ULTRA-TRACE ANALYSIS OF SUCRALOSE IN MULTI-MATRIX AQUEOUS SAMPLES BY ONLINE SPE HPLC-HIGH RESOLUTION MASS SPECTROMETRY

FINAL REPORT

M2503B

Submitted to

Caron Balkany PA
PO box 420859 Summerland Key, FL 33042

Performing Laboratory

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

Exh. B-1

Study Completed on
March 19, 2025

SIGNATURES AND APPROVAL

M2503B

Submitted by: Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

DocuSigned by:
Piero Gardinali
A48C2623B3734C3...

4/2/2025

QC Reviewer — Date

Signed by:
D8B2A8D63E0544F...

4/2/2025

Jinsheng Huang — Date
Organic Analyst

The above results relate only to the samples.

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University, Marine Science Building MSB 230/232,
North Miami, Florida 33181
(305) 919-6249

Florida International University
Environmental Analysis Research Laboratory
3000 NE 151st Street
North Miami, FL 33181

Case Narrative

Project: 20250312_Balkany

Client: Caron Balkany PA

FIU QC Batch No: M2640

SDG #: M2503B

Date: March 19, 2025

General Information:

14 samples arrived on 03/12/2025 and were analyzed for Sucralose using EARL SOP-2014-O-130.2. Samples were received in acceptable condition with any exceptions noted below.

Sample Receipt:

The samples arrived thawed.

Holding Time:

Samples were analyzed within the allowable holding time of 30 days as specified in EARL SOP-2014-O-130.2.

Sample Storage:

Samples were stored in a freezer at < -20°C until sample preparation / analysis.

Initial Calibrations:

All criteria were within EARL SOP-2014-O-130.2 method requirements (r^2>0.99).

Continuing Calibration Verification:

All criteria were within method requirements (the measured concentration should not deviate more than 30% from the assigned value, for all analytes). With any exceptions noted below.

Laboratory Reagent Blank (LRB):

All analytes were below the method detection limit in the LRB with any exceptions noted below.

Laboratory Fortified Blank (LFB) and LFB Duplicate:

All Laboratory Fortified Blank compounds were within EARL SOP-2014-O-130.2 method requirements (70%-130% recovery), with any exceptions noted below.

All Laboratory Fortified Blank RPD were within EARL SOP-2014-O-130.2 method requirements (≤ 30% RPD) with any exceptions noted below.

Laboratory Fortified Matrix (LFM):

All Laboratory Fortified Matrix compounds were within EARL SOP-2014-O-130.2 method requirements (70%-130% recovery), with any exceptions noted below.

Sample Duplicate:

All Duplicate Samples above MDL were within EARL SOP-2014-O-130.2 method requirements (<30% RPD) with any exceptions noted below.

ICVS:

Analysis of ICVS was within EARL SOP-2014-O-130.2 method requirements (Recovery within 70-130%) with any exceptions noted below.

Additional Comments:

8 samples presented sucralose concentration above the upper limit of quantification, i.e. the highest concentration of the calibration curve (2000 ng/L), and had to be diluted in order to preserve the method accuracy.

FIU Institute of Environment
Environmental Analysis Research Laboratory
Biscayne Bay Campus, MSB 232
Miami, Florida 33181 (305) 919-6249

EARL CHAIN OF CUSTODY RECORD

MATRIX CODE	SAMPLE TYPE CODE (FOR WATER)	SDG #
1 WATER 2 SEDIMENT/SOIL 3 TISSUE 4 OTHER	1 SURFACE 2 GROUNDWATER 3 WASTEWATER	M2503B

PROJECT/ASR #:	PROJECT NAME (COC ID): 20250312_Caron Balkany	SAMPLERS NAME/SIGNATURE: Matt Finn	CLIENT PI: Caron Balkany

ITEM #	SAMPLE ID (CLIENT SAMPLE ID):	DATE	TIME	STATION LOCATION		TOTAL # of CONTAINERS	MATRIX	SAMPLE TYPE	COLLECTION TYPE	SAMPLE CONDITION	REQUESTED PARAMETERS: SUCRALOSE						FIU ID
1	1-B	2/12/2025	12:18	24.034"	81.044"	1	1				X						25-00101
2	2-B	2/12/2025	12:18	24.083"	81.090"	1	1				X						25-00102
3	3-B	2/16/2025	15:40	24.083"	81.090"	1	1				X						25-00103
4	4-B	2/16/2025	15:40	24.083"	81.090"	1	1				X						25-00104
5	5- 1 foot	2/17/2025	15:30	24.083"	81.090"	1	1				X						25-00105
6	6- M10	2/17/2025	15:30	24.083"	81.090"	1	1				X						25-00106
7	7-B	2/17/2025	15:32	24.083"	81.090"	1	1				X						25-00107
8	8-B	2/17/2025	15:32	24.083"	81.090"	1	1				X						25-00108
9	9-B	3/9/2025	12:30	24.083"	81.090"	1	1				X						25-00109
10	10-B	3/9/2025	12:30	24.083"	81.090"	1	1				X						25-00110
11	11-M	3/9/2025	12:30	24.083"	81.090"	1	1				X						25-00111
12	12- 1 foot	3/9/2025	12:30	24.083"	81.090"	1	1				X						25-00112
13	13- MP1	3/10/2025	10:30	24.040"	81.020"	1	1				X						25-00113
14	14- MP2	3/10/2025	10:30	24.499"	81.571"	1	1				X						25-00114
15																	
16																	
17																	
18																	
19																	
20																	

Samples Arrived: frozen **In:** gel ice packs **Airbill Present:** **Shipping Company:**

Temperature upon Arrival: **Therm. ID:** **Airbill #:**

# of Shipping Containers: 1 **Description:** cooler **Custody Seals Present:** **Custody Seals Intact:**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Matt Finn / Caron Balkany		-	Jinsheng Huang	3/12/2025	16:50

COMMENTS: Samples collected on Scuba and U/W, transferred to cooler on ice within 15 mins then to freeze in about 1 hour. MP1& 2 Freshwater. All others saltwater. - FEDEX on ice

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2640 QC REPORT

Client Sample ID	**LRB**
Sample Descriptor	
Sample ID	Q9676
FIU ID	
Sample Type	*LRB*
SDG	

