Chandler Brook Consulting, LLC

March 7, 2023

Town of Lyman
11 So. Waterboro Road
Lyman ME. 04002
ATTN: Brenda Charland – Code Enforcement Officer

Dear Ms Charland:

On behalf of Hissong Ready-Mix & Aggregates, LLC (Hissong), Chandler Brook Consulting, LLC (CBC) is pleased to provide the Town of Lyman (Town) with the following information relating to Hissong's Stonefield Quarry (Quarry) located on Old Kennebunk Road in Lyman, Maine:

- Maine Department of Environmental Protection (MEDEP) Excavation Below Groundwater Variance Board Order approval (L-22439-80-C-N) dated August 8,2022;
- MEDEP acceptance letter, dated February 13, 2023, of Hissong's November 2022 Notice Of Intent To Comply (NOITC) with Performance Standards for Excavations for Quarries to expand the Quarry by approximately 8 acres;
- A summary of monitoring well groundwater level data for the Quarry , including water level data for operating year 2022.

The Quarry continues to operate within the limits of the Town's Conditional Use Permit (GPP 14-03) dated July 2, 2014 and is approximately 11 acres in size, excluding associated processing and stock pile areas, based upon the latest Google Earth imagery. Based upon the MEDEP's recent review of the Quarry's variance application to excavate below the groundwater table there are no anticipated unreasonable impacts to groundwater quantity, groundwater

6 SERENDIPITY LANE NORTH YARMOUTH, ME 04097
T (207) 400-7582 E SPATCHPE@GMAIL.COM

quality, adjacent public or private water supply wells, or protected natural resources provided that Hissong continues to monitor groundwater levels and quality , according to it's MEDEP permit, and maintains the current quarry floor elevation of 240 feet (NAVD 88).

In accordance with the Town's current Zoning Ordinance for mineral extraction operations, Hissong would like to schedule an inspection of the Quarry with the Code Enforcement office at your earliest convenience.

If you have any questions regarding the attached information, or information previously submitted to the Town as part of the MEDEP Variance Application or NOITC to expand, please feel free to contact Chris Pizey of Hissong (207-985-9345) or myself directly.

Sincerely,

Steven Patch P.E.

Chandler Brook Consulting, LLC.

6 Serendipity Lane

North Yarmouth, ME. 04907

Phone: 207-400-7582

Email: spatchpe@gmail.com

ATTACHMENTS

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

HISSONG READY-MIX & AGGREGATES, LLC	) PERFORMANCE STANDARDS FOR QUARRIES
LYMAN, YORK COUNTY	)
EXCAVATION BELOW GROUNDWATER	) VARIANCE
L-22439-80-C-N (approval)	) FINDINGS OF FACT AND ORDER

Pursuant to the provisions of 38 M.R.S. Section 490-Z and490-CC, and Chapter 378 of Department Rules (06-096 C.M.R. ch. 378, effective June 8, 2012), the Department of Environmental Protection considered the application of HISSONG READY-MIX &AGGREGATES, LLC (HISSONG) with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. PROJECT DESCRIPTION:

   A. History of Project: On February 22, 2005, Hissong filed a "Notice of Intent to Comply" (NOITC) to operate a 26-acre quarry. The entrance to the access road is located on Old Kennebunk Road in the Town of Lyman. The Department approved the NOITC on February 23, 2005. On February 7, 2006, the Department approved a variance (L-22439-A-N) to operate an externally drained quarry. On May 14, 2014, the Department approved a 7.3acre expansion of the quarry. On June 19, 2014, the Department approved the alteration of 12,712 square feet of forested wetland (L-22439-TC-BN).

   B. Summary: The applicant proposes to excavate aggregate from below the seasonal high - water table and reclaim portions of the pit as a 26-acre pond.

   C. Current Use of Site: The site is currently used as an approximately 26-acre quarry and aggregate processing facility. The site is surrounded by wetlands to the west, significant wildlife habitat to the north and the Dubois Gravel Pit and Quarry to the east. The applicant is not proposing an activity located in, on or over any Protected Natural Resource or adjacent to significant wildlife habitat contained within a freshwater wetland (i.e., SVPs and endangered and threatened species).

2. GROUNDWATER:

   The quarry will be excavated to an elevation 240 feet and dewatering is required during the spring to operate the quarry. Hissong installed five monitoring wells (MW-1 to MW-5) in September 2004 to determine existing groundwater quality and water levels. The monitoring wells range in depth between 11 to 25 feet below ground surface. In December 2017, Hissong installed three additional bedrock wells (MW-17-01, MW-17-02, and MW-17-03) to depths ranging from 140 to 170 feet. At the request of the Department, Hissong installed two 1-inch piezometers (PZ20-01 and PZ20-02) to monitor wetlands located southwest and northwest of the quarry.

