

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

LAB CHRONICLE

OrderID:	Q2835	OrderDate:	8/12/2025 11:33:54 AM
Client:	Scientific Design	Project:	Central Wastewater Treatment Facility 2025
Contact:	Brent Inkelaar	Location:	J21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2835-01	Manufacturing	WATER			08/12/25 10:08			08/12/25
			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 10:21			08/12/25
			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	



SAMPLE DATA

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	pH		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

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
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	pH		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



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

RunNo.: LB136825

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	50.962	50	102	95-105	05/28/2025
Sample ID: CCV1 COD	mg/L	48.931	50	98	95-105	08/15/2025
Sample ID: CCV2 COD	mg/L	48.931	50	98	95-105	08/15/2025
Sample ID: CCV3 COD	mg/L	49.946	50	100	95-105	08/15/2025

Initial and Continuing Calibration Verification

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

RunNo.: LB136875

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Field pH		pH	7.02	7	100	90-110	08/12/2025
Sample ID:	CCV1						
Field pH		pH	7.00	7	100	90-110	08/12/2025
Sample ID:	CCV2						
Field pH		pH	7.00	7	100	90-110	08/12/2025

Initial and Continuing Calibration Blank Summary

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

RunNo.: LB136825

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	05/28/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	08/15/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	08/15/2025
Sample ID: CCB3 COD	mg/L	< 5.0000	5.0000	U	1.50	10	08/15/2025

Preparation Blank Summary

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: BOD5	LB136821BL mg/L	< 0.2000	0.2000	U	0.20	2.0	08/14/2025
Sample ID: COD	LB136825BL mg/L	< 5.0000	5.0000	U	1.5	10.0	08/15/2025
Sample ID: TSS	LB136829BL mg/L	1	2.0000	J	1	4	08/15/2025

Matrix Spike Summary

Client:	Scientific Design	SDG No.:	Q2835
Project:	Central Wastewater Treatment Facility 2025	Sample ID:	Q2862-05
Client ID:	DSN003MS	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
COD	mg/L	75-125	80.4		29.6		50.0	1	102		08/15/2025

Matrix Spike Summary

Client:	Scientific Design	SDG No.:	Q2835
Project:	Central Wastewater Treatment Facility 2025	Sample ID:	Q2862-05
Client ID:	DSN003MSD	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
COD	mg/L	75-125	78.4		29.6		50.0	1	98		08/15/2025

Duplicate Sample Summary

Client: Scientific Design	SDG No.: Q2835
Project: Central Wastewater Treatment Facility 2025	Sample ID: Q2835-01
Client ID: ManufacturingDUP	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
Field pH	pH	+/-20	7.18		7.17		1	0.14		08/12/2025

Duplicate Sample Summary

Client: Scientific Design	SDG No.: Q2835
Project: Central Wastewater Treatment Facility 2025	Sample ID: Q2835-02
Client ID: Pilot PlantDUP	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	1.00	U	1.00	U	1	0		08/15/2025
Field pH	pH	+/-20	6.52		6.53		1	0.15		08/12/2025

Duplicate Sample Summary

Client: Scientific Design	SDG No.: Q2835
Project: Central Wastewater Treatment Facility 2025	Sample ID: Q2848-02
Client ID: 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
BOD5	mg/L	+/-20	150		140		1	6.9		08/14/2025

Duplicate Sample Summary

Client: Scientific Design	SDG No.: Q2835
Project: Central Wastewater Treatment Facility 2025	Sample ID: Q2862-05
Client ID: DSN003DUP	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
COD	mg/L	+/-20	29.6		29.6		1	0		08/15/2025

Duplicate Sample Summary

Client:	Scientific Design	SDG No.:	Q2835
Project:	Central Wastewater Treatment Facility 2025	Sample ID:	Q2862-05
Client ID:	DSN003MSD	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
COD	mg/L	+/-20	80.4		78.4		1	2.52		08/15/2025

Laboratory Control Sample Summary

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

Run No.: LB136821

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136821BS							
BOD5	mg/L	198	206		104	1	84.6-115.4	08/14/2025