Pre-analysis Dilution Factor	1.00
Analysis Dilution Factor	1.10
Total Dilution Factor	1.10
Actual Sample Volume (uL)	10000
Final Volume (uL)	11000
Matrix	
Reporting Units	ng/L
Volume Units	uL
Data File	69021

QC Batch ID	M2640
Method	Online SPE LC-HRMS
Collection Date	NA
Receive Date	NA
Sample Prep	03/17/2025
Analysis Date	03/18/2025 2:25

COMPOUND	**Conc.**	**FLAG**	**DF**	**MDL**	**RL**
SUCRALOSE		ND	1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2640 QC REPORT

Client Sample ID	LFB	LFBD
Sample Descriptor		
Sample ID	Q9677	Q9678
FIU ID		
Sample Type	*LFB*	*LFBD*
SDG		
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix		
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	69022	69023
QC Batch ID	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	NA	NA
Receive Date	NA	NA
Sample Prep	03/17/2025	03/17/2025
Analysis Date	03/18/2025 2:46	03/18/2025 3:07

COMPOUND	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	RPD%	FLAG
SUCRALOSE	104		1.10	12.1	36.3	94.1		104		1.10	12.1	36.3	94.2		0.111	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2640 QC REPORT

Client Sample ID	**2-B**	**2-B MS**
Sample Descriptor		
Sample ID	W21219	Q9680
FIU ID	25-00102	25-00102
Sample Type	*ORIGINAL*	*LFM*
SDG	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	4.40	4.40
Total Dilution Factor	4.40	4.40
Actual Sample Volume (uL)	2500	2500
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	69029	69030
QC Batch ID	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	02/12/2025	02/12/2025
Receive Date	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025
Analysis Date	03/18/2025 5:14	03/18/2025 5:35

COMPOUND	**Concentration**	**FLAG**	**DF**	**MDL**	**RL**	**Concentration**	**FLAG**	**DF**	**MDL**	**RL**	**%Rec**	**FLAG**
SUCRALOSE	7848		4.40	48.4	145	8200		4.40	48.4	145	80	

ND Not Detected
J <MDL
NA Not Applicable
CJ Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2640 QC REPORT

Client Sample ID	1-B	1-B DUP
Sample Descriptor		
Sample ID	W21218	Q9679
FIU ID	25-00101	25-00101
Sample Type	*ORIGINAL*	*DUPLICATE*
SDG	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	4.40	4.40
Total Dilution Factor	4.40	4.40
Actual Sample Volume (uL)	2500	2500
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	69027	69028
QC Batch ID	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	02/12/2025	02/12/2025
Receive Date	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025
Analysis Date	03/18/2025 4:32	03/18/2025 4:53

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	RPD%	FLAG
SUCRALOSE	4168		4.40	48.4	145	4082		4.40	48.4	145	2.09	

ND Not Detected
J <MDL
NA Not Applicable
CJ Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2503B SAMPLE REPORT

Client Sample ID	1-B	2-B	3-B
Sample Descriptor			
Sample ID	W21218	W21219	W21220
FIU ID	25-00101	25-00102	25-00103
Sample Type	*N*	*N*	*N*
SDG	M2503B	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	4.40	4.40	4.40
Total Dilution Factor	4.40	4.40	4.40
Actual Sample Volume (uL)	2500	2500	2500
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	69027	69029	69031
QC Batch ID	M2640	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	02/12/2025	02/12/2025	02/16/2025
Receive Date	03/12/2025	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025	03/17/2025
Analysis Date	03/18/2025 4:32	03/18/2025 5:14	03/18/2025 5:56

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	4168		4.40	48.4	145	7848		4.40	48.4	145	5197		4.40	48.4	145

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2503B SAMPLE REPORT

Client Sample ID	4-B	5-1 foot	6-M10
Sample Descriptor			
Sample ID	W21221	W21222	W21223
FIU ID	25-00104	25-00105	25-00106
Sample Type	*N*	*N*	*N*
SDG	M2503B	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	4.40	1.10	1.10
Total Dilution Factor	4.40	1.10	1.10
Actual Sample Volume (uL)	2500	10000	10000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	69032	69033	69034
QC Batch ID	M2640	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	02/16/2025	02/17/2025	02/17/2025
Receive Date	03/12/2025	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025	03/17/2025
Analysis Date	03/18/2025 6:17	03/18/2025 6:38	03/18/2025 6:59

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	6136		4.40	48.4	145	1569		1.10	12.1	36.3	887		1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2503B SAMPLE REPORT

Client Sample ID	7-B	8-B	9-B
Sample Descriptor			
Sample ID	W21224	W21225	W21226
FIU ID	25-00107	25-00108	25-00109
Sample Type	*N*	*N*	*N*
SDG	M2503B	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	5.50	4.40	11.0
Total Dilution Factor	5.50	4.40	11.0
Actual Sample Volume (uL)	2000	2500	1000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	69037	69038	69039
QC Batch ID	M2640	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	02/17/2025	02/17/2025	03/09/2025
Receive Date	03/12/2025	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025	03/17/2025
Analysis Date	03/18/2025 8:02	03/18/2025 8:23	03/18/2025 8:44

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	8664		5.50	60.5	182	4820		4.40	48.4	145	14974		11.0	121	363

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2503B SAMPLE REPORT

Client Sample ID	10-B	11-M	12- 1 foot
Sample Descriptor			
Sample ID	W21227	W21228	W21229
FIU ID	25-00110	25-00111	25-00112
Sample Type	*N*	*N*	*N*
SDG	M2503B	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	11.0	1.10	1.10
Total Dilution Factor	11.0	1.10	1.10
Actual Sample Volume (uL)	1000	10000	10000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	69040	69041	69042
QC Batch ID	M2640	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	03/09/2025	03/09/2025	03/09/2025
Receive Date	03/12/2025	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025	03/17/2025
Analysis Date	03/18/2025 9:06	03/18/2025 9:27	03/18/2025 9:48

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	13045		11.0	121	363	1529		1.10	12.1	36.3	1619		1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2503B SAMPLE REPORT

Client Sample ID	13- MP1	14- MP2
Sample Descriptor		
Sample ID	W21230	W21231
FIU ID	25-00113	25-00114
Sample Type	*N*	*N*
SDG	M2503B	M2503B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	69043	69044
QC Batch ID	M2640	M2640
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	03/10/2025	03/10/2025
Receive Date	03/12/2025	03/12/2025
Sample Prep	03/17/2025	03/17/2025
Analysis Date	03/18/2025 10:09	03/18/2025 10:30

