November 16, 2022

Beth Della Valle, AICP
Director of Planning and Development
City of Sanford
919 Main Street
Sanford, Maine 04073

RE: 2022 Annual Monitoring Report
Sand Pond, Sanford, Maine
St.Germain File No.: 4447-0001

Dear Beth Della Valle:

On behalf of Huttopia North America, St.Germain is submitting this 2022 Annual Monitoring Report for Sand Pond located in Sanford, Maine. The monitoring was performed in accordance with the Sand Pond Monitoring Plan which was approved by the City of Sanford Planning Board in April of 2019. The report provides water quality data and observations collected during the 2022 monitoring event. In addition, this report presents the data on the Maine Department of Environmental Protection (DEP) and Lake Stewards of Maine (LSM) forms. Therefore, if the City of Sanford desires, the information can be transferred to the DEP lake monitoring database.

The monitoring program obtains water quality data from three (3) locations in Sand Pond, as shown on **Figure 1 – Monitoring Locations Map**. The monitoring locations are located along a traverse line perpendicular to the Huttopia Southern Maine Campground, with the center point matching a pre-existing DEP pond sampling point (Station 01). At each monitoring point, samples were collected at multiple depths. In accordance with the approved monitoring plan, one sampling event was performed on August 29, 2022.

Table 1 – Sand Pond Monitoring Program Summary provides the location and the depth of each sampling point, and the water quality monitoring parameters for each location.

Table 1
Sand Pond Monitoring Program Summary - Sanford, Maine
August 29, 2022

Sample Point	Lat/Long (Decimal Degrees)	Sample Depths (ft)	Water Quality Parameters
Station 01 (~500 ft from the western shore)	43.39442° -70.74998°	0.5, 5, 10	Field Measured - Secchi disk, temperature, pH, conductivity, dissolved oxygen Laboratory - total phosphorous,

Table 1 Sand Pond Monitoring Program Summary - Sanford, Maine August 29, 2022			
Sample Point	**Lat/Long (Decimal Degrees)**	**Sample Depths (ft)**	**Water Quality Parameters**
			alkalinity, true color
Station 02 (~250 ft from the western shore)	43.394135° -70.751250°	0.5, 5, 10	Field Measured - Secchi disk, temperature, pH, conductivity, dissolved oxygen
Station 03 (~650 ft from the western shore)	43.393935° -70.749400°	0.5, 5, 10	Field Measured - Secchi disk, temperature, pH, conductivity, dissolved oxygen

In addition to performing the water quality monitoring, St.Germain also documented observations of aquatic plants along the monitoring location traverse line. Documentation of observations is included in the field forms and/or photographs (Attachment B and C, respectively).

Table 2 - Sand Pond Monitoring Results provide a summary of the water quality data collected during this reporting period.

Table 2 Sand Pond Monitoring Results - Sanford, Maine August 29, 2022									
Monitoring Point	**Secchi Disk Reading**	**Sampling Depth**	**Temperature**	**pH**	**Specific Conductivity**	**Dissolved Oxygen**	**Alkalinity**	**True Color**	**Total Phosphorus**
	ft	**ft**	**°C**	**SU**	**µS/cm**	**mg/L**	**mg/L**	**PTCO**	**mg/L**
Station 01	13.78	0.5	25.6	6.77	32	6.68	6.0	5.0 U	0.008
		5	24.9	6.80	32	6.17	8.0	5.0 U	0.009
43.39442° -70.74998°		10	24.6	7.10	32	5.95	6.0	5.0 U	0.013
Station 02	12.83	0.5	25.3	6.51	51	7.88	NA	NA	NA
		5	24.8	6.88	33	6.15	NA	NA	NA
43.394135 - 70.751250°		10	24.8	6.72	32	9.75	NA	NA	NA

Table 2
Sand Pond Monitoring Results - Sanford, Maine
August 29, 2022

Monitoring Point	Secchi Disk Reading	Sampling Depth	Temperature	pH	Specific Conductivity	Dissolved Oxygen	Alkalinity	True Color	Total Phosphorus
	ft	ft	°C	SU	µS/cm	mg/L	mg/L	PTCO	mg/L
Station 03	12.25	0.5	25.2	6.67	32	6.31	NA	NA	NA
		5	24.9	6.82	32	6.20	NA	NA	NA
43.393935									
-70.749400		10	24.8	6.94	32	5.63	NA	NA	NA

Notes:
NA - Not Analyzed
U - Not Detected, J Estimated by Lab below the PQL.