Groundwater monitoring data indicates that groundwater flows in an easterly direction toward an unnamed stream. Groundwater elevations across the site range from 300 feet in the extreme northeastern corner to 240 feet in the southeastern corner. Seasonal fluctuations range from 2 to 14 feet in the shallow monitoring wells and 5 to 26 feet in deeper bedrock wells. There is an elevation difference of approximately forty feet between the upgradient and downgradient wells, which are located approximately 1,800 feet apart. Based on the relatively flat hydraulic gradient and limited dewatering of the quarry, it is unlikely that excavation into groundwater will have a significant effect on the groundwater levels in the area.

The proposed excavation will create a pond that is approximately 26-acres in size after reclamation and is not expected to significantly alter groundwater flow, quantity, or direction.

The Department's Division of Environmental Assessment (DEA) reviewed the application and did not express any concerns about groundwater elevations or water quality. Water levels show a decline of approximately 3 – 6 feet over the monitoring period, not inconsistent with the decline in water levels observed in many USGS bedrock wells over this period, and generally attributed to climatic changes. Laboratory analysis of samples collected during the quarterly sampling did not result any detectable levels of extractable petroleum hydrocarbons (EPH) or volatile petroleum hydrocarbons (VPH). The Department does not anticipate any groundwater quality issues at the site unless a spill occurs. This finding is based on review of groundwater data obtained from other quarry operations conducting excavation below the water table, which has shown limited impact to groundwater quality.

The applicant proposes to measure groundwater levels quarterly at MW-1 through MW-5, MW-17-01 through MW-17-03 and PZ20-01 and PZ20-02, and to measure groundwater quality twice per year at MW-17-01 through MW-17-03 for iron, manganese, EPH, VPH, pH, dissolved oxygen, temperature, turbidity, and specific conductance. An annual groundwater monitoring report will be prepared, to include laboratory results, an evaluation of water level and quality results, and any applicable groundwater monitoring program modification recommendations. The report will be submitted by April 30th of each year using the Department's Electronic Data Deliverable (EDD) format.

Based on its review of the application and the DEA staff review comments, the Department anticipates no unreasonable impacts to groundwater quantity, groundwater quality, adjacent public or private water supply wells, or protected natural resources provided that the applicant monitors groundwater levels and quality according to the recommended schedule and maintains the quarry floor at an elevation of 240 feet.

3. RECLAMATION:

The applicant indicates that a pond will be approximately 26-acres in size with an irregular shaped shoreline with a 4:1 slope to a water depth of 3 feet when completed. The applicant will also create islands to enhance wildlife habitat. Additionally, the final reclamation for the pond must be completed in accordance with Chapter 378, Section 3(C). In addition to the propose reclamation plan, the bottom of the pond must be undulating to provide a variety of water depths.

4. CHAPTER 378, STANDARDS FOR VARIANCES:

   The Department did not identify any other issues involving existing uses, flooding, soil erosion, or harm to habitat. Based on its review of the application, the Department finds the variance request to be in accordance with all relevant Department standards set forth in 06-096 CMR 378.

BASED on the above findings of fact, and subject to the Conditions listed below, the Department makes the following conclusions in relation to the proposed variance pursuant to 38 M.R.S. Section 490-Y, and Chapter 378 of Department Rules:

A. The proposed activity will not violate any state water quality law including those governing the classifications of the State's waters.

B. The proposed activity will not unreasonably interfere with the natural flow of groundwater provided that the applicant complies with all requirements in Finding 2.

C. The proposed activity will not unreasonably interfere with existing uses.

D. The activity will not adversely affect the health, safety and general welfare of the public.

E. The proposed activity will not unreasonably cause or increase the flooding of the alteration adjacent properties or create an unreasonable flood hazard to any structure.

F. The proposed activity will not cause unreasonable erosion of soil or sediment.

G. The proposed activity will not unreasonably harm any significant wildlife habitat, freshwater wetland plant habitat, threatened or endangered plant habitat, aquatic habitat, travel corridor, freshwater, estuarine, or marine fisheries or other aquatic life.

THEREFORE, the Department APPROVES the application of HISSONG READY-MIX & AGGREGATES, LLC to excavate aggregate from below the water table and reclaim portions of the site as an approximately 26-acre pond as described in Finding 1, SUBJECT TO THE FOLLOWING CONDITIONS and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached.

