

December 31, 2008

Cargill Deicing Technology
Cayuga Mine
P.O. Box B 191 Portland Point Road
Lansing, NY 14882

Mr. Matthew Podniesinski
Chief, Resource Development Section
Bureau of Resource Management & Development
Division of Mineral Resources
New York State Department of Environmental Conservation
625 Broadway, Third Floor
Albany, New York 12233-6500

RE: Annual Report for Mine File #709-3-29-0052; Cayuga Salt Mine Application ID#0-9999-00075-00001

Towns of Lansing and Ulysses, County of Tompkins Town of Covert, County of Seneca

Dear Mr. Podniesinski:

Enclosed is an annual report required in accordance with the Special Conditions section (item numbers 7-13) of DEC permit number 0-9999-00075/00001. This report will address each reporting requirement separately (7a, 7b, etc.) and drawings are attached as required requested, all technical data associated with monitoring of mine stability will be sent to J. T. Boyo and Associates with attention to Dr. Vincent Scovazzo.

RECEIVED

JAN - 5 2009

MINTRAL RESOURCES

A second copy of the report is included here for you to distribute to the Region 7 office, or as you see fit.

If any questions arise please bring them to my attention at your earliest convenience

With Best Regards,

Steve Horne

Mine Manager - Cargill Deicing Technology

Cargill Deicing Technology 191 Portland Point Road Lansing, New York 14882

Steve Home

Mail Address: PO Box B Lansing, New York 14882

Tel (607) 533-4221 Fax (607) 533-450

Reporting, Monitoring, and Notifications

7a. Cargill Cayuga Mine Manager Certification:

I, Steven J. Horne, Mine Manager - Cargill Deicing Technology, certify that all min to the best of my knowledge, conducted during the reporting period from January present were in conformance with the DEC Permit # 0-9999-00075/00001 and the an No variances occurred and none were reported.

Signed: Steven J. Home Date: 12/30/08

7b. Summary of all non-routine mining incidents:

The Cayuga Mine is not aware of any non-routine incidents associated with the mini processing, or other mine related activities that would have adversely affected any of following;

- Mine stability
- Ground and surface water
- Natural resources
- Health, safety, welfare or property of the general public

On occasion, the underground production crews encounter rock structures that delay mining plan. A floor rock roll was encountered in the U-58 panel and it was successf over.

7c. 3 Year Mining Plan

Attached are maps depicting the current and proposed mining for the next three years

The Cayuga Mine is currently operating in two different sections of the mine. There development crew that is mining south (S-3) along the west shoreline of Cayuga Lake and ba 4) from S-3 toward the east shore. The rest of the mining is located in the northern region mine where production crews continue to mine panels (U-54, U-56, U-58) to the west completion of U-56, panel U-61 will be started. When U-54 mining is completed panel U be started.

7d. Summary of In-situ Measurements of Rock Mechanics:

The Cayuga Mine continues to collect mine convergence data in accordance with the guideline previously established in the Mined Land Use Plan. Convergence stations are typically the "face" of active tunnels in mining panels with a profile of three stations located in and edges of the panel. The convergence stations are usually read daily during the first then dropped to a weekly schedule until the next profile is installed. The initial profile monitored on a monthly or quarterly schedule for the duration of mining of the panel abandonment of the panel, the convergence stations are monitored quarterly and annual Currently, there are approximately 160 quarterly and 420 annual convergence stations monitored. In addition, about 30 closure stations in the abandoned "east workings" are read about every 2 - 5 years. Those were read in October of this year. Once all of the data from the annual convergence stations have been collected it is evaluated both internally and externally for trends ensure that each panel and the mine is behaving properly.

Evaluation of weekly, quarterly, and annual convergence data indicate that no unusual trends have been identified and the mine is behaving as expected, with the exception of the U-40B area. It has been previously noted that this area is squeezing faster than other areas of the mine of similar layout and age. The closure data indicates that the area is stable, however those rates are ingreen than desired. Monitoring of this area continues at an increased frequency. The salt times backfilling operation was relocated to U-40B to help further stabilize this region. The purpose of the backfill is to limit the total amount of closure that is possible, thus reducing the total possible surface subsidence. That panel is about 70% backfilled at this time and connecting panels are being backfilled as well.

