

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME: CARRIER POST-TREATMENT

SCIENTIFIC DESIGN

49 Industrial Avenue

Little Ferry, NJ - 07643

Phone No: 2016410500

ORDER ID: Q3094

ATTENTION: Emily Chen







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Cover Page

Order ID: Q3094

Project ID: Carrier Post-Treatment

Client: Scientific Design

Lab Sample Number

Client Sample Number

Q3094-01 5670-18-000F Q3094-02 5674-08-001W Q3094-03 5674-08-001WP Q3094-04 5674-11-001C

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 :

By Nimisha Pandya, QA/QC Supervisor at 11:44 am, Sep 23, 2025

Date: 9/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Scientific Design

Project Name: Carrier Post-Treatment

Project # N/A Order ID # Q3094

Test Name: BOD5,TOC

A. Number of Samples and Date of Receipt:

4 Water samples were received on 09/12/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: BOD5,TOC. This data package contains results for BOD5,TOC.

C. Analytical Techniques:

The analysis of TOC was based on method 9060A and The analysis of BOD5 was based on method SM5210 B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample 5670-18-000F was diluted due to high concentrations for TOC & Sample 5674-08-001W was diluted due to high concentrations for TOC & Sample 5674-08-001WDL was diluted due to high concentrations for TOC & Sample 5674-11-001C was diluted due to high concentrations for TOC.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (5674-11-001CMS) analysis met criteria for all compounds except for TOC due to matrix interfernce.

The Matrix Spike Duplicate (5674-11-001CMSD) analysis met criteria for all compounds except for TOC due to matrix interfernce.

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

The Calibration met the requirements.

E. Additional Comments:

For TOC samples Q3094-02 and Q3094-03 reported with straight dilution due to sample were expected to be highly concentrated.

The date and time of sampling were not listed in the COC.

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Signature_

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:45 am, Sep 23, 2025

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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



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3094

	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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	' ' <u>*</u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
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	<u> </u>
CHAIN OF CUSTODY:	_
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	<u></u>
Does the case narrative summarize all QC failure?	'
All runlogs and manual integration are reviewed for requirements	<u></u>
All manual calculations and /or hand notations verified	<u>_</u>

QA Review Signature: SOHIL JODHANI Date: 09/23/2025

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SAMPLE DATA

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Report of Analysis

Client: Scientific Design Date Collected: 08/27/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

 Client Sample ID:
 5670-18-000F
 SDG No.:
 Q3094

 Lab Sample ID:
 Q3094-01
 Matrix:
 WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	545	OR	1	0.40	1.00	mg/L		09/16/25 11:11	9060A

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: Scientific Design Date Collected: 08/27/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: 5670-18-000FDL SDG No.: Q3094

Lab Sample ID: Q3094-01DL Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	807	D	100 40.0	100	mg/L		09/16/25 16:00	9060A

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

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Report of Analysis

Client: Scientific Design Date Collected: 09/09/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

 Client Sample ID:
 5674-08-001W
 SDG No.:
 Q3094

 Lab Sample ID:
 Q3094-02
 Matrix:
 WATER

% Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	2850	OR	10 4.00	10.0	mg/L		09/16/25 12:38	9060A

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

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Report of Analysis

Client: Scientific Design Date Collected: 09/09/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: 5674-08-001WDL SDG No.: Q3094

Lab Sample ID: Q3094-02DL Matrix: WATER

% Solid: 0

Parameter	Conc. Qua. DF MDL	LOQ / CRQL Units	Prep Date Date Ana. Ana Met.
TOC	3600 OR 100 40.0	100 mg/L	09/16/25 16:32 9060A

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: Scientific Design Date Collected: 09/09/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: 5674-08-001WDL2 SDG No.: Q3094

Lab Sample ID: Q3094-02DL2 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	3530	D	500 200	500	mg/L		09/17/25 12:50	9060A

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



5674-08-001WP

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

Report of Analysis

Client: Scientific Design Date Collected: 09/10/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: Lab Sample ID: Q3094-03 Matrix: WATER

> % Solid: 0

Q3094

SDG No.:

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	1500	D	100 40.0	100	mg/L		09/16/25 13:33	9060A

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: Scientific Design Date Collected: 09/11/25 12:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: 5674-11-001C SDG No.: Q3094

Lab Sample ID: Q3094-04 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	0.20	U	1	0.20	2.00	mg/L		09/12/25 18:30	SM 5210 B-16
TOC	3530	OR	100	40.0	100	mg/L		09/16/25 14:05	9060A

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: Scientific Design Date Collected: 09/11/25 00:00

