

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : NJ DRINKING WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1172

ATTENTION : QA Officer



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1172

Project ID : NJ Drinking Water PT

Client : Chemtech Consulting Group

Lab Sample Number

Q1172-01
Q1172-02
Q1172-03
Q1172-04
Q1172-05
Q1172-06
Q1172-07
Q1172-08
Q1172-09
Q1172-10
Q1172-11

Client Sample Number

PT-TURB-WS
PT-TURB-WS
PT-MIN-WS
PT-TM-WS
PT-HG-WS
PT-SIO2-WS
PT-RVOA-WS
PT-UNRVOA-WS
PT-THM-WS
PT-ADD-WS
PT-EDBCP-WS

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: 2/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Drinking Water PT

Project # N/A

Chemtech Project # Q1172

Test Name: Turbidity

A. Number of Samples and Date of Receipt:

11 Water samples were received on 01/15/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hardness, Calcium, Hardness, Total, Mercury, Metals Group3, Metals Group6, Metals Group7, Silica, Turbidity, VOCGC Group 1, VOCMS Group1, VOCMS Group2, VOCMS Group3, VOCMS Group4 and VOCMS Group5. This data package contains results for Turbidity.

C. Analytical Techniques:

The analysis of Turbidity was based on method 180.1 and The analysis of Turbidity was based on method SM2130 B.

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 Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1172

MATRIX: Water

METHOD: 180.1,SM2130 B

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1172

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 Custody

✓

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: 02/18/2025

LAB CHRONICLE

OrderID:	Q1172	OrderDate:	1/23/2025 2:53:00 PM
Client:	Chemtech Consulting Group	Project:	NJ Drinking Water PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1172-01	PT-TURB-WS	Water	Turbidity	180.1	01/13/25 10:00		02/13/25 11:08	01/15/25
Q1172-02	PT-TURB-WS	Water	Turbidity	SM2130 B	01/13/25 10:00		02/13/25 11:08	01/15/25



SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/13/25 10:00
Project:	NJ Drinking Water PT	Date Received:	01/15/25
Client Sample ID:	PT-TURB-WS	SDG No.:	Q1172
Lab Sample ID:	Q1172-01	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	7.12		1	0.075	1.00	NTU		02/13/25 11:08	180.1

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:	Chemtech Consulting Group	Date Collected:	01/13/25 10:00
Project:	NJ Drinking Water PT	Date Received:	01/15/25
Client Sample ID:	PT-TURB-WS	SDG No.:	Q1172
Lab Sample ID:	Q1172-02	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	7.12		1	0.075	1.00	NTU		02/13/25 11:08	SM 2130 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

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Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: Q1172

Project: NJ Drinking Water PT

RunNo.: LB134679

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Turbidity		NTU	9.474	10	95	90-110	02/13/2025
Sample ID:	CCV1						
Turbidity		NTU	9.508	10	95	90-110	02/13/2025
Sample ID:	CCV2						
Turbidity		NTU	9.282	10	93	90-110	02/13/2025

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: Q1172

Project: NJ Drinking Water PT

RunNo.: LB134680

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Turbidity	ICV	NTU	9.474	10	95	90-110	02/13/2025
Sample ID: Turbidity	CCV1	NTU	9.508	10	95	90-110	02/13/2025
Sample ID: Turbidity	CCV2	NTU	9.282	10	93	90-110	02/13/2025

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: Q1172

Project: NJ Drinking Water PT

RunNo.: LB134679

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	02/13/2025
Sample ID: CCB1 Turbidity	NTU	0.084	0.5000	J	0.075	1	02/13/2025
Sample ID: CCB2 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	02/13/2025

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: Q1172

Project: NJ Drinking Water PT

RunNo.: LB134680

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	02/13/2025
Sample ID: CCB1 Turbidity	NTU	0.084	0.5000	J	0.075	1	02/13/2025
Sample ID: CCB2 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	02/13/2025

Preparation Blank Summary

Client: Chemtech Consulting Group

SDG No.: Q1172

Project: NJ Drinking Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134679BL Turbidity	NTU	0.077	0.5000	J	0.075	1.0	02/13/2025
Sample ID: LB134680BL Turbidity	NTU	0.077	0.5000	J	0.075	1.0	02/13/2025