7e. Summary of Subsidence Monitoring:

Surface subsidence measurements continue to be performed in accordance with the Mined Land Use Plan. Surveys of the east shore of Cayuga Lake and the Lansing area were completed during the past 1 ½ years. The results were evaluated by RMA and have been presented to John T. Boyd's Vince Scovazzo for his review. The measurements indicate that the mine is behaving as expected with no anomalous subsidence zones.

7f. Source and Volume of Water Inflow Into the Mine and Disposition of Such Water

The following is a list of sources and associated flow rates of water into the Cayuga Nine

- Production Shaft (#1 shaft) 16 gallons per minute
- Ventilation Shaft (#2 shaft) 4 gallons per minute
- ED Plant Concentrate discharge 7 gallons per minute
- Storm Water Run-off 0 gallons per minute (3 ED stacks now operational)
- Total Water Inflow = 27 gallons per minute

All of the water is directed to a settling pond located on the 4-level of the mine. The water is then pumped from the settling pond to abandoned areas on 4-level. Recent volume calculations indicated that at our current rate (about 11,000,000 gallons per year) we have approximate y 2-years of disposal life remaining on 4-level. The underground storage pond levels have not been checked this year, so the pond limits are estimated based on the measured flow rates. See the attached water inflow table and the pond map.

Action plans are in place to continue to reduce the inflow into the mine over the next year. A system for collecting the #1 shaft water inflow and for pumping it to surface for processing has been designed and funds have been allocated. Construction is under way with an April 2009 completion date. This should result in a reduction of an additional 8 gpm requiring storage (about 4,000,000 gpy).

7g. Summary of SPDES Monitoring Data:

The following is a summary of the past year's outfall results (December 2007 – November 2008 and waste water treatment plant results (December 2007 – November 2008). All outfall exceedances are reported to the DEC in two ways. Once an exceedance has been identified the DEC is informed via telephone of the occurrence. Each event is also captured in the monthly Report of Non-Compliance, which also lists corrective action taken. Several years ago lourness 004 and 005 were physically routed into outfall 003 so there is no longer any data from them.

Outfall results:

Exceedances are noted in red

CHLORIDE

Limit	40K	10K	10K	5K	EV.	<u></u>			
Outfall			·	JK	5K	5K	5K	5K	5 K
Number	001	002	003	004	005	000			
Month/Year				004	005	006	007	008	012
Dec 2007	12,000	3,500	3,100						
Jan 2008	18,000	6,000				1,300	340	Eliminatedi	1 900
Feb	22,000	7,100	4,000			2,300	730	Eliminated	1 200
March	12,000	3,100	1,400			1,200	610	Elminated	NIE
April	15,000		1,600			1,900	430	Ellminated	700
May		920	960			743	260	- Indicated	780
	15,000	920	960			743		# in maded	1,100
June	15,000	920	960				260	#linninated	1,100
July	7,000NF	NF	1,000			743	260	# liminated	1,100
August	23,000	NF	1,100			NF	290	Eliminate d	NF
Sept	37,000	NF	1,900			NF	NF	Eliminated	NF
Oct	13,000	NF				NF	NF	Eliminated	JE
Vov	22,000	NF	1,400			3,600	1,400	Eliminated	VE
	32,000	INI	1,000			2,100	870	Eliminated	UE.

CYANIDE

Limit	1.1	0.1	0.1	0.1	0.1	0.1	0.4		
Outfall Number	001	002	003	004		0.1	0.1	0,1	0.1
Month/Year				004	005	006	007	008	012
Dec 2007	<.01	<.01	<.01						
Jan 2008	<.01	<.01	<.01			<.01	<.01 E	liminated	<.Q
Feb	0.09	<.01	<.01			<.01	<.01 E	liminated	<.0⁴
March	0.043	0.022				<.01	<.01 E	liminated	N
April	0.14	<.01	<.01			<.01	<.01 E		< 0
May	0.14	100	<.01		A 10	<.01	<.01 E	liminated	< ∩1
June	0.14	<.01	<.01			<.01	<.01 E		< ∩1
July	0.094	<.01	<.01		1 (30)	<.01	<.01 EI		- 04
August	3 7 7 7 7 7	NF	<.01			NF		iminated	7.0
AND AND LINES AND ADDRESS.	0.01	NF	<.01			NF			IVE
Sept	0.092	NF	<.01	ACLES A				iminated	NA NA
Oct	0.19	NF	<.01			NF	NF EII	minated	NF
Vov	0.13	NF	0.025			<.01	<.01 Eli	minated	NF
			0.025			0.015	<.01 Eli	minatad	NE