Project: Carrier Post-Treatment Date Received: 09/12/25

Client Sample ID: 5674-11-001CDL SDG No.: Q3094

Lab Sample ID: Q3094-04DL Matrix: WATER

% Solid: 0

Parameter	Conc. Qua. DF MDL	LOQ / CRQL Uni	rs Prep Date	Date Ana. Ana Met.
TOC	3610 D 500 200	500 mg	L/L	09/17/25 12:23 9060A

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

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В

LAB CHRONICLE

OrderID: Q3094

Client: Scientific Design

Contact: Emily Chen

OrderDate: 9/12/2025 12:36:05 PM

Project: Carrier Post-Treatment

Location: D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3094-01	5670-18-000F	WATER			08/27/25 00:00			09/12/25
			тос	9060A			09/16/25 11:11	
Q3094-01DL	5670-18-000FDL	WATER			08/27/25 00:00			09/12/25
			TOC	9060A			09/16/25 16:00	
Q3094-02	5674-08-001W	WATER			09/09/25 00:00			09/12/25
			ТОС	9060A			09/16/25 12:38	
Q3094-02DL	5674-08-001WDL	WATER			09/09/25 00:00			09/12/25
			ТОС	9060A			09/16/25 16:32	
Q3094-02DL 2	5674-08-001WDL2	WATER			09/09/25 00:00			09/12/25
			ТОС	9060A			09/17/25 12:50	
Q3094-03	5674-08-001WP	WATER			09/10/25 00:00			09/12/25
			ТОС	9060A			09/16/25 13:33	
Q3094-04	5674-11-001C	WATER			09/11/25 12:00			09/12/25
			BOD5	SM5210 B			09/12/25 18:30	

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TOC

5674-11-001CDL

5674-11-001CDL2

WATER

WATER

Q3094-04DL

Q3094-04DL

2

TOC 9060A 09/16/25 14:05

TOC 9060A 09/11/25 00:00

TOC 9060A 09/17/25 12:23

09/11/25

00:00

9060A

09/12/25

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SHIPPING DOCUMENTS

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284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 788-9222 www.chemtech.net

Amance i roject number.	Alliance	Project	Number:	Q3	0	9	4
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CHAIN OF CUSTODY RECORD							COC Number:													
CLIENT INFORMATION				PROJECT INFORMATION						BILLING INFORMATION										
COMPANY: Scientific Design				PROJECT NAME: Carrier Post-Treatment						BILL TO: PO#										
ADDRESS:				PROJECT #: LOCATION:						ADDRESS:										
CITY: STATE: ZIP:				PROJECT MANAGER: Emily Chan							CITY: STATE: ZIP:									
ATTENTION: Emily Chan				E-MAIL:							ATTENTION: PHONE:									
PHONE: FAX:				PHONE: FAX:						ANALYSIS										
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION																
FAX: DAYS* HARD COPY: DAYS* EDD DAYS*				□ RESEULTS ONLY □ USEPA CLP □ RESULTS + QC □ New York State ASP "B" □ New Jersey REDUCED □ New York State ASP "A"						1 10C	BOD									
* TO BE APPROVED BY ALLIANCE STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS				□ New Jersey CLP □ Other						1	1 2 3 4 5 6 7 8 9 PRESERVATIVES COMM						COMMENTO			
				□ EDD Format	Y		1 04	100.5			_	F	RES	ERVA	IIVE	S	_		COMMENTS	
Alliance		PROJEC	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		Bottles										< Specify Preservatives A-HCI B-HNO3		
SAMPLE ID	S.	AMPLE IDENTI		сомь	GRAB	DATE	TIME	# of Bo	1	2	3	4	5	6	7	8	9	C-H2SO4 D-NaOH E-ICE F-Other		
1.	5670-18-0	000F		Water			8/27/25	N/A	1	х										
2.	5674-08-0	01W		Water			9/9/25	N/A	1	х										
3.	5674-08-001WP			Water			9/10/25	N/A	1	x										
4.	5674-11-001C		Water			9/11/25	N/A	2	X	x										
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
	SAMPLE (MENTED BELOW B	EACH	TIME	SAMP	LES CH	ANGE	PRO	SSE	SSIO	N IN	CLUI	DING	CO	URIE	R DE	LIVERY	
1. DATE/TIME 1. DATE/TIME 2. DATE/TIME			RECEIVED BY	17: 26	Conditions of bottles or coolers at receipt: Compliant MeOH extraction requires an additional 4oz. Jar for percent solid Comments:															
RELINQUISHED BY DATE/TIME RECEIV 3. 3.		RECEIVED FOR L	AB BY	1					D VIA: CLIENT: □ Hand Delivered □ Overnight IANCE: □ Picked Up □ Overnight									Shipment Complete YES NO		
-			WHITE - ALLIANC	E COPYFOR RETURN	TO CL	IENT	YELL	OW - ALLI	ANCE C	OPY	PIN	IK - S	AMPL	ER CC	PY					

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Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312