

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME: CENTRAL WASTEWATER TREATMENT FACILITY 2025

SCIENTIFIC DESIGN

49 Industrial Avenue

Little Ferry, NJ - 07643

Phone No: 2016410500

ORDER ID: Q2835

ATTENTION: Brent Inkelaar







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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Labora	atory Name :	Alliance Technical Group LLC	Client :	Scientific Design	n				
Projec	ct Location :	NJ	Project Number :	Central Waste	water ⁻	Treatn	nent F	acility	2025
Labora	atory Sample ID	(s): Q2835	Sampling Date(s) :	8/12/2025					
List DI	KQP Methods U	sed (e.g., 8260,8270, et Cetra) SM	2540 D,SM2550-B,SM4	500-Н В,SM5210	B,SN	M5220	D,SC	P	
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?								
1A	Were the methor	od specified handling, preservation, a	and holding time requirer	nents met?	$\overline{\mathbf{A}}$	Yes		No	
1B		Vas the EPH method conducted without respective DKQ methods)	out significant modification	ons (see		Yes		No	✓ N/A
2		es received by the laboratory in a corne associated chain-of-custody docum		at	V	Yes		No	
3	Were samples	received at an appropriate temperatu	re (4±2° C)?		V	Yes		No	□ N/A
4	Were all QA/Q0 standards ach	C performance criteria specified in the ieved?	e NJDEP DKQP		V	Yes		No	
5		ng limits specified or referenced on the to the laboratory prior to sample rece			V	Yes		No	
	b)Were these re	eporting limits met?			V	Yes		No	□ N/A
6	results reporte	tical method referenced in this labora ed for all constituents identified in the e DKQP documents and/or site-speci	method-specific analyte		V	Yes		No	
7	Are project-spe	cific matrix spikes and/or laboratory o	duplicates included in thi	s data set?		Yes	V	No	

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

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

Cover Page

Order ID: Q2835

Project ID: Central Wastewater Treatment Facility 2025

Client: Scientific Design

Lab Sample Number Client Sample Number

Q2835-01 Manufacturing Q2835-02 Pilot Plant

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:25 am, Aug 20, 2025

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

8/20/2025

Date:

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

CASE NARRATIVE

Scientific Design

Project Name: Central Wastewater Treatment Facility 2025

Project # N/A Order ID # Q2835

Test Name: BOD5,COD,Field pH,Field Temperature,TSS

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/12/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: BOD5,COD,Field pH,Field Temperature,TSS. This data package contains results for BOD5,COD,Field pH,Field Temperature,TSS.

C. Analytical Techniques:

The analysis of TSS was based on method SM2540 D, The analysis of Field Temperature was based on method SM2550-B, The analysis of Field pH was based on method SM4500-H B, The analysis of BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

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.

APPROVED

Signature

By Nimisha Pandya, QA/QC Supervisor at 11:26 am, Aug 20, 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 #: Q2835

	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	<u> </u>
Is the chain of custody signed and complete	<u> </u>
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	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
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?	<u> </u>
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: 08/20/2025

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SAMPLE DATA



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

Report of Analysis

Client: Scientific Design Date Collected: 08/12/25 10:08

Project: Central Wastewater Treatment Facility 2025 Date Received: 08/12/25

Client Sample ID: Manufacturing SDG No.: Q2835

Lab Sample ID: Q2835-01 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		08/14/25 09:50	SM 5210 B-16
COD	1.50	U	1	1.50	10.0	mg/L		08/15/25 11:03	SM 5220 D-11
Field pH	7.18		1	0	0	pН		08/12/25 10:30	SM4500-H B
Field Temperature	49.8		1	0	0	o C		08/12/25 10:30	SM 2550 B-10
TSS	60.3		1	1.00	4.00	mg/L		08/15/25 10:00	SM 2540 D-20

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



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

Report of Analysis

Client: Scientific Design Date Collected: 08/12/25 10:21

Project: Central Wastewater Treatment Facility 2025 Date Received: 08/12/25

Client Sample ID: Pilot Plant SDG No.: Q2835

Client Sample ID: Pilot Plant SDG No.: Q2835

Lab Sample ID: Q2835-02 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	481		1	0.20	2.00	mg/L		08/14/25 09:50	SM 5210 B-16
Field pH	6.52		1	0	0	pН		08/12/25 10:38	SM4500-H B
Field Temperature	34.8		1	0	0	o C		08/12/25 10:38	SM 2550 B-10
TSS	1.00	U	1	1.00	4.00	mg/L		08/15/25 10:00	SM 2540 D-20

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

Q2835



LAB CHRONICLE

OrderID: Q2835

Client: Scientific Design

Contact: Brent Inkelaar

OrderDate: 8/12/2025 11:33:54 AM

Project: Central Wastewater Treatment Facility 2025

Location: J21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2835-01	Manufacturing	WATER			08/12/25			08/12/25
					10:08			
			BOD5	SM5210 B			08/14/25	
							09:50	
			COD	SM5220 D			08/15/25	
							11:03	
			Field pH	SM4500-H B			08/12/25	
							10:30	
			Field Temperature	SM2550-B			08/12/25	
							10:30	
			TSS	SM2540 D			08/15/25	
							10:00	
Q2835-02	Pilot Plant	WATER			08/12/25			08/12/25
Q					10:21			00, 11, 10
			BOD5	SM5210 B			08/14/25	
							09:50	
			Field pH	SM4500-H B			08/12/25	
			·				10:38	
			Field Temperature	SM2550-B			08/12/25	
			·				10:38	
			TSS	SM2540 D			08/15/25	
							10:00	

