

June 30, 2023

Kevin Balduzzi Deputy Regional Permit Administrator Division of Environmental Permits – Region 7 NYS Department of Environmental Conservation 5786 Widewaters Parkway Syracuse, NY 13214-1867

Subject: Mining Permit Modification Cargill, Inc. Cayuga Salt Mine DEC #0-9999-00075/00001, MLF #70052

Dear Mr. Balduzzi:

On behalf of Cargill, Inc. (IGN), JMT of New York, Inc. (JMT) is submitting three (3) copies of the enclosed Mining Permit Modification Application for the above referenced site at the request of the New York State Department of Environmental Conservation (NYSDEC). Cargill currently holds a NYSDEC Mining Permit (#0-9999-00075/00001) for the Cayuga Salt Mine (#70052). The submission of this application is made without prejudice to Cargill's position that the update to the water storage location does not require a modification to its permit.

This modification application includes Modification Application narrative, Mining Plan Maps, Mining Permit Application Form and Organizational Report, and a Full Environmental Assessment Form.

If you should have any questions or require further information, please do not hesitate to contact me at (518) 782-0882 or edavidson@jmt.com.

Sincerely,

JMT of New York, Inc.

Edward G. Davidson, PG Associate Vice President

Attachments

ecc w/ att.: Z. Scopa, Cargill, Inc.

S. Wilczynski, Cargill, Inc.

K. Roe, Barclay Damon, LLP

P. Naughton, Barclay Damon, LLP

T. Rigley, NYSDEC Region 7





MODIFICATION APPLICATION FOR PERMIT TO MINE

CARGILL, INC. CAYUGA SALT MINE LANSING, NEW YORK

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MLF # 70052

Prepared for:

Cargill, Inc. Post Office Box B 191 Portland Point Road Lansing, New York 14822

Prepared by:

JMT of New York, Inc. 19 British American Boulevard Latham, New York 12110

Submitted: June 2023

Project No. 20-01312N-003





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FIGURE

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- PLATE 1 SURFACE MINING PLAN MAP
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1.0 INTRODUCTION

Cargill, Inc. (Cargill) mines salt at the Cayuga Salt Mine in the Town of Lansing, Tompkins County, New York. Mining is conducted in underground salt seams beneath Cayuga Lake, within lands leased from the New York State Office of General Services (OGS), with supporting surface and sub-surface facilities located in the Town of Lansing. Virtually all the salt mined from Cargill's Cayuga Mine is sold as road salt for de-icing highways and bridges in the Mid-Atlantic, Northeast, and New England states.

Cargill is authorized to mine salt at the Cayuga Salt Mine under the Mined Land Reclamation Law (MLR) through a permit issued by the New York State Department of Environmental Conservation (NYSDEC ID: 0-9999-00075/00001). Mining is not prohibited at this site by state, county, or town law. Cargill controls 13,625 acres of land at the Cayuga Salt Mine, including land above and below the surface. Of those 13,625 acres, approximately 13,579 acres are within the current Life-of-Mine, and 9,410 acres are actively used for mining activities (storage, processing, bagging, etc.).

Cargill has engaged Johnson Mirman and Thompson, Inc. (JMT) to prepare this Modification Application at the request of NYSDEC to amend Cargill's current water storage practices.

2.0 MINE PLAN

2.1 SITE LOCATION AND HISTORY

Cargill's Cayuga Salt Mine is located in the Town of Lansing, Tompkins County, New York. The mine's surface facilities are located off Portland Point Road on the east side of Cayuga Lake, approximately as shown on the Site Location Map (Figure 1). The mine itself is located beneath a portion of Cayuga Lake and the surrounding area (including lands owned by Cargill and lands of others for which Cargill has obtained mineral rights). Cargill has historically mined salt from lands it owns and leases in other areas east and west of Cayuga Lake (see Plate 1).

This modification application proposes to amend water storage practices in the Cayuga Salt Mine.

2.2 ENVIRONMENTAL SETTING

2.2.1 Adjacent Land Use Features

Most of the current mining area is located under the Cayuga Lake, as shown on the Location Plan Map (Figure 1). Land-uses in the vicinity, in addition to the lake, include the Norfolk-Southern Railroad (along the eastern shore of the lake), Taughannock Falls State Park (on the west side of Cayuga Lake adjacent to the northernmost workings of the underground mine), Lansing Park (on the east side of the lake northwesterly of the surface operations of the Cayuga Salt Mine and easterly, southerly and northerly of the underground extraction areas).

Cargill's current OGS lease area extends under the Cayuga Lake to the limits shown on the Location Plan Map. The mine area extends easterly of the surface facilities to the area east of N.Y.S. Route 34. The majority





of this area is occupied by open space, farmland, rural residential or commercial land uses. Cargill also leases lands to the west of the Cayuga Lake as also shown on the Site Location Map.

2.2.2 Present Conditions of the Land

The surface lands at the Cayuga Salt Mine are occupied by operational features such as hoist houses, salt storage pads, conveyors, salt storage buildings, a bagging facility, corporate offices, a railroad siding (complete with rail-bulk loading facilities), surface exposures of shafts, truck-loading, and other facilities. The present condition of the land surface at the Cayuga Salt Mine is shown on the Surface Mining Plan Map (Plate 1).

2.3 MINING METHOD

2.3.1 Description of Facility and Mining Method

The Cayuga Salt Mine is an underground rock salt mine accessed by four (4) vertical shafts from Cargill's surface complex located at Portland Point Road, and Ridge Road in the Town of Lansing. The mine has its processing facility located underground. Bulk loading, bagging and bulk storage facilities are located at Cargill's surface complex. Cargill's surface facility as well as Shafts 1, 2 3, and 4 are indicated on the Subsurface Mining Plan Map (Plate 2).

There are no proposed changes to Cargill's existing and approved mining operations and methods.

During operations of the underground mine, groundwater inflow is managed by the facility. Inflow sources and rates are well understood, and water has been managed at various locations across the underground mine over decades of mining at the Cayuga Salt Mine. Although Cargill has managed water at the mine at various underground locations, a recently proposed update to the water storage location has led NYSDEC to request submission of this Modification Application. There are no other proposed changes to Cargill's existing and approved mining operations and methods.

2.3.2 Water Handling and Storage

To extend the mine's water storage capacity, Cargill plans to establish additional water storage area capacity within portions of 6-Level. Figure 2 illustrates the planned water storage area. Water will be pumped to this water storage area from other areas of the mine. The proposed storage area on 6-Level is estimated to have the capacity to provide at least 15 years of water storage at the current inflow rates.

2.4 ASSESSMENT AND MITIGATION OF POTENTIAL ENVIRONMENTAL IMPACTS

Cargill commissioned several studies to assess whether the use of the proposed water storage area could impact geotechnical parameters. These studies were provided to third-party expert mining and geologic consultant, JT Boyd Company (Boyd), for review. Boyd concluded that "installation of the sump will not cause global instability of the mine, the S3 Submain, or E5 panel," and recommended certain measures to monitor the activity. While Cargill has historically operated an extensive monitoring plan consistent with





Boyd's recommendations, Cargill has further developed its monitoring plan (Appendix C) to update and memorialize monitoring practices per Boyd's most recent recommendations.

The proposed modification regarding underground water storage location is an update to (change in location of) a thoroughly studied and long-approved operational practice at the Cayuga Salt Mine. There are no potential surface impacts associated with the proposed change in water storage location.

