

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : W.T.P. FINAL EFFLUENT 2025

MARS CHOCOLATE NORTH AMERICA, LLC

700 High Street

Hackettstown, NJ - 07840

Phone No: 979-361-7196

ORDER ID : Q1070

ATTENTION : Jeff Kram



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1070

Project ID : W.T.P. Final Effluent 2025

Client : Mars Chocolate North America, LLC

Lab Sample Number

Q1070-01
Q1070-02
Q1070-03
Q1070-04

Client Sample Number

1 EFFLUENT COMPOSITE
2 EFFLUENT GRAB
2 EFFLUENT GRABMS
2 EFFLUENT GRABMSD

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 10:04 am, Jan 22, 2025

Date: 1/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Mars Chocolate North America, LLC

Project Name: W.T.P. Final Effluent 2025

Project # N/A

Chemtech Project # Q1070

Test Name: Oil and Grease,Color,Ammonia,BOD Soluble,Phosphorus-Total,TDS,COD,BOD5,TSS

A. Number of Samples and Date of Receipt:

4 Water samples were received on 01/10/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, BOD Soluble, BOD5, COD, Color, Oil and Grease, Phosphorus-Total, TDS and TSS. This data package contains results for Oil and Grease,Color,Ammonia,BOD Soluble,Phosphorus-Total,TDS,COD,BOD5,TSS.

C. Analytical Techniques:

The analysis of Oil and Grease was based on method 1664A, The analysis of Phosphorus-Total was based on method 365.3, The analysis of Color was based on method SM2120 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD Soluble,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.

Sample 1 EFFLUENT COMPOSITE was diluted due to high concentrations for Phosphorus, Total.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike 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:

Q1070-01 sample was analyzed with 20X straight Dilutions for Color, Due to brown matrix.



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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:04 am, Jan 22, 2025

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 #: Q1070

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: MOHAMMAD AHMED

Date: 01/17/2025



SAMPLE DATA

Report of Analysis

Client:	Mars Chocolate North America, LLC	Date Collected:	01/10/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	01/10/25
Client Sample ID:	1 EFFLUENT COMPOSITE	SDG No.:	Q1070
Lab Sample ID:	Q1070-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	27.4		1	2.30	5.00	mg/L	01/16/25 08:45	01/16/25 11:10	SM 4500-NH3 B plus G-11
BOD Soluble	42.5		1	0.17	2.00	mg/L		01/10/25 16:20	SM 5210 B-16
BOD5	57.7		1	0.17	2.00	mg/L		01/10/25 16:20	SM 5210 B-16
COD	134		1	2.35	10.0	mg/L		01/16/25 15:02	SM 5220 D-11
Apparent Color	800	D	20	100	100	cu		01/10/25 16:25	SM 2120 B-11
Phosphorus, Total	1.54	OR	1	0.0050	0.050	mg/L	01/15/25 11:45	01/15/25 14:14	365.3
TDS	4120		1	1.00	10.0	mg/L		01/10/25 12:30	SM 2540 C-15
TSS	64.0		1	1.00	4.00	mg/L		01/13/25 10:15	SM 2540 D-15

Comments: Apparent color result reported at pH 7.90

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:	Mars Chocolate North America, LLC	Date Collected:	01/10/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	01/10/25
Client Sample ID:	1 EFFLUENT COMPOSITEDL	SDG No.:	Q1070
Lab Sample ID:	Q1070-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	3.66	D	5	0.024	0.25	mg/L	01/15/25 11:45	01/15/25 14:15	365.3

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:	Mars Chocolate North America, LLC	Date Collected:	01/10/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	01/10/25
Client Sample ID:	2 EFFLUENT GRAB	SDG No.:	Q1070
Lab Sample ID:	Q1070-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	1.30	J	1	0.40	5.00	mg/L		01/16/25 09:00	1664A

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: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

RunNo.: LB134293

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.482	0.50	96	90-110	01/15/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.488	0.50	98	90-110	01/15/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.482	0.50	96	90-110	01/15/2025
Sample ID: CCV3 Phosphorus, Total	mg/L	0.488	0.50	98	90-110	01/15/2025