Laboratory Control Sample Summary

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

Run No.: LB136825

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136825BS							
COD	mg/L	50	47.9		96	1	90-110	08/15/2025

Laboratory Control Sample Summary

Client: Scientific Design

SDG No.: Q2835

Project: Central Wastewater Treatment Facility 2025

Run No.: LB136829

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136829BS							
TSS	mg/L	550	532		97	1	90-110	08/15/2025



RAW DATA

BOD5 LOG

ANALYST: rubin
Inst Id :DO METER
LB :LB136821

Reviewed By:jignesh
On:8/19/2025 9:23:21
AM

SUPERVISOR: jignesh

QC BATCH ID: LB136821

Analysis Date: 08/14/2025

BOD Water: WP114280

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP112832

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP114282

NaOH, 1N: WP113878

GGA: WP114281

IncubatorID: INCUBATOR #3

Chlorine Strips: W3155

GuageID: 0511064

pH Strips: W3215

Zero DO: WP114055

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.6	9.6	9.6
WINKLER 2	WINKLER 2	2	300	9.8	19.4	9.6	9.6

Meter Calibration1: 8.72

Zero DO Reading1: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.74

After Incubation

Meter Calibration2: 8.48

Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg

QC BATCH ID: LB136821

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 19.8

TIME IN: 09:50

TIME OUT: 08:15

DATE IN: 08/14/2025

DATE OUT: 08/19/2025

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB136821BL	1	No	6.58	N/A	20.90	300	9.73	9.72	0.01	0.01	0.01	
POLYSEED	1					10	9.58	6.61	2.97	0.59	0.62	
POLYSEED	2					15	9.55	4.79	4.76	0.63		
POLYSEED	3					20	9.52	3.02	6.5	0.65		
GGA	1					6	9.55	4.98	4.57	197.5	206.17	
GGA	2					6	9.52	4.70	4.82	210		
GGA	3					6	9.51	4.67	4.84	211		
Q2835-01	1	No	7.28	N/A	20.70	5	9.68	8.94	-	0		
Q2835-01	2					20	9.63	8.87	-	0		
Q2835-01	3					50	9.61	8.57	-	0		
Q2835-01	4					150	9.50	8.28	-	0		
Q2835-02	1	No	6.54	N/A	20.80	5	9.65	1.01	8.64	481.2	481.2	
Q2835-02	2					20	9.62	0.49	-	0		
Q2835-02	3					50	9.55	0.28	-	0		
Q2835-02	4					150	9.50	0.20	-	0		
Q2837-01	1	No	11.79	6.95	20.70	5	9.70	8.93	-	0	25.92	pH Adjusted
Q2837-01	2					20	9.57	8.02	-	0		
Q2837-01	3					50	9.37	4.43	4.94	25.92		
Q2837-01	4					150	8.69	0.72	-	0		
Q2848-02	1	No	6.53	N/A	20.00	5	9.58	8.68	-	0	150	
Q2848-02	2					10	9.54	8.32	-	0		
Q2848-02	3					20	9.50	7.60	-	0		
Q2848-02	4					30	9.44	7.32	2.12	150		
Q2848-02DUP	1	No	6.53	N/A	20.00	5	9.59	8.92	-	0	140	
Q2848-02DUP	2					10	9.55	8.21	-	0		
Q2848-02DUP	3					20	9.52	7.79	-	0		
Q2848-02DUP	4					30	9.46	7.44	2.02	140		
Q2862-01	1	No	7.12	N/A	20.40	5	9.69	8.85	-	0	7.24	
Q2862-01	2					20	9.67	8.72	-	0		
Q2862-01	3					50	9.69	8.01	-	0		
Q2862-01	4					150	9.41	5.17	4.24	7.24		
Q2862-03	1	No	6.98	N/A	20.40	5	9.69	8.48	-	0	11.24	
Q2862-03	2					20	9.68	7.98	-	0		
Q2862-03	3					50	9.64	7.28	2.36	10.44		
Q2862-03	4					150	9.62	2.98	6.64	12.04		
Q2862-05	1	No	6.92	N/A	20.50	5	9.71	8.68	-	0	11.42	
Q2862-05	2					20	9.62	8.02	-	0		
Q2862-05	3					50	9.60	7.35	2.25	9.78		
Q2862-05	4					150	9.50	2.35	7.15	13.06		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