2. In addition to any specific erosion control measures described in this or previous orders, the applicant shall take all necessary actions to ensure that their activities or those of their agents do not result in noticeable erosion of soils or fugitive dust emissions on the site during the construction and operation of the project covered by this approval.

3. Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

4. Hissong shall measure groundwater levels quarterly at MW-1 through MW-5, MW-17-01 through MW-17-03 and PZ20-01 and PZ20-02 with bi-annual groundwater quality sampling from MW-17-01, MW-17-02, and MW-17-03. Groundwater sampling must include laboratory analyses for EPH, VPH, iron, and manganese. Temperature, pH dissolved oxygen, turbidity, and specific conductance must be analyzed in the field at the time of sampling. All

groundwater level data, analytical data, and summary reports shall be submitted to the Department by April 30th of each year in Electronic Data Deliverable (EDD) format.

5. The elevation of the quarry floor shall remain at the current elevation of approximately 240 feet. If the elevation of the quarry floor is proposed to be lowered below 240 feet, Hissong shall submit a groundwater monitoring plan that includes a pump test to the Department for review and approval. Additionally, if the seasonal water levels show signs of significant changes or quarry operations are impacting protected natural resources, the Department may require temporary cessation of dewatering, or modifications to the monitoring plan to ensure that there are no unreasonable adverse impacts to any protected natural resources.
6. During excavation activity, the integrity of the monitoring wells shall be maintained. Any well damaged or removed shall be replaced within 30 days of such damage or removal. The location of the replacement well shall be in the same general vicinity of the damaged well.
7. The final reclamation for the pond must be completed in accordance with Chapter 378, Section 3(C). The bottom of the pond must be undulating to provide a variety of water depths and the shoreline must provide suitable conditions for safety and egress with shallow areas of less than three feet deep with a slope of four horizontal feet for each vertical foot (4H:1V).

THIS APPROVAL DOES NOT CONSTITUTE OR SUBSTITUTE FOR ANY OTHER REQUIRED STATE, FEDERAL OR LOCAL APPROVALS NOR DOES IT VERIFY COMPLIANCE WITH ANY APPLICABLE SHORELAND ZONING ORDINANCES.

DONE AND DATED IN AUGUSTA, MAINE, THIS 8th DAY OF AUGUST 2022.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Mark Stebbins
For: Melanie Loyzim, Commissioner

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

EDK/L22439CN/ATS#88629

FILED
August 8th, 2022
State of Maine
Board of Environmental Protection

Department of Environmental Protection
VARIANCE STANDARD CONDITIONS

A. Approval of Variations from Plans. The granting of this approval is dependent upon and limited to the proposals and plans contained in the variance application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation. Any such variation undertaken without approval of the department is in violation of 38 M.R.S. §483-A and is subject to penalties under 38 M.R.S. §349.

B. Initiation of Development Within Two (2) Years. If the construction or operation of the activity is not begun within two years, this variance approval shall lapse and the applicant may reapply to the Department. The applicant may not begin construction or operation of the development until a new variance approval is granted. Re-applications must state the reasons why the development was not begun within 2 years from the granting, and may include information submitted in the initial variance application by reference.

C. Approval Shown to Contractors and Agents. Work done by a contractor or agent of the applicant may not begin before the contractor or agent has been provided with a copy of this variance approval

D. Compliance with All Terms and Conditions of Approval. The applicant shall submit all reports and information requested by the Department to demonstrate compliance with the terms and conditions of this approval.

Revised June 8, 2012

DEP INFORMATION SHEET

Appealing a Department Licensing Decision

Dated: August 2021 **Contact: (207) 314-1458**

SUMMARY

This document provides information regarding a person's rights and obligations in filing an administrative or judicial appeal of a licensing decision made by the Department of Environmental Protection's (DEP) Commissioner.

Except as provided below, there are two methods available to an aggrieved person seeking to appeal a licensing decision made by the DEP Commissioner: (1) an administrative process before the Board of Environmental Protection (Board); or (2) a judicial process before Maine's Superior Court. An aggrieved person seeking review of a licensing decision over which the Board had original jurisdiction may seek judicial review in Maine's Superior Court.

A judicial appeal of final action by the Commissioner or the Board regarding an application for an expedited wind energy development (35-A M.R.S. § 3451(4)) or a general permit for an offshore wind energy demonstration project (38 M.R.S. § 480-HH(1)) or a general permit for a tidal energy demonstration project (38 M.R.S. § 636-A) must be taken to the Supreme Judicial Court sitting as the Law Court.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

A person filing an appeal with the Board should review Organization and Powers, 38 M.R.S. §§ 341-D(4) and 346; the Maine Administrative Procedure Act, 5 M.R.S. § 11001; and the DEP's *Rule Concerning the Processing of Applications and Other Administrative Matters* (Chapter 2), 06-096 C.M.R. ch. 2.