3.0 RECLAMATION PLAN

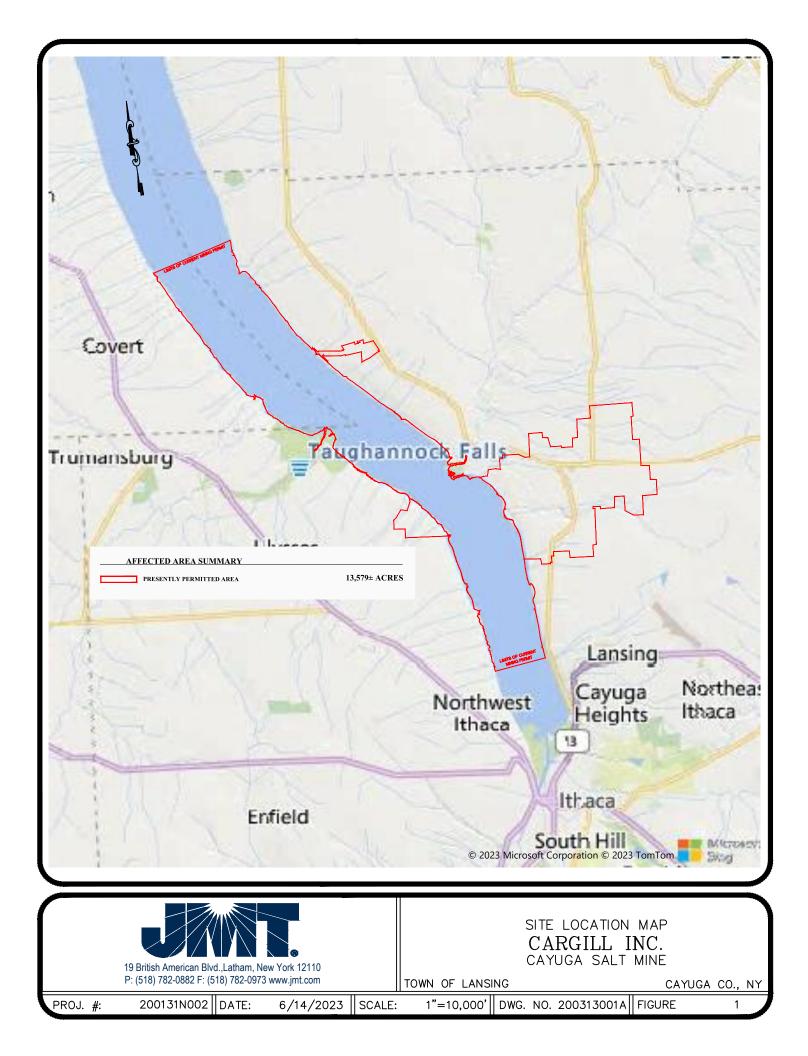
This modification application applies to a proposed change in underground water storage location within the mine, and no changes in Cargill's currently approved Reclamation Plan are proposed. Cargill's Surface Reclamation Plan is included in this application as Plate 3.