Outfall Results Continued:

TOTAL DISSOLVED SOLIDS

Limit	80K	40K	40K	10K	10K	10K	10K		lok			4 0	
Outfall Number	001	002	003	004	005	006	007		008			O.	2
Month/Year					Seed March						Ш	1	
Dec 2007	22,000	6,500	5,700			2,800	870	Eli	nin	ated		3	700
Jan 2008	42,000	10,000	7,200			4,400	1,600	Eli	nin	ateo		2	60b
Feb	37,000	12,000	3,100			2,400	1,500	Elir	-	ated			former
March	22,000	5,800	3,300			3,900	1,100	Elir	1	atec		1	700
April	36,000	2,500	2,700			1,900	980	Elir	nin	ated	Ш	2	600
May	36,000	2,500	2,700			1,900	980	Elir	nin	ated		2	6 0 0
June	36,000	2,.500	2,700		18	1,900	980	Elir	-	atec		2	600
July	14,000	NF	2,900			NF	1,300	Elir		atec	Ш		NE
August	38,000	NF	3,000			NF	NF	Elir	-	atec	200		NE
Sept	62,000	NF	4,000			NF	NF	Elir		atec	Ш		NE
Oct	21,000	NF	3,500			5,700	2,800	Elir	-	ater			N.
Nov	39,000	NF	2,800			4,500	2,200	Elir		atec			N#

ZINC	Outfall #001
Limit	20 mg/l
Month/Year	001
Dec 2007	0.19
Jan 2008	0.21
Feb.	0.79
March	0.84
April	<.01
May	<.01
June	<.01
July	0.034
August	0.13
Sept	1.4
Oct	0.016
Nov	0.03

Outfall Results Continued:

NON-CONTACT COOLING WATER Outfall #014

Limit	NA	75 deg. Max	500 GPM Max
Month/Year		Min/75 Max Effluent Water Temp. deg. F.	500 Max Gpm. Flow Rate Effluent Gross
Dec 2007	43/45	43/49	210
Jan 2008	39/40	41/44	260
Feb.	38/38	40/40	160
March	37/38	40/41	400
April	53/53	54/54	325
May	53/53	54/54	325
June	53/53	54/54	325
July	72/73	73/73	350
August	71/72	72/73	380
Sept	70/72	72/74	350
Oct	65/67	65/68	300
Nov	60/65	60/65	300

Waste Water Treatment Plant Outfall #009

				2 5 11	59				Total Resi	d	Fed	al	Colif	form	
	Flow Rate	Flow Rate BOD		PH. Tot. Su		sp. Solids	Settleable	Chlorine		#	Pe	r 100	0 m		
	Ave.	Ave.	Max.	Min.	Max.	Ave.	Max.	Solids	Max.		Ave		W	ах.	
		30 Day	7 Day Ave			30 Day	7 Day Ave	Daily Max.	Daily Ave		O D	ау	7 De	AV	ve
Permit Limit		30	45	6.0	9.0	30	45	0.3 mg/l	1.0 mg/l		Repo	rt l	Repo	p rt	
Nov. '07	1025	16.2	16.2	6.5	7.5	9.0	9.0	<0.1	1.0		195.	0	19	15 0	
Dec	1026	17.1	17.1	7.5	8.2	30.0	30.0	<0.1	0.5		60.0	þ	b	0 0	
Jan.'08	1215	10.5	10.5	6.9	7.7	42.5	42.5	<0.1	0.4		72.0		l r	20	
Feb.	1549	9.9	9.9	6.5	7.1	31.5	31.5	<0.1	1.0		16		H	6.0	
March	1165	5.4	5.4	6.7	7.6	26.0	26.0	<0.1	0.8		2.0			2.0	
April	951	4.8	4.8	6.5	6.9	16.0	16.0	<0.1	0.6		30.0	þ	3	00	
May	831	6.9	6.9	6.5	6.8	15.0	15.0	<0.1	1.0	Ш	1.0	Ш		10	
June	965	1.0	1.0	6.5	7.2	2.0	2.0	<0.1	0.9		10.			00	
July	787	3.6	3.6	6.6	6.9	12.0	12.0	<0.1	1.0		49.		I A	90	
August	1108	12.9	12.9	6.5	7.2	15.0	15.0	<0.1	1.5		20.	111	12	O C	
Sept	1198	9.0	9.0	6.5	7.0	28.0	28.0	<0.1	0.9		1.0	Ш		1.0	
Oct	1058	3.0	3.0	6.5	7.4	28.0	28.0	<0.1	0.9		1.0	Ш		10	
Nov	1163	3.0	3.0	6.5	7.5	30.0	30.0	<0.1	0.5	Ш	120	0	11	20 0	4