66136821

WorkList Name : BOD5-8-12 WorkList ID : 191233 Department : Wet-Chemistry Date : 08-12-2025 15:33:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2848-02	Comp	Water	BOD5	Cool 4 deg C	ARAM01	J33	08/13/2025	SM5210 B
Q2862-01	DSN002	Water	BOD5	Cool 4 deg C	PSEG04	J41	08/13/2025	SM5210 B
Q2862-03	DSN001	Water	BOD5	Cool 4 deg C	PSEG04	J41	08/13/2025	SM5210 B
Q2862-05	DSN003	Water	BOD5	Cool 4 deg C	PSEG04	J41	08/13/2025	SM5210 B
Q2835-01	Manufacturing	Water	BOD5	Cool 4 deg C	SCIE01	J21	08/12/2025	SM5210 B
Q2835-02	Pilot Plant	Water	BOD5	Cool 4 deg C	SCIE01	J21	08/12/2025	SM5210 B
Q2837-01	TW-WTS-13	Water	BOD5	Cool 4 deg C	ENTA05	J23	08/12/2025	SM5210 B

Date/Time 08/14/2025 08.00
 Raw Sample Received by: RYCWG
 Raw Sample Relinquished by: RYCWG

Date/Time 08/14/2025 10.1
 Raw Sample Received by: RYCWG
 Raw Sample Relinquished by: RYCWG

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Eman

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB136825

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP113238
COD calibration std. 100 ppm	WP113237
COD calibration std. 50 ppm	WP113235
COD calibration std. 10 ppm	WP113234
COD calibration std. 0 ppm	WP113233
COD ICV-LCS std, 50ppm	WP113240
COD calibration std. 75 ppm	WP113236
COD CCV std, 50ppm	WP114291
COD ICV-LCS std, 50ppm	WP114292
COD Digestion Vials Low Level 0-150Mg/L	W3228
RL CHECK	WP114293

Temp In (C): 148	Date In: 08/15/2025	Time In: 08:15
Temp Out (C): 150	Date Out: 08/15/2025	Time Out: 10:15

Intercept: 0.8179

Slope: 0.9847

Regression: 0.9995

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.831		05/28/2025	13:10
2	CAL2	10	1	Water	9.000	8.309	-16.9	05/28/2025	13:10
3	CAL3	50	1	Water	52.000	51.977	4	05/28/2025	13:11
4	CAL4	75	1	Water	77.000	77.366	3.2	05/28/2025	13:11
5	CAL5	100	1	Water	99.000	99.708	-0.3	05/28/2025	13:12
6	CAL6	150	1	Water	147.000	148.453	-1	05/28/2025	13:12

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Eman

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB136825

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	51.000	50.962	05/28/2025	13:13
2	ICB		NA	NA	1	Water	0.000	-0.831	05/28/2025	13:13
3	CCV1	50	NA	NA	1	Water	49.000	48.931	08/15/2025	11:00
4	CCB1		NA	NA	1	Water	1.000	0.185	08/15/2025	11:00
5	RL Check	10	NA	NA	1	Water	9.000	8.309	08/15/2025	11:01
6	LB136825BL		NA	NA	1	Water	1.000	0.185	08/15/2025	11:01
7	LB136825BS	50	NA	NA	1	Water	48.000	47.915	08/15/2025	11:02
8	Q2810-01		NA	NA	20	Water	77.000	77.366	08/15/2025	11:02
9	Q2835-01		NA	NA	1	Water	0.000	-0.831	08/15/2025	11:03
10	Q2862-01		NA	NA	1	Water	38.000	37.760	08/15/2025	11:03
11	Q2862-03		NA	NA	1	Water	73.000	73.304	08/15/2025	11:04
12	Q2862-04		NA	NA	1	Water	58.000	58.071	08/15/2025	11:04
13	Q2862-05		NA	NA	1	Water	30.000	29.636	08/15/2025	11:05
14	Q2862-05DUP		NA	NA	1	Water	30.000	29.636	08/15/2025	11:05
15	Q2862-05MS	50	NA	NA	1	Water	80.000	80.412	08/15/2025	11:06
16	CCV2	50	NA	NA	1	Water	49.000	48.931	08/15/2025	11:06
17	CCB2		NA	NA	1	Water	0.000	-0.831	08/15/2025	11:07
18	Q2862-05MSD	50	NA	NA	1	Water	78.000	78.381	08/15/2025	11:07
19	CCV3	50	NA	NA	1	Water	50.000	49.946	08/15/2025	11:08
20	CCB3		NA	NA	1	Water	1.000	0.185	08/15/2025	11:08