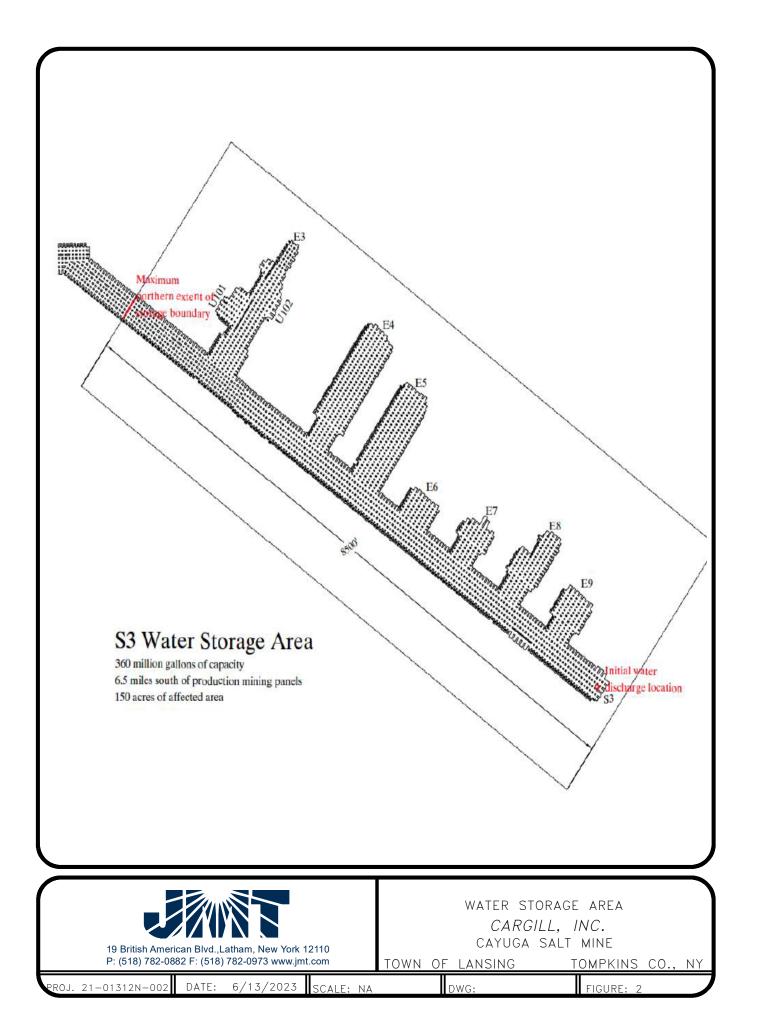




FIGURES



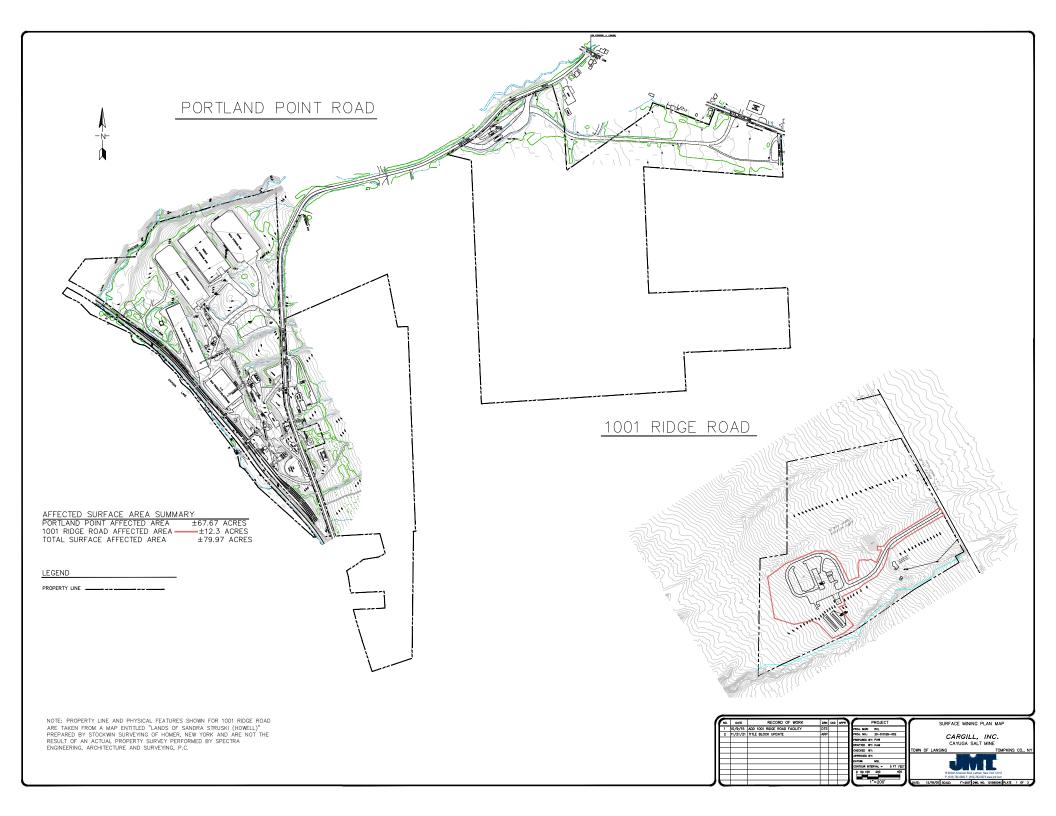


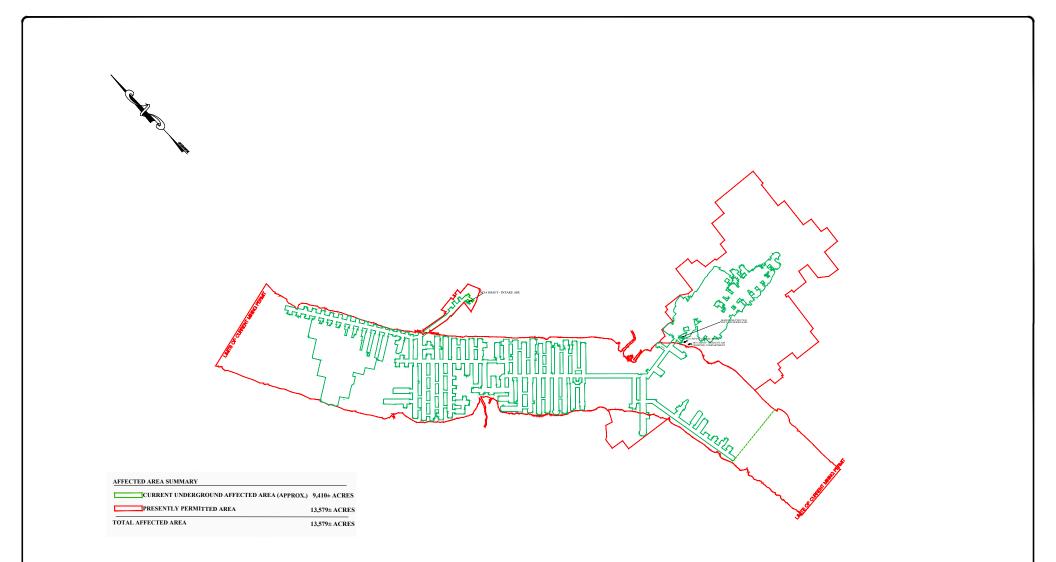




PLATES













APPENDIX A MINED LAND RECLAMATION PERMIT APPLICATION AND ORGANIZATIONAL REPORT FORM



PRINT

Division of Mineral Resources MINING PERMIT APPLICATION

Division of Mine MINING PERMIT					Departr Environ Conserv	menta	f d	
1. a. MINE FILE NUMBER 70052	1. b. DEC ID NU 0-9999-000		7. MINED LAND PROJECT		I	Vaa	Na	
2. NAME OF APPLICANT Cargill Incorporated	0 0000 000	13/00001	a. Will the total acreage aff mining site be equal to o			Yes 🖌	No	
3. TELEPHONE NUMBER			b. Will the vertical depth fr	-				N/A
(607) 533-4221			the floor exceed 20 feet					1.1/7
4. PERMANENT ADDRESS: NUMBER & S ⁻ 191 Portland Point Road, Post (c. Will there be on-site pro crushing, screening, wa			~		
сіту Lansing	STATE NY	ZIP CODE 14882	 d. Will mining occur within (eg. stream, lake) or we 		vater body	~		
5. CONTACT PERSON	6. a. TELEPHO		e. Will any consolidated m		limestone,		~	
Zoe Scopa 6. b. EMAIL ADDRESS	(607) 533-37	/58	f. Will mining occur within		a?		~	
zoe_scopa@cargill.com			g. Will mining ever occur b	-	9:			N/A
8. TAXPAYER ID (If other than individual, pro	ovide Federal Taxpay	er ID Number)	9. APPLICATION TYPE					
14-0177680			New Rene			ansfer		
10. a. PRESENT PERMIT TERM Expiration Date 4 / 23 / 2024	10. b. COMING		11. NAME OF MINERAL/MA	TERIAL TO BE MINE	2			
12. LOCAL ORDINANCES	► 5 years	Otheryea	12. b. Does the local govern	ment require any type (of permit for m	nining at		-
a. Is mining prohibited at this location?	Yes	No	this location?	Yes	N Politici II	•		
13. a. ARE ANY OTHER STATE MINING PE			13. b. If YES, give Mine File	Number(s)				
THE APPLICANT?	Yes	🖌 No						
14. Has any owner, partner, corporate officer State mining permit SUSPENDED OR RI Yes Vo If YES, identify	EVOKED or has had			•	that has had	a New Yo	rk	
15. ACREAGE SUMMARY (To be filled in by	applicant)			FOR C	FFICIAL DEC	USE ON	<u>ILY</u>	
a. Total acreage controlled by owner at this	location		13,625.8 acre	s		acre	es	
b. Total acreage permitted by DEC prior to			<u>13,579.0</u> acre			acre	es	
c. Total acreage affected since April 1, 197			<u>9,410.0</u> acre			acre		
 d. Total acreage approved by DEC as recla e. Current affected acreage (c minus d) 	limea since April 1, 19	975	<u>0.0</u> acre <u>9,410.0</u> acre			acre acre		
f. Acreage included in this application, but	not previously approv	ed	<u>acre</u>			acre		
g. New acreage to be affected during the co			<u>0.0</u> acre			acre		
h. Number of acres to be reclaimed during			0.0 acre	s		acre	es	
16. NAME OF MINING OPERATION Cay	uga Mine							
17. MINE LOCATION			18. MAP LOCATION					
Road Portland Point Road			a. Quadrangle Name b. 🔲 15 minute					
-	oute 34B			R OFFICIAL DEC USE				
^{Town} <u>Lansing</u> County <u>Tompkins</u>			LATITUDE:	LONGITUDE:	0.121	N	IAD 83	
19. NAME AND ADDRESS OF SURFACE L	ANDOWNER(S)		20. NAME AND ADDRESS	_	(S)			
Cargill, Incorporated	- (-)		Cargill, Incorporated		(-)			
PO Box 9300			PO Box 9300					
Minneapolis, MN, 55440			Minneapolis, MN, 55440					
21. The surface landowner(s) and the minera applicant's mining and reclamation plan for the applicant, his surety or insurer, or the NYS De property to Department personnel for the purp	e property to be mine partment of Environn	d, and hereby irrevoon nental Conservation.	cably consent and agree to the pe The surface landowner(s) and m	erformance of the Mine iineral owner(s) further	d Land Use P	lan by the	•	
SIGNATURE(S) OF SURFACE LANDOWNE	5	DATE	SIGNATURE(S) OF MINER		I I	DATE		-
Marca Willeyyuski		6/30/23	Mawn Willeygnat			6/30/23	3	
22. I hereby affirm under penalty of perjury t punishable as a Class A misdemeanor pursua			0,0		ents made he	rein are		
NAME, TITLE AND SIGNATURE OF APPLIC			TIVE	1	[[DATE		-
Shawn Wilczynski, Mi			Maron	Ist. 1		6/30/23	2	
			Maur-	allyzanstei		0/30/23	,	

