REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
MARCH 12, 2024 – MAYFIELD

HUDSON RIVER AREA - FEBRUARY SUMMARY

Reservoir Operation

Great Sacandaga Lake

The February average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 4,030 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for February 28 is 749.46 feet (ft). The release of water from Great Sacandaga Lake was consistent with the Upper Hudson/Sacandaga River Offer of Settlement.

Table 1.0 - *Great Sacandaga Lake Elevation and Release*

Date	Daily Average Elevation (ft,NAVD)[4]	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Jan. 31	765.65	+15.29	+15.15	0	2,570
Feb. 28	760.4 (e)	+13.5 (e)	+11.0 (e)	0	4,000 (e)

Notes: (1) Difference between current reservoir elevation and historic average or Level 3
(2) Release established by Regulating District
(3) "(e)" represents estimated value
(4) "NAVD" is North American Vertical Datum

Indian Lake Reservoir

The February average daily release from Indian Lake was approximately 440 cfs.

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	Daily Average Elevation (1) (ft, NAVD)	Deviation (ft)		Release (cfs)
		From Average	From Target	
Jan. 31	1,641.12	-0.54	+1.97	527
Feb. 28	1,637.4 (e)	-2.7 (e)	-0.6 (e)	179 (e)

Notes: (1) Local datum = NAVD elevation + 1617.63ft; spillway crest = 1651.01ft (33.38ft)
(2) "(e)" represents estimated value

HUDSON RIVER AREA - FEBRUARY SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 6,170 cfs on February 25 and approximately 1,220 cfs above the historic average flow.

Table 3.0 - *Sacandaga, Indian, and Hudson River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (2) (cfs)
Sacandaga at Hope	890 (e)	736
Sacandaga at Stewarts Bridge	4,000 (e)	2,830
Indian at Indian Lake Dam	520 (e)	393
Hudson at Hadley (1)	2,920 (e)	2,050

Notes: (1) Above confluence with Sacandaga River
(2) Based on USGS records
(3) "(e)" represents estimated value

Precipitation

Monthly total precipitation measured 17%, 18%, and 15% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of February 26

Table 4.0 - *Hudson River Basin Precipitation - as of February 26*

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	0.41	2.39
Mayfield	0.51	2.90
Conklingville	0.44	2.95

HUDSON RIVER AREA - FEBRUARY SUMMARY- continued

Operation Overview

Precipitation during the month of February was below normal across the Great Sacandaga Lake watershed and below average in the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 106% and 96% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 144% and 143% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period February 1, 2024 through February 25, 2024 is attached. This report includes estimated forecast values for dates after February 25, 2024.

Hudson River Area Staff Activities

Staff completed routine maintenance and operations activities during the month.

A summary of Regulating District staff activities and work projects at the dam facilities is attached in the Operations Manager's Report.

BLACK RIVER AREA – FEBRUARY SUMMARY

Reservoir Operations

Stillwater Reservoir

The February average daily release from Stillwater Reservoir was approximately 600 cfs. The maximum discharge for the month was 600 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NAVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Jan. 31	1,671.45	+1.72	600
Feb. 28	1,667.8 (e)	+1.2 (e)	600 (e)

Notes: (1) Difference between current reservoir elevation and historic average
(2) "(e)" represents estimated value

Sixth Lake Reservoir

The February average daily release from Sixth Lake Reservoir was approximately 44 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Jan. 31	1,780.85	-1.28	77
Feb. 28	1,780.1 (e)	-1.6 (e)	34 (e)

Notes: (1) Local datum = USGS datum
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

Old Forge Reservoir

The February average daily release from Old Forge Reservoir was approximately 96 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Jan. 31	1,703.58	-0.42	265
Feb. 28	1,703.4 (e)	-0.2 (e)	97

Notes: (1) Local Datum = USGS elevation
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

BLACK RIVER AREA - FEBRUARY SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 3,300 cfs on February 25

Table 4.0 - *Moose, Independence, Beaver, and Black River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (1) (cfs)
Moose at McKeever	1,319 (e)	912
Beaver at Croghan	840 (e)	721
Black at Watertown	4,610 (e)	3,820

Notes: (1) Based on USGS records
(2) "(e)" represents estimated value
(3) Stage and flow affected by ice in river

Precipitation

Monthly total precipitation measured 29%, 47%, 44% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of February 27.

Table 5.0 - *Black River Basin Precipitation - as of February 27*

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	0.84	2.86
Old Forge	1.47	3.10
Sixth Lake	1.16	2.63

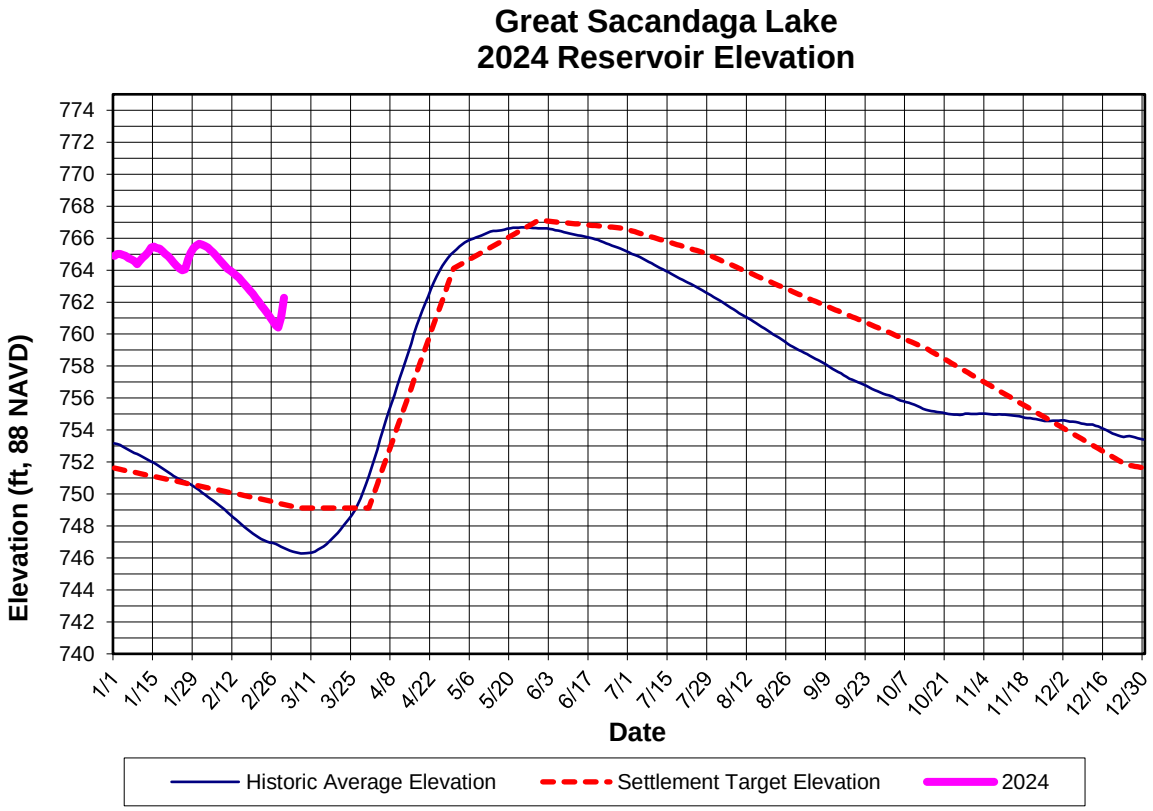
BLACK RIVER AREA - FEBRUARY SUMMARY - continued

