NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Flood Protection and Dam Safety 625 Broadway, Albany, New York 12233-3504 P: (518) 402-8185 | F: (518) 402-9029 www.dec.ny.gov

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

October 28, 2019

William Bill Chase Supervisor, Town of Dannemora 78 Higby Road Ellenburg Depot Dannemora, NY 12935

Re: Notice of Condition Rating – Unsound, Deficiency Recognized Chazy Lake Dam DEC Dam ID#: 199-0282 Dannemora (T), Clinton County

Dear Supervisor Chase:

I conducted a routine visual inspection at the above referenced dam on October 15, 2019 as part of the Department of Environmental Conservation's (Department) ongoing Dam Safety program. I am writing to you because it is my understanding that you represent the owner of this structure. A copy of my Visual Observations is enclosed.

The left/right nomenclature used in this letter and in the enclosed Visual Observation Report is based on looking downstream from the center of the service spillway at the dam's crest.

The condition of the dam is similar to the condition noted in the previous inspection. The observations noted in the enclosed visual observations are primarily maintenance items. These items should be addressed during your ongoing maintenance program.

The Compliance Status Table below details the dam's current compliance status for those sections of the regulations that had or have specific deadlines for compliance.

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	Citation	Requirement	<u>Status</u>							
	673.6	Develop and implement a written Inspection &	Certified to as							
		Maintenance Plan (I&M Plan). Owner to retain the Plan	complete on an							
		in good order and certify annually to the Department	annual basis on							
		that it is complete. Guidance can be found at	Annual Certification							
		http://www.dec.ny.gov/lands/4991.html.	Form.							

Compliance Status Table:



673.7	Develop and distribute to the local emergency responders an Emergency Action Plan (EAP). EAP should be updated on an annual basis. Guidance for developing an EAP can be found at: <u>http://www.dec.ny.gov/lands/4991.html</u>	VIOLATION - EAP submitted on 10/23/2009. Submit updated EAP immediately.
673.8	Submit an Annual Certification to the Department January 31 of each year (certification is for the previous year). An annual certification form can be found at: http://www.dec.ny.gov/lands/58691.html	2018 Annual Certification received on 5/30/2019.
673.13	Complete and submit to the Department an Engineering Assessment (EA) by August 19, 2015. EA must be performed by a New York State Professional Engineer. The EA must be updated every 10 years after the initial submittal. EA guidance is available at: <u>http://www.dec.ny.gov/docs/water_pdf/damfengarpt.pdf</u> .	EA received on 6/30/2015.

Condition Rating

Due to the reported inadequate spillway capacity and structural stability of the embankment in the EA and the compliance issue in the table above, a **Condition Rating** of "**Unsound, Deficiency Recognized**" is hereby assigned to the Chazy Lake Dam. This Condition Rating means that the dam has several deficiencies which could be considered significant. These deficiencies are of such a nature that the safety of the dam cannot be assured. **The owner of a dam with a Condition Rating of Unsound is in violation of 6 NYCRR Part 673 and ECL Article 15 Section 0507.**

<u>A written response to the Department is required of you within 30 days of the</u> <u>date of this letter.</u> Your responsive letter must describe your plans, including a schedule, for bringing the dam into compliance and submission of an updated EAP. The EAP update is long overdue and needs to be expeditiously submitted to the Department and distributed to all Plan Holders.

Please keep in mind that any repair or construction activities related to the dam may require permits from the Department. Well before beginning any work on the dam, please check with the Regional Permit Administrator at the Department's Region 5-Ray Brook office (518-897-1234) to verify if any permits will be required.

If you have any questions regarding this letter, or the Dam Safety program in general, please contact me at (518) 402-9668.

Sincerely,

5. N. Alam

Syed Alam, P.E. Professional Engineer 1 Dam Safety Section

ec w/ enc: Madisen Hetman, NYSDEC, Region 5, Dam Safety Representative Director, Clinton County Emergency Management Office



Visual Observations

DAM NAME Cha		Chazy Lake	e Dam						
STATE ID 199-028		199-0282		SECTION	D	HAZAR	RD CODE	С	
COUNTY Clinton					INSPEC	CTION DATE	8/15/2019		
NEAREST OWNER'S	DS CITY/T NAME	OWN	Jerusalem TOWN OF DANNEMORA			INSPECTOR(S)		SNA/MLH	
DOWNSTREAM HAZARD			High			TOWNSHIP		Town of Dannemora	
WATER LE	EVEL BEHIN	ND DAM	~2 inches above primary spillway crest						
DRAIN OPERATION			Operational						
DEFICIENCIES									
	1)Seepage 2)Slope Stability 3)Undesirable Growth			 4)Maintenance 5)Surficial Deterioration 6)Voids 		n [] 7)Cracki n [] 8)Moven [] 9)Data		ng nent/Misalignment	
Inspected with Eric Whitman (town staff)Right dam:									

- -creacked and spalled concrete on upstream slope
- -Auxiliaary spillway:
- -earth erosion upstream of spillway
- -Mid dam:
- -Well maintained
- -Left dam:
- -No erosion resistant cover on downstream slope

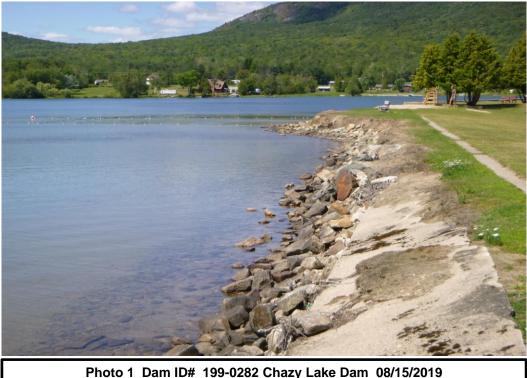


Photo 1 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Upstream slope of right dam



Photo 2 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Ridht dam crest



Photo 3 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Upstream slope of right dam



Photo 4 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Right dam crest

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Photo 6 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Deteriorated concrete on upstream slope of right dam

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Photo 8 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Upstream slope of mid dam

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Photo 10 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Downstream slope of mid dam

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Photo 12 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Downstream slope left dam

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Photo 13 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Upstream slope of left dam



Photo 14 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Left dam crest





Photo 16 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Downstream slope of left dam

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Photo 17 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Downstream view of primary spillway



Photo 18 Dam ID# 199-0282 Chazy Lake Dam 08/15/2019 Downstream slope of left dam

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