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	50.5		1.10	12.1	36.3		ND	1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: Sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 1 mL Amber ☐ Clear ☐	

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		Sucr. Cal- 250317.JN	100	Sucralose_D6 250317.JN	100	M2503B

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	Q9676	LRB	10000				
2	Q9677	LFB	10000				
3	Q9678	LFB-DUP	10000				
4	Q9679	1-B ~~FB~~ DUP	~~10000~~ JN			25-00101	1:4 2500uL
5	Q9680	~~2-B~~ ~~FB~~ MS	~~10000~~ JN			25-00102	1:4 2500uL
6	W21218	~~1-B~~ ~~FB~~	~~10000~~ JN			25-00101	1:4 2500uL
7	W21219	2-B ~~1:4~~	~~10000~~ JN			25-00102	1:4 2500uL
8	W21220	3-B ~~1:4~~	~~10000~~ JN			25-00103	1:4 2500uL
9	W21221	4-B ~~1:4~~	~~10000~~ JN			25-00104	1:4 2500uL
10	W21222	5-1 foot	10000			25-00105	
11	W21223	6-M10	10000			25-00106	
12	W21224	7-B ~~1:5~~	~~10000~~ JN			25-00107	1:5 2000uL
13	W21225	8-B ~~1:4~~	~~10000~~ JN			25-00108	1:4 2500uL
14	W21226	9-B ~~1:10~~	~~10000~~ JN			25-00109	1:10 100uL
15	W21227	10-B ~~1:10~~	~~10000~~ JN			25-00110	1:10 100uL
16	W21228	11-M	10000			25-00111	
17	W21229	12-1 foot	10000			25-00112	

Process	Date	Initials
Received	3/12/25	JN
Sample Prep.	03/17/25	JN
Spike Wittness		
Extraction		
Concentration		
_____ Cleanup		
Concentration		
_____ Cleanup		
Concentration		
_____ Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/MRMS Prep	03/17/25	JN
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:	M2503B_SUCRALOSE_by_ONLINE_SPE-HRMS_LVL_II_FINAL_REPORT_20250402	

M 2640

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: Sucralose	PI:	
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 1 mL	Amber ☐ Clear ☐

FIU EARL Environmental Analysis Research Laboratory

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		Suc.Cal-250317.JH	100	Suc.D6 250317.JH	100	M2503B

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	W21230	13 - MP1	10000			25-00113	
2	W21231	14 - MP2	10000			25-00114	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							

Process	Date	Initials
Received	3/12/25	J.H
Sample Prep.	3/17/25	J.H
Spike Wittness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	3/17/25	J.H
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:	M2503B_SUCRALOSE_by_ONLINE_SPE-HRMS_LVL	I_FINAL_REPORT_20250402

M 2641

M2640 cont.

ULTRA-TRACE ANALYSIS OF SUCRALOSE IN MULTI-MATRIX AQUEOUS SAMPLES BY ONLINE SPE HPLC-HIGH RESOLUTION MASS SPECTROMETRY

FINAL REPORT

M2505D

Submitted to

Caron Balkany PA
PO box 420859 Summerland Key, FL 33042

Performing Laboratory

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

Study Completed on
May 30, 2025

Exh. B-2

SIGNATURES AND APPROVAL

M2505D

Submitted by: Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

DocuSigned by:
Piero Gardinali
A48C2623B3734C3...

6/2/2025

QC Reviewer Date

Signed by:
Mary Beth Cavanaugh
8D830137F007442...

6/2/2025

Mary Beth Cavanaugh Date
Organic Analyst

The above results relate only to the samples.

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University, Marine Science Building MSB 230/232,
North Miami, Florida 33181
(305) 919-6249

Florida International University
Environmental Analysis Research Laboratory
3000 NE 151st Street
North Miami, FL 33181

Case Narrative

Project: 20250513_Caron Balkany

Client: Caron Balkany PA

FIU QC Batch No: M2661

SDG #: M2505D

Date: May 30, 2025

General Information:

21 samples arrived on 05/13/2025. Samples were analyzed for Sucralose using EARL SOP-2014-O-130.4. Samples were received in acceptable condition with any exceptions noted below.

Sample Receipt:

The samples arrived frozen.

Holding Time:

The samples were analyzed within the allowable holding time of 30 days as specified in EARL SOP-2014-O-130.4.

Sample Storage:

The samples were stored in a freezer at < -20°C until sample preparation / analysis.

Initial Calibrations:

All criteria were within EARL SOP-2014-O-130.4 method requirements (r^2>0.99).

Continuing Calibration Verification:

All criteria were within method requirements (the measured concentration should not deviate more than 30% from the assigned value, for all analytes). With any exceptions noted below.

Laboratory Reagent Blank (LRB):

All analytes were below the method detection limit in the LRB with any exceptions noted below.

Laboratory Fortified Blank (LFB) and LFB Duplicate:

All Laboratory Fortified Blank compounds were within EARL SOP-2014-O-130.4 method requirements (70%-130% recovery), with any exceptions noted below.

All Laboratory Fortified Blank RPD were within EARL SOP-2014-O-130.4 method requirements (≤ 30% RPD) with any exceptions noted below.

Laboratory Fortified Matrix (LFM):

All Laboratory Fortified Matrix compounds were within EARL SOP-2014-O-130.4 method requirements (70%-130% recovery), with any exceptions noted below.

Sample Duplicate:

All Duplicate Samples above MDL were within EARL SOP-2014-O-130.4 method requirements (<30% RPD) with any exceptions noted below.

ICVS:

Analysis of ICVS was within EARL SOP-2014-O-130.4 method requirements (Recovery within 70-130%) with any exceptions noted below.

Additional Comments:

13 samples presented sucralose concentration above the upper limit of quantification, i.e. the highest concentration of the calibration curve (2000 ng/L), and had to be diluted in order to preserve the method accuracy.

