



January 4, 2008

Cargill Deicing Technology
Cayuga Mine
191 Portland Point Road
Lansing, NY 14882
Phone: (607) 533-4221

Mr. Steven M. Potter
Chief, Mined Land Reclamation Section
Bureau of Resource Management & Development
Division of Mineral Resources
New York State Department of Environmental Conservation
625 Broadway Third Floor
Albany, NY 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. Potter:

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. As requested, all technical data associated with monitoring of mine stability will be sent to J.T. Boyd and Associates with attention to Dr. Vincent Scovazzo.

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.

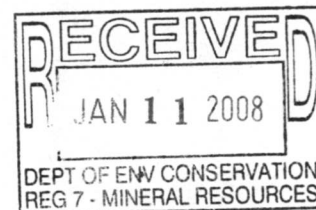
With Best Regards,

Steve Horne

Mine Manager – Cargill Deicing Technology

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

Mail Address:
PO Box B
Lansing, New York 14882



Tel (607) 533-4221
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Reporting, Monitoring, and Notifications

7a. Cargill Cayuga Mine Manager Certification:

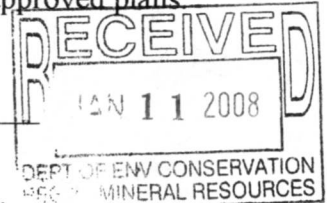
I, Steven J. Horne, Mine Manager – Cargill Deicing Technology, certify that all mining activities, to the best of my knowledge, conducted during the reporting period from January 6, 2007 to present were in conformance with the DEC Permit # 0-9999-00075/00001 and the approved plans. No variances occurred and none were reported.

Signed: _____

Steven J. Horne

Date: _____

1/4/08



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

The Cayuga Mine is not aware of any non-routine incidents associated with the mining, processing, or other mine related activities that would have adversely affected any of the 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 or hinder our mining plan. A small floor rock roll was encountered in the U-59 panel and it was successfully mined through. The E-3 panel encountered a rock roll that caused the mine to stop the mining there. As such, the S-3 panel was restarted.

7c. 3 Year Mining Plan

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

- Attachment 1A – 3 Year Mine Plan for the Northern Region
- Attachment 1B – 3 Year Mine Plan for the Southern Region
- Attachment 1C – Large Mine map showing current extent of mining and three year mining plan

The Cayuga Mine is currently operating in two different sections of the mine. There is one development crew that is mining south (S-3) along the west shoreline of Cayuga Lake. The rest of the mining is located in the northern region of the mine where production crews continue mine panels (U-54, U-59, U-56) to the east and west. Upon completion of U-59, U-61 will be started. To improve operational efficiency, a fifth mining panel is being started in U-58.

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

The Cayuga Mine continues to collect mine convergence data in accordance with the guidelines previously established in the Mined Land Use Plan. Convergence stations are typically installed at the "face" of active tunnels in mining panels with a profile of three stations located in the center and edges of the panel. The convergence stations are usually read daily during the first week and then dropped to a weekly schedule until the next profile is installed. The initial profile will then be monitored on a monthly or quarterly schedule for the duration of mining of the panel. After abandonment of the panel, the convergence stations are monitored quarterly and annually. Currently, there are approximately 150 quarterly and 400 annual convergence stations being

monitored. Once all of the data from the annual convergence stations have been collected it is evaluated both internally and externally for trends to 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, in that the closure rates continue to decrease, however those rates are higher than desired. Monitoring of this area continues at increased frequency of twice per month. The salt "fines" backfilling operation was relocated to U-40B in August 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.

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 have been completed and the data is being analyzed. A survey is underway of the west lakeshore at this writing. The results are going to be presented to John T. Boyd's Vince Scovazzo as soon as they are completed.