The laboratory report is included in **Attachment A – Laboratory Report.** Field forms containing field measured parameters and general observations are included in **Attachment B – Field Sampling Form**. Photographs taken during the monitoring event are contained in **Attachment C – Photographs.** The completed DEP/LSM forms are provided in **Attachment D – DEP/LSM Forms**.

St.Germain appreciates this opportunity to provide this 2022 Sand Pond monitoring data to you. If you have any questions or comments, please feel free to contact us at 207-591-7000 or johnm@stgermain.com.

Sincerely,
ST.GERMAIN

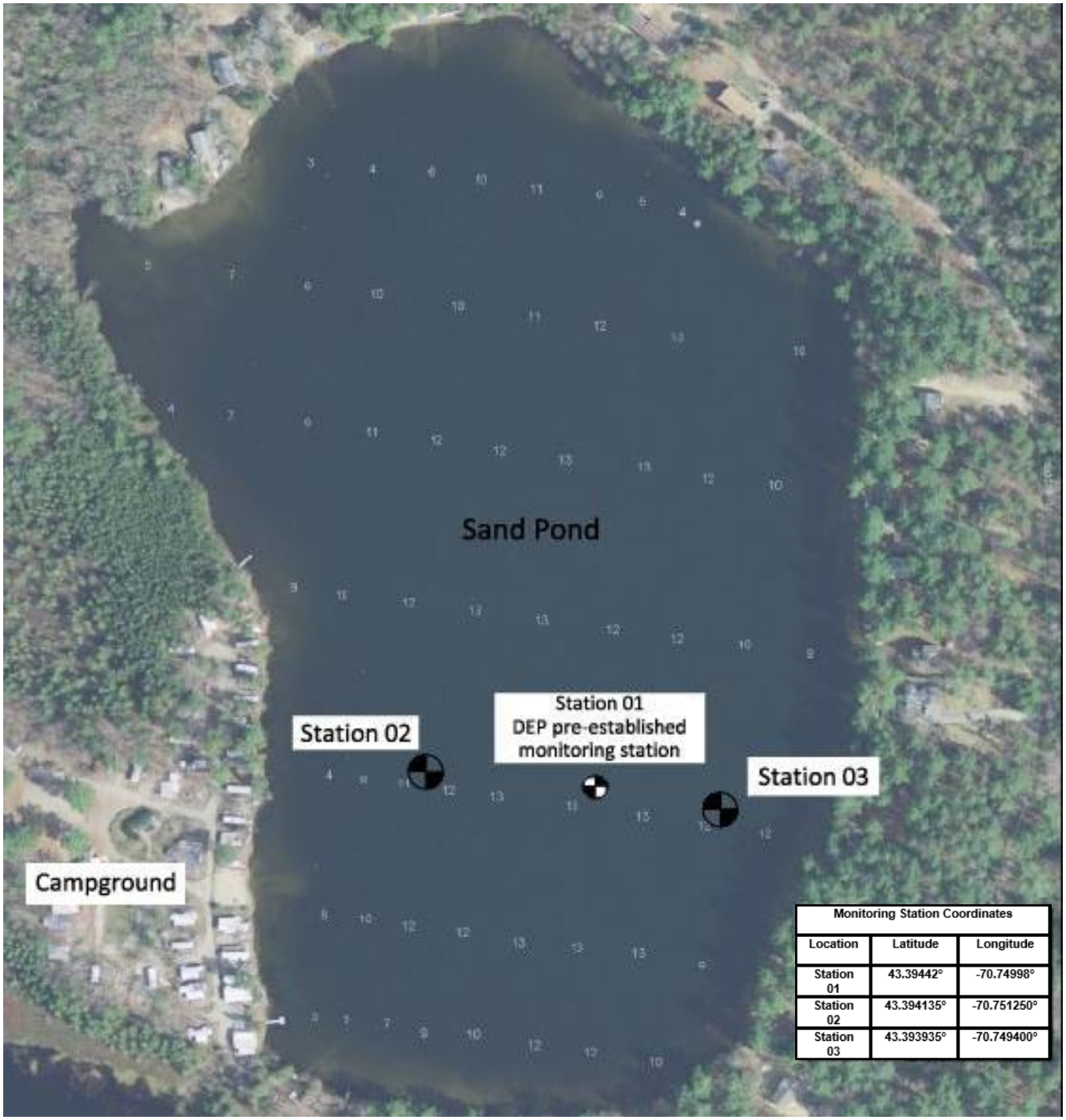
John S. Marchewka, L.G.
Senior Environmental Geologist
Maine Licensed Geologist No. 319