FIU Institute of Environment
Environmental Analysis Research Laboratory
Biscayne Bay Campus, MSB 232
Miami, Florida 33181 (305) 919-6249

EARL CHAIN OF CUSTODY RECORD

MATRIX CODE	SAMPLE TYPE CODE (FOR WATER)	SDG #
1 WATER 2 SEDIMENT/SOIL 3 TISSUE 4 OTHER	1 SURFACE 2 GROUNDWATER 3 WASTEWATER	M2505D

PROJECT/ASR #:	PROJECT NAME (COC ID):	CLIENT PI:
	20250513_Caron Balkany	
SAMPLERS NAME/SIGNATURE:		
Matt Finn		Caron Balkany - FOLKS

ITEM #	SAMPLE ID (CLIENT SAMPLE ID):	DATE	TIME	STATION LOCATION		TOTAL # of CONTAINERS	MATRIX	SAMPLE TYPE	COLLECTION TYPE	SAMPLE CONDITION	REQUESTED PARAMETERS: SUCRALOSE						FIU ID
1	1-Bottom	3/19/2025	14:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00235
2	2-R-1	4/17/2025	13:10	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00236
3	3-Bottom	4/19/2025	12:30	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00237
4	~~4-Top~~ 4-Bottom	4/19/2025	12:30	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00238
5	5-Bottom	4/23/2025	15:30	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00239
6	6-Top	4/23/2025	15:30	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00240
7	7-R-1	4/23/2025	15:45	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00241
8	8-Bottom	4/29/2025	16:10	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00242
9	9-Top	4/29/2025	16:10	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00243
10	10-R-1	4/29/2025	15:00	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00244
11	11-Top	4/30/2025	17:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00245
12	12-Bottom	4/30/2025	17:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00246
13	13-Bottom	4/30/2025	21:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00247
14	14-Top	4/30/2025	21:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00248
15	15-B1	4/29/2025	16:40	N24°34.073'	W81°44.076'	1	1	SW	Hand	F	X						25-00249
16	16-Top	5/6/2025	14:15	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00250
17	17-Bottom1	5/6/2025	14:15	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00251
18	18-Bottom2	5/6/2025	14:15	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00252
19	19-Bottom3	5/6/2025	14:40	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00253
20	20-R1	5/6/2025	16:00	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00254
21	21-B1	5/6/2025	15:00	N24°34.073'	W81°44.076'	1	1	SW	Hand	F	X						25-00255

Samples Arrived: frozen **In:** gel ice packs **Airbill Present:** **Shipping Company:** FEDEX

Temperature upon Arrival: **Therm. ID:** **Airbill #:**

# of Shipping Containers: 1 **Description:** 21 samples **Custody Seals Present:** **Custody Seals Intact:**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Matthew Finn	5/12/2025	-	FEDEX Key West 3553 S. Rosevelt Blvd.	5/12/2025	-
			Piero Gardinali	5/13/2025	13:00

COMMENTS: F=Frozen SW=Salt Water R1=Ice Plant B1=Dock End Samples collected on SCUBA (Bottom and Top) and by hand (R1 and B1)

All samples onto ice in cooler then to freezer, Location GPS positions with handheld Garmin accuracy 10 feet, 4-TOP was changed to 4-Bottom as written on sample bottle

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	**LRB**
Sample Descriptor	
Sample ID	Q9730
FIU ID	
Sample Type	*LRB*
SDG	

Pre-analysis Dilution Factor	1.00
Analysis Dilution Factor	1.10
Total Dilution Factor	1.10
Actual Sample Volume (uL)	10000
Final Volume (uL)	11000
Matrix	
Reporting Units	ng/L
Volume Units	uL
Data File	70470

QC Batch ID	M2661
Method	Online SPE LC-HRMS
Collection Date	NA
Receive Date	NA
Sample Prep	05/28/2025
Analysis Date	05/27/2025 18:32

COMPOUND	**Conc.**	**FLAG**	**DF**	**MDL**	**RL**
SUCRALOSE		ND	1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	LFB	LFBD
Sample Descriptor		
Sample ID	Q9731	Q9732
FIU ID		
Sample Type	*LFB*	*LFBD*
SDG		
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix		
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70471	70472
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	NA	NA
Receive Date	NA	NA
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 18:53	05/27/2025 19:15

COMPOUND	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	RPD%	FLAG
SUCRALOSE	96.3		1.10	12.1	36.3	87.6		94.9		1.10	12.1	36.3	86.3		1.498	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	Tom's Harbor 2	Tom's Harbor 2 MS
Sample Descriptor		
Sample ID	W21388	Q9734
FIU ID	25-00226	25-00226
Sample Type	*ORIGINAL*	*LFM*
SDG	M2504B	M2504B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70477	70478
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/25/2025	04/25/2025
Receive Date	05/08/2025	05/08/2025
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 21:00	05/27/2025 21:21

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	%Rec	FLAG
SUCRALOSE		ND	1.10	12.1	36.3	103		1.10	12.1	36.3	94	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	Tom's Harbor 1	Tom's Harbor 1 DUP
Sample Descriptor		
Sample ID	W21387	Q9733
FIU ID	25-00225	25-00225
Sample Type	*ORIGINAL*	*DUPLICATE*
SDG	M2504B	M2504B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70475	70476
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/25/2025	04/25/2025
Receive Date	05/08/2025	05/08/2025
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 20:18	05/27/2025 20:39

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	RPD%	FLAG
SUCRALOSE	13.5		1.10	12.1	36.3	12.8		1.10	12.1	36.3	5.88	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	1-Bottom	2-R-1	3-Bottom
Sample Descriptor			
Sample ID	W21397	W21398	W21399
FIU ID	25-00235	25-00236	25-00237
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	2.20	1.10	4.40
Total Dilution Factor	2.20	1.10	4.40
Actual Sample Volume (uL)	5000	10000	2500
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70531	70532	70533
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	03/19/2025	04/17/2025	04/19/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 17:59	05/28/2025 18:20	05/28/2025 18:41

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	3147		2.20	24.2	72.6	1303		1.10	12.1	36.3	5786		4.40	48.4	145

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	4-Bottom	5-Bottom	6-Top
Sample Descriptor			
Sample ID	W21400	W21401	W21402
FIU ID	25-00238	25-00239	25-00240
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	1.10	4.40	1.10
Total Dilution Factor	1.10	4.40	1.10
Actual Sample Volume (uL)	10000	2500	10000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70534	70535	70536
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/19/2025	04/23/2025	04/23/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 19:02	05/28/2025 19:23	05/28/2025 19:44

