

LAB CHRONICLE

OrderID:	P5051	OrderDate:	12/2/2024 2:00:00 PM
Client:	New York City DEP of Environmental Protection/BWS	Project:	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5051-01	14B-1	WATER			12/02/24 07:33			12/02/24
			Field pH	SM4500-H B			12/02/24 07:38	
			Field Temperature	SM2550-B			12/02/24 07:38	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	
P5051-02	14B-2	WATER			12/02/24 08:33			12/02/24
			Field pH	SM4500-H B			12/02/24 08:38	
			Field Temperature	SM2550-B			12/02/24 08:38	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	
P5051-03	14B-3	WATER			12/02/24 09:33			12/02/24
			Field pH	SM4500-H B			12/02/24 09:39	
			Field Temperature	SM2550-B			12/02/24 09:39	
			Non-Polar Material	1664A			12/07/24 10:10	
			TSS	SM2540 D			12/03/24 09:40	

LAB CHRONICLE

P5051-04	14B-4	WATER			12/02/24 10:33	12/02/24
			Field pH	SM4500-H B		12/02/24 10:38
			Field Temperature	SM2550-B		12/02/24 10:38
			Non-Polar Material	1664A		12/07/24 10:10
			TSS	SM2540 D		12/03/24 09:40
P5051-07	14B-(1-4)-COMP	WATER			12/02/24 12:00	12/02/24
			Cyanide-Amenable	SM4500-CN B,G Cyanide-Amenable		12/05/24 00:00
			Cyanide	SM4500-CN C,E	12/05/24	12/05/24 13:47
			Hexavalent Chromium	SM3500-Cr B		12/02/24 16:54



SAMPLE DATA

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 07:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-1	SDG No.:	P5051
Lab Sample ID:	P5051-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.61		1	0	0	pH		12/02/24 07:38	SM4500-H B
Field Temperature	11.4		1	0	0	o C		12/02/24 07:38	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	4110		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 08:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-2	SDG No.:	P5051
Lab Sample ID:	P5051-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.73		1	0	0	pH		12/02/24 08:38	SM4500-H B
Field Temperature	10.4		1	0	0	o C		12/02/24 08:38	SM 2550 B-10
Non-Polar Material	0.40	U	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	3650		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 09:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-3	SDG No.:	P5051
Lab Sample ID:	P5051-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.75		1	0	0	pH		12/02/24 09:39	SM4500-H B
Field Temperature	11.1		1	0	0	o C		12/02/24 09:39	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	3710		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 10:33
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-4	SDG No.:	P5051
Lab Sample ID:	P5051-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	6.71		1	0	0	pH		12/02/24 10:38	SM4500-H B
Field Temperature	12.0		1	0	0	o C		12/02/24 10:38	SM 2550 B-10
Non-Polar Material	0.70	J	1	0.40	5.00	mg/L		12/07/24 10:10	1664A
TSS	4840		1	1.00	4.00	mg/L		12/03/24 09:40	SM 2540 D-15

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	12/02/24 00:00
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	12/02/24
Client Sample ID:	14B-(1-4)-COMP	SDG No.:	P5051
Lab Sample ID:	P5051-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0041	J	1	0.00093	0.0050	mg/L	12/05/24 09:00	12/05/24 13:47	SM 4500-CN C-16 plus E-16
Cyanide-Amenable	0.0010	U	1	0.0010	0.0050	mg/L		12/05/24 00:00	SM 4500-CN B-16 plus G-16
Dissolved Hexavalent Chromium	0.0020	U	1	0.0020	0.010	mg/L		12/02/24 16:54	SM 3500-Cr B-11

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133695

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.499	0.5	100	95-105	12/02/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	12/02/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	12/02/2024

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133772

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.097	0.099	98	85-115	12/05/2024
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	12/05/2024
Sample ID: Cyanide	CCV2	mg/L	0.25	0.25	100	90-110	12/05/2024
Sample ID: Cyanide	CCV3	mg/L	0.25	0.25	100	90-110	12/05/2024