Figure 1 - Monitoring Locations Map

Attachment A – Laboratory Report
Attachment B – Field Sampling Form
Attachment C – Photographs
Attachment D – DEP/LSM Forms

FIGURE 1

Monitoring Locations Map



Monitoring Station Coordinates		
Location	Latitude	Longitude
Station 01	43.39442°	-70.74998°
Station 02	43.394135°	-70.751250°
Station 03	43.393935°	-70.749400°

SOURCE: LAKE STEWARDS OF MAINE

LEGEND

POND SAMPLE STATION

10 DEPTH (FT)

NORTH

MONITORING LOCATIONS MAP

SAND POND
SANFORD, MAINE

CLIENT:
HUTTOPIA NORTH AMERICA
149 SAND POND ROAD
SANFORD, MAINE

St.Germain

846 MAIN ST., WESTBROOK, ME 04092 WWW.STGERMAIN.COM

FIGURE 1

DATE: 11/16/2022	SCALE: 1" = 200'	PROJECT NO.: 4447-0001	FILE: FIGURE 1

ATTACHMENT A

Laboratory Report

September 13, 2022

Mr. Paul Prescott
St. Germain
846 Main Street #3
Westbrook,ME 04092

RE: Katahdin Lab Number: SP4789
Project ID: Sand pond Huttopia
Project Manager: Mr. Darrian Lewry
Sample Receipt Date(s): August 29, 2022

Dear Mr. Prescott:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Laboratory results from subcontracted analysis (es)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Leslie Dimond

Leslie Dimond - Quality Assurance Officer

09/13/2022

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL "U" LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level (PQL) or LOQ could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 - pH H2 - DO H3 - sulfite H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L. The reported value should be considered a minimum value.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SP4789-1
Client ID: STA-01(0-0.5')
SDG: SP4789
Report Date: 12-SEP-22

Matrix	Date Sampled	Date Received
AQ	29-AUG-22 11:14	29-AUG-22

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	6.0 mg/L	5.0	0.23	4.0	STDM 2320B	WG323873	29-AUG-22 16:52	N/A	N/A	
True Color	U5.0 PTCO	5.0	5.0	5.0	SM2120B	WG323971	29-AUG-22 17:59	N/A	N/A	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SP4789-2
Client ID: STA-01(5.0')
SDG: SP4789
Report Date: 12-SEP-22

Matrix	Date Sampled	Date Received
AQ	29-AUG-22 11:27	29-AUG-22

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	8.0 mg/L	5.0	0.23	4.0	STDM 2320B	WG323873	29-AUG-22 16:54	N/A	N/A	
True Color	U5.0 PTCO	5.0	5.0	5.0	SM2120B	WG323971	29-AUG-22 17:59	N/A	N/A	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Report of Analytical Results

Lab Sample ID: SP4789-3
Client ID: STA-01(10.0')
SDG: SP4789
Report Date: 12-SEP-22

Matrix	Date Sampled	Date Received
AQ	29-AUG-22 11:37	29-AUG-22

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	6.0 mg/L	5.0	0.23	4.0	STDM 2320B	WG323873	29-AUG-22 16:56	N/A	N/A	
True Color	U5.0 PTCO	5.0	5.0	5.0	SM2120B	WG323971	29-AUG-22 17:59	N/A	N/A	

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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Quality Control Report

Blank Sample Summary Report

Alkalinity

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG323873	STDM 2320B	29-AUG-22	N/A	J2.3	mg/L	5.0	0.23	4.0

True Color

QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	Units	LOQ	MDL	LOD
WG323971	SM2120B	29-AUG-22	N/A	U5.0	PTCO	5.0	5.0	5.0