Initial and Continuing Calibration Verification

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

RunNo.: LB134305

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	01/16/2025
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	01/16/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	01/16/2025
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	01/16/2025

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Initial and Continuing Calibration Verification

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

RunNo.: LB134308

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: CCV1 COD	mg/L	51.341	50	103	95-105	01/16/2025
Sample ID: CCV2 COD	mg/L	50.336	50	101	95-105	01/16/2025
Sample ID: ICV COD	mg/L	51.341	50	103	95-105	10/14/2024

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Initial and Continuing Calibration Blank Summary

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

RunNo.: LB134293

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025
Sample ID: CCB3 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0047	0.05	01/15/2025

Initial and Continuing Calibration Blank Summary

Client: Mars Chocolate North America, LLC
Project: W.T.P. Final Effluent 2025

SDG No.: Q1070
RunNo.: LB134305

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	01/16/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	01/16/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	01/16/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	01/16/2025

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Initial and Continuing Calibration Blank Summary

Client: Mars Chocolate North America, LLC	SDG No.: Q1070
Project: W.T.P. Final Effluent 2025	RunNo.: LB134308

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	2.35	10	01/16/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	2.35	10	01/16/2025
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	2.35	10	10/14/2024

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Preparation Blank Summary

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134233BL TDS	mg/L	1	5.0000	J	1.0	10	01/10/2025
Sample ID: LB134237BL BOD Soluble	mg/L	< 1.0000	1.0000	U	0.17	2	01/10/2025
Sample ID: LB134238BL BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	01/10/2025
Sample ID: LB134240BL Apparent Color	cu	< 2.5000	2.5000	U	5.0	5.0	01/10/2025
Sample ID: LB134244BL TSS	mg/L	< 2.0000	2.0000	U	1	4	01/13/2025
Sample ID: LB134299BL Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	01/16/2025
Sample ID: LB134308BL COD	mg/L	< 5.0000	5.0000	U	2.35	10.0	01/16/2025
Sample ID: PB166041BL Phosphorus, Total	mg/L	0.011	0.0250	J	0.005	0.05	01/15/2025
Sample ID: PB166064BL Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	01/16/2025

Matrix Spike Summary

Client:

Mars Chocolate North America, LLC

SDG No.:

Q1070

Project:

W.T.P. Final Effluent 2025

Sample ID:

Q1061-01

Client ID:

MW-1MS

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
Phosphorus, Total	mg/L	90-110	0.73		0.26		0.5	1	94		01/15/2025

Matrix Spike Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1061-01
Client ID:	MW-1MSD	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
Phosphorus, Total	mg/L	90-110	0.72		0.26		0.5	1	93		01/15/2025

Matrix Spike Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1070-01
Client ID:	1 EFFLUENT COMPOSITEMS	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	173		134		50.0	1	78		01/16/2025
Ammonia as N	mg/L	75-125	76.7		27.4		50	1	99		01/16/2025

Matrix Spike Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1070-01
Client ID:	1 EFFLUENT COMPOSITMSD	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	175		134		50.0	1	82		01/16/2025
Ammonia as N	mg/L	75-125	74.2		27.4		50	1	94		01/16/2025

Matrix Spike Summary

Client:

Mars Chocolate North America, LLC

SDG No.:

Q1070

Project:

W.T.P. Final Effluent 2025

Sample ID:

Q1070-02

Client ID:

2 EFFLUENT GRABMS

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
Oil and Grease	mg/L	78-114	21.0		1.30	J	20.0	1	98		01/16/2025

Matrix Spike Summary

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

Sample ID: Q1070-02

Client ID: 2 EFFLUENT GRABMSD

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
Oil and Grease	mg/L	78-114	20.8		1.30	J	20.0	1	98		01/16/2025

Matrix Spike Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1101-01
Client ID:	EFFLUENTMS	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
Oil and Grease	mg/L	78-114	33.4		13.4		20.0	1	100		01/16/2025