DEADLINE TO SUBMIT AN APPEAL TO THE BOARD

Not more than 30 days following the filing of a license decision by the Commissioner with the Board, an aggrieved person may appeal to the Board for review of the Commissioner's decision. The filing of an appeal with the Board, in care of the Board Clerk, is complete when the Board receives the submission by the close of business on the due date (5:00 p.m. on the 30th calendar day from which the Commissioner's decision was filed with the Board, as determined by the received time stamp on the document or electronic mail). Appeals filed after 5:00 p.m. on the 30th calendar day from which the Commissioner's decision was filed with the Board will be dismissed as untimely, absent a showing of good cause.

HOW TO SUBMIT AN APPEAL TO THE BOARD

An appeal to the Board may be submitted via postal mail or electronic mail and must contain all signatures and required appeal contents. An electronic filing must contain the scanned original signature of the appellant(s). The appeal documents must be sent to the following address.

Chair, Board of Environmental Protection
c/o Board Clerk
17 State House Station
Augusta, ME 04333-0017
ruth.a.burke@maine.gov

The DEP may also request the submittal of the original signed paper appeal documents when the appeal is filed electronically. The risk of material not being received in a timely manner is on the sender, regardless of the method used.

At the time an appeal is filed with the Board, the appellant must send a copy of the appeal to: (1) the Commissioner of the DEP (Maine Department of Environmental Protection, 17 State House Station, Augusta, Maine 04333-0017); (2) the licensee; and if a hearing was held on the application, (3) any intervenors in that hearing proceeding. **Please contact the DEP at 207-287-7688 with questions or for contact information regarding a specific licensing decision.**

REQUIRED APPEAL CONTENTS

A complete appeal must contain the following information at the time the appeal is submitted.

1. *Aggrieved status*. The appeal must explain how the appellant has standing to bring the appeal. This requires an explanation of how the appellant may suffer a particularized injury as a result of the Commissioner's decision.
2. *The findings, conclusions, or conditions objected to or believed to be in error*. The appeal must identify the specific findings of fact, conclusions of law, license conditions, or other aspects of the written license decision or of the license review process that the appellant objects to or believes to be in error.
3. *The basis of the objections or challenge.* For the objections identified in Item #2, the appeal must state why the appellant believes that the license decision is incorrect and should be modified or reversed. If possible, the appeal should cite specific evidence in the record or specific licensing criteria that the appellant believes were not properly considered or fully addressed.
4. *The remedy sought.* This can range from reversal of the Commissioner's decision on the license to changes in specific license conditions.
5. *All the matters to be contested*. The Board will limit its consideration to those matters specifically raised in the written notice of appeal.
6. *Request for hearing.* If the appellant wishes the Board to hold a public hearing on the appeal, a request for hearing must be filed as part of the notice of appeal, and it must include an offer of proof regarding the testimony and other evidence that would be presented at the hearing. The offer of proof must consist of a statement of the substance of the evidence, its relevance to the issues on appeal, and whether any witnesses would testify. The Board will hear the arguments in favor of and in opposition to a hearing on the appeal and the presentations on the merits of an appeal at a regularly scheduled meeting. If the Board decides to hold a public hearing on an appeal, that hearing will then be scheduled for a later date.
7. *New or additional evidence to be offered.* If an appellant wants to provide evidence not previously provided to DEP staff during the DEP's review of the application, the request and the proposed supplemental evidence must be submitted with the appeal. The Board may allow new or additional evidence to be considered in an appeal only under limited circumstances. The proposed supplemental evidence must be relevant and material, and (a) the person seeking to add information to the record must show due diligence in bringing the evidence to the DEP's attention at the earliest possible time in the licensing process; or (b) the evidence itself must be newly discovered and therefore unable to have been presented earlier in the process. Requirements for supplemental evidence are set forth in Chapter 2 § 24.

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

1. *Be familiar with all relevant material in the DEP record.* A license application file is public information, subject to any applicable statutory exceptions, and is made accessible by the DEP. Upon request, the DEP will make application materials available to review and photocopy during normal working hours. There may be a charge for copies or copying services.

2. *Be familiar with the regulations and laws under which the application was processed, and the procedural rules governing the appeal.* DEP staff will provide this information upon request and answer general questions regarding the appeal process.
3. *The filing of an appeal does not operate as a stay to any decision.* If a license has been granted and it has been appealed, the license normally remains in effect pending the processing of the appeal. Unless a stay of the decision is requested and granted, a licensee may proceed with a project pending the outcome of an appeal, but the licensee runs the risk of the decision being reversed or modified as a result of the appeal.