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	1306		1.10	12.1	36.3	6420		4.40	48.4	145	837		1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	7-R-1	8-Bottom	9-Top
Sample Descriptor			
Sample ID	W21403	W21404	W21405
FIU ID	25-00241	25-00242	25-00243
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	1.10	11.0	1.10
Total Dilution Factor	1.10	11.0	1.10
Actual Sample Volume (uL)	10000	1000	10000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70537	70538	70541
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/23/2025	04/29/2025	04/29/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 20:05	05/28/2025 20:26	05/28/2025 21:29

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	1229		1.10	12.1	36.3	15880		11.0	121	363	1028		1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	10-R-1	11-Top	12-Bottom
Sample Descriptor			
Sample ID	W21406	W21407	W21408
FIU ID	25-00244	25-00245	25-00246
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	2.20	1.10	5.50
Total Dilution Factor	2.20	1.10	5.50
Actual Sample Volume (uL)	5000	10000	2000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70542	70543	70544
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/29/2025	04/30/2025	04/30/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 21:50	05/28/2025 22:12	05/28/2025 22:33

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	2722		2.20	24.2	72.6	987		1.10	12.1	36.3	10456		5.50	60.5	182

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	13-Bottom	14-Top	15-B1
Sample Descriptor			
Sample ID	W21409	W21410	W21411
FIU ID	25-00247	25-00248	25-00249
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	4.40	1.10	2.20
Total Dilution Factor	4.40	1.10	2.20
Actual Sample Volume (uL)	2500	10000	5000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70545	70546	70547
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/30/2025	04/30/2025	04/29/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 22:54	05/28/2025 23:15	05/28/2025 23:36

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	5834		4.40	48.4	145	1185		1.10	12.1	36.3	2594		2.20	24.2	72.6

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	16-Top	17-Bottom1	18-Bottom2
Sample Descriptor			
Sample ID	W21412	W21413	W21414
FIU ID	25-00250	25-00251	25-00252
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	1.10	4.40	4.40
Total Dilution Factor	1.10	4.40	4.40
Actual Sample Volume (uL)	10000	2500	2500
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70548	70551	70552
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	05/06/2025	5/6/2025	5/6/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/28/2025 23:57	05/29/2025 1:00	05/29/2025 1:21

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	1908		1.10	12.1	36.3	4670		4.40	48.4	145	6303		4.40	48.4	145

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	19-Bottom3	20-R1	21-B1
Sample Descriptor			
Sample ID	W21415	W21416	W21417
FIU ID	25-00253	25-00254	25-00255
Sample Type	*N*	*N*	*N*
SDG	M2505D	M2505D	M2505D
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	5.50	2.20	4.40
Total Dilution Factor	5.50	2.20	4.40
Actual Sample Volume (uL)	2000	5000	2500
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70553	70554	70555
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	5/6/2025	05/06/2025	05/06/2025
Receive Date	05/13/2025	05/13/2025	05/13/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/29/2025 1:42	05/29/2025 2:03	05/29/2025 2:25

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	9555		5.50	60.5	182	2146		2.20	24.2	72.6	3509		4.40	48.4	145

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 11 mL	Amber ☐ Clear ☐

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		SUC cal 25~~24~~ 29 MVC	100	SUC D6 250505MVC	100	M250SC M250SD M250SG M250SH

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	Q9730	LRB	10,000				
2	Q9731	LFB	10,000				
3	Q9732	LFB Dup	10,000				
4	Q9733	Tom's Harbor 1 Dup	10,000			25-00225	
5	Q9734	Tom's Harbor 2 MS	10,000			25-00226	
6	W21387	Tom's Harbor 1	10,000			25-00225	
7	W21388	Tom's Harbor 2	10,000			25-00226	
8	W21389	Tom's Harbor 3	10,000			25-00227	
9	W21390	Tom's Harbor 4	10,000			25-00228	
10	W21391	Tom's Harbor 5	10,000			25-00229	
11	W21392	Tom's Harbor 6	10,000			25-00230	
12	W21393	Tom's Harbor 7	10,000			25-00231	
13	W21394	Tom's Harbor 8	10,000			25-00232	
14	W21395	Tom's Harbor 9	10,000			25-00233	
15	W21396	Tom's Harbor 10	10,000			25-00234	
16	W21397	1-Bottom	~~10,000~~ 5/30/25 MVC			25-00235	1:2 5000µL 5/30/25 MVC
17	W21398	2-R-1	10,000			25-00236	

Process	Date	Initials
Received 5/8/25 5/13/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

M 2661

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 11 mL	Amber ☐ Clear ☐

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		sucCal 250429mvc	100	sucD6 250505mvc	100	M2505C M2505D M2505G M2505H

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	W21399	3-Bottom	~~10,000~~ 5/30/25 MVC			25-00237	1:4 2500µL 5/30/25 MVC
2	W21400	4-Bottom	10,000			25-00238	
3	W21401	5-Bottom	~~10,000~~ 5/30/25 MVC			25-00239	1:4 2500µL 5/30/25 MVC
4	W21402	6-Top	10,000			25-00240	
5	W21403	7-R-1	10,000			25-00241	
6	W21404	8-Bottom	~~10,000~~ 5/30/25 MVC			25-00242	1:10 1000µL 5/30/25 MVC
7	W21405	9-Top	10,000			25-00243	
8	W21406	10-R-1	~~10,000~~ 5/30/25 MVC			25-00244	1:2 5000µL 5/30/25 MVC
9	W21407	11-Top	10,000			25-00245	
10	W21408	12-Bottom	~~10,000~~ 5/30/25 MVC			25-00246	1:5 2000µL 5/30/25 MVC
11	W21409	13-Bottom	~~10,000~~ 5/30/25 MVC			25-00247	1:4 2500µL 5/30/25 MVC
12	W21410	14-Top	10,000			25-00248	
13	W21411	15-B1	~~10,000~~ 5/30/25 MVC			25-00249	1:2 5000µL 5/30/25 MVC
14	W21412	16-Top	10,000			25-00250	
15	W21413	17-Bottom1	~~10,000~~ 5/30/25 MVC			25-00251	1:4 2500µL 5/30/25 MVC
16	W21414	18-Bottom2	~~10,000~~ 5/30/25 MVC			25-00252	1:4 2500µL 5/30/25 MVC
17	W21415	19-Bottom3	~~10,000~~ 5/30/25 MVC			25-00253	1:5 2000µL 5/30/25 MVC

Process	Date	Initials
Received 5/8/25 5/13/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

M ~~2662~~

M2661 cont.