DIVISION OF MINERAL RESOURCES 625 BROADWAY - 3RD FLOOR, ALBANY, NEW YORK 12233-6500 OFFICE FILE NUMBER

ORGANIZATIONAL REPORT



Department of Environmental Conservation

INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED FOR COMPLETION

 FULL NAME AND COMPLETE MAILING ADDRESS OF THE ENTITY; INCLUDE, NAME AND TITLE TO WHOM ALL CORRESPONDENCE SHOULD BE SENT. Cargill, Incorporated Salt Business Unit PO Box B 191 Portland Point Road Lansing, New York 14882 		DERS, NOTICES AND PROCESSES OF URT OF LAW. POST OFFICE BOX LE.
EMAIL ADDRESS:		
TELEPHONE (607) 533-3736 FAX NUMBER (607) 533-4501	EMAIL ADDRESS: Shawn_Wilczynsk TELEPHONE (607) 533-370	
3. TYPE OF ACTIVITY (Check those that apply) PRODUCTIONOil, Gas, Injection or Geothermal Well(s) STORAGEUnderground Gas or LPG Facility PURCHASING-Of Oil or Gas from Others TRANSPORTATION-By Truck or Pipeline for Others PLUGGING-Plug and Abandon Wells for Others DRILLING-Drill Weils for Others	SOLUTION MINING-Own/Op BRINE DISPOSAL-Own/Open STRATIGRAPHIC-Own Well SURFACE MINING-Own/Open UNDERGROUND MINING-O	rate Facility or Hole erate Facility
4. STATE WHETHER THE ENTITY IS A CORPORATION, LIMITED LIABILITY COMPANY, ASSOCIATION, PARTNERSHIP, INDIVIDUAL, PUBLIC AUTHORITY OR GOVERNMENTAL AGENCY, OR TRUST. IF FOREIGN (OUT-OF-STATE) CORPORATION, GIVE STATE AND DATE OF INCORPORATION AND DATE OF AUTHORIZATION TO DO BUSINESS IN NEW YORK STATE. IF PARTNERSHIP, STATE WHETHER GENERAL OR LIMITED AND COUNTY OF FILING. IF DBA, GENERAL PARTNERSHIP OR ASSUMED NAME OF A LIMITED LIABILITY PARTNERSHIP, GIVE COUNTY OF FILING.	5. IF THE NAME ENTERED IN BO) COMPLETE NAME AND ADDRE	
Corporation (Delaware) Established 07/18/1930, and that a cerificate of authority to do business in the State of New York was issued on 11/28/1936.		
6. IF ENTITY IS A CORPORATION OR ASSOCIATION, LIST ALL DIRECTORS AND ALL OFFICERS. IF A PARTNERSHIP, LIST ALL GENERAL AND ALL LIMITED PARTNERS. IF A LLC, LIST ALL MEMBERS. CHECK BOX IF ADDITIONAL SHEETS ARE ATTACHED.	7. LIST ALL PERSONS AUTHORIZ SUBMITTALS TO THE DEPARTMI MUST BE LISTED.	ED BY THE ENTITY TO SIGN ALL ENT. AT LEAST ONE PERSON
NAME TITLE	NAME	TITLE
Brian Sikes President and CEO	Shawn Wilczynski	Mine Manager - Cayuga Mine
See attached	Steve Home	Mining Excellence Director
	Ryan Weese	Underground Superintendent
	Peter Yunger	Maintenance Superintendent
-	Zoe Scopa	Senior Mine Engineer
l affirm under penalty of perjury that the information provided in this rep	New York Street	elief. I am aware any false
statement made in this report is punishable pursuant to Section 210.45 TYPE OR PRINT NAME OF AUTHORIZED PERSON		
Zoe Scopa	SWORN TO AND SUBSCRIBED	JESSICA L. HALL Notary Public, State of New York
SIGNATURE DATE 6/15/2023	DAY OF JUNE 20 23	Notary Public, State of New York No.01HA6401119 Qualified in Tompkins County 00 Commission Expires Dec. 2, 2023
	NOTARY PUBLIC UNICE OF	

ORGANIZATIONAL REPORT ATTACHMENT

CARGILL EXECUTIVE TEAM

- Brian Sikes, President and CEO
- Julian Chase, Business Operations and Supply Chain
- Pilar Cruz, Chief Sustainability Officer
- Ross Hamou-Jennings, Chair of Asia Pacific
- Jennifer Hartsock, Chief Information and Digital Officer
- Ruth Kimmelshue, Animal Nutrition & Health
- Joanne Knight, Chief Financial Officer
- Stephanie Lundquist, Chief Human Resources Officer
- Jon Nash, Protein & Salt
- Philippa Purser, Head of Strategy and Global Process Leader
- Anna Richo, General Counsel, Chief Compliance Officer, Corporate Secretary
- Roger Watchorn, Agricultural Supply Chain and Corporate Trading
- David Webster, Food & Bio, Chief Risk Officer

CARGILL BOARD OF DIRECTORS

- James Brian Sikes, President and CEO
- Lucy C. MacMillan Stitzer
- Omar Ishrak
- Richard A. Cargill
- Richard H. Anderson
- Stephen J. Hemsley
- Virginia M. Rometty
- David D. MacMillan
- David Wood MacLennan
- John C. MacMillan, Jr.
- John S. Watson
- Katherine M. Rothschild
- Andrew C. Liebmann
- Bernard J. Poussot

CARGILL SALT BUSINESS LEADERS

- Sonya Roberts, Salt Group Leader
- Susan Haas, Business Operations & Supply Chain Salt Group Leader
- Christine Rupert, Road Safety Managing Director
- Michael Skoglund, Salt Group Lead Lawyer



APPENDIX B Full environmental assessment form



Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:					
Cargill Cayuga Mine - Modification Application - S3 Water Storage					
Project Location (describe, and attach a general location map):					
191 Portland Point Road, Lansing, NY - See Attached Site Location Map					
Brief Description of Proposed Action (include purpose or need):					
Cargill is submitting a Mine Permit Modification Application to extend its water storage area to water storage area within abandoned panels at the south end of the mine.	o 6-Level of the Cayuga Salt Mine. C	argill plans to establish a			
Name of Applicant/Sponsor:	Telephone: 607-533-4221				
Cargill, Inc.	E-Mail:				
Address: 191 Portland Point Road, Post Office Box B					
City/PO: Lansing	State: New York	Zip Code: 14882			
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 607-533-3758				
Zoe Scopa	E-Mail: zoe_scopa@cargill.com				
Address:					
191 Portland Point Road					
City/PO:	State:	Zip Code:			
Lansing	New York	14882			
Property Owner (if not same as sponsor):	Telephone:				
E-Mail:					
Address:	·				
City/PO:	State:	Zip Code:			

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)					
Government Entity		If Yes: Identify Agency and Approval(s) Required	oval(s) Application Date (Actual or projected		
a. City Council, Town Board, or Village Board of Trustees	∐Yes ⊠ No s				
b. City, Town or Village Planning Board or Commiss	☐Yes ⊉ No sion				
c. City, Town or Village Zoning Board of Ap	□Yes ☑ No peals				
d. Other local agencies	∐Yes Z No				
e. County agencies	∐ Yes ⊉ No				
f. Regional agencies	∐Yes ∠ No				
g. State agencies	∠ Yes N o	NYSDEC - Mined Land Reclamation Permit	June 2023		
h. Federal agencies	□Yes□No				
i. Coastal Resources. <i>i</i> . Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? * □Yes ☑No					
<i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <i>iii.</i> Is the project site within a Coastal Erosion Hazard Area?				□ Yes∎No □ Yes∎No	
C. Planning and Zoning					

C.1. Planning and zoning actions.	
 Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	□Yes 2 No
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	□Yes∎No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	□Yes∎No
 b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) If Yes, identify the plan(s): 	∐Yes ⊠ No
 c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? If Yes, identify the plan(s): 	□Yes 2 No

* The proposed action is within the mine entirely below Cayuga Lake.