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

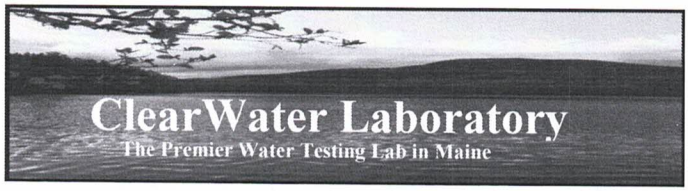
Laboratory Control Sample Summary Report

Alkalinity

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG323873-2	LCS	WG323873	29-AUG-22	N/A	mg/L	120	120	103	85-115	
WG323873-3	LCSD	WG323873	29-AUG-22	N/A	mg/L	120	120	102	85-115	0

True Color

Laboratory Sample ID	Sample Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amount	Result	Recovery (%)	Acceptance Range	RPD
WG323971-2	LCS	WG323971	29-AUG-22	N/A	PTCO	50	50.	100	80-120	



9/6/2022

Mr. Darrian Lewry
Katahdin Analytical Services
P.O. Box 540
Scarborough, ME 04074

Dear Darrian

Please find enclosed the results of your sample analysis. Below you will find any comments related to your sample results. We appreciate the opportunity to provide you with our analytical services. Please do not hesitate to contact our office if you have any questions or comments regarding these results.

Sincerely,
ClearWater Laboratory

Marc H. Hein
Laboratory Director
Enclosure

153 Main Street • Newport, ME 04953 • Phone: 207.368.5700 • Fax: 207.368.5120 • E-mail: MHein@ClearWaterLab.com

ClearWater Laboratory
The Premier Water Testing Lab in Maine

Client: Katahdin Analytical Services
Mr. Darrian Lewry
P.O. Box 540
Scarborough, ME 04074

Report Date: 09/06/2022

REPORT OF LABORATORY ANALYSIS

Sample Description		Result	Units	Reporting Limit	Method	Date / Time Sampled	Date / Time Analyzed
Total Phosphorus		**0.008**	mg/L	0.001	SM4500 P B5 E	08/29/22	09/05/22
2022-08-541.1	STA-01 (0-0.5') - Grab					1114	1531
						Lab: CWL	Analyst: aw
Total Phosphorus		**0.009**	mg/L	0.001	SM4500 P B5 E	08/29/22	09/05/22
2022-08-541.2	STA-01 (5.0') - Grab					1127	1531
						Lab: CWL	Analyst: aw
Total Phosphorus		**0.013**	mg/L	0.001	SM4500 P B5 E	08/29/22	09/05/22
2022-08-541.3	STA-01 (10.0') - Grab					1137	1531
						Lab: CWL	Analyst: aw

The results in this report pertain to the submitted sample(s) only. This report shall not be reproduced, except in full, without written permission from ClearWater Laboratory.

Clearwater

Katahdin
ANALYTICAL SERVICES

Sub-contract Laboratory Chain of Custody

Client:	Contact:	Email:		Phone #:
Katahdin Analytical Services	Mr. Darrian Lewry	dlewry@katahdinlab.com		(207) 874-2400
Address:	**City:**	**State:**	**Zip:**	**Project Name:**
600 Technology Way	Scarborough	Maine	04074	
KAS WO #:	**Quote #:**	**Purchase Order #:**		**TAT:**
SP4789				**Verbal TAT:**
RPT Level:	**Reporting Format:**	**EDD:**		

Sample ID:	Collect Date/Time:	Matrix:	No. of Containers	Pres.	MS/MSD Dup.	Analysis: ★ TPO4 Filtered? Y / N	Analysis: Filtered? Y / N	Analysis: Filtered? Y / N
STA-01(0-0.5') .01	29-AUG-22 11:14	AQ	1	H_2SO_4	no	X		
STA-01(5.0') .02	29-AUG-22 11:27	AQ	1	↓	no	X		
STA-01(10.0') .03	29-AUG-22 11:37	AQ	1	↓	no	X		JCB

Relinquished By:	Date/Time:	Received By:
	8/31/22 1155	BJ Gerry 08/31/2022 1155

Comments:

★ 1 ppb detection limit

4.3° C

2022-08-541

Katahdin Analytical Services, LLC. **Sample Receipt Condition Report**

Client: St. Germain	KAS PM: DL	Sampled By: Client
Project:	KIMS Entry By: MLV	Delivered By: Client
KAS Work Order#: SP 4789	KIMS Review By:	Received By: EP
	Labeled By: EP	
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8-29-22 1358