^{8.} Notification of Non-routine Mining Incidents: See section 7b.

9. MSHA Correspondence Involving Non-routine Mining Incidents:

The Cayuga Mine has not received any citations from MSHA regarding non-routine mining Incidents.

10. Changes in Mining Method:

There have been no changes to the Cayuga Mine layout in the past year.

11. Surface Subsidence:

Surface subsidence surveys continue to be done in accordance with the Mined Land Use Plan. See section 7e of this report.

12. In-situ Rock Mechanics Measurements:

See section 7d of this report.

13. Written Citizen Complaints:

There have been no written citizen complaints received by Cargill concerning the Cayuga Vine

Water Volume Calculation Ultimate Pond Potential Volume 1-Jan-09

			1-0411-05			AND THE PERSON OF THE PARTY OF	
	Total	Pillar	Fillable	Roof			
Area	Area	Area	Area Ft2	Height	Volume	Gallons	
Far East Pond	6,598,278	2,831,750	3,766,528	12	45,198,336	338,083,553	
Overflow Basin	832,750	64,788	767,962	10	7,679,620	57,443,558	
Small Pond #2	128,409	0	128,409	7	898,863	6,723,495	
Bowl Edge Pond	Not planned						
Small Pond #1	Not planned						
Southern Pond	Not planned						
Total Gallons						402,250,606	
Incoming gallons	per year @ 400	nm				21,021,000	
Ultimate Pond Life						19	
			00 = (6 Feb 200)	1 - 1 Jan 200)5)	80,592,000	
Water added = (46 months/12 mo.) X 21,024,000 = (6 Feb 2001 - 1 Jan 2005) Water added during 2005 (measured)							
Water added during 2006 (measured)							
Water added during 2007 (measured)							
Water added duri						13,507,200 10,886,400	
Volume remaining	•					262,961,877	
Remaining Pond		100 1/1				24.2	

Pond volumes are calculated by using the "area" function of Auto Cad. A polygon is drawn around the perimeter of the entire pend and Auto Cad is used to calculate the area of the polygon (in square feet). A polygon is drawn around each individual pillar within the pend limits and an area is calculated using Auto Cad. The pillar area's are subtracted from the total area to give the total pend area. Roof heights are determined by visual inspection, historical information where available, and the use of raw estimates.



January 7, 2009

Cargill Deicing Technology Cayuga Mine 191 Portland Point Road P.O. Box B Lansing, NY 14882

Mr. Matthew Podniesinski Chief, Resource Development Section Bureau of Resource Management & Development Division of Mineral Resources New York State Department of Environmental Conservation 625 Broadway, Third Floor Albany, New York 12233-6500

Annual Report for Mine File #709-3-29-0052; Cayuga Salt Mine RE: Application ID#0-9999-00075-00001 Towns of Lansing and Ulysses, County of Tompkins Town of Covert, County of Seneca

Dear Mr. Podniesinski:

Enclosed is a third set of the maps submitted with the above referenced report for your there is anything else you need, please don't hesitate to let me know.

RECEIVED

JAN 1 2 2009

DIVISION OF

MINERAL RESOURCES

With Best Regards,

David B. Plumeau, P.E. Senior Mine Engineer Cargill Deicing Technology Cayuga Mine

Phone: 607-533-3736

e-mail: dave plumeau@cargill.com