WHAT TO EXPECT ONCE YOU FILE A TIMELY APPEAL WITH THE BOARD

The Board will acknowledge receipt of an appeal, and it will provide the name of the DEP project manager assigned to the specific appeal. The notice of appeal, any materials admitted by the Board as supplementary evidence, any materials admitted in response to the appeal, relevant excerpts from the DEP's administrative record for the application, and the DEP staff's recommendation, in the form of a proposed Board Order, will be provided to Board members. The appellant, the licensee, and parties of record are notified in advance of the date set for the Board's consideration of an appeal or request for a hearing. The appellant and the licensee will have an opportunity to address the Board at the Board meeting. The Board will decide whether to hold a hearing on appeal when one is requested before deciding the merits of the appeal. The Board's decision on appeal may be to affirm all or part, affirm with conditions, order a hearing to be held as expeditiously as possible, reverse all or part of the decision of the Commissioner, or remand the matter to the Commissioner for further proceedings. The Board will notify the appellant, the licensee, and parties of record of its decision on appeal.

II. JUDICIAL APPEALS

Maine law generally allows aggrieved persons to appeal final Commissioner or Board licensing decisions to Maine's Superior Court (see 38 M.R.S. § 346(1); 06-096 C.M.R. ch. 2; 5 M.R.S. § 11001; and M.R. Civ. P. 80C). A party's appeal must be filed with the Superior Court within 30 days of receipt of notice of the Board's or the Commissioner's decision. For any other person, an appeal must be filed within 40 days of the date the decision was rendered. An appeal to court of a license decision regarding an expedited wind energy development, a general permit for an offshore wind energy demonstration project, or a general permit for a tidal energy demonstration project may only be taken directly to the Maine Supreme Judicial Court. See 38 M.R.S. § 346(4).

Maine's Administrative Procedure Act, DEP statutes governing a particular matter, and the Maine Rules of Civil Procedure must be consulted for the substantive and procedural details applicable to judicial appeals.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal process, for administrative appeals contact the Board Clerk at 207-287-2811 or the Board Executive Analyst at 207-314-1458 bill.hinkel@maine.gov, or for judicial appeals contact the court clerk's office in which the appeal will be filed.

Note: This information sheet, in conjunction with a review of the statutory and regulatory provisions referred to herein, is provided to help a person to understand their rights and obligations in filing an administrative or judicial appeal. The DEP provides this information sheet for general guidance only; it is not intended for use as a legal reference. Maine law governs an appellant's rights.

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
COMMISSIONER

February 13, 2023

Mr. Chris Pizey
Hissong Ready-Mix & Aggregates, LLC
48 York Street, Suite 2
Kennebunk, Maine 04043

RE: 582 - STONEFIELD QUARRY – EXPANSION, 98 OLD KENNEBUNK ROAD, LYMAN, MAINE

Dear Mr. Pizey:

The Department received and reviewed the Expansion Notice you submitted for the aforementioned pit. The significant vernal pool (SVP) issue will need to be resolved prior to the expansion of the quarry near the SVP. The Department determined that the Expansion Notice is complete and accepted on January 5, 2023.

Thank you for your cooperation in this matter. If you have any questions, please feel free to contact me at (207) 899-6879 or email at Erich.Kluck@Maine.gov

Sincerely,

Erich D. Kluck
Mining Specialist
Division of Land Resource Regulation
Maine Department of Environmental Protection