Initial and Continuing Calibration Verification

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB134007

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Field pH		pH	7.01	7	100	90-110	12/02/2024
Sample ID:	CCV1						
Field pH		pH	7.01	7	100	90-110	12/02/2024
Sample ID:	CCV2						
Field pH		pH	7	7	100	90-110	12/02/2024



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

Initial and Continuing Calibration Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133695

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	12/02/2024

Initial and Continuing Calibration Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

RunNo.: LB133772

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024

Preparation Blank Summary

Client: New York City DEP of Environmental Protection/BWS

SDG No.: P5051

Project: Industrial Wastewater Discharge Permit - Fall 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133695BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.002	0.01	12/02/2024
Sample ID: LB133715BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/03/2024
Sample ID: LB133806BL							
Non-Polar Material	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/07/2024
Sample ID: PB165397BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	12/05/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P4997-07
Client ID: 14B-(1-4)-COMPMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.040		0.0045	J	0.04	1	89		12/05/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P4997-07
Client ID: 14B-(1-4)-COMPMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.040		0.0045	J	0.04	1	89		12/05/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-04
Client ID: 14B-4MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Non-Polar Material	mg/L	78-114	20.7		0.70	J	20.0	1	100		12/07/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-04
Client ID: 14B-4MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Non-Polar Material	mg/L	78-114	20.4		0.70	J	20.0	1	98		12/07/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-07
Client ID: 14B-(1-4)-COMPMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.98		0.0020	U	1.0	2	98		12/02/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5051-07
Client ID: 14B-(1-4)-COMPMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0020	U	1.0	2	99		12/02/2024

Matrix Spike Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5068-04
Client ID:	14B-4MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Non-Polar Material	mg/L	78-114	20.4		0.40	J	20.0	1	100		12/07/2024

Matrix Spike Summary

Client: New York City DEP of Environmental Protection/BWS **SDG No.:** P5051
Project: Industrial Wastewater Discharge Permit - Fall 2024 **Sample ID:** P5068-04
Client ID: 14B-4MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Non-Polar Material	mg/L	78-114	22.5		0.40	J	20.0	1	111		12/07/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P4997-07
Client ID:	14B-(1-4)-COMPDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.0045	J	0.0042	J	1	7		12/05/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P4997-07
Client ID:	14B-(1-4)-COMPMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.040		0.040		1	0		12/05/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5051-04
Client ID:	14B-4DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TSS	mg/L	+/-5	4840		4850		1	0.21		12/03/2024
Field pH	pH	+/-20	6.71		6.73		1	0.3		12/02/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5051-04
Client ID:	14B-4MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Non-Polar Material	mg/L	+/-18	20.7		20.4		1	1.46		12/07/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5051-07
Client ID:	14B-(1-4)-COMPDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0020	U	0.0020	U	1	0		12/02/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5051-07
Client ID:	14B-(1-4)-COMPMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.98		0.99		2	0.61		12/02/2024

Duplicate Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Sample ID:	P5068-04
Client ID:	14B-4MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Non-Polar Material	mg/L	+/-18	20.4		22.5		1	9.79		12/07/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Run No.:	LB133695

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133695BS							
Hexavalent Chromium	mg/L	0.5	0.51		102	1	90-111	12/02/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Run No.:	LB133715

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133715BS							
TSS	mg/L	550	536		98	1	90-110	12/03/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Run No.:	LB133806

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133806BS							
Non-Polar Material	mg/L	20.0	16.6		83	1	78-114	12/07/2024

Laboratory Control Sample Summary

Client:	New York City DEP of Environmental Protection/BWS	SDG No.:	P5051
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Run No.:	LB133772

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB165397BS							
Cyanide	mg/L	0.1	0.095		95	1	85-115	12/05/2024