Matrix Spike Summary

Client: Mars Chocolate North America, LLC

SDG No.: Q1070

Project: W.T.P. Final Effluent 2025

Sample ID: Q1101-01

Client ID: EFFLUENTMSD

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
Oil and Grease	mg/L	78-114	33.0		13.4		20.0	1	98		01/16/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1033-01
Client ID:	28612DUP	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	21.0		20.9		1	0.48		01/13/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1061-01
Client ID:	MW-1DUP	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
Phosphorus, Total	mg/L	+/-20	0.26		0.26		1	0.39		01/15/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1061-01
Client ID:	MW-1MSD	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
Phosphorus, Total	mg/L	+/-20	0.73		0.72		1	0.41		01/15/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1066-02
Client ID:	EFF-WASTE WATERDUP	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	910		895		1	1.66		01/10/2025

Duplicate Sample Summary

Client: Mars Chocolate North America, LLC	SDG No.: Q1070
Project: W.T.P. Final Effluent 2025	Sample ID: Q1070-01
Client ID: 1 EFFLUENT COMPOSITEDUP	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
TDS	mg/L	+/-5	4120		4210		1	2.19		01/10/2025
BOD Soluble	mg/L	+/-20	42.5		42.7		1	0.56		01/10/2025
Ammonia as N	mg/L	+/-20	27.4		27.2		1	1		01/16/2025
COD	mg/L	+/-20	134		135		1	0.74		01/16/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1070-01DL
Client ID:	1 EFFLUENT COMPOSITEDUP	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
Apparent Color	cu	+/-20	800	D	800	D	20	0		01/10/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1070-01
Client ID:	1 EFFLUENT COMPOSITMSD	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
Ammonia as N	mg/L	+/-20	76.7		74.2		1	3		01/16/2025
COD	mg/L	+/-20	173		175		1	1.15		01/16/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1070-02
Client ID:	2 EFFLUENT GRABMSD	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
Oil and Grease	mg/L	+/-18	21.0		20.8		1	0.96		01/16/2025

Duplicate Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Sample ID:	Q1101-01
Client ID:	EFFLUENTMSD	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
Oil and Grease	mg/L	+/-18	33.4		33.0		1	1.2		01/16/2025

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134233

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134233BS							
TDS	mg/L	100	95.0		95	1	90-110	01/10/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134237

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134237BS							
BOD Soluble	mg/L	198	198		100	1	84.6-115.4	01/10/2025

A

B

C

D

E

F

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134238

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134238BS							
BOD5	mg/L	198	201		102	1	84.6-115.4	01/10/2025

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134244

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134244BS							
TSS	mg/L	550	520		94	1	90-110	01/13/2025

A

B

C

D

E

F

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134299

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134299BS							
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	01/16/2025

A

B

C

D

E

F

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134308

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134308BS							
COD	mg/L	50	50.3		101	1	90-110	01/16/2025

A

B

C

D

E

F

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134293

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166041BS							
Phosphorus, Total	mg/L	0.50	0.48		96	1	90-110	01/15/2025

A

B

C

D

E

F

Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	SDG No.:	Q1070
Project:	W.T.P. Final Effluent 2025	Run No.:	LB134305

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166064BS							
Ammonia as N	mg/L	1	1.00		100	1	90-110	01/16/2025