WORKLIST(Hardcopy Internal Chain)

16136825

WorkList Name : COD-081425		WorkList ID : 191256		Department : Wet-Chemistry		Date : 08-14-2025 08:09:43		
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2810-01	MH-892025	Water	COD	Conc H2SO4 to pH < 2	EURO03	D21	08/08/2025	SM5220 D
Q2862-01	DSN002	Water	COD	Conc H2SO4 to pH < 2	PSEG04	J41	08/13/2025	SM5220 D
Q2862-03	DSN001	Water	COD	Conc H2SO4 to pH < 2	PSEG04	J41	08/13/2025	SM5220 D
Q2862-04	DSN001	Water	COD	Conc H2SO4 to pH < 2	PSEG04	J41	08/13/2025	SM5220 D
Q2862-05	DSN003	Water	COD	Conc H2SO4 to pH < 2	PSEG04	J41	08/13/2025	SM5220 D
Q2835-01	Manufacturing	Water	COD	Conc H2SO4 to pH < 2	SCIE01	J21	08/12/2025	SM5220 D

Date/Time 08/15/25 08:00
Raw Sample Received by: EM(wc)
Raw Sample Relinquished by: EM(wc)

Date/Time 08/15/25 10:30
Raw Sample Received by: EM(wc)
Raw Sample Relinquished by: EM(wc)

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB136821

Review By	rubina	Review On	8/19/2025 9:22:16 AM
Supervise By	jignesh	Supervise On	8/19/2025 9:23:21 AM
SubDirectory	LB136821	Test	BOD5
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	WP114280,W3149,WP112832,W3103,W3109,W3105,WP114282,WP114281,WP113878		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136821BL	LB136821BL	MB	08/14/25 09:50		rubina	OK
2	LB136821BS	LB136821BS	LCS	08/14/25 09:50		rubina	OK
3	Q2835-01	Manufacturing	SAM	08/14/25 09:50		rubina	OK
4	Q2835-02	Pilot Plant	SAM	08/14/25 09:50		rubina	OK
5	Q2837-01	TW-WTS-13	SAM	08/14/25 09:50		rubina	OK
6	Q2848-02	Comp	SAM	08/14/25 09:50		rubina	OK
7	Q2848-02DUP	CompDUP	DUP	08/14/25 09:50		rubina	OK
8	Q2862-01	DSN002	SAM	08/14/25 09:50		rubina	OK
9	Q2862-03	DSN001	SAM	08/14/25 09:50		rubina	OK
10	Q2862-05	DSN003	SAM	08/14/25 09:50		rubina	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB136825