C.3. Zoning	
]Yes ∕No
b. Is the use permitted or allowed by a special or conditional use permit?]Yes ⊉ No
c. Is a zoning change requested as part of the proposed action? [If Yes, . <i>i.</i> What is the proposed new zoning for the site?]Yes ⊉ No
C.4. Existing community services.	
a. In what school district is the project site located? Lansing Central	
b. What police or other public protection forces serve the project site? Tompkins County Sheriff	
c. Which fire protection and emergency medical services serve the project site? <u>Lansing (V, T)</u>	
d. What parks serve the project site? Myers Park, Ludlowville Park	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, in components)? Industrial	clude all
b. a. Total acreage of the site of the proposed action? acres b. Total acreage to be physically disturbed? acres c. Total acreage (project site and any contiguous properties) owned acres or controlled by the applicant or project sponsor? 13625.84	
<i>i.</i> If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, ho square feet)? %	☐ Yes ☑ No using units,
d. Is the proposed action a subdivision, or does it include a subdivision? [If Yes, . <i>i</i> . Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)]Yes ⊠ No
<i>iii.</i> Number of lots proposed?]Yes []No
 e. Will the proposed action be constructed in multiple phases? <i>i</i>. If No, anticipated period of construction: months <i>ii</i>. If Yes: Total number of phases anticipated Anticipated commencement date of phase 1 (including demolition) month year Anticipated completion date of final phase month year Generally describe connections or relationships among phases, including any contingencies where progress of determine timing or duration of future phases:	

* No additional acres of land will be impacted. Cargill is currently to allowed to store brine water within the structure of the existing Cayuga Salt Mine.

f Deer the proje	ct include new resid	antial maag			☐ Yes 2 No
					I i es li no
If Yes, show hun	nbers of units propo One Family		Three Femily	Multiple Femily (four or more)	
	<u>One ranny</u>	<u>Two Family</u>	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases					
D		•• •	1		
• 1 1	osed action include	new non-residentia	al construction (inclu	iding expansions)?	☐Yes No
If Yes,	C				
<i>i</i> . Total number	f of structures		h si shte	width; andlength	
<i>ii</i> . Dimensions (in reet) of largest p	roposed structure.	neigni,	width, and length	
				square feet	
				l result in the impoundment of any	☐ Yes ∠ No
	s creation of a wate	r supply, reservoir	, pond, lake, waste la	agoon or other storage?	
If Yes,					
<i>i</i> . Purpose of the	e impoundment:			Ground water Surface water stream	
<i>ii</i> . If a water imp	oundment, the prine	cipal source of the	water:	Ground water Surface water stream	ns Other specify:
iii. If other than w	water, identify the ty	/pe of impounded/	contained liquids and	d their source.	
. A		J :	Valere et		
<i>iv.</i> Approximate	size of the propose	a impoundment.	volume:	million gallons; surface area:	acres*
v. Dimensions of	of the proposed dam	or impounding str	ucture:	_ neight; length ructure (e.g., earth fill, rock, wood, cond	mata).
vi. Construction	method/materials 1	of the proposed da	in or impounding su	ucture (e.g., earth III, Tock, wood, cond	liele).
D.2. Project Op					
				uring construction, operations, or both?	☐ Yes ∕ No
(Not including	general site prepara	ation, grading or in	stallation of utilities	or foundations where all excavated	
materials will	remain onsite)				
If Yes:					
	urpose of the excava				
				b be removed from the site?	
	nat duration of time				
iii. Describe natu	re and characteristic	es of materials to b	e excavated or dredg	ged, and plans to use, manage or dispose	e of them.
					— — — — — — — — — — — — — — — — — — —
	e onsite dewatering				☐Yes ☐No
If yes, descri	be				
	otal area to be dredg			acres	
	naximum area to be			acres	
			or dredging?	feet	
	avation require blas				Yes No
ix. Summarize si	te reclamation goals	and plan:			
					· · · · · · · · · · · · · · · · · · ·
b. Would the pro	posed action cause	or result in alteration	on of, increase or de	crease in size of, or encroachment	∐Yes ∠ No
			ich or adjacent area?		
If Yes:	,	<i>, , , </i>			
	vetland or waterbod	y which would be	affected (by name, w	vater index number, wetland map numb	er or geographic
. ,					

* Cargill is allowed to store brine within the Cayuga Salt Mine. The proposed action will not result in the creation of a new impoundment, instead using the existing S3 mains and adjacent panels, and is an approved use.

<i>ii</i> . Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placer alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in s	
<i>iii.</i> Will the proposed action cause or result in disturbance to bottom sediments?	☐Yes ⊠ No
If Yes, describe:	☐ Yes № No
If Yes:	
 acres of aquatic vegetation proposed to be removed:	
expected acreage of aquatic vegetation remaining after project completion:	
• purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
proposed method of plant removal:	
 proposed method of plant removal:	
v. Describe any proposed reclamation/mitigation following disturbance:	
c. Will the proposed action use, or create a new demand for water?	□Yes ∠ No
If Yes:	
<i>i</i> . Total anticipated water usage/demand per day: gallons/day	— —
<i>ii.</i> Will the proposed action obtain water from an existing public water supply?	□Yes □No
If Yes: Name of district or service area:	
 Name of district or service area: Does the existing public water supply have capacity to serve the proposal? 	Yes No
 Is the project site in the existing district? 	\Box Yes \Box No
 Is expansion of the district needed? 	\Box Yes \Box No
 Do existing lines serve the project site? 	\Box Yes \Box No
<i>iii.</i> Will line extension within an existing district be necessary to supply the project?	\Box Yes \Box No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
• Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes ☐No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
Proposed source(s) of supply for new district:	
 Proposed source(s) of supply for new district. v. If a public water supply will not be used, describe plans to provide water supply for the project: 	
<i>vi</i> . If water supply will be from wells (public or private), what is the maximum pumping capacity:	gallons/minute.
d. Will the proposed action generate liquid wastes?	☐ Yes ∠ No
If Yes:	
<i>i</i> . Total anticipated liquid waste generation per day: gallons/day <i>ii</i> . Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe a	
<i>ii</i> . Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe approximate volumes or proportions of each):	all components and
<i>iii.</i> Will the proposed action use any existing public wastewater treatment facilities?	□Yes □No
If Yes:	
Name of wastewater treatment plant to be used:	
 Name of district: Does the existing wastewater treatment plant have capacity to serve the project? 	☐Yes ☐No
 Does the existing wastewater treatment plant have capacity to serve the project? Is the project site in the existing district? 	$\Box Y es \Box No$
 Is expansion of the district needed? 	\Box Yes \Box No