A

B

C

D

E

F

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB134233

Review By	jignesh	Review On	1/13/2025 11:20:21 AM
Supervise By	Iwona	Supervise On	1/13/2025 12:00:30 PM
SubDirectory	LB134233	Test	TDS
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	LB134233BL	LB134233BL	MB	01/10/25 12:30		jignesh	OK
2	LB134233BS	LB134233BS	LCS	01/10/25 12:30		jignesh	OK
3	Q1061-01	MW-1	SAM	01/10/25 12:30		jignesh	OK
4	Q1061-02	MW-2	SAM	01/10/25 12:30		jignesh	OK
5	Q1061-03	MW-3	SAM	01/10/25 12:30		jignesh	OK
6	Q1061-04	MW-4	SAM	01/10/25 12:30		jignesh	OK
7	Q1061-05	MW-5	SAM	01/10/25 12:30		jignesh	OK
8	Q1061-06	MW-6	SAM	01/10/25 12:30		jignesh	OK
9	Q1061-07	MW-7	SAM	01/10/25 12:30		jignesh	OK
10	Q1061-08	MW-8	SAM	01/10/25 12:30		jignesh	OK
11	Q1061-09	MW-9	SAM	01/10/25 12:30		jignesh	OK
12	Q1061-10	MW-10	SAM	01/10/25 12:30		jignesh	OK
13	Q1070-01	1 EFFLUENT COMPO	SAM	01/10/25 12:30		jignesh	OK
14	Q1070-01DUP	1 EFFLUENT COMPO	DUP	01/10/25 12:30		jignesh	OK

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB134237

Review By	rubina	Review On	1/15/2025 2:42:20 PM
Supervise By	Iwona	Supervise On	1/15/2025 2:58:25 PM
SubDirectory	LB134237	Test	BOD Soluble
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	WP111381,W3149,WP110386,W3103,W3109,W3105,WP111383,WP111382,WP111323		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134237BL	LB134237BL	MB	01/10/25 16:20		rubina	OK
2	LB134237BS	LB134237BS	LCS	01/10/25 16:20		rubina	OK
3	LB134237BSD1	LB134237BSD1	LCS	01/10/25 16:20		rubina	OK
4	LB134237BSD2	LB134237BSD2	LCS	01/10/25 16:20		rubina	OK
5	Q1070-01	1 EFFLUENT COMPO	SAM	01/10/25 16:20		rubina	OK
6	Q1070-01DUP	1 EFFLUENT COMPO	DUP	01/10/25 16:20		rubina	OK

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB134238

Review By	rubina	Review On	1/15/2025 2:42:05 PM
Supervise By	Iwona	Supervise On	1/15/2025 2:58:14 PM
SubDirectory	LB134238	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	WP111381,W3149,WP110386,W3103,W3109,W3105,WP111383,WP111382,WP111323		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134238BL	LB134238BL	MB	01/10/25 16:20		rubina	OK
2	LB134238BS	LB134238BS	LCS	01/10/25 16:20		rubina	OK
3	Q1049-01	FRAC-TANK-257952	SAM	01/10/25 16:20		rubina	OK
4	Q1066-02	EFF-WASTE WATER	SAM	01/10/25 16:20	Intermediate dilution	rubina	OK
5	Q1066-02DUP	EFF-WASTE WATER	DUP	01/10/25 16:20	Intermediate dilution	rubina	OK
6	Q1070-01	1 EFFLUENT COMPO	SAM	01/10/25 16:20		rubina	OK

Instrument ID: NESSLER TUBES

Daily Analysis Runlog For Sequence/QC Batch ID # LB134240

Review By	Niha	Review On	1/10/2025 4:46:34 PM
Supervise By	Iwona	Supervise On	1/10/2025 4:56:06 PM
SubDirectory	LB134240	Test	Color
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	LB134240BL	LB134240BL	MB	01/10/25 16:20		Niha	OK
2	Q1070-01	1 EFFLUENT COMPO	SAM	01/10/25 16:25		Niha	OK
3	Q1070-01DUP	1 EFFLUENT COMPO	DUP	01/10/25 16:30		Niha	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB134244

Review By	Niha	Review On	1/13/2025 2:11:20 PM
Supervise By	Iwona	Supervise On	1/13/2025 2:12:18 PM
SubDirectory	LB134244	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	LB134244BL	LB134244BL	MB	01/13/25 10:15		Niha	OK
2	LB134244BS	LB134244BS	LCS	01/13/25 10:15		Niha	OK
3	Q1033-01	28612	SAM	01/13/25 10:15		Niha	OK
4	Q1033-01DUP	28612DUP	DUP	01/13/25 10:15		Niha	OK
5	Q1035-02	COMP	SAM	01/13/25 10:15		Niha	OK
6	Q1049-01	FRAC-TANK-257952	SAM	01/13/25 10:15		Niha	OK
7	Q1066-02	EFF-WASTE WATER	SAM	01/13/25 10:15		Niha	OK
8	Q1070-01	1 EFFLUENT COMPO	SAM	01/13/25 10:15		Niha	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134293