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		/			
2. Chain of Custody present in cooler?	/				
3. Chain of Custody signed by client?	/				
4. Chain of Custody matches samples?	/				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	/				Temp (°C): 5.2 — Thermometer ID: IR-1
Samples received at <6 °C w/o freezing?	/				Note: Not required for metals (except Hg soil) analysis.
Ice packs or ice present?	/				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	/				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				/	Note: No cooling process required for metals (except Hg soil) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?				/	
Soil/Sediment: Received in airtight container?				/	
Received in methanol?				/	
Methanol covering soil?				/	
D.I. Water - Received within 48 hour HT?				/	
7. Trip Blank present in cooler?				/	
8. Proper sample containers and volume?	/				
9. Samples within hold time upon receipt?	/				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2			/		
Sulfide - >9			/		
Cyanide – pH >12			/		
11. Bottleware Prepped on:					

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: St. Germain	Contact: Paul Prescott	Phone #: (207)857-7603	Fax #: ( )
Address: 846 Main Street	City: Westbrook	State: ME	Zip Code: 04092
Purchase Order #: 4447-0001	Proj. Name / No.: Sand Pond Huttopia	Katahdin Quote #	
Bill (if different than above): —	Address: —		
Sampler (Print / Sign): Camden McFadden	Copies To: paulp@stgermain.com joham@stgermain.com		

LAB USE ONLY

WORK ORDER #: SP 4789

KATAHDIN PROJECT NUMBER ____

REMARKS: ____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: ____

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

★	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☒N True color	≤6°C	Filt. ☐Y☒N Alkalinity	≤6°C	Filt. ☐Y☒N Total Phosphorous H_2SO_4	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	STA-01(0-0.5')	8/29/22/11:14	AQ	2	X		X		X							
	STA-01(5.0')	8/29/22/11:27	AQ	2	X		X		X							
	STA-01(10.0')	8/29/22/11:37	AQ	2	X		X		X							

COMMENTS • Alkalinity DL of 2 mg/L • Total Phosphorous DL of 1ppb
• True Color (not apparent). Total phosphorous in 3 different sized bottles

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Camden McFadden	8/29/22 13:55				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody (ln01)

Aug. 29, 2022
06:44 PM

Login Number: SP4789

Account: STGERM001
St. Germain Collins

Project:

Primary Report Address:
Paul Prescott
St. Germain
846 Main Street #3

Westbrook, ME 04092

paulp@stgermain.com

Primary Invoice Address:
Accounts Payable
St. Germain Collins
846 Main Street #3

Westbrook,ME 04098

ap@stgermaincollins.com

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: STGERM001

Login Information

ANALYSIS INSTRUCTIONS	:	Need alkalinity detection limit of 2 mg/L
CHECK NO.	:	
CLIENT PO#	:	4447-0001
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	5.2
DELIVERY SERVICES	:	Client
EDD FORMAT	:	
ISM INSTRUCTIONS	:	
LOGIN INITIALS	:	MLV
PM	:	DL
PROJECT NAME	:	Sand pond Huttopia
QC LEVEL	:	II
REPORT INSTRUCTIONS	:	email pdf and invoice to paulp@stgermain.com and johnm@stgermain.com, no HC
SDG ID	:	
SDG STATUS	:	
VERBAL TAT	:	

Run Reports: Logindetail

Login Number: SP4789

Account: STGERM001
St. Germain Collins

Project:

Quote/Incoming: STGERM001

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SP4789-1	STA-01(0-0.5')	29-AUG-22 11:14	29-AUG-22		08-SEP-22		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Aqueous	S	MISC-SUB			125mL Plastic+H2SO4
Aqueous	S	SM2120-TRUECOLOR	31-AUG-22 SHORT		125mL Plastic
Aqueous	S	SM2320B-ALKALINITY	12-SEP-22		
Service	S	WASTE-DISPOSAL			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SP4789-2	STA-01(5.0')	29-AUG-22 11:27	29-AUG-22		08-SEP-22		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Aqueous	S	MISC-SUB			125mL Plastic+H2SO4
Aqueous	S	SM2120-TRUECOLOR	31-AUG-22 SHORT		125mL Plastic
Aqueous	S	SM2320B-ALKALINITY	12-SEP-22		
Service	S	WASTE-DISPOSAL			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Verbal Due Date	Mailed
SP4789-3	STA-01(10.0')	29-AUG-22 11:37	29-AUG-22		08-SEP-22		

Sample Comments:

Matrix		Product	Hold Date (shortest)	Notes	Bottle Type
Aqueous	S	MISC-SUB			125mL Plastic+H2SO4
Aqueous	S	SM2120-TRUECOLOR	31-AUG-22 SHORT		125mL Plastic
Aqueous	S	SM2320B-ALKALINITY	12-SEP-22		
Service	S	WASTE-DISPOSAL			

Total Samples: 3 ***Total Analyses: 12***

Run Reports: Logindetail

ATTACHMENT B

Field Sampling Form

St.Germain

Date: 8/29/22

Weather: 75° Sunny

Wind Speed: N/A

Wind Direction: N/A

PROJECT: Huttopia Sand Pond Sanford, ME

Pond Sampling Measurement Data Record

Monitoring Point	Secchi Reading (ft)	Sample Depth (ft)	Temperature (°C)	pH (S.U.)	Specific Conductivity (ms/cm)	Dissolved Oxygen (mg/L)
01	13.78'	0.5	25.6 °C	6.77	0.032	6.68
		5.0	24.9 °C	6.80	0.032	6.17
		10.0	24.6 °C	7.10	0.032	5.95
02	12.83'	0.5	25.3 °C	6.51	0.051	7.88
		5.0	24.8 °C	6.88	0.033	6.15
		10.0	24.8 °C	6.72	0.032	9.75
03	12.25'	0.5	25.2 °C	6.67	0.033	6.31
		5.0	24.9 °C	6.82	0.032	6.20
		10.0	24.8 °C	6.94	0.032	5.63

General Observations: Calm on water, no signs of eutrophication/growth in Monitoring areas. Sample time 11:14 (Depth 0.5ft). Sample time 11:27 (Depth 5.0'). Sample time 11:37 (Depth 10.0'). Left site at 13:00.

Photos Taken? (Yes) No

Field Sampler(s): McFadden/Harvey

St.Germain
www.stgermain.com
207.591.7000

Name	Date	Project
Nate Harvey Camden McFadden	8/29/22	4447-0001

Hydrolab Sampling Event 8/29/22

7:30 Calibrate Horiba U-52 SN: Soln
pH: 3.88, sp. conductivity: 4.54, Turbity: 0.0 NTU, DO: 9.11 mg/L

9:30 Arrive on site with Camden McFadden to collect surface water samples for inspection and lab samples at depths of 0.5, 5, and 10 ft (1 sample point only).

→ Checked in w/ Fabrice. Received site map and keys for canoe.

→ weather is 75° and sunny, no breeze.

9:45 → Prep tubing for various ft of sample collection

11:11 → Prep sample for 0.5', small bottle H_2SO_4
Sample time 11:14.

11:24 → Prep sample for 5.0', Sample time 11:27

11:35 → Prep sample for 10.0', Sample time 11:37.

Paddled to SE corner → SW corner of pond to take pictures of surface vegetation growth. No surface level vegetation at monitoring spots (see photos).

12:15 → empty canoe and load up truck, bought ice at reception, filled out C.O.C and prepped samples for Katahdin.

13:00 → Depart from site.

St.Germain

846 Main Street, Westbrook ME 04092 | 207-591-7000

St.Germain Tailboard Form

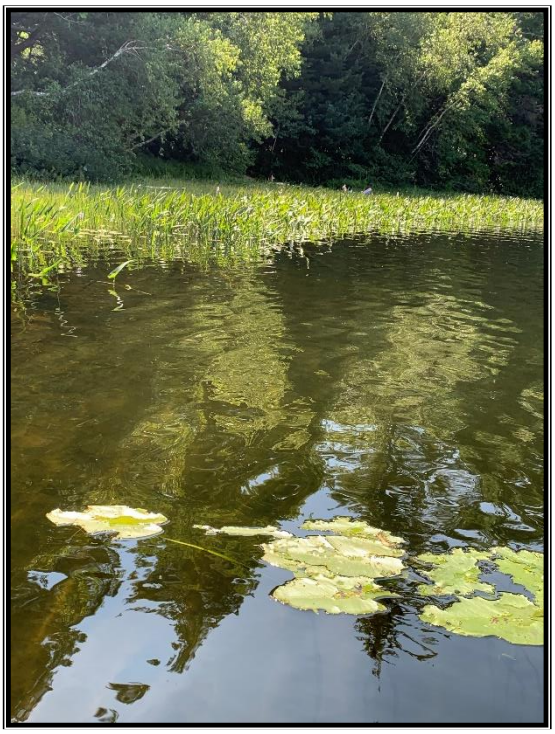
Location: Sand Pond Huttopia		Job #: 4447-0001	
Project Manager: Paul Prescott		Site Contact:	
Task being Performed: Surface/Pond Water Sampling			
Containment(s) of Concern: sunburns, bugs, falling in water			
Worker Present	Initials	Worker Present	Initials
Nate Harvey	NH		
Caelan McFadden	CM		

Job Steps	Hazards	Hazard Mitigation
Paddle Canoe	Falling in/tipping	Life vests

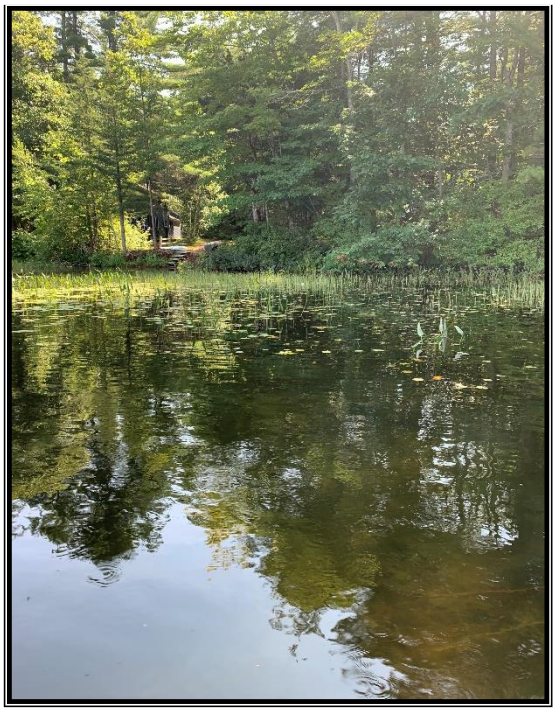
Emergency Plan and Muster Point: Huttopia beach dock		
Nearest Cross Street for Emergency Response: Sand Pond Rd, Sanford ME		
Emergency Numbers: 911		
Hospital: York Hospital (Sanford)	Address: 1474 Main St.	Phone Number: 207-608-8425
Additional details:		
Signature:		Date/Time: 8/24/22 8:00 AM

ATTACHMENT C

Photographs



Photograph #1: Vegetation observed northside of Huttopia Beach area.



Photograph #2: Vegetation observed, Huttopia Beach area.

Photograph #3: View towards Huttopia Beach area.

Photograph #4: View toward the eastern shore of Sand Pond.

ATTACHMENT D

DEP/LSM Forms

WIND DIR. CODES

N = 1 S = 5
NE = 2 SW = 6
E = 3 W = 7
SE = 4 NW = 8
no wind, enter 0

LAKE Sand Pond TOWN Sanford

STATION DESCRIPTION 01 COUNTY York

STATION: LAT 43.39442° LONG -70.74998° DATUM DEC. DEG. ACCURACY _____ ON TARGET? [X] / N

LAKE	MIDAS	STATION	CERTIFIED MONITORS 1 & 2 (Last name, First name)	PROJECT
9999	3862	01	MCFADDEN, CAMDEN HARVEY, NATE	EI03

MONTH	DAY	YEAR	MILITARY TIME	WIND VELOCITY	WIND DIRECTION	Sky Condition at Time of Secchi Readings – CIRCLE ONE	Gloeo Category (0 to 6; Refer to Visual Aid)
08	29	2022	1130	04	4	B C O (Bright (shadows) Cloudy Bright Overcast)	1

DIRECTIONS: Use this form when obtaining Temp./D.O. profiles. Please fill out completely. Please indicate missing data by filling spaces with 9s.

PLEASE HELP US AVOID DUPLICATE DATA IN THE DATASET BY ENTERING SECCHI DATA ON ONLY ONE FORM.

SCOPE TYPE CODES:

1 = None
2 = Flat glass, no mask
3 = Slant glass, no mask
4 = Slant glass & mask
5 = Flat glass & mask
6 = 6" diameter, slant glass & mask

SECCHI (meters)	SCOPE TYPE	DISK HIT BOT? Y/N	MONITOR'S QA CERTIFICATION #	READING # (1, 2 etc)
4.20	1	N	99-9999	
			-	

On two dates each year, please take two readings and record as Reading #1 & 2.

TEMPERATURE / DISSOLVED OXYGEN PROFILES

CIRCLE DEPTH UNITS: METERS / FEET **CIRCLE TEMP. UNITS:** CENT. / FAREN.

PLEASE CIRCLE D.O. METHOD: *Titration:* Hach Kit, Lamotte Kit, Other Kit: _____ *Meter (enter model):* YSI Meter _____, Hach Meter _____, Other Meter Horiba U-52 METER ID#: _____ [X] **Check to indicate D.O. meter was calibrated**

DEPTH	WATER TEMP	OXYGEN (mg/l)	DEPTH	WATER TEMP	OXYGEN (mg/l)	DEPTH	WATER TEMP	OXYGEN (mg/l)
0.5	25.6	6.6	11.					
1.			12.					
2.			13.					
3.			14.					
4.			15.					
5.0	24.9	6.1						
6.								
7.								
8.								
9.								
10.0	24.6	~~5.95~~ 5.95						

Required QA/QC Dupes (1 for every 10)

BOTTOM: _____ CORE DEPTH: _____ CHL. #: _____ TP #: _____ AIR TEMP: _____ C / F

COMMENTS:

SIGNATURE:

DATA PROCESSING STAFF ONLY Please Date & Initial

Checked	-	-	
Entered	-	-	
Proofed	-	-	

LAKE Sand Pond DATE 8-29-2022

MIDAS 3862 STATION 01

M = Meters
F = Feet

C = Core
G = Grab

METHODS: pH: C = Colorimetric, E = Electronic, A = Air Equilibrated, S = Sonde
Color: A/T = Apparent (unfiltered) / True (filtered)
N = Nessler, H = Hach wheel, F = Field Kit, S = Spectrophotometer
Conductivity: F = Field meter, L = Lab meter, S = Sonde
Alkalinity: M = Methyl Orange, G = GRAN Plot, L = Lamotte,
B = Methyl red/bromcresol green, O = other _____

REP: Assign a unique number for each replicate taken. e.g. 1, 2, 3, 4…

LAB CODES: H =HETL, P = PWD, C = Colby,
N= Northeast Labs, S = Sawyer/Orono, D=DEP,
U=UNH, O = Other Katahdin

DEPTH	M/F	C/G	pH	M	L	COLOR	A/T	M	L	CONDUCTIVITY	M	L	ALKALINITY	M	L
0.5	F	G	6.77			<5.0	T		0	0.032	F		6.0		0
5.0	F	G	6.80			<5.0	T		0	0.032	F		8.0		0
10.0	F	G	7.10			<5.0	T		0	0.032	F		6.0		0

TP LABEL	TP (ppb)	Lab Code	Rep #	CHL a (ppb)	Lab Code	Rep #
Tot. P	8	0				
Tot. P	9	0				
Tot. P	13	0				

ZOOPLANKTON: # of Tows _____ Depth of Tows _____ Net I.D. _____ Notes: _____

PHYTOPLANKTON: # of Cores _____ Depth of Cores _____ Notes: _____

SURFACE SEDIMENTS: # of Cores _____ Sed. Color _____ Sed. Odor _____ Worm Tubes? Y / N Notes: _____

LITTORAL EVALUATIONS COMPLETED: # Sites: ____ pHab: ____ Shoreline: ____ Macrophytes: ____ Macroinvertebrates: ____

PHOTOGRAPHS: Camera ID _____ # Taken _____ Descriptions: _____

NOTES:

Uncorrected Conductivity: _____ Temp: _____ ° C Cond. Cell Constant: _____

Who determined pH, Color, Cond. & Alk? _____