• Do existing sewer lines serve the project site?	□Yes□No
• Will a line extension within an existing district be necessary to serve the project?	□Yes□No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
<i>iv.</i> Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes□No
If Yes:	
Applicant/sponsor for new district:	
 Date application submitted or anticipated: What is the receiving water for the wastewater discharge? 	<u> </u>
 what is the receiving water for the wastewater discharge? v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including speci 	fying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	irying proposed
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	□Yes 2 No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
<i>i</i> . How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or acres (impervious surface) Square feet or acres (parcel size)	
<i>ii.</i> Describe types of new point sources.	
	<u> </u>
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr	roperties,
groundwater, on-site surface water or off-site surface waters)?	
If to surface waters, identify receiving water bodies or wetlands:	
Will stormwater runoff flow to adjacent properties?	□Yes□No
<i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	☐Yes 2 No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
<i>ii.</i> Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	·····
<i>n</i> . Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
<i>iii.</i> Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	☐Yes ☑ No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
<i>i</i> . Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
<i>ii.</i> In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
•Tons/year (short tons) of Perfluorocarbons (PFCs)	
•Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
•Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

 h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes: 	∐Yes ∠ No
 <i>i.</i> Estimate methane generation in tons/year (metric): <i>ii.</i> Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generative, flaring): 	enerate heat or
 Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): 	∐Yes Z No
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: <i>i</i>. When is the peak traffic expected (Check all that apply): Morning Evening Weekend Randomly between hours of to <i>ii</i>. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks) 	☐Yes No s):
 <i>iii.</i> Parking spaces: Existing Proposed Net increase/decrease <i>iv.</i> Does the proposed action include any shared use parking? <i>v.</i> If the proposed action includes any modification of existing roads, creation of new roads or change in existing a <i>vi.</i> Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? <i>vii.</i> Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? <i>viii.</i> Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? 	□Yes□No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: <i>i</i>. Estimate annual electricity demand during operation of the proposed action: <i>ii</i>. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/le other): <i>iii</i>. Will the proposed action require a new, or an upgrade, to an existing substation? 	☐Yes No ocal utility, or □Yes No
1. Hours of operation. Answer all items which apply. i. During Construction: • Monday - Friday: • Saturday: • Sunday: • Holidays: Holidays:	

*No changes are proposed to existing hours of operation. Cargill operates several processes at different schedules, in accordance with their NYSDEC-approved Mined Land Use Plan. Generally, only "emergency" operations are conducted on holidays.

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?	☐ Yes 2 No
If yes:	
<i>i</i> . Provide details including sources, time of day and duration:	
<i>ii</i> . Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	□Yes□No
Describe:	
n. Will the proposed action have outdoor lighting?	☐ Yes 2 No
If yes:	
<i>i</i> . Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
<i>ii.</i> Will proposed action remove existing natural barriers that could act as a light barrier or screen?	□ Yes □ No
Describe:	
o. Does the proposed action have the potential to produce odors for more than one hour per day?	☐ Yes 2 No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures:	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage?	☐ Yes No
If Yes:	
<i>i.</i> Product(s) to be stored	
<i>iii.</i> Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	☐ Yes ☑ No
insecticides) during construction or operation? If Yes:	_
<i>i</i> . Describe proposed treatment(s):	
ii. Will the proposed action use Integrated Pest Management Practices?	☐ Yes ☐No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?	□ Yes ∎No
If Yes: <i>i</i> . Describe any solid waste(s) to be generated during construction or operation of the facility:	
Construction: tons per (unit of time)	
• Operation : tons per (unit of time) <i>ii.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:	
Construction:	
Operation:	
<i>iii.</i> Proposed disposal methods/facilities for solid waste generated on-site:	
Construction:	
Operation:	

s. Does the proposed action include construction or modification of a solid waste management facility?					
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): 					
<i>ii.</i> Anticipated rate of disposal/processing:					
• Ton	ns/month, if transfer or other non-c		, or		
• Tor	ns/hour, if combustion or thermal the	reatment			
iii. If landfill, anticipated site life: years					
1 1	tion at the site involve the commer-	cial generation, treatment, sto	orage, or disposal of hazard	lous 🗌 Yes 🗹 No	
waste? If Yes:					
	rdous wastes or constituents to be	generated handled or manage	ed at facility.		
		generated, number of manage			
		1			
<i>ii</i> . Generally describe	processes or activities involving h	azardous wastes or constitue	nts:		
			·····		
	be handled or generated to				
iv. Describe any propo	osals for on-site minimization, recy	cling or reuse of hazardous of	constituents:		
		· · · · · · · · · · · · · · · · · · ·			
v. Will any hazardous	s wastes be disposed at an existing	offsite hazardous waste facil	itv?	Yes No	
	nd location of facility:				
			· · · · · · · · · · · · · · · · · · ·		
If No: describe propose	ed management of any hazardous v	vastes which will not be sent	to a hazardous waste facilit	ty:	
<u> </u>	<u> </u>				
E. Site and Setting of	Proposed Action				
E.1. Land uses on an	d surrounding the project site				
a. Existing land uses.					
i. Check all uses that	t occur on, adjoining and near the p				
	ial 🗹 Commercial 🗹 Reside				
<i>ii.</i> If mix of uses, gen	lture Aquatic Other	(specify):			
	within Cargill's underground mine facility	v beneath Cavuga Lake.			
		,			
b. Land uses and cover	types on the project site.*				
	and use or	Current	Acreage After	Change	
	Covertype	Acreage	Project Completion	(Acres +/-)	
, , , , , , , , , , , , , , , , , , , ,	and other paved or impervious	- N 1 A			
surfaces		NA	NA	NA	
• Forested		NA	NA	NA	
	nds or brushlands (non-	NA	NA	NA	
-	ding abandoned agricultural)				
Agricultural (includes active or	chards, field, greenhouse etc.)	NA	NA	NA	
Surface water feat					
(lakes, ponds, streams, rivers, etc.)		NA	NA	NA	
Wetlands (freshwater or tidal)		NA	NA	NA	
• Non-vegetated (ba	re rock, earth or fill)	NA	NA	NA	
• Other					
Describe:		NA	NA	NA	

*The area for the proposed action is within the Cargill Cayuga Salt Mine, which is located under Cayuga Lake. There is no current land use or cover for the area.

c. Is the project site presently used by members of the community for public recreation? <i>i</i> . If Yes: explain:		
 d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, <i>i</i>. Identify Facilities: 	∐Yes ⊠ No	
e. Does the project site contain an existing dam?If Yes:<i>i</i>. Dimensions of the dam and impoundment:	☐ Yes ⊠ No	
• Dam height: feet		
Dam length: feet		
Surface area: acres		
Volume impounded: gallons OR acre-feet		
<i>ii.</i> Dam's existing hazard classification: <i>iii.</i> Provide date and summarize results of last inspection:		
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility Yes:	□Yes I No lity?	
<i>i</i> . Has the facility been formally closed?	□Yes□ No	
• If yes, cite sources/documentation:		
<i>ii.</i> Describe the location of the project site relative to the boundaries of the solid waste management facility:		
<i>iii.</i> Describe any development constraints due to the prior solid waste activities:		
	· · · · · · · · · · · · · · · · · · ·	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes:	∐Yes ⊠ No	
<i>i</i> . Describe waste(s) handled and waste management activities, including approximate time when activities occurr	ed.	
<i>i.</i> Describe waste(s) handled and waste management activities, meruding approximate time when activities occurred.		
 h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: 	∐Yes 🗹 No	
<i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	☐Yes ☐No	
Yes – Spills Incidents database Provide DEC ID number(s):		
 Yes – Environmental Site Remediation database Provide DEC ID number(s): 		
<i>ii.</i> If site has been subject of RCRA corrective activities, describe control measures:		
· · · · · · · · · · · · · · · · · · ·		
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s):	□Yes□No	
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):		