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 Mine:

- Production Shaft (#1 shaft) – 13 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 = 24 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 we have approximately 20 years of disposal life remaining on 4-level. See the attached water inflow table and the pond map. Action plans are in place to continue reduce the inflow into the mine over the next 3 years. The second expansion of the storm water ED treatment plant has been commissioned and is operational. This has reduced the storm water run-off that is entering the mine from about 18 gpm to near 0 gpm. A system for collecting the #1 shaft water inflow and pumping it to surface for processing through the ED plant has been designed and funds have been allocated. Construction should be complete by October of 2008, resulting in a reduction of an additional 8 gpm. The underground storage pond levels were checked in November to verify the predictions of remaining storage life.

7g. Summary of SPDES Monitoring Data:

The following is a summary of the past year's outfall results (November 2006-2007) and waste water treatment plant results (November 2006-2007). All outfall exceedances are reported to the DEC in two ways. Once an exceedance event 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.

Outfall results:

Exceedances are noted in red

CHLORIDES

Permit Limit	OUTFALLS								
	#001	#002	#003	#004	#005	#006	#007	#008	#012
	40,000 mg/l	10,000 mg/l	10,000 mg/l	5,000 mg/l	5,000 mg/l	5,000 mg/l	5,000 mg/l	5,000 mg/l	5,000 mg/l
Month/Year									
Nov 2006	21,000	3,600	880			980	380	NF	2,100
Dec	26000	1300	920	5900	NF	890	310	NF	680
Jan 2007	9,200	1,100	910			950	300	NF	1,600
Feb	11,000	NF	730			1,100	820	NF	NF
March	26,000	7,200	3,800	Combined w/3&5	Combined w/4&3	NF	NF	NF	NF
April	6,900	2,600	3,200			980	230	NF	810
May	15,000	300	1,100			860	350	NF	650
June	6,500	1,800	900			1,400	410	Eliminated	3,200
July	15,000	1,200	1,200			NF	NF	Eliminated	NF
August	11,000	NF	1,800			2,100	990	Eliminated	4,650
Sept	7,900	2,300	810			NF	NF	Eliminated	3,600
Oct	27,000	2,500	1,400			1,300	600	Eliminated	2,000
Nov	36,000	6,200	1,100			1,200	570	Eliminated	3,200

NF = NO FLOW

WAD CYANIDE

Permit Limit	OUTFALLS								
	#001	#002	#003	#004	#005	#006	#007	#008	#012
	1.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l
Month/Year									
Nov 2006	0.12	<.01	<.01			<.01	<.01	NF	<.01
Dec	<.01	<.01	<.01	0.015	NF	<.01	<.01	NF	<.01
Jan 2007	0.19	<.01	<.01			0.01	<.01	NF	<.01
Feb	0.035	NF	<.01			0.01	<.01	NF	NF
March	0.09	0.011	<.01	Combined w/3&5	Combined w/4&3	NF	NF	NF	NF
April	0.11	0.048	0.058			<.01	<.01	NF	<.01
May	0.099	<.01	<.01			<.01	<.01	NF	<.01
June	<.01	<.01	<.01			<.01	<.01	Eliminated	<.01
July	0.04	<.01	<.01			NF	NF	Eliminated	NF
August	0.049	NF	<.01			<.01	<.01	Eliminated	<.01
Sept	0.013	<.01	<.01			NF	NF	Eliminated	<.01
Oct	0.31	<.01	<.01			0.011	<.01	Eliminated	<.01
Nov	0.14	<.01	<.01			<.01	<.01	Eliminated	<.01