Review By	Eman	Review On	8/15/2025 2:53:23 PM
Supervise By	jignesh	Supervise On	8/15/2025 4:04:59 PM
SubDirectory	LB136825	Test	COD
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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,WP114291,WP114292,W3228,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 13:10		Eman	OK
2	CAL2	CAL2	CAL	05/28/25 13:10		Eman	OK
3	CAL3	CAL3	CAL	05/28/25 13:11		Eman	OK
4	CAL4	CAL4	CAL	05/28/25 13:11		Eman	OK
5	CAL5	CAL5	CAL	05/28/25 13:12		Eman	OK
6	CAL6	CAL6	CAL	05/28/25 13:12		Eman	OK
7	ICV	ICV	ICV	05/28/25 13:13		Eman	OK
8	ICB	ICB	ICB	05/28/25 13:13		Eman	OK
9	CCV1	CCV1	CCV	08/15/25 11:00		Eman	OK
10	CCB1	CCB1	CCB	08/15/25 11:00		Eman	OK
11	RL Check	RL Check	RL	08/15/25 11:01		Eman	OK
12	LB136825BL	LB136825BL	MB	08/15/25 11:01		Eman	OK
13	LB136825BS	LB136825BS	LCS	08/15/25 11:02		Eman	OK
14	Q2810-01	MH-892025	SAM	08/15/25 11:02		Eman	OK
15	Q2835-01	Manufacturing	SAM	08/15/25 11:03		Eman	OK
16	Q2862-01	DSN002	SAM	08/15/25 11:03		Eman	OK
17	Q2862-03	DSN001	SAM	08/15/25 11:04		Eman	OK
18	Q2862-04	DSN001	SAM	08/15/25 11:04		Eman	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB136825

Review By	Eman	Review On	8/15/2025 2:53:23 PM
Supervise By	jignesh	Supervise On	8/15/2025 4:04:59 PM
SubDirectory	LB136825	Test	COD
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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,WP114291,WP114292,W3228,WP1		

19	Q2862-05	DSN003	SAM	08/15/25 11:05		Eman	OK
20	Q2862-05DUP	DSN003DUP	DUP	08/15/25 11:05		Eman	OK
21	Q2862-05MS	DSN003MS	MS	08/15/25 11:06		Eman	OK
22	CCV2	CCV2	CCV	08/15/25 11:06		Eman	OK
23	CCB2	CCB2	CCB	08/15/25 11:07		Eman	OK
24	Q2862-05MSD	DSN003MSD	MSD	08/15/25 11:07		Eman	OK
25	CCV3	CCV3	CCV	08/15/25 11:08		Eman	OK
26	CCB3	CCB3	CCB	08/15/25 11:08		Eman	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136829

Review By	jignesh	Review On	8/15/2025 3:56:51 PM
Supervise By	rubina	Supervise On	8/15/2025 4:00:44 PM
SubDirectory	LB136829	Test	TSS
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	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136829BL	LB136829BL	MB	08/15/25 10:00		jignesh	OK
2	LB136829BS	LB136829BS	LCS	08/15/25 10:00		jignesh	OK
3	Q2835-01	Manufacturing	SAM	08/15/25 10:00		jignesh	OK
4	Q2835-02	Pilot Plant	SAM	08/15/25 10:00		jignesh	OK
5	Q2835-02DUP	Pilot PlantDUP	DUP	08/15/25 10:00		jignesh	OK
6	Q2837-01	TW-WTS-13	SAM	08/15/25 10:00		jignesh	OK
7	Q2845-01	001 willets Pt Blvd(july)	SAM	08/15/25 10:00		jignesh	OK
8	Q2845-04	002 35th Ave (july)	SAM	08/15/25 10:00		jignesh	OK
9	Q2848-02	Comp	SAM	08/15/25 10:00		jignesh	OK
10	Q2860-01	TOWER#1	SAM	08/15/25 10:00		jignesh	OK
11	Q2860-02	TOWER#2	SAM	08/15/25 10:00		jignesh	OK
12	Q2862-01	DSN002	SAM	08/15/25 10:00		jignesh	OK
13	Q2862-03	DSN001	SAM	08/15/25 10:00		jignesh	OK
14	Q2862-05	DSN003	SAM	08/15/25 10:00		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136875

Review By	rubina	Review On	8/19/2025 1:50:52 PM
Supervise By	jignesh	Supervise On	8/19/2025 1:51:54 PM
SubDirectory	LB136875	Test	Field pH
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	W3178,W3217,W3191,W3093,W3093,W3093		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL2	CAL2	CAL	08/12/25 09:48		Ayul	OK
2	CAL1	CAL1	CAL	08/12/25 09:50		Ayul	OK
3	CAL3	CAL3	CAL	08/12/25 09:52		Ayul	OK
4	ICV	ICV	ICV	08/12/25 09:54		Ayul	OK
5	CCV1	CCV1	CCV	08/12/25 10:25		Ayul	OK
6	Q2835-01	Manufacturing	SAM	08/12/25 10:30		Ayul	OK
7	Q2835-01DUP	ManufacturingDUP	DUP	08/12/25 10:34		Ayul	OK
8	Q2835-02	Pilot Plant	SAM	08/12/25 10:38		Ayul	OK
9	Q2835-02DUP	Pilot PlantDUP	DUP	08/12/25 10:42		Ayul	OK
10	CCV2	CCV2	CCV	08/12/25 10:46		Ayul	OK