 If yes, DEC site 1D number: Describe any use limitations: Describe any engineering controls: Will the project affect the institutional or engineering controls in place? Ves No Explain: Explain: Surface water gedepth to bedrock on the project site? If Yes, what proportion of the site is comprised of bedrock outcroppings? % C. Predominant soil type(s) present on project site? NA Ma <l< th=""></l<>				
Describe any use limitations: Describe any engineering controls: Will the project affect the institutional or engineering controls in place? Describe any engineering controls: Will the project affect the institutional or engineering controls in place? Describe any engineering controls: Describe any engineering content engineering controls engineering controls engineering controls engineering content engineering contentengineering content engineering content engineering content engin				
• Will the project affect the institutional or engineering controls in place? • Explain: E.2. Natural Resources On or Near Project Site a. What is the average depth to bedrock on the project site? • MA feet b. Are there bedrock outcroppings on the project site?* • MA feet b. Are there bedrock outcroppings on the project site?* • MA feet • C. Predominant soil type(s) present on project site? NA • MA • % c. Predominant soil type(s) present on project site? • MA • % c. Predominant soil type(s) present on project site? Average: • feet • 0. The set of the se				
E.2. Natural Resources On or Near Project Site a. What is the average depth to bedrock on the project site? NA feet b. Are there bedrock outcroppings on the project site?* Yes No If Yes, what proportion of the site is comprised of bedrock outcroppings? % c. Predominant soil type(s) present on project site:* NA Ma % d. What is the average depth to the water table on the project site? Average: feet e. Drainage status of project site soils: Well Drained: NA% of site * Moderately Well Drained: NA% of site % Poorly Drained NA% of site % f. Approximate proportion of proposed action site with slopes: 0-10%: NA % of site * 15% or greater: NA % of site NA % of site g. Are there any unique geologic features on the project site? IVes No If Yes any of the wetlands or other waterbodies (including streams, rivers, ponds of lakes)? IVes No if. Do any wetlands or other waterbodies adjoin the project site? IVes No IYes No if Yes to either i or ii, continue. If No, skip to E.2.i. IVes Image: Site regulated by any federal, state or local agence? IVes Image: No if Yes to either i or ach identified regulated wetland and waterbody on the project site, provide the				
a. What is the average depth to bedrock on the project site? b. Are there bedrock outcroppings on the project site?* If Yes, what proportion of the site is comprised of bedrock outcroppings?				
a. What is the average depth to bedrock on the project site? b. Are there bedrock outcroppings on the project site?* If Yes, what proportion of the site is comprised of bedrock outcroppings?				
b. Are there bedrock outcroppings on the project site?* If Yes, what proportion of the site is comprised of bedrock outcroppings? % If Yes, what proportion of the site is comprised of bedrock outcroppings? % c. Predominant soil type(s) present on project site:* NA %				
If Yes, what proportion of the site is comprised of bedrock outcroppings?% c. Predominant soil type(s) present on project site:* NA%% d. What is the average depth to the water table on the project site? Average:feet e. Drainage status of project site soils:Well Drained:NA % of site *Moderately Well Drained:NA % of site f. Approximate proportion of proposed action site with slopes:O10^{-10\%:}NA % of site f. Approximate proportion of proposed action site with slopes:O10^{-10\%:}NA % of site g. Are there any unique geologic features on the project site? I 15% or greater:NA % of site f. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ii. Do any wetlands or other waterbodies adjoin the project site? I Yes Moo If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i. iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal,Yes Moo state or local agency? iv. For each identified regulated wetland and waterbody on the project site, provide the following information:				
d. What is the average depth to the water table on the project site? Average:				
d. What is the average depth to the water table on the project site? Average:				
e. Drainage status of project site soils: Well Drained: NA % of site *				
☐ Moderately Well Drained: NA % of site Poorly Drained NA % of site f. Approximate proportion of proposed action site with slopes: 0-10%: NA % of site * ☐ 10-15%: NA % of site ☐ 15% or greater: Yes No If Yes, describe: Yes No If Yes, describe: Yes No h. Surface water features. Yes No i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No ii. Do any wetlands or other waterbodies adjoin the project site? Yes No If Yes to either i or ii, continue. If No, skip to E.2.i. Yes No iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: Yes No				
□ Poorly Drained NA % of site f. Approximate proportion of proposed action site with slopes: □ 0-10%: NA % of site * □ 10-15%: NA % of site □ 15% or greater: NA % of site □ 15% or greater: NA % of site □ Yes No If Yes, describe: □				
Image: A regime of the second sec				
□ 15% or greater: NA % of site g. Are there any unique geologic features on the project site? □ Yes ☑ No If Yes, describe:				
If Yes, describe:				
h. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? □Yes ☑No ii. Do any wetlands or other waterbodies adjoin the project site? □Yes ☑No If Yes to either i or ii, continue. If No, skip to E.2.i. □Yes ☑No iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? □Yes ☑No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: □Yes ☑No				
 <i>i.</i> Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? <i>ii.</i> Do any wetlands or other waterbodies adjoin the project site? I Yes INO If Yes to either <i>i</i> or <i>ii</i>, continue. If No, skip to E.2.i. <i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <i>iv.</i> For each identified regulated wetland and waterbody on the project site, provide the following information: 				
ponds or lakes)? ii. Do any wetlands or other waterbodies adjoin the project site? □Yes ☑No iii. Do any wetlands or other waterbodies adjoin the project site? □Yes ☑No if Yes to either i or ii, continue. If No, skip to E.2.i. iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? □Yes ☑No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: □Yes ☑No				
 If Yes to either <i>i</i> or <i>ii</i>, continue. If No, skip to E.2.i. <i>iii</i>. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <i>iv</i>. For each identified regulated wetland and waterbody on the project site, provide the following information: 				
 <i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <i>iv.</i> For each identified regulated wetland and waterbody on the project site, provide the following information: 				
state or local agency? <i>iv.</i> For each identified regulated wetland and waterbody on the project site, provide the following information:				
Streams: Name Classification				
Lakes or Ponds: Name Cayuga Lake Classification A				
• Wetland No. (if regulated by DEC)				
<i>v</i> . Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired Wes No waterbodies?				
If yes, name of impaired water body/bodies and basis for listing as impaired:				
i. Is the project site in a designated Floodway?**				
j. Is the project site in the 100-year Floodplain?**				
k. Is the project site in the 500-year Floodplain?**				
1. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? □Yes ☑No If Yes: □Yes ☑No				
<i>i</i> . Name of aquifer:				

* Not Applicable. The proposed action within the mine will be located below the lake bed of Cayuga Lake. **All activity associated with this proposed action will take place subsurface and will have no impact on nearby surface waters.

m. Identify the predominant wildlife species that occupy or use the project site: *				
 n. Does the project site contain a designated significant natural community? * If Yes: <i>i</i>. Describe the habitat/community (composition, function, and basis for designation): 	☐Yes ⁄ No			
<i>ii.</i> Source(s) of description or evaluation: <i>iii.</i> Extent of community/habitat: • Currently: acres • Following completion of project as proposed: acres • Gain or loss (indicate + or -): acres				
 o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as ☐ Yes No * endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? If Yes: <i>i</i>. Species and listing (endangered or threatened): 				
 p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? If Yes: i. Species and listing: 	☐Yes ₽ No *			
 q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? If yes, give a brief description of how the proposed action may affect that use: 	∐Yes ∎No *			
E.3. Designated Public Resources On or Near Project Site				
 a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number: 	∐Yes ⊠ No			
b. Are agricultural lands consisting of highly productive soils present? <i>i.</i> If Yes: acreage(s) on project site? <i>ii.</i> Source(s) of soil rating(s):	∐Yes № No			
 c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National ☐Yes ☑No * Natural Landmark? If Yes: <i>i</i>. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature <i>ii</i>. Provide brief description of landmark, including values behind designation and approximate size/extent: 				
 d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? If Yes: <i>i</i>. CEA name: <i>ii</i>. Basis for designation: <i>iii</i>. Designating agency and date: 				

* Not Applicable. The proposed action within the mine will be located below the lake bed of Cayuga Lake.

 e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissi Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places. if Yes: i. Nature of historic/archaeological resource: i. Nature of historic/archaeological resource: i. Name: iii. Brief description of attributes on which listing is based: 	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	∏Yes Z No *
 g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: <i>i</i>. Describe possible resource(s): <i>ii</i>. Basis for identification: 	∐Yes Z No *
 h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes: i. Identify resource: ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or trail or trail or trail. 	☐Yes ⊘ No *
etc.):	
 i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes: i. Identify the name of the river and its designation: 	Yes Vo *
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	☐Yes ☐No
* Not Applicable. The proposed action within the mine will be located below the lake bed of Cayuga Lake.	