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

website: www.maine.gov/dep

WATER LEVEL SUMMARY

Water Levels

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
MW-1		Current ground surface elevation: 252.12 (feet)		
9/28/2004		11.26	254.76	243.50
10/13/2004		10.06		244.70
2/16/2005		7.16		247.60
7/15/2009		8.35		246.41
10/12/2011		8.56		246.20
8/27/2012		8.76		246.00
4/22/2013		8.26		246.50
5/10/2013		8.84		245.92
5/20/2013		8.91		245.85
6/5/2013		8.27		246.49
6/20/2013		8.38		246.38
9/27/2013		8.96		245.80
12/31/2013		8.35		246.41
3/31/2014		5.20		249.56
4/17/2014		7.24		247.52
5/5/2014		8.24		246.52
5/14/2014		8.39		246.37
5/28/2014		8.53		246.23
6/11/2014		9.15		245.61
6/26/2014		8.73		246.03
9/18/2014		9.73		245.03
12/30/2014		7.38		247.38
4/20/2015		8.63		246.13
4/30/2015		7.79		246.97
5/16/2015		8.71		246.05
5/31/2015		9.42		245.34
6/15/2015		9.33		245.43
6/30/2015		8.49		246.27
9/19/2019		10.00		244.76
12/10/2019		6.48		248.28
3/5/2020		6.74		248.02
4/8/2020		7.17		247.59
4/29/2020		7.71		247.05
5/13/2020		7.97		246.79
5/27/2020		8.67		246.09
6/9/2020		9.41		245.35
6/24/2020		10.13		244.63
8/24/2020		10.73		243.74
10/19/2020		10.22		244.54
12/15/2020		7.48		247.28
3/23/2021		8.24		246.52
4/14/2021		8.03		246.73
4/27/2021		7.88		246.88
5/26/2021		8.66		246.10
6/11/2021		8.86		245.90
6/24/2021		9.63		245.13
10/18/2021		9.79		244.97
3/23/2022		7.56		247.20
8/29/2022		8.75		246.01

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW-1)				
10/25/2022		7.65	254.76	247.11
11/1/2022		7.87		246.89
MW-2			Current ground surface elevation: 270 (feet)	
9/28/2004		8.23	273.23	265.00
10/13/2004		7.83		265.40
2/16/2005		5.13		268.10
7/15/2009		6.60		266.63
10/12/2011		7.77		265.46
8/27/2012		8.29		264.94
4/22/2013		9.01		264.22
5/10/2013		7.87		265.36
5/20/2013		7.61		265.62
6/5/2013		7.07		266.16
6/20/2013		7.38		265.85
9/27/2013		8.51		264.72
12/31/2013		9.18		264.05
3/31/2014		6.57		266.66
4/17/2014		6.16		267.07
5/5/2014		6.92		266.31
5/14/2014		7.36		265.87
5/28/2014		7.39		265.84
6/11/2014		8.22		265.01
6/26/2014		7.27		265.96
9/18/2014		9.23		264.00
12/30/2014		6.22		267.01
4/20/2015		6.52		266.71
4/30/2015		6.71		266.52
5/16/2015		7.60		265.63
5/31/2015		8.13		265.10
6/15/2015		8.21		265.02
6/30/2015		6.90		266.33
9/19/2019		10.26		262.97
12/10/2019		7.40		265.83
3/5/2020		7.20		266.03
4/8/2020		6.62		266.61
4/29/2020		7.19		266.04
5/13/2020		7.46		265.77
5/27/2020		8.26		264.97
6/9/2020		9.23		264.00
6/24/2020		9.88		263.35
8/24/2020		10.72		262.51
10/19/2020		10.93		262.30
12/15/2020		7.11		266.12
3/23/2021		8.24		264.99
4/14/2021		7.98		265.25
4/27/2021		7.91		265.32
5/26/2021		8.87		264.36
6/11/2021		8.84		264.39
6/24/2021		9.70		263.53
10/18/2021		9.61		263.62

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW-2)				
3/23/2022		7.11	273.23	266.12
8/29/2022		9.05		264.18
10/25/2022		4.00		269.23
11/1/2022		8.04		265.19
MW-3			Current ground surface elevation: 272.34 (feet)	
9/28/2004		11.35	274.65	263.30
10/13/2004		11.05		263.60
2/16/2005		6.85		267.80
7/15/2009		11.35		263.30
10/12/2011		11.35		263.30
8/27/2012		12.63		262.02
4/22/2013		10.60		264.05
5/10/2013		12.15		262.50
5/20/2013		12.58		262.07
6/5/2013		11.18		263.47
6/20/2013		11.59		263.06
9/27/2013		12.78		261.87
12/31/2013		12.57		262.08
3/31/2014		9.04		265.61
4/17/2014		10.32		264.33
5/5/2014		10.73		263.92
5/14/2014		10.87		263.78
5/28/2014		11.86		262.79
6/11/2014		12.81		261.84
6/26/2014		11.62		263.03
9/18/2014		12.96		261.69
12/30/2014		10.44		264.21
4/20/2015		9.11		265.54
4/30/2015		10.18		264.47
5/16/2015		12.03		262.62
5/31/2015		13.14		261.51
6/15/2015		13.24		261.41
6/30/2015		11.13		263.52
9/19/2019		14.37		260.28
12/10/2019		11.50		263.15
3/5/2020		10.55		264.10
4/8/2020		8.40		266.25
4/29/2020		11.13		263.52
5/13/2020		10.66		263.99
5/27/2020		12.25		262.40
6/9/2020		13.25		261.40
6/24/2020		13.81		260.84
8/24/2020		15.20		258.67
10/19/2020		14.28		260.37
12/15/2020		9.76		264.89
3/23/2021		12.33		262.32
4/14/2021		12.64		262.01
4/27/2021		11.40		263.25
5/26/2021		12.84		261.81
6/11/2021		13.16		261.49

