Q1487-01	DN-B-42	SAM	SOLID	03/05/2025	2.11	100.0	88.10

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Fax : 908 789 8922

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SAMPLE PREPARATION SUMMARY

Client: JPCL Engineering **SDG No.:** Q1487

Contract: JPCL01 **Lab Code:** CHEM **Method:**

Case No.: Q1487 **SAS No.:** Q1487

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166988**						
PB166988BL	PB166988BL	MB	SOLID	03/05/2025	0.52	35.0	100.00
PB166988BS	PB166988BS	LCS	SOLID	03/05/2025	0.55	35.0	100.00
Q1474-01DUP	BU-03-02282025DUP	DUP	SOLID	03/05/2025	0.55	35.0	93.30
Q1474-01MS	BU-03-02282025MS	MS	SOLID	03/05/2025	0.53	35.0	93.30
Q1474-01MSD	BU-03-02282025MSD	MSD	SOLID	03/05/2025	0.56	35.0	93.30
Q1487-01	DN-B-42	SAM	SOLID	03/05/2025	0.51	35.0	88.10

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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1487 **Sas no.:** Q1487 **Sdg no.:** Q1487

Instrument id number: **Method:** **Run number:** LB134903

Start date: 03/05/2025 **End date:** 03/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1342	HG
S0.2	S0.2	1	1344	HG
S2.5	S2.5	1	1346	HG
S5	S5	1	1349	HG
S7.5	S7.5	1	1351	HG
S10	S10	1	1356	HG
ICV32	ICV32	1	1359	HG
ICB32	ICB32	1	1401	HG
CCV65	CCV65	1	1403	HG
CCB65	CCB65	1	1406	HG
CRA	CRA	1	1408	HG
PB166988BL	PB166988BL	1	1419	HG
PB166988BS	PB166988BS	1	1421	HG
Q1474-01DUP	BU-03-02282025DUP	1	1431	HG
Q1474-01MS	BU-03-02282025MS	1	1434	HG
Q1474-01MSD	BU-03-02282025MSD	1	1436	HG
CCV66	CCV66	1	1440	HG
CCB66	CCB66	1	1443	HG
Q1487-01	DN-B-42	1	1506	HG
CCV67	CCV67	1	1508	HG
CCB67	CCB67	1	1510	HG
Q1474-01L	BU-03-02282025L	5	1522	HG
CCV68	CCV68	1	1529	HG
CCB68	CCB68	1	1531	HG

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metals
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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1487 **Sas no.:** Q1487 **Sdg no.:** Q1487

Instrument id number: **Method:** **Run number:** LB134928

Start date: 03/06/2025 **End date:** 03/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1024	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1028	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1032	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1037	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1041	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1050	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1138	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1143	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1147	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1151	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1204	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1219	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1223	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1400	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01DUP	OR-03-030425DUP	1	1426	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01L	OR-03-030425L	5	1430	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01MS	OR-03-030425MS	1	1434	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01MSD	OR-03-030425MSD	1	1438	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1454	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1553	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1557	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1487 **Sas no.:** Q1487 **Sdg no.:** Q1487

Instrument id number: **Method:** **Run number:** LB135011

Start date: 03/12/2025 **End date:** 03/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1027	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1031	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1035	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1039	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1044	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1048	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1052	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1056	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1101	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1105	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1109	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1114	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1129	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1134	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1220	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1224	Ag,As,Ba,Cd,Cr,Pb,Se
PB166977BL	PB166977BL	1	1228	Ag,As,Ba,Cd,Cr,Pb,Se
PB166977BS	PB166977BS	1	1233	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1428	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1525	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1625	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1630	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1730	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1827	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1849	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1487 **Sas no.:** Q1487 **Sdg no.:** Q1487

Instrument id number: **Method:** **Run number:** LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1146	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1150	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1154	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1159	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1203	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1207	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1213	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1217	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1221	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1225	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1230	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1253	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1258	Ag,As,Ba,Cd,Cr,Pb,Se
Q1487-01	DN-B-42	1	1327	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1349	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1354	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1440	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1448	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1538	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1542	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1721	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1812	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1835	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1903	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1912	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1921	Ag,As,Ba,Cd,Cr,Pb,Se

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1487
QUOTE NO. ~~P3864~~
COC Number 2046189

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: JPCL Engineering, LLC
ADDRESS: 2 Clerico Ln, Bldg #1
CITY Hillsborough STATE: NJ ZIP 08844
ATTENTION: Paul Rotondi
PHONE: (609) 203-3846 FAX: N/A

CLIENT PROJECT INFORMATION

PROJECT NAME: 2 Bridges over the Bronx
PROJECT NO.: LOCATION: Bronx NY
PROJECT MANAGER:
e-mail: PRotondi@JPclengineering.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS client PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1. SVOC 2. Pest 3. PCB 4. METALS 5. 6. 7. 8. 9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
											NONE						← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	DN-B-42	Soil	X				3	3	3	3	3						
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-4-25 1520	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: IR Gun #1

Page _____ of
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488