F. Additional Information

. * Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Zoe Scopa	Date 6/15/23
Signature	Title Schior Mine Engineer

PRINT FORM



APPENDIX C S3 MONITORING PLAN





LOCATION:CARGILL CAYUGA MINE – LANSING, NYSUBJECT:S3 WATER STORAGEMONITORING PLANDATE:6/13/2023

1 S3 Water Storage Overview

1.1 Background

The Cayuga mine's primary water storage has historically been in the abandoned workings on 4-Level. To extend the mine's water storage capacity, Cargill plans to establish a water storage area in the abandoned S3 mains and adjacent E3-E9 panels at the south end of the mine. This S3 area has been monitored to determined convergence rates since it was first mined in the early 2000s. The geotechnical response to water storage in this year has been modelled, which doesn't indicate any significant negative impact on the global stability of the mine. Cargill will validate these predictions by continuing to collect empirical ground behavior data in S3. All water stored in this area will be sufficiently saturated to minimize dissolution of the remaining salt pillars, floor, and roof. This document outlines the plan for monitoring global mine response.



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1.2 Affected Area

The S3 area designated for water storage is approximately 150 acres at the southernmost point of the mine. The S3 mains and adjacent panels are at the lowest elevation of the mine that dips upward toward the north with an overall elevation change of approximately 120'. This area of the mine is where water would flow naturally, regardless of mine operator action. The closest active production panel at the time this document was generated (U78) is approximately 6.5 miles from the maximum fill point in S3. A map of the affected area is shown in Figure 1.

This new water storage location has been estimated to hold approximately 360 million gallons. This estimate was generated using LiDAR scanning technology and will fill at a rate of approximately 1.3-1.8 million gallons per month. This volume is expected to yield a 15-18 year storage capacity at current inflow rates which currently exceeds the life of currently permitted reserves on 6-level. Further work will include efforts to reduce inflow rates and exploration of other reserves within the Syracuse Salt Formation.

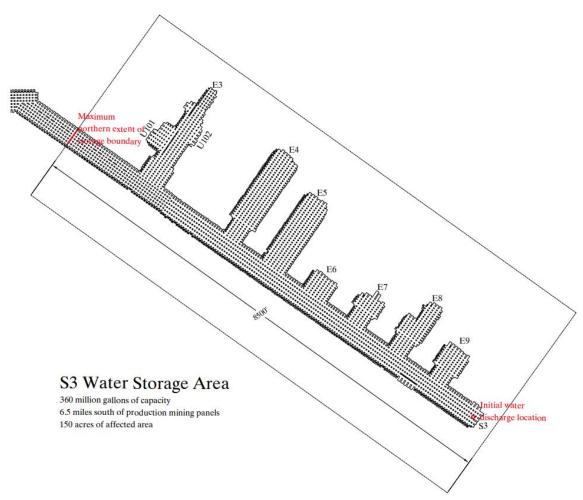


Figure 1



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2 Monitoring Systems

2.1 S3 Area Inspections

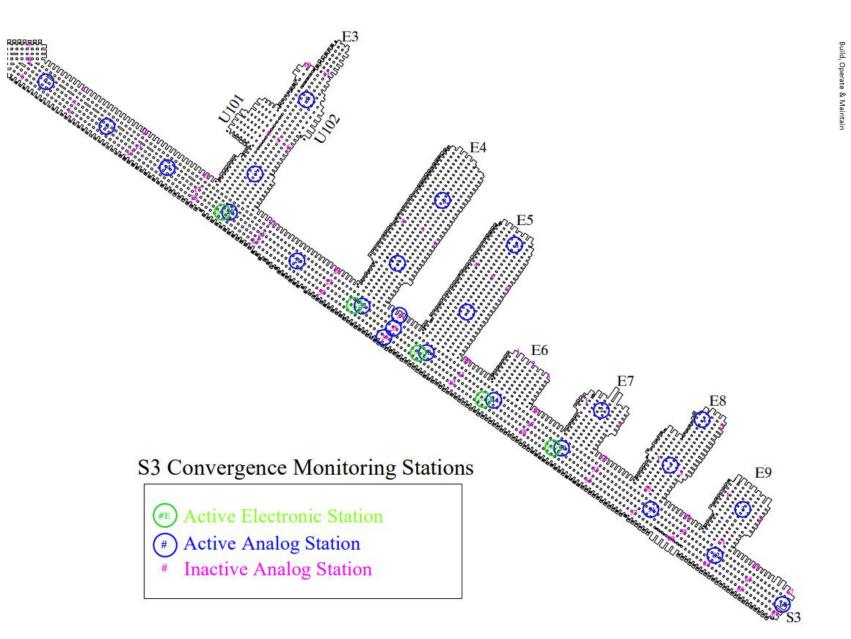
Regular inspection of the water storage area in S3 will be conducted by a supervisor or engineer on a monthly basis. The purpose of this inspection will be to monitor ground conditions, check gas levels, and record advance of the water shoreline. This individual will be equipped with gas detector and will notify another individual of plan to enter the area and will report back to the same individual once the inspection is complete. All other access to the area will be restricted unless approved by management.

2.2 Convergence

Convergence is extensively monitored throughout the Cayuga Mine and convergence data has been actively collected in the S3 area for over two decades. The map in Figure 2 shows the 25 active analog convergence stations in the area in blue circles as well as the five new electronic convergence stations marked in green. The electronic convergence stations have been installed to provide real-time geotechnical monitoring for the area once water storage begins. Inactive convergence stations that were used during S3 production mining are marked in pink and can be used on an as needed basis. The active convergence stations are read semiannually. All data shows typical yield pillar convergence response and the average convergence rate for the last 10 years across all active stations was 0.18 in/year. Convergence data collection will continue as long as safe access to all stations exists and will be reviewed continuously by the Cayuga Mine's Engineering Team and third party consultants to identify any irregular behavior or cause for concern.

2.3 Humidity

A small increase in convergence rate may be anticipated due to increased humidity in the area once water storage begins. The extent of this change is unknown at this time but will be monitored. It is known that seasonal variation of humidity has an effect on the convergence rate of salt mines known as the Joffe effect. This effect has been locally reduced in the south end of the mine due to a major ventilation change that occurred in May 2022 with the commissioning of the #4 Shaft. The introduction of brine to the S3 panels will increase humidity in the area, but is not expected to cause adverse impacts beyond the historical seasonal variations in convergence. Monitoring of humidity and its effects on convergence will continue as water is stored in the S3 workings.



Cargill

Z. Scopa 6-13-23