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW-3)				
6/24/2021		14.10	274.65	260.55
10/18/2021		13.86		260.79
3/23/2022		10.66		263.99
8/29/2022		13.06		261.59
10/25/2022		11.30		263.35
11/1/2022		11.66		262.99
MW-4			Current ground surface elevation: 273.84 (feet)	
9/28/2004		8.52	276.92	268.40
10/13/2004		8.82		268.10
2/16/2005		4.92		272.00
7/15/2009		4.83		272.09
10/12/2011		8.59		268.33
8/27/2012		11.00		265.92
4/22/2013		9.01		267.91
5/10/2013		10.02		266.90
5/20/2013		10.66		266.26
6/5/2013		9.21		267.71
6/20/2013		9.38		267.54
9/27/2013		15.64		261.28
12/31/2013		15.11		261.81
3/31/2014		12.87		264.05
4/17/2014		14.00		262.92
5/5/2014		15.08		261.84
5/14/2014		15.16		261.76
5/28/2014		15.81		261.11
6/11/2014		16.10		260.82
6/26/2014		15.60		261.32
9/18/2014		16.88		260.04
12/30/2014		15.85		261.07
4/20/2015		15.89		261.03
4/30/2015		15.89		261.03
5/16/2015		15.98		260.94
5/31/2015		16.55		260.37
6/15/2015		15.93		260.99
6/30/2015		15.88		261.04
9/19/2019		D		
12/10/2019		15.39	276.92	261.53
3/5/2020		15.42		261.50
4/8/2020		15.44		261.48
4/29/2020		15.44		261.48
5/13/2020		15.45		261.47
5/27/2020		15.47		261.45
6/9/2020		15.79		261.13
6/24/2020		16.18		260.74
8/24/2020		D		
10/19/2020		16.92	276.92	260.00
12/15/2020		15.42		261.50
3/23/2021		15.45		261.47
4/14/2021		15.42		261.50
4/27/2021		15.45		261.47

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW-4)				
5/26/2021		15.49	276.92	261.43
6/11/2021		15.96		260.96
6/24/2021		16.35		260.57
10/18/2021		16.86		260.06
3/23/2022		15.41		261.51
8/29/2022		D		
10/25/2022		15.40	276.92	261.52
11/1/2022		15.44		261.48
MW-5			Current ground surface elevation: 315.13 (feet)	
9/28/2004		16.16	318.46	302.30
10/13/2004		16.96		301.50
2/16/2005		12.96		305.50
7/15/2009		11.61		306.85
10/12/2011		18.12		300.34
8/27/2012		21.21		297.25
4/22/2013		11.24		307.22
5/10/2013		13.68		304.78
5/20/2013		15.34		303.12
6/5/2013		12.76		305.70
6/20/2013		13.10		305.36
9/27/2013		21.34		297.12
12/31/2013		15.06		303.40
3/31/2014		8.78		309.68
4/17/2014		8.32		310.14
5/5/2014		11.27		307.19
5/14/2014		12.35		306.11
5/28/2014		13.47		304.99
6/11/2014		15.72		302.74
6/26/2014		17.77		300.69
9/18/2014		20.55		297.91
12/30/2014		9.06		309.40
4/20/2015		9.29		309.17
4/30/2015		9.71		308.75
5/16/2015		12.94		305.52
5/31/2015		16.33		302.13
6/15/2015		16.51		301.95
6/30/2015		13.03		305.43
9/19/2019		D		
12/10/2019		13.70	318.46	304.76
3/5/2020		12.21		306.25
4/8/2020		12.55		305.91
4/29/2020		14.88		303.58
5/13/2020		15.17		303.29
5/27/2020		16.54		301.92
6/9/2020		18.61		299.85
6/24/2020		22.07		296.39
8/24/2020		D		
10/19/2020		25.60	318.46	292.86
12/15/2020		13.56		304.90
3/23/2021		16.43		302.03