NF = NO FLOW

Overall results
Exceeding the norm in red
CHLORIDES

Point	#001	#002	#003	#004	#005	#006	#007	#008	#012
Point Limit	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l	10.000 mg/l
Nov-2006	21.000	23.800	28.0			28.0			21.00
Dec	25.000	17.00	8.0	20.0	17	30.0	2.10		28.0
Jan-2007	2.500	1.00	3.10			0.0	2.00		1.000
Feb	17.000	17.0	15.0			1.00	8.00		17
March	20.000	1.000	0.800	0.000	0.000	17	17		17
April	0.900	2.800	2.000			0.0	2.00		0.0
May	18.000	0.0	1.700			0.0	0.0		8.0
June	8.500	1.000	0.0			1.00	4.10	Eliminated	2.000
July	18.000	1.000	1.000			17	17	Eliminated	17
August	11.000	17	1.800			3.00	0.0	Eliminated	4.800
Sept	1.500	2.0.0	8.0			17	17	Eliminated	2.000
Oct	27.000	2.800	1.000			1.800	8.0	Eliminated	2.000
Nov	38.000	6.000	1.100			1.000	2.0	Eliminated	2.000

WAD CYNIDE

OUTFALLS

Point	#001	#002	#003	#004	#005	#006	#007	#008	#012
Point Limit	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l	0.1 mg/l
Nov-2006	0.12	<01	<01			<01	<01		<01
Dec	0.01	<01	0.015	17	17	<01	<01		<01
Jan-2007	0.10	<01	<01			0.01	<01		<01
Feb	0.038	17	<01			0.01	<01		17
March	0.09	0.011	<01			17	17		17
April	0.11	0.040	0.025			<01	<01		<01
May	0.069	<01	<01			<01	<01		<01
June	0.01	<01	<01			<01	<01	Eliminated	<01
July	0.04	<01	<01			17	17	Eliminated	17
August	0.046	17	<01			<01	<01	Eliminated	<01
Sept	0.013	<01	<01			17	17	Eliminated	<01
Oct	0.01	<01	<01			0.011	<01	Eliminated	<01
Nov	0.14	<01	<01			<01	<01	Eliminated	<01

Outfall Results Continued:

TOTAL DISSOLVED SOLIDS

	OUTFALLS								
	#001	#002	#003	#004	#005	#006	#007	#008	#012
Permit Limit	80,000 mg/l	40,000 mg/l	40,000 mg/l	10,000 mg/l	10,000 mg/l	10,000 mg/l	10,000 mg/l	10,000 mg/l	10,000 mg/l
Month/Year									
Nov 2006	34,000	7,000	2,500			2,000	1,000	NF	4,400
Dec	42000	3200	2300	8900	NF	1900	940	NF	1400
Jan 2007	17,000	3,000	2,500			2,000	960	NF	3,300
Feb	21,000	NF	1,900			2,500	2,000	NF	NF
March	37,000	11,000	6,300	Combined w/3&5	Combined w/4&3	NF	NF	NF	NF
April	11,000	5,100	6,400			2,400	1,100	NF	2,000
May	25,000	2,700	2,700			1,900	1,000	NF	1,600
June	11,000	2,800	2,600			2,600	1,400	Eliminated	6,500
July	26,000	2,500	2,900			NF	NF	Eliminated	NF
August	20,000	NF	4,000			4,200	2,300	Eliminated	8,050
Sept	14,000	4,000	2,200			NF	NF	Eliminated	7,000
Oct	43,000	4,900	3,400			3200	1700	Eliminated	4,300
Nov	55,000	10,000	2,600			2,700	1,400	Eliminated	5,800