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 11 mL	Amber ☐ Clear ☐

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		suc Cal 250429MVC	100	suc D6 250505MVC	100	M2505C M2505D M2505G M2505H

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	W21416	20-R1	~~10,000~~ 5/30/25 MVC			25-00254	1:2 5000µL 5/30/25 MVC
2	W21417	21-B1	~~10,000~~ 5/30/25 MVC			25-00255	1:4 2500µL 5/30/25 MVC
3	W21418	Love Key Nearshore	10,000			25-00277	
4	W21419	Love Key Hawk Channel	10,000			25-00278	
5	W21420	Love Key Reef	10,000			25-00279	
6	W21421	Love Key Offshore	10,000			25-00280	
7	W21422	Key West 1	10,000			25-00281	
8	W21423	Key West 2	10,000			25-00282	
9	W21424	Key West 3	10,000			25-00283	
10	W21425	Key West 4	10,000			25-00284	
11	W21426	1-B	~~10,000~~ 5/30/25 MVC			25-00285	1:10 1000µL 5/30/25 MVC
12	W21427	2-B	~~10,000~~ 5/30/25 MVC			25-00286	1:2 5000µL 5/30/25 MVC
13	W21428	3-Bottom	~~10,000~~ 5/30/25 MVC			25-00287	1:5 2000µL 5/30/25 MVC
14	W21429	4-T	10,000			25-00288	
15	W21430	5-B1	~~10,000~~ 5/30/25 MVC			25-00289	1:2 5000µL 5/30/25 MVC
16	W21431	6-R1	10,000			25-00290	
17							

Process	Date	Initials
Received 5/8/25 5/8/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

M 2663

M2668 Cont.

ULTRA-TRACE ANALYSIS OF SUCRALOSE IN MULTI-MATRIX AQUEOUS SAMPLES BY ONLINE SPE HPLC-HIGH RESOLUTION MASS SPECTROMETRY

FINAL REPORT

M2505H

Submitted to

Caron Balkany PA
PO box 420859 Summerland Key, FL 33042

Performing Laboratory

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

Study Completed on
May 30, 2025

Exh. B-3

SIGNATURES AND APPROVAL

M2505H

Submitted by: Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University
North Miami, Florida 33181

DocuSigned by:
Piero Gardinali
A48C2623B3734C3...

6/2/2025

QC Reviewer — Date

Signed by:
Mary Beth Cavanaugh
8D830137F007442...

6/2/2025

Mary Beth Cavanaugh — Date
Organic Analyst

The above results relate only to the samples.

Environmental Analysis Research Laboratory (EARL)
Southeast Environmental Research Center and
Department of Chemistry & Biochemistry
Florida International University, Marine Science Building MSB 230/232,
North Miami, Florida 33181
(305) 919-6249

Florida International University
Environmental Analysis Research Laboratory
3000 NE 151st Street
North Miami, FL 33181

Case Narrative

Project: 20250522_Caron Balkany

Client: Caron Balkany PA

FIU QC Batch No: M2661

SDG #: M2505H

Date: May 30, 2025

General Information:

6 samples arrived on 05/21/2025. Samples were analyzed for Sucralose using EARL SOP-2014-O-130.4. Samples were received in acceptable condition with any exceptions noted below.

Sample Receipt:

The samples arrived frozen.

Holding Time:

The samples were analyzed within the allowable holding time of 30 days as specified in EARL SOP-2014-O-130.4.

Sample Storage:

The samples were stored in a freezer at < -20°C until sample preparation / analysis.

Initial Calibrations:

All criteria were within EARL SOP-2014-O-130.4 method requirements (r^2>0.99).

Continuing Calibration Verification:

All criteria were within method requirements (the measured concentration should not deviate more than 30% from the assigned value, for all analytes). With any exceptions noted below.

Laboratory Reagent Blank (LRB):

All analytes were below the method detection limit in the LRB with any exceptions noted below.

Laboratory Fortified Blank (LFB) and LFB Duplicate:

All Laboratory Fortified Blank compounds were within EARL SOP-2014-O-130.4 method requirements (70%-130% recovery), with any exceptions noted below.

All Laboratory Fortified Blank RPD were within EARL SOP-2014-O-130.4 method requirements (≤ 30% RPD) with any exceptions noted below.

Laboratory Fortified Matrix (LFM):

All Laboratory Fortified Matrix compounds were within EARL SOP-2014-O-130.4 method requirements (70%-130% recovery), with any exceptions noted below.

Sample Duplicate:

All Duplicate Samples above MDL were within EARL SOP-2014-O-130.4 method requirements (<30% RPD) with any exceptions noted below.

ICVS:

Analysis of ICVS was within EARL SOP-2014-O-130.4 method requirements (Recovery within 70-130%) with any exceptions noted below.

Additional Comments:

4 samples presented sucralose concentration above the upper limit of quantification, i.e. the highest concentration of the calibration curve (2000 ng/L), and had to be diluted in order to preserve the method accuracy.

FIU Institute of Environment
Environmental Analysis Research Laboratory
Biscayne Bay Campus, MSB 232
Miami, Florida 33181 (305) 919-6249

EARL CHAIN OF CUSTODY RECORD

MATRIX CODE	SAMPLE TYPE CODE (FOR WATER)	SDG #
1 WATER 2 SEDIMENT/SOIL 3 TISSUE 4 OTHER	1 SURFACE 2 GROUNDWATER 3 WASTEWATER	M2505H

PROJECT/ASR #:	PROJECT NAME (COC ID):	CLIENT PI:
	20250522_Caron Balkany	
SAMPLERS NAME/SIGNATURE:		
Matt Finn		Caron Balkany - FOLKS

ITEM #	SAMPLE ID (CLIENT SAMPLE ID):	DATE	TIME	STATION LOCATION		TOTAL # of CONTAINERS	MATRIX	SAMPLE TYPE	COLLECTION TYPE	SAMPLE CONDITION	REQUESTED PARAMETERS: SUCRALOSE						FIU ID
1	1-B	5/20/2025	14:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00285
2	2-B	5/20/2025	14:00	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00286
3	3-Bottom	5/20/2025	14:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00287
4	4-T	5/20/2025	14:00	N24°34.096'	W81°44.066'	1	1	SW	Hand	F	X						25-00288
5	5-B1	5/20/2025	15:20	N24°34.073'	W81°44.076'	1	1	SW	Hand	F	X						25-00289
6	6-R1	5/20/2025	15:30	N24°34.014'	W81°44.065'	1	1	SW	Hand	F	X						25-00290
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	