Review By	Niha	Review On	1/17/2025 11:28:59 AM
Supervise By	Iwona	Supervise On	1/17/2025 11:29:16 AM
SubDirectory	LB134293	Test	Phosphorus-Total
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	WP111410,WP111408,WP111407,WP111406,WP111405,WP111404,WP111411,WP111414,WP111415,WP111323,WF		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/15/25 14:00		Niha	OK
2	CAL2	CAL2	CAL	01/15/25 14:00		Niha	OK
3	CAL3	CAL3	CAL	01/15/25 14:01		Niha	OK
4	CAL4	CAL4	CAL	01/15/25 14:01		Niha	OK
5	CAL5	CAL5	CAL	01/15/25 14:02		Niha	OK
6	CAL6	CAL6	CAL	01/15/25 14:02		Niha	OK
7	ICV	ICV	ICV	01/15/25 14:03		Niha	OK
8	ICB	ICB	ICB	01/15/25 14:03		Niha	OK
9	CCV1	CCV1	CCV	01/15/25 14:04		Niha	OK
10	CCB1	CCB1	CCB	01/15/25 14:04		Niha	OK
11	RL Check	RL Check	SAM	01/15/25 14:05		Niha	OK
12	PB166041BL	PB166041BL	MB	01/15/25 14:05		Niha	OK
13	PB166041BS	PB166041BS	LCS	01/15/25 14:06		Niha	OK
14	Q1061-01	MW-1	SAM	01/15/25 14:06		Niha	OK
15	Q1061-01DUP	MW-1DUP	DUP	01/15/25 14:07		Niha	OK
16	Q1061-01MS	MW-1MS	MS	01/15/25 14:07		Niha	OK
17	Q1061-01MSD	MW-1MSD	MSD	01/15/25 14:08		Niha	OK
18	Q1061-02	MW-2	SAM	01/15/25 14:08		Niha	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134293

Review By	Niha	Review On	1/17/2025 11:28:59 AM
Supervise By	Iwona	Supervise On	1/17/2025 11:29:16 AM
SubDirectory	LB134293	Test	Phosphorus-Total
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	WP111410,WP111408,WP111407,WP111406,WP111405,WP111404,WP111411,WP111414,WP111415,WP111323,WF		

19	Q1061-03	MW-3	SAM	01/15/25 14:09		Niha	OK
20	Q1061-04	MW-4	SAM	01/15/25 14:09		Niha	OK
21	Q1061-05	MW-5	SAM	01/15/25 14:10		Niha	OK
22	CCV2	CCV2	CCV	01/15/25 14:10		Niha	OK
23	CCB2	CCB2	CCB	01/15/25 14:11		Niha	OK
24	Q1061-06	MW-6	SAM	01/15/25 14:11		Niha	OK
25	Q1061-07	MW-7	SAM	01/15/25 14:12		Niha	OK
26	Q1061-08	MW-8	SAM	01/15/25 14:12		Niha	OK
27	Q1061-09	MW-9	SAM	01/15/25 14:13		Niha	OK
28	Q1061-10	MW-10	SAM	01/15/25 14:13		Niha	OK
29	Q1070-01	1 EFFLUENT COMPO	SAM	01/15/25 14:14	High	Niha	Dilution
30	Q1061-05DL	MW-5DL	SAM	01/15/25 14:14		Niha	OK
31	Q1061-10DL	MW-10DL	SAM	01/15/25 14:15		Niha	OK
32	Q1070-01DL	1 EFFLUENT COMPO	SAM	01/15/25 14:15	5X	Niha	Confirms
33	CCV3	CCV3	CCV	01/15/25 14:16		Niha	OK
34	CCB3	CCB3	CCB	01/15/25 14:16		Niha	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB134299