Instrument ID: THERMOMETER

Daily Analysis Runlog For Sequence/QC Batch ID # LB136876

Review By	rubina	Review On	8/19/2025 1:51:20 PM
Supervise By	jignesh	Supervise On	8/19/2025 1:52:07 PM
SubDirectory	LB136876	Test	Field Temperature

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	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q2835-01	Manufacturing	SAM	08/12/25 10:30		Ayul	OK
2	Q2835-02	Pilot Plant	SAM	08/12/25 10:38		Ayul	OK



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Scientific Design**
ADDRESS: **49 Industrial Ave**
CITY: **Little Ferry** STATE: **NJ** ZIP: **07643**
ATTENTION: **Brent Inkelaar**
PHONE: **201-641-0500** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Central Wastewater Treatment Facility 2025**
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): 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) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

COD
BOD5
TSS
Field Sampling
Field pH

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	Manufacturing Pilot plant	W		✓	8-12-25	1008	5	✓	✓	✓	✓	✓	✓				PH 7.18
2.		W		✓	8-12-25	1021	4	✓	✓	✓	✓	✓	✓				PH 6.52
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: 1052	RECEIVED BY: 1052	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
1. Rachel Reur	8-12-25	8-12-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.			
RELINQUISHED BY SAMPLER:	DATE/TIME: 1414	RECEIVED BY:	
3. [Signature]	8-12-25		

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

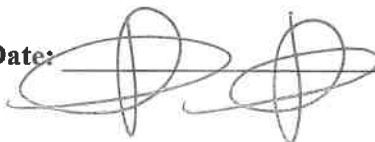
FIELD SAMPLING LOGClient Name: Scientific DesignClient Address: 49 Industrial AveClient Rep on Site: Brent InkelaarSampling Date: 8-12-25Arrival Time: 0947Departure Time: 1052Project Name: Central wastewater treatment facility 2025Project Location: Little FerryCooler Custody Seal: NIPTemperature Correction Factor (°C): 0**FIELD EQUIPMENT CALIBRATION****pH Calibration (SM4500-H B/9040C)**

Calibration				ICV (± 0.1 pH unit)
	7.00 Buffer	4.00 Buffer	10.00 Buffer	7.00 Buffer
	W 3217	W 3178	W 3191	W 3093
Time	0948	0950	0952	0954
Temp °C	20.4°	20.7°	20.6°	20.5°
pH	7.01	4.00	10.05	7.02

FIELD EQUIPMENT CALIBRATION**Specific Conductance (mS/cm) (99% -101%)/(mmho/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:


8-12-25

Supervisor Review/Date:

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: Scientific Design
Client Address: Brent 49 Industrial Ave
Client Rep on Site: Brent Inkelaar
Sampling Date: 8-12-25
Arrival Time: 0947

Project Name: Central Wastewater Treatment Facility 2025
Project Location: Little Ferry
Cooler Custody Seal: N/A
Temperature Correction Factor (°C): 0

Departure Time: 1052

FIELD SAMPLING INFORMATION

Sampling Location	Date/Time of sampling	Field Measurements			
		Date/Time of Analysis	pH	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV CW3093)	8-12-25 1023	8-12-25 1025	7.00	20.8°C	
Manufacturing	10:08 1028	1030	7.18	49.8°C	
DUP	1032	1034	7.17	49.9°C	
Pilot Plant	10:41 1036	1038	6.52	34.8°C	
DUP	1040	1042	6.53	34.9°C	
CCV CW3093)	1044	1046	7.00	20.7°C	

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

Sampler Signature/Date:

 8-12-25

Supervisor Review/Date:

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