Samples Arrived:	frozen	In:	ice packs	Airbill Present:	Shipping Company: FEDEX
Temperature upon Arrival:		Therm. ID:		Airbill #:	
# of Shipping Containers:	1	Description:	21 samples	Custody Seals Present:	Custody Seals Intact:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Matthew Finn	5/21/2025	-	FEDEX Key West 3553 S. Rosevelt Blvd.	5/21/2025	-
			Mary Beth Cavanaugh	5/21/2025	18:00

COMMENTS: F=Frozen SW=Salt Water R1=Ice Plant B1=Dock End Samples collected on SCUBA (Bottom and Top) and by hand (R1 and B1)

All samples onto ice in cooler then to freezer, Location GPS positions with handheld Garmin accuracy 10 feet

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	**LRB**
Sample Descriptor	
Sample ID	Q9730
FIU ID	
Sample Type	*LRB*
SDG	

Pre-analysis Dilution Factor	1.00
Analysis Dilution Factor	1.10
Total Dilution Factor	1.10
Actual Sample Volume (uL)	10000
Final Volume (uL)	11000
Matrix	
Reporting Units	ng/L
Volume Units	uL
Data File	70470

QC Batch ID	M2661
Method	Online SPE LC-HRMS
Collection Date	NA
Receive Date	NA
Sample Prep	05/28/2025
Analysis Date	05/27/2025 18:32

COMPOUND	**Conc.**	**FLAG**	**DF**	**MDL**	**RL**
SUCRALOSE		ND	1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	LFB	LFBD
Sample Descriptor		
Sample ID	Q9731	Q9732
FIU ID		
Sample Type	*LFB*	*LFBD*
SDG		
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix		
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70471	70472
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	NA	NA
Receive Date	NA	NA
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 18:53	05/27/2025 19:15

COMPOUND	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	Conc.	FLAG	DF	MDL	RL	%Rec	FLAG	RPD%	FLAG
SUCRALOSE	96.3		1.10	12.1	36.3	87.6		94.9		1.10	12.1	36.3	86.3		1.498	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	Tom's Harbor 2	Tom's Harbor 2 MS
Sample Descriptor		
Sample ID	W21388	Q9734
FIU ID	25-00226	25-00226
Sample Type	*ORIGINAL*	*LFM*
SDG	M2504B	M2504B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70477	70478
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/25/2025	04/25/2025
Receive Date	05/08/2025	05/08/2025
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 21:00	05/27/2025 21:21

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	%Rec	FLAG
SUCRALOSE		ND	1.10	12.1	36.3	103		1.10	12.1	36.3	94	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2658 QC REPORT

Client Sample ID	Tom's Harbor 1	Tom's Harbor 1 DUP
Sample Descriptor		
Sample ID	W21387	Q9733
FIU ID	25-00225	25-00225
Sample Type	*ORIGINAL*	*DUPLICATE*
SDG	M2504B	M2504B
Pre-analysis Dilution Factor	1.00	1.00
Analysis Dilution Factor	1.10	1.10
Total Dilution Factor	1.10	1.10
Actual Sample Volume (uL)	10000	10000
Final Volume (uL)	11000	11000
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Volume Units	uL	uL
Data File	70475	70476
QC Batch ID	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	04/25/2025	04/25/2025
Receive Date	05/08/2025	05/08/2025
Sample Prep	05/28/2025	05/28/2025
Analysis Date	05/27/2025 20:18	05/27/2025 20:39

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	RPD%	FLAG
SUCRALOSE	13.5		1.10	12.1	36.3	12.8		1.10	12.1	36.3	5.88	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination > MDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	1-B	2-B	3-Bottom
Sample Descriptor			
Sample ID	W21426	W21427	W21428
FIU ID	25-00285	25-00286	25-00287
Sample Type	*N*	*N*	*N*
SDG	M2505H	M2505H	M2505H
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	11.0	2.20	5.50
Total Dilution Factor	11.0	2.20	5.50
Actual Sample Volume (uL)	1000	5000	2000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70612	70570	70571
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	05/20/2025	05/20/2025	05/20/2025
Receive Date	05/21/2025	05/21/2025	05/21/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/30/2025 4:07	05/29/2025 13:22	05/29/2025 13:43

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	11855		11.0	121	363	3943		2.20	24.2	72.6	7684		5.50	60.5	182

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

SUCRALOSE by ONLINE SPE LC-HRMS ANALYSIS
M2505D SAMPLE REPORT

Client Sample ID	4-T	5-B1	6-R1
Sample Descriptor			
Sample ID	W21429	W21430	W21431
FIU ID	25-00288	25-00289	25-00290
Sample Type	*N*	*N*	*N*
SDG	M2505H	M2505H	M2505H
Pre-analysis Dilution Factor	1.00	1.00	1.00
Analysis Dilution Factor	1.10	2.20	1.10
Total Dilution Factor	1.10	2.20	1.10
Actual Sample Volume (uL)	10000	5000	10000
Final Volume (uL)	11000	11000	11000
Matrix	Water	Water	Water
Reporting Units	ng/L	ng/L	ng/L
Volume Units	uL	uL	uL
Data File	70572	70573	70574
QC Batch ID	M2661	M2661	M2661
Method	Online SPE LC-HRMS	Online SPE LC-HRMS	Online SPE LC-HRMS
Collection Date	05/20/2025	05/20/2025	05/20/2025
Receive Date	05/21/2025	05/21/2025	05/21/2025
Sample Prep	05/28/2025	05/28/2025	05/28/2025
Analysis Date	05/29/2025 14:04	05/29/2025 14:25	05/29/2025 14:46

COMPOUND	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL	Concentration	FLAG	DF	MDL	RL
SUCRALOSE	1757		1.10	12.1	36.3	4127		2.20	24.2	72.6	1925		1.10	12.1	36.3

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination>3xMDL
D Dilution
EC Exceeds Calibration

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 11 mL	Amber ☐ Clear ☐

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		SUC cal 25~~24~~ 29 MVC	100	SUC D6 250505MVC	100	M250SC M250SD M250SG M250SH