Review By	jignesh	Review On	1/16/2025 8:46:28 AM
Supervise By	Iwona	Supervise On	1/16/2025 9:50:47 AM
SubDirectory	LB134299	Test	Oil and Grease
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	W3110,M6069,EP2577,WP110826,NA,NA,WP100827,NA,WP100828		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB134299BL	LB134299BL	MB	01/16/25 09:00		jignesh	OK
2	LB134299BS	LB134299BS	LCS	01/16/25 09:00		jignesh	OK
3	Q1070-02	2 EFFLUENT GRAB	SAM	01/16/25 09:00		jignesh	OK
4	Q1070-03	Q1070-02MS	MS	01/16/25 09:00		jignesh	OK
5	Q1070-04	Q1070-02MSD	MSD	01/16/25 09:00		jignesh	OK
6	Q1101-01	EFFLUENT	SAM	01/16/25 09:00		jignesh	OK
7	Q1101-02	Q1101-01MS	MS	01/16/25 09:00		jignesh	OK
8	Q1101-03	Q1101-01MSD	MSD	01/16/25 09:00		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134305

Review By	rubina	Review On	1/17/2025 8:50:05 AM
Supervise By	Iwona	Supervise On	1/17/2025 9:33:26 AM
SubDirectory	LB134305	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111423		
ICV Standard	WP111425		
CCV Standard	WP111424		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP110019,WP111385,WP108840		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	01/16/25 09:28		rubina	OK
2	0.1PPM	0.1PPM	CAL2	01/16/25 09:28		rubina	OK
3	0.2PPM	0.2PPM	CAL3	01/16/25 09:28		rubina	OK
4	0.4PPM	0.4PPM	CAL4	01/16/25 09:28		rubina	OK
5	1.0PPM	1.0PPM	CAL5	01/16/25 09:28		rubina	OK
6	1.3PPM	1.3PPM	CAL6	01/16/25 09:28		rubina	OK
7	2.0PPM	2.0PPM	CAL7	01/16/25 09:28		rubina	OK
8	ICV1	ICV1	ICV	01/16/25 10:59		rubina	OK
9	ICB1	ICB1	ICB	01/16/25 10:59		rubina	OK
10	CCV1	CCV1	CCV	01/16/25 10:59		rubina	OK
11	CCB1	CCB1	CCB	01/16/25 10:59		rubina	OK
12	RL	RL	SAM	01/16/25 10:59		rubina	OK
13	PB166064BL	PB166064BL	MB	01/16/25 10:59		rubina	OK
14	PB166064BS	PB166064BS	LCS	01/16/25 11:10		rubina	OK
15	Q1070-01	1 EFFLUENT COMPO	SAM	01/16/25 11:10		rubina	OK
16	Q1070-01DUP	1 EFFLUENT COMPO	DUP	01/16/25 11:10		rubina	OK
17	Q1070-01MS	1 EFFLUENT COMPO	MS	01/16/25 11:10		rubina	OK
18	Q1070-01MSD	1 EFFLUENT COMPO	MSD	01/16/25 11:10		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134305

Review By	rubina	Review On	1/17/2025 8:50:05 AM
Supervise By	Iwona	Supervise On	1/17/2025 9:33:26 AM
SubDirectory	LB134305	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111423		
ICV Standard	WP111425		
CCV Standard	WP111424		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP110019,WP111385,WP108840		

19	Q1101-01	EFFLUENT	SAM	01/16/25 11:10		rubina	OK
20	Q1101-05	INFLUENT	SAM	01/16/25 11:10		rubina	OK
21	CCV2	CCV2	CCV	01/16/25 11:10		rubina	OK
22	CCB2	CCB2	CCB	01/16/25 11:15		rubina	OK
23	Q1101-01DL	EFFLUENTDL	SAM	01/16/25 11:37		rubina	OK
24	Q1101-05DL	INFLUENTDL	SAM	01/16/25 11:37		rubina	OK
25	CCV3	CCV3	CCV	01/16/25 11:37		rubina	OK
26	CCB3	CCB3	CCB	01/16/25 11:37		rubina	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB134308