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW-5)				
4/14/2021		16.76	318.46	301.70
4/27/2021		16.44		302.02
5/26/2021		19.42		299.04
6/11/2021		22.04		296.42
6/24/2021		25.74		292.72
10/18/2021		26.43		292.03
3/23/2022		14.84		303.62
8/29/2022		D		
10/25/2022		18.00	318.46	300.46
11/1/2022		18.22		300.24
MW17-1			Current ground surface elevation: 271.43 (feet)	
9/19/2019		18.15	273.30	255.15
12/10/2019		16.35		256.95
3/5/2020		15.71		257.59
4/8/2020		14.40		258.90
4/29/2020		16.00		257.30
5/13/2020		16.00		257.30
5/27/2020		16.90		256.40
6/9/2020		17.59		255.71
6/24/2020		18.39		254.91
8/24/2020		19.92		253.38
10/19/2020		19.25		254.05
12/15/2020		15.97		257.33
3/23/2021		16.97		256.33
4/14/2021		16.48		256.82
4/27/2021		16.98		256.32
5/26/2021		17.70		255.60
6/11/2021		18.15		255.15
6/24/2021		18.64		254.66
10/18/2021		17.88		255.42
3/23/2022		16.04		257.26
8/29/2022		17.20		256.10
10/25/2022		16.00		257.30
11/1/2022		16.18		257.12
MW17-2			Current ground surface elevation: 272.99 (feet)	
9/19/2019		16.33	274.83	258.50
12/10/2019		10.99		263.84
3/5/2020		8.52		266.31
4/8/2020		10.26		264.57
4/29/2020		11.54		263.29
5/13/2020		11.91		262.92
5/27/2020		13.12		261.71
6/9/2020		14.32		260.51
6/24/2020		16.05		258.78
8/24/2020		19.20		255.63
10/19/2020		15.24		259.59
12/15/2020		9.98		264.85
3/23/2021		11.97		262.86
4/14/2021		11.43		263.40

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(MW17-2)				
4/27/2021		10.82	274.83	264.01
5/26/2021		13.40		261.43
6/11/2021		13.93		260.90
6/24/2021		15.55		259.28
10/18/2021		14.58		260.25
3/23/2022		9.42		265.41
8/29/2022		10.16		264.67
10/25/2022		11.00		263.83
11/1/2022		11.35		263.48
MW17-3			Current ground surface elevation: 305.98 (feet)	
9/19/2019		28.77	307.68	278.91
12/10/2019		13.46		294.22
3/5/2020		14.33		293.35
4/8/2020		14.60		293.08
4/29/2020		16.72		290.96
5/13/2020		16.73		290.95
5/27/2020		18.25		289.43
6/9/2020		21.46		286.22
6/24/2020		27.05		280.63
8/24/2020		34.68		273.00
10/19/2020		39.72		267.96
12/15/2020		18.52		289.16
3/23/2021		22.10		285.58
4/14/2021		23.14		284.54
4/27/2021		21.62		286.06
5/26/2021		27.44		280.24
6/11/2021		29.76		277.92
6/24/2021		32.44		275.24
10/18/2021		35.41		272.27
3/23/2022		22.00		285.68
8/29/2022		31.09		276.59
10/25/2022		23.35		284.33
11/1/2022		24.57		283.11
PZ20-01			Current ground surface elevation: 262.64 (feet)	
12/15/2020		4.23	265.11	260.88
3/23/2021		4.40		260.71
4/14/2021		3.94		261.17
4/27/2021		4.00		261.11
5/26/2021		4.59		260.52
6/11/2021		4.91		260.20
6/24/2021		5.44		259.67
10/18/2021		4.62		260.49
3/23/2022		3.77		261.34
8/29/2022		4.47		260.64
10/25/2022		4.00		261.11
11/1/2022		4.03		261.08
PZ20-02			Current ground surface elevation: 267.29 (feet)	
12/15/2020		2.55	269.84	267.29

WATER LEVEL SUMMARY

Water Levels

SEVEE & MAHER ENGINEERS, INC.
4 BLANCHARD ROAD
CUMBERLAND CENTER, ME 04021

Location / Date	Height Above Measuring Point (feet)	Depth Below Measuring Point (feet)	Measuring Point Elevation (feet)	Water Level Elevation (feet)
(PZ20-02)				
3/23/2021		2.83	269.84	267.01
4/14/2021		2.90		266.94
4/27/2021		2.91		266.93
5/26/2021		3.29		266.55
6/11/2021		3.73		266.11
6/24/2021		4.67		265.17
10/18/2021		4.05		265.79
3/23/2022		2.78		267.06
8/29/2022		3.95		265.89
10/25/2022		W5		
11/1/2022		3.55	269.84	266.29
STEVENS			Current ground surface elevation: 247.4 (feet)	
7/15/2009		31.79	248.25	216.46
6/30/2015		33.55		214.70
10/18/2021		34.97		213.28

Measurement Qualifier Notes:

D - The sampling location was dry.

W5 - Could not locate well. Water level not taken.