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	Q9730	LRB	10,000				
2	Q9731	LFB	10,000				
3	Q9732	LFB Dup	10,000				
4	Q9733	Tom's Harbor 1 Dup	10,000			25-00225	
5	Q9734	Tom's Harbor 2 MS	10,000			25-00226	
6	W21387	Tom's Harbor 1	10,000			25-00225	
7	W21388	Tom's Harbor 2	10,000			25-00226	
8	W21389	Tom's Harbor 3	10,000			25-00227	
9	W21390	Tom's Harbor 4	10,000			25-00228	
10	W21391	Tom's Harbor 5	10,000			25-00229	
11	W21392	Tom's Harbor 6	10,000			25-00230	
12	W21393	Tom's Harbor 7	10,000			25-00231	
13	W21394	Tom's Harbor 8	10,000			25-00232	
14	W21395	Tom's Harbor 9	10,000			25-00233	
15	W21396	Tom's Harbor 10	10,000			25-00234	
16	W21397	1-Bottom	~~10,000~~ 5/30/25 MVC			25-00235	1:2 5000µL 5/30/25 MVC
17	W21398	2-R-1	10,000			25-00236	

Process	Date	Initials
Received 5/8/25 5/13/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

M 2661

Miscellaneous Laboratory Sample Logbook

MATRIX			
WATER ☐	PROJECT: sucralose	PI:	FIU EARL Environmental Analysis Research Laboratory
SEDIMENT ☐	ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐		
TISSUE: _____	PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____		
OTHER: _____	FINAL SOLVENT: LC water	FINAL VOLUME: 11 mL	Amber ☐ Clear ☐

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)	COMMENTS:
		sucCal 250429mvc	100	sucD6 250505mvc	100	M2505C M2505D M2505G M2505H

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	W21399	3-Bottom	~~10,000~~ 5/30/25 MVC			25-00237	1:4 2500µL 5/30/25 MVC
2	W21400	4-Bottom	10,000			25-00238	
3	W21401	5-Bottom	~~10,000~~ 5/30/25 MVC			25-00239	1:4 2500µL 5/30/25 MVC
4	W21402	6-Top	10,000			25-00240	
5	W21403	7-R-1	10,000			25-00241	
6	W21404	8-Bottom	~~10,000~~ 5/30/25 MVC			25-00242	1:10 1000µL 5/30/25 MVC
7	W21405	9-Top	10,000			25-00243	
8	W21406	10-R-1	~~10,000~~ 5/30/25 MVC			25-00244	1:2 5000µL 5/30/25 MVC
9	W21407	11-Top	10,000			25-00245	
10	W21408	12-Bottom	~~10,000~~ 5/30/25 MVC			25-00246	1:5 2000µL 5/30/25 MVC
11	W21409	13-Bottom	~~10,000~~ 5/30/25 MVC			25-00247	1:4 2500µL 5/30/25 MVC
12	W21410	14-Top	10,000			25-00248	
13	W21411	15-B1	~~10,000~~ 5/30/25 MVC			25-00249	1:2 5000µL 5/30/25 MVC
14	W21412	16-Top	10,000			25-00250	
15	W21413	17-Bottom1	~~10,000~~ 5/30/25 MVC			25-00251	1:4 2500µL 5/30/25 MVC
16	W21414	18-Bottom2	~~10,000~~ 5/30/25 MVC			25-00252	1:4 2500µL 5/30/25 MVC
17	W21415	19-Bottom3	~~10,000~~ 5/30/25 MVC			25-00253	1:5 2000µL 5/30/25 MVC

Process	Date	Initials
Received 5/8/25 5/13/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

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M2661 cont.

Miscellaneous Laboratory Sample Logbook

MATRIX: WATER ☐ SEDIMENT ☐ TISSUE: _____ OTHER: _____

PROJECT: sucralose PI:

ANALYSIS: PAH ☐ ALIPHATICS ☐ OCPEST ☐ PCB ☐ N-PEST ☐ OP ☐ PHARMA ☐

PHENOXY ☐ FLUORESCENCE ☐ DOSS ☐ ANTIBIOTICS ☐ Other: _____

FINAL SOLVENT: LC water FINAL VOLUME: 11 mL Amber ☐ Clear ☐

FIU EARL Environmental Analysis Research Laboratory

Surrogates	Vol. (uL)	Fortification	Vol. (uL)	Internal Standard	Vol. (uL)
		suc Cal 250429MVC	100	suc D6 250505MVC	100

COMMENTS: M250SC M250SD M250SG M250SH

	Sample ID	Client Descriptor	Vol. (uL) Wet Wt. (g)	Dry Wt (%)	Dry Wt (g)	FIU ID	Comments
1	W21416	20-R1	~~10,000~~ 5/30/25 MVC			25-00254	1:2 5000µL 5/30/25 MVC
2	W21417	21-B1	~~10,000~~ 5/30/25 MVC			25-00255	1:4 2500µL 5/30/25 MVC
3	W21418	Love Key Nearshore	10,000			25-00277	
4	W21419	Love Key Hawk Channel	10,000			25-00278	
5	W21420	Love Key Reef	10,000			25-00279	
6	W21421	Love Key Offshore	10,000			25-00280	
7	W21422	Key West 1	10,000			25-00281	
8	W21423	Key West 2	10,000			25-00282	
9	W21424	Key West 3	10,000			25-00283	
10	W21425	Key West 4	10,000			25-00284	
11	W21426	1-B	~~10,000~~ 5/30/25 MVC			25-00285	1:10 1000µL 5/30/25 MVC
12	W21427	2-B	~~10,000~~ 5/30/25 MVC			25-00286	1:2 5000µL 5/30/25 MVC
13	W21428	3-Bottom	~~10,000~~ 5/30/25 MVC			25-00287	1:5 2000µL 5/30/25 MVC
14	W21429	4-T	10,000			25-00288	
15	W21430	5-B1	~~10,000~~ 5/30/25 MVC			25-00289	1:2 5000µL 5/30/25 MVC
16	W21431	6-R1	10,000			25-00290	
17							

Process	Date	Initials
Received 5/8/25 5/8/25	5/21/25 5/22/25	MVC
Sample Prep.	5/28/25	MVC
Spike Witness		
Extraction		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
_____Cleanup		
Concentration		
GC/_____ Prep		
GC/_____ Prep		
LC/HRMS Prep	5/28/25	MVC
Quant/Audit		
Final Report		
Final Report		

Lab Manager	QC Auditor	Sample Storage Information	Miscellaneous Information
Initials: Date:	Initials: Date:		

M 2663

M2668 cont.