RAW DATA

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Analysis Method: 180.1

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB134679

Reagent/Standard	Lot/Log #
TURBIDITY LOD STD, 0.5NTU	WP111918
Turbidity Calibration std, 0NTU	WP111913
Turbidity Calibration std, 20NTU	WP111917
Turbidity Calibration std, 40NTU	WP111912
Turbidity Calibration std, 1NTU	WP111914
Turbidity Calibration std, 5NTU	WP111915
Turbidity Calibration - CCV std, 10 NTU	WP111916

Intercept: 0.0666

Slope: 0.887

Regression: 0.9997

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.145	0.09		02/13/2025	10:20
2	CAL2	1	1	1.020	1.08	7.5	02/13/2025	10:24
3	CAL3	5	1	4.920	5.47	9.4	02/13/2025	10:28
4	CAL4	10	1	8.530	9.54	-4.6	02/13/2025	10:32
5	CAL5	20	1	17.400	19.54	-2.3	02/13/2025	10:36
6	CAL6	40	1	35.800	40.29	0.7	02/13/2025	10:40

Analysis Method: 180.1

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB134679

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.470	9.474	02/13/2025	10:44
2	ICB		1	0.127	0.068	02/13/2025	10:48
3	CCV1	10	1	8.500	9.508	02/13/2025	10:52
4	CCB1		1	0.141	0.084	02/13/2025	10:56
5	LB134679BL		1	0.135	0.077	02/13/2025	11:00
6	Q1168-09		1	0.550	0.545	02/13/2025	11:04
7	Q1172-01		1	6.380	7.118	02/13/2025	11:08
8	CCV2	10	1	8.300	9.282	02/13/2025	11:12
9	CCB2		1	0.129	0.070	02/13/2025	11:16

WORKLIST(Hardcopy Internal Chain)

LB134679

WorkList Name : TURBIDITY PT-02122021

WorkList ID : 187675

Department : Wet-Chemistry

Date : 02-12-2025 11:46:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-09	MDL-WATER-03-QT1-2025	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	01/23/2025	180.1
Q1172-01	PT-TURB-WS	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	01/13/2025	180.1

Date/Time 02-13-2025 10:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: ST(QA)

Date/Time
Raw Sample Received by:

Analytical Summary Report

Analysis Method: SM2130 B

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB134680

Reagent/Standard	Lot/Log #
TURBIDITY LOD STD, 0.5NTU	WP111918
Turbidity Calibration std, 0NTU	WP111913
Turbidity Calibration std, 20NTU	WP111917
Turbidity Calibration std, 40NTU	WP111912
Turbidity Calibration std, 1NTU	WP111914
Turbidity Calibration std, 5NTU	WP111915
Turbidity Calibration - CCV std, 10 NTU	WP111916
10 NTU Standard 500 ml	W3116

Intercept: 0.0666

Slope: 0.887

Regression: 0.9997

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.145	0.09		02/13/2025	10:20
2	CAL2	1	1	1.020	1.08	7.5	02/13/2025	10:24
3	CAL3	5	1	4.920	5.47	9.4	02/13/2025	10:28
4	CAL4	10	1	8.530	9.54	-4.6	02/13/2025	10:32
5	CAL5	20	1	17.400	19.54	-2.3	02/13/2025	10:36
6	CAL6	40	1	35.800	40.29	0.7	02/13/2025	10:40

Analysis Method: SM2130 B

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB134680

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.470	9.474	02/13/2025	10:44
2	ICB		1	0.127	0.068	02/13/2025	10:48
3	CCV1	10	1	8.500	9.508	02/13/2025	10:52
4	CCB1		1	0.141	0.084	02/13/2025	10:56
5	LB134680BL		1	0.135	0.077	02/13/2025	11:00
6	Q1168-12		1	0.550	0.545	02/13/2025	11:04
7	Q1172-02		1	6.380	7.118	02/13/2025	11:08
8	CCV2	10	1	8.300	9.282	02/13/2025	11:12
9	CCB2		1	0.129	0.070	02/13/2025	11:16

LB134680

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TURBIDITY PT -0212202

WorkList ID : 187676

Department : Wet-Chemistry

Date : 02-12-2025 11:47:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-12	MDL-WATER-06-QT1-2025	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	01/23/2025	SM2130 B
Q1172-02	PT-TURB-WS	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	01/13/2025	SM2130 B

Date/Time 02-13-2025 10:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: SI(QAO)

Date/Time
Raw Sample Received by:
Raw Sample Relinquished by:

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134679

Review By	Niha	Review On	2/18/2025 1:10:31 PM
Supervise By	Iwona	Supervise On	2/18/2025 1:12:12 PM
SubDirectory	LB134679	Test	Turbidity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111918,WP111913,WP111917,WP111912,WP111914,WP111915,WP111916		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/13/25 10:20		Niha	OK
2	CAL2	CAL2	CAL	02/13/25 10:24		Niha	OK
3	CAL3	CAL3	CAL	02/13/25 10:28		Niha	OK
4	CAL4	CAL4	CAL	02/13/25 10:32		Niha	OK
5	CAL5	CAL5	CAL	02/13/25 10:36		Niha	OK
6	CAL6	CAL6	CAL	02/13/25 10:40		Niha	OK
7	ICV	ICV	ICV	02/13/25 10:44		Niha	OK
8	ICB	ICB	ICB	02/13/25 10:48		Niha	OK
9	CCV1	CCV1	CCV	02/13/25 10:52		Niha	OK
10	CCB1	CCB1	CCB	02/13/25 10:56		Niha	OK
11	LB134679BL	LB134679BL	MB	02/13/25 11:00		Niha	OK
12	Q1168-09	MDL-WATER-03-QT1	SAM	02/13/25 11:04		Niha	OK
13	Q1172-01	PT-TURB-WS	SAM	02/13/25 11:08		Niha	OK
14	CCV2	CCV2	CCV	02/13/25 11:12		Niha	OK
15	CCB2	CCB2	CCB	02/13/25 11:16		Niha	OK

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134680

Review By	Niha	Review On	2/18/2025 1:11:05 PM
Supervise By	Iwona	Supervise On	2/18/2025 1:12:46 PM
SubDirectory	LB134680	Test	Turbidity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111918,WP111913,WP111917,WP111912,WP111914,WP111915,WP111916,W3116		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/13/25 10:20		Niha	OK
2	CAL2	CAL2	CAL	02/13/25 10:24		Niha	OK
3	CAL3	CAL3	CAL	02/13/25 10:28		Niha	OK
4	CAL4	CAL4	CAL	02/13/25 10:32		Niha	OK
5	CAL5	CAL5	CAL	02/13/25 10:36		Niha	OK
6	CAL6	CAL6	CAL	02/13/25 10:40		Niha	OK
7	ICV	ICV	ICV	02/13/25 10:44		Niha	OK
8	ICB	ICB	ICB	02/13/25 10:48		Niha	OK
9	CCV1	CCV1	CCV	02/13/25 10:52		Niha	OK
10	CCB1	CCB1	CCB	02/13/25 10:56		Niha	OK
11	LB134680BL	LB134680BL	MB	02/13/25 11:00		Niha	OK
12	Q1168-12	MDL-WATER-06-QT1	SAM	02/13/25 11:04		Niha	OK
13	Q1172-02	PT-TURB-WS	SAM	02/13/25 11:08		Niha	OK
14	CCV2	CCV2	CCV	02/13/25 11:12		Niha	OK
15	CCB2	CCB2	CCB	02/13/25 11:16		Niha	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1172

Test : Turbidity

Prepbatch ID :

Sequence ID/Qc Batch ID: LB134679, LB134680,

Standard ID :

WP111542, WP111543, WP111544, WP111912, WP111913, WP111914, WP111915, WP111916, WP111917, WP111918,

Chemical ID :

W3078, W3081, W3112, W3116,

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Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1167	hydrazine sulfate solution 1	WP111542	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/28/2025
FROM 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	WP111543	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/28/2025
FROM 10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1102	Formazin turbidity 400 NTU suspension	WP111544	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/28/2025
FROM 90.00000ml of W3112 + 5.00000ml of WP111542 + 5.00000ml of WP111543 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3718	Turbidity Calibration std, 40NTU	WP111912	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025
FROM 90.00000ml of W3112 + 10.00000ml of WP111544 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3713	Turbidity Calibration std, 0NTU	WP111913	02/13/2025	02/14/2025	Niha Farheen Shaik	None	None	Iwona Zarych 02/14/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3720	Turbidity Calibration std, 1NTU	WP111914	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025