NF = NO FLOW

Waste Water Treatment Plant.
#009

Nov. '06 - Nov. '07

Nov. '06 - Nov. '07										Total Resid.	Fecal Coliform	
Permit Limit	Flow Rate	BOD		PH.		Tot. Susp. Solids		Settleable	Chlorine Max. Daily Ave.	# Per 100 ml		
	Ave.	Ave.	Max. 7 Day Ave	Min.	Max.	Ave.	Max.	Solids		Ave.	Max.	
		30 Day				30 Day	7 Day Ave	Daily Max.		30 Day	7 Day Ave	
		30	45	6.0	9.0	30	45	0.3 mg/l	1.0 mg/l	Report	Report	
Nov. '06	806	1.0	1.0	6.9	7.6	28.5	28.5	<0.1	1.0	1.0	1.0	
Dec	903	1.2	1.2	7.3	8.1	12.0	12.0	<0.1	1.0	1.0	1.0	
Jan.'07	882	7.8	7.8	6.0	8.0	25.0	25.0	<0.1	1.0	300.0	300.0	
Feb.	1144	30.0	30.0	6.9	8.8	36.0	36.0	<0.1	1.0	1.0	1.0	
March	649	25.8	25.8	7.5	9.0	58.5	58.5	<0.1	1.0	1.0	1.0	
April	880	12.0	12.0	7.0	8.8	18.5	18.5	<0.1	1.0	235.0	235.0	
May	888	15.0	15.0	7.8	8.9	14.0	14.0	<0.1	1.0	28.0	28.0	
June	708	26.4	26.4	6.9	8.9	25.0	25.0	<0.1	1.0	1.0	1.0	
July	7.8	4.2	4.2	7.8	9.0	2.0	2.0	<0.1	1.0	30.0	30.0	
August	593	4.5	4.5	7.9	9.0	2.3	2.3	<0.1	0.4	4.0	4.0	
Sept	826	1.2	1.2	7.6	8.6	6.0	6.0	<0.1	0.6	5.0	5.0	
Oct	945	1.0	1.0	6.8	8.0	25.0	25.0	<0.1	1.2	4.0	4.0	
Nov	1025	16.2	16.2	6.5	7.5	9.0	9.0	<0.1	1.0	195.0	195.0	

OUTFALL RESULTS - Continued

Month	Year	Flow	Temp	pH	Dissolved Oxygen	Ammonia	Nitrite	Nitrate	Total Solids	Settleable Solids	Chlorophyll
Nov	2003	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Dec	2003	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jan	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Feb	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Mar	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Apr	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
May	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jun	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jul	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Aug	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Sep	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Oct	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Nov	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000

Waste Water Treatment Plant

Month	Year	Flow	Temp	pH	Dissolved Oxygen	Ammonia	Nitrite	Nitrate	Total Solids	Settleable Solids	Chlorophyll
Nov	2003	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Dec	2003	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jan	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Feb	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Mar	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Apr	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
May	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jun	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Jul	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Aug	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Sep	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Oct	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000
Nov	2004	10,000	10.000	7.500	2.500	0.000	0.000	0.000	10.000	10.000	10.000

Outfall Results Continued:

ZINC

Outfall #001

Permit Limit	20mg/l
Month/Year	
Nov 2006	0.17
Dec	0.012
Jan 2007	0.033
Feb.	0.081
March	0.19
April	0.012
May	0.092
June	0.011
July	0.04
August	0.069
Sept	0.065
Oct	0.023
Nov	0.9

NON CONTACT COOLING WATER

Outfall #014

Permit Limit	Min/Max	Min/75 Max	500 Max Gpm.
Month/Year	Intake Water	Effluent Water	Flow Rate
	Temp. deg. F.	Temp. deg. F.	Effluent Gross
Nov 2006			
Dec			
Jan 2007			
Feb.			
March	Under constr		
April	Under constr		
May	Under constr		
June	Under constr		
July	Not operational		
August	Not operational		
Sept	Not operational		
Oct	Start up process		
Nov	Start up process		

Outlet Results Continued

Outlet #001

Month	Temp. deg. F	Flow Rate	Min/Max
Nov 2006	0.17	0.012	
Dec	0.012		
Jan 2007	0.012		
Feb	0.012		
Mar	0.012		
Apr	0.012		
May	0.012		
June	0.012		
July	0.012		
Aug	0.012		
Sept	0.012		
Oct	0.012		
Nov	0.012		

NON CONTACT COOLING WATER

Outlet #002

Month	Temp. deg. F	Flow Rate	Min/Max
Nov 2006			
Dec			
Jan 2007			
Feb			
Mar			
Apr			
May			
June			
July			
Aug			
Sept			
Oct			
Nov			

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 Mine.