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SHIPPING DOCUMENTS

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

ALLIANCE	PROJECT	NO.	•
QUOTE NO			ζ

COC Number

2045387

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	CLIENT INFORMATION	CLIENT PROJECT INFORMATION	CLIENT BILLING INFORMATION
COMPANY:	CIONIFIC DESIGN	PROJECT NAME: FRANCH FACILITY 20 26 TO:	PO#:
ADDRESS:	19 industrial AVE	PROJECT NO.: LOCATION: ADDRESS:	
	HE FEETY STATE: NJ ZIP: 0764	PROJECT MANAGER: CITY	STATE: ;ZIP:
ATTENTION:	Brent InKelaar	e-mail: ATTENTION:	PHONE:
	-641-0500 FAX:	PHONE: FAX::	ANALYSIS
	DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	
TO BE APPRO	DAYS ATA PACKAGE): DAYS* DAYS* VED BY CHEMTECH RDCOPY TURNAROUND TIME IS 10 BUSINESS	□ Level 1 (Results Only) □ Level 4 (QC + Full Raw Data) □ Level 2 (Results + QC) □ NJ Reduced □ US EPA CLP □ Level 3 (Results + QC □ NYS ASP A □ NYS ASP B + Raw Data) □ Other □ EDD FORMAT □ 1 1 2 3 4 5 ;	6 7 8 9
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE SAMPLE COLLECTION MATRIX SAMPLE TYPE COLLECTION DATE TIME SAMPLE TYPE COLLECTION SAMPLE TYPE 1 2 3 4 5	### COMMENTS ### COMMENTS ### COMMENTS ### Specify Preservatives A-HCI
1.	Manufacturing	W 8-12-25 1008 5 VVVV	PH 7.18
2.	Manufacturing Pilot Plant	W 8-12-25 1021 4 VVVV	DH 6.52
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
RELINQUISHED BY 1. Paulud RELINQUISHED BY 2. RELINQUISHED BY	Y SAMPLER: DATE/TIME: 105 RECEIVED BY: Y SAMPLER: DATE/TIME: 2. Y SAMPLER: DATE/TIME: 419 RECEIVED BY:	Comments: Comparison Compa	□ COOLER TEMP •C
3.A D	8-12.25 3.	Page of Hand Delivered G Other	Shipment Complete
Q2835	WHITE - ALLIANO	E COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY	

Alliance	Technical	Group,	LLC-Newark

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

Client Name: Scientific Design	FIELD SAMPLING LOG
Client Address: 49 Industrial Ave	

Project Name: Central Wastermant Facility 2025

Project Location: Little Ferry
Cooler Custody Seal:

Temperature Correction Factor (°C):

Client Rep on Site: Brent Inkelaar

Sampling Date: 8-12-25

Arrival Time: 0947

Departure Time: 1052

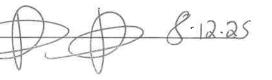
FIELD EQUIPMENT CALIBRATION

		pH Calibration (SM4500	9-H B/9040C)	
	ICV (± 0.1 pH unit)			
	7.00 Buffer W 3217	4.00 Buffer 3178	10.00 Buffer W 3/9/	7.00 Buffer W 3093
Time	0948 .	0950	0952	0954
Temp °C	20.46	20.76	20.64	20.56
pН	7.01	4.00	10.05	7.02

FIELD EQUIPMENT CALIBRATION

	Specific Conductance (mS/cm) (99% -101%)/(n	nmho/cm) (SM2510 B/120.1/9050A)		
Calibration (± 1%) (99% -101%)		ICV (± 1%) (99% -101%)		
	WP	WP		
Time				
Temp °C				
Reading (mS/cm)				

Sampler Signature/Date:



Supervisor Review/Date:

QA Control# A3041249

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: 50	ientific	Design	
Client Address:	Bren	19 Industrial	AVE
Client Rep on Site	Brent :	Inkelaar	

Client Rep on Site:	Brent Inkelaar
Sampling Date:	8-12-25

~	_			
Arrival	Time:	0	9	4

Departure Time: 105

Project Name: <u>Central</u> wastewater Project Name: <u>Treatment Facility 2025</u>
Project Location: Little Ferry
Cooler Custody Seal: NIA
Temperature Correction Factor (°C):

FIELD SAMPLING INFORMATION

D-4-/Time of	Field Measurements				
sampling	Date/Time of Analysis		pН	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
8-12-25 1023	8-12-25	1025	7.00	20.8	
10.08/028		1030	7.18	49.8°	
1032		1034	7.17	49.9c	
10:41036		1038	6.52		
1040		1042	6.53		
1044		1046	7.00	20.76	
					E.
	8-12-25 1023 10:081028 10:32 10:41036	sampling Date/Time of A 8-12-25 10.0810-28 10:215-25 10:215-26 10:40	sampling Date/Time of Analysis 8-12-25 1025 10:081028 1030 10:32 1034 10:41036 1038 10'10 10'12	Date/Time of sampling Date/Time of Analysis pH 8-12-25 1025 7.00 10.081028 1030 7.18 1032 1034 7.17 10:41036 1038 6.52 1040 1042 6.53	Date/Time of sampling Date/Time of Analysis pH Temperature °C 8-12-25 1025 7.00 20.8° 10.081028 1030 7.18 49.8° 1032 1034 7.17 49.9° 10:41036 1038 6.52 34.8° 1040 1042 6.53 34.9°

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date:



Supervisor Review/Date:

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Laboratory Certification

Certified By	License No.
CAC FDA CLD Contract	COLUED 120 D0044
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

QA Control Code: A2070148