FROM 97.50000ml of W3112 + 2.50000ml of WP111912 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3722	Turbidity Calibration std, 5NTU	WP111915	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025
FROM 87.50000ml of W3112 + 12.50000ml of WP111912 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3807	Turbidity Calibration - CCV std, 10 NTU	WP111916	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025
FROM 97.50000ml of W3112 + 2.50000ml of WP111544 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3714	Turbidity Calibration std, 20NTU	WP111917	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP111544 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1998	TURBIDITY LOD STD, 0.5NTU	WP111918	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 02/14/2025

FROM 5.00000ml of W3116 + 95.00000ml of W3112 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2177-1 / Hydrazine sulfate, 500 gms	BCCK9980	10/13/2028	01/26/2024 / lwona	01/26/2024 / lwona	W3078

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA36462-36 / hexamethylenetetramine	M02K021	01/02/2027	02/26/2024 / lwona	02/26/2024 / lwona	W3081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	2659949 / 10 NTU Standard 500 ml	A4151	05/30/2026	07/12/2024 / lwona	07/12/2024 / lwona	W3116

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Name:

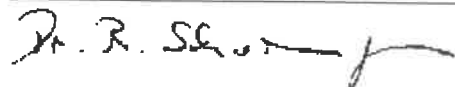
Certificate of Analysis

Hydrazine sulfate salt - ACS reagent, $\geq 99.0\%$

Product Number: 216046
Batch Number: BCCCK9980
Brand: SIAL
CAS Number: 10034-93-2
Formula: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{SO}_4$
Formula Weight: 130,12 g/mol
Quality Release Date: 13 OCT 2023



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration With Iodine	$\geq 99.0 \%$	99.4 %
Residue on Ignition	$\leq 0.05 \%$	0.01 %
Infrared Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Heavy Metals $\leq 0.002 \%$ (as Pb), Insoluble Matter $\leq 0.005 \%$ (C= 6.67%, H ₂ O)		
Iron (Fe)	$\leq 10 \text{ mg/kg}$	$< 10 \text{ mg/kg}$
Chloride (Cl)	$\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

W3081 Recieved on 02/26/2024 by IZ

Product No.: 036462
Product: Hexamethylenetetramine, ACS, 99+ %
Lot No.: M02K021

	Appearance	White solid	
Test	Limits	Results	
Assay	99.0 % min	100.7 %	
Loss on drying	2.0 % max	0.2 %	
Heavy metals (as Pb)	0.001 % max	< 0.001 %	
Residue after ignition	0.1 % max	< 0.1 %	

Retest Date: January 2, 2027

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Certificate of Analysis List

For request number 2018129

Catalog Number Entered	Lot Number Entered	Related Catalog Number	Related Lot Code	Description
2659949	4151	N/A	N/A	StablCal sup TS sup Standard, 10 NTU

Total Enclosures: 1

*Certificate of Analysis*

Page 1

COMMODITY: **StablCal|sup|TS|sup Standard, 10 NTU**COMMODITY NUMBER: **2659949**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A4151****6/4/2024****6/7/2024**

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Turbidity	9.5 to 10.5 NTU	9.99 NTU

The expiration date is May 2026

Formazin and StablCal® solutions provided by Hach are not NIST traceable because the NIST does not carry turbidity standards. However, the use of Formazin and StablCal® as used in Hach method 8195 are accepted by the EPA as a primary standard to be used in the calibration of turbidity instruments.

Certified by _____

Scott Als
Analytical Services Chemist



SHIPPING DOCUMENTS

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Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Date	Order #
01/13/2025	333291



For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: MA
01/15/2025 10:00

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-974	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WS	WS Trace Metals Set : (TM and HG)		
1	1	0	PT-TM-WS	WS Trace Metals 1	WS0125	9099-04B
1	1	0	PT-HG-WS	WS Trace Metals Mercury	WS0125	9099-05
1	1	0	PT-MIN-WS	WS Minerals Only	WS0125	9099-51
1	1	0	PT-TURB-WS	WS Turbidity	WS0125	9099-13
1	1	0	PT-SIO2-WS	WS Silica	WS0125	9099-17
1	1	0	PT-RVOA-WS	WS Regulated Volatiles	WS0125	9099-21
1	1	0	PT-UNRVOA-WS	WS Unregulated Volatiles	WS0125	9099-22
1	1	0	PT-THM-WS	WS Trihalomethanes	WS0125	9099-23
1	1	0	PT-EDBCP-WS	WS EDB/DBCP/TCP	WS0125	9099-27
1	1	0	PT-ADD-WS	WS Gasoline Additives	WS0125	9099-36

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