Review By	Niha	Review On	1/16/2025 3:35:50 PM
Supervise By	Iwona	Supervise On	1/16/2025 3:52:59 PM
SubDirectory	LB134308	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	WP111368,WP111367,WP110197,WP110200,WP110198,WP110196,WP110658,WP110199,W3125		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/14/24 13:10		Niha	OK
2	CAL2	CAL2	CAL	10/14/24 13:10		Niha	OK
3	CAL3	CAL3	CAL	10/14/24 13:11		Niha	OK
4	CAL4	CAL4	CAL	10/14/24 13:11		Niha	OK
5	CAL5	CAL5	CAL	10/14/24 13:12		Niha	OK
6	ICV	ICV	ICV	10/14/24 13:12		Niha	OK
7	ICB	ICB	ICB	10/14/24 13:13		Niha	OK
8	CCV1	CCV1	CCV	01/16/25 15:00		Niha	OK
9	CCB1	CCB1	CCB	01/16/25 15:00		Niha	OK
10	LB134308BL	LB134308BL	MB	01/16/25 15:01		Niha	OK
11	LB134308BS	LB134308BS	LCS	01/16/25 15:01		Niha	OK
12	Q1070-01	1 EFFLUENT COMPO	SAM	01/16/25 15:02		Niha	OK
13	Q1070-01DUP	1 EFFLUENT COMPO	DUP	01/16/25 15:02		Niha	OK
14	Q1070-01MS	1 EFFLUENT COMPO	MS	01/16/25 15:03		Niha	OK
15	Q1070-01MSD	1 EFFLUENT COMPO	MSD	01/16/25 15:03		Niha	OK
16	CCV2	CCV2	CCV	01/16/25 15:04		Niha	OK
17	CCB2	CCB2	CCB	01/16/25 15:04		Niha	OK

LAB CHRONICLE

OrderID:	Q1070	OrderDate:	1/10/2025 1:51:00 PM
Client:	Mars Chocolate North America, LLC	Project:	W.T.P. Final Effluent 2025
Contact:	Jeff Kram	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1070-01	1 EFFLUENT COMPOSITE	WATER			01/10/25 05:00			01/10/25
			Ammonia	SM4500-NH3		01/16/25	01/16/25 11:10	
			BOD Soluble	SM5210 B			01/10/25 16:20	
			BOD5	SM5210 B			01/10/25 16:20	
			COD	SM5220 D			01/16/25 15:02	
			Apparent Color	SM2120 B			01/10/25 16:25	
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:14	
			TDS	SM2540 C			01/10/25 12:30	
			TSS	SM2540 D			01/13/25 10:15	
Q1070-01DL	1 EFFLUENT COMPOSITEDL	WATER			01/10/25 05:00			01/10/25
			Phosphorus-Total	365.3		01/15/25	01/15/25 14:15	
Q1070-02	2 EFFLUENT GRAB	WATER			01/10/25 05:00			01/10/25
			Oil and Grease	1664A			01/16/25 09:00	

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Start Digest Date: 01/15/2025 Time : 11:45 Temp : 95 °C

Matrix : WATER

End Digest Date: 01/15/2025 Time : 12:45 Temp : 96 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#3

Digestion tube ID : M5595

Block Thermometer ID : WC-BLOCK#1

Block ID : WC S-1, WC S-2

Filter paper ID : 400213

Prep Technician Signature: NF

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP110401
MS/MSD SPIKE SOL.	0.5ML	WP110400
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP109922
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP111404
CAL2	CAL2	50.0ML	WP111405
CAL3	CAL3	50.0ML	WP111406
CAL4	CAL4	50.0ML	WP111407
CAL5	CAL5	50.0ML	WP111408
CAL6	CAL6	50.0ML	WP111410
ICV	ICV	50.0ML	WP111412
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP111411
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166041BL	PBW041	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB166041BS	LCS041	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-01DUP	MW-1DUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-01MS	MW-1MS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-01MSD	MW-1MSD	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-01	MW-1	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-02	MW-2	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-03	MW-3	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-04	MW-4	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-05	MW-5	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-06	MW-6	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-07	MW-7	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-08	MW-8	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-09	MW-9	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1061-10	MW-10	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1070-01	1 EFFLUENT COMPOSITE	50	50	<2	N/A	N/A	N/A	N/A	N/A

5
A
B
C
D
E
F

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A **Start Digest Date:** 01/16/2025 **Time :** 08:45 **Temp :** 150 °C

Matrix : WATER **End Digest Date:** 01/16/2025 **Time :** 09:45 **Temp :** 158 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP111420
MS/MSD SPIKE SOL.	1.0ML	WP111419
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP111419
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814, Due to bad matrix and client history 1ML was taken as an initial volume for Q1070-01, Q1101-01 AND Q1101-05 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01-16-2025 10:00	RM CWL	RM CWL
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166064BL	PBW064	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB166064BS	LCS064	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1070-01DUP	1 EFFLUENT COMPOSITEDUP	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1070-01MS	1 EFFLUENT COMPOSITE MS	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1070-01MSD	1 EFFLUENT COMPOSITE MSD	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1070-01	1 EFFLUENT COMPOSITE	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1101-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1101-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

Chemtech Project Number WTP Final Effluent 20245
Bottle Order ID B2410054

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to		PROJECT NAME: Waste Treatment Plant		BILL TO: PO#	
COMPANY: Mars Chocolate North America, LLC		PROJECT #: LOCATION:		ADDRESS:	
ADDRESS: 700 High Street		Project Manager: Jeff Kram		CITY: STATE: ZIP:	
CITY: Hackettstown STATE: NJ ZIP: 07840		EMAIL Address: jeffery.kram@effem.com		ATTENTION:	
ATTENTION: Anthony Fosco EMAIL: anthony.fosco@effem.com		Telephone # 908-736-6742 FAX: 908-850-7923		PHONE:	
PHONE: 908-850-2446 FAX: 908-850-2734					

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																													
FAX: 5 DAYS*		☐ RESEULTS ONLY ☐ USEPA CLP		<table border="1"> <tr> <td>BOD 5</td> <td>TSS, TDS</td> <td>Oil & Grease</td> <td>Ammonia-N Total</td> <td>Phosphorus Total, COD</td> <td>BOD Soluble</td> <td>Color</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>										BOD 5	TSS, TDS	Oil & Grease	Ammonia-N Total	Phosphorus Total, COD	BOD Soluble	Color				1	2	3	4	5	6	7	8	9	
BOD 5	TSS, TDS	Oil & Grease	Ammonia-N Total											Phosphorus Total, COD	BOD Soluble	Color																	
1	2	3	4											5	6	7	8	9															
HARD COPY: DAYS*		☐ RESULTS * QC ☐ New York State ASP "B"																															
EDD DAYS*		☒ New Jersey REDUCED ☐ New York State ASP "A"																															
* TO BE APPROVED BY CHEMTECH		☒ New Jersey CLP ☐ Other																															
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ EDD FORMAT None																															

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	E TYPE		SAMPLE COLLECTION		# of Bottles	E	E	C	C	C	E	E	C		A-HCl	HNO3	B-
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	C-H2SO4 E-ICE	D-NaOH F-OTHER	
1 Effluent Composite		Waste Water	X		1/10/2025	5:00	10	X	X		X	X	X	X					
2 Effluent Grab		Waste Water		X	1/10/2025	5:00	3			X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME 1530	RECEIVED BY	Conditions of bottles or collers at receipt: → COMPLIANT → NON COMPLIANT → COOLER TEMP 2.6°C
1. Joe Pinto	1-10-25	1. [Signature]	MeOH extraction requires an additional 4oz. Jar for percent solid
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:
2. [Signature]		2. [Signature]	
RELINQUISHED BY	DATE/TIME 1440	RECEIVED FOR LAB BY	SHIPPED VIA:
3. [Signature]	1-10-25	3. [Signature]	CHEMTECH: → Picked Up
Page 1 of 1			Shipment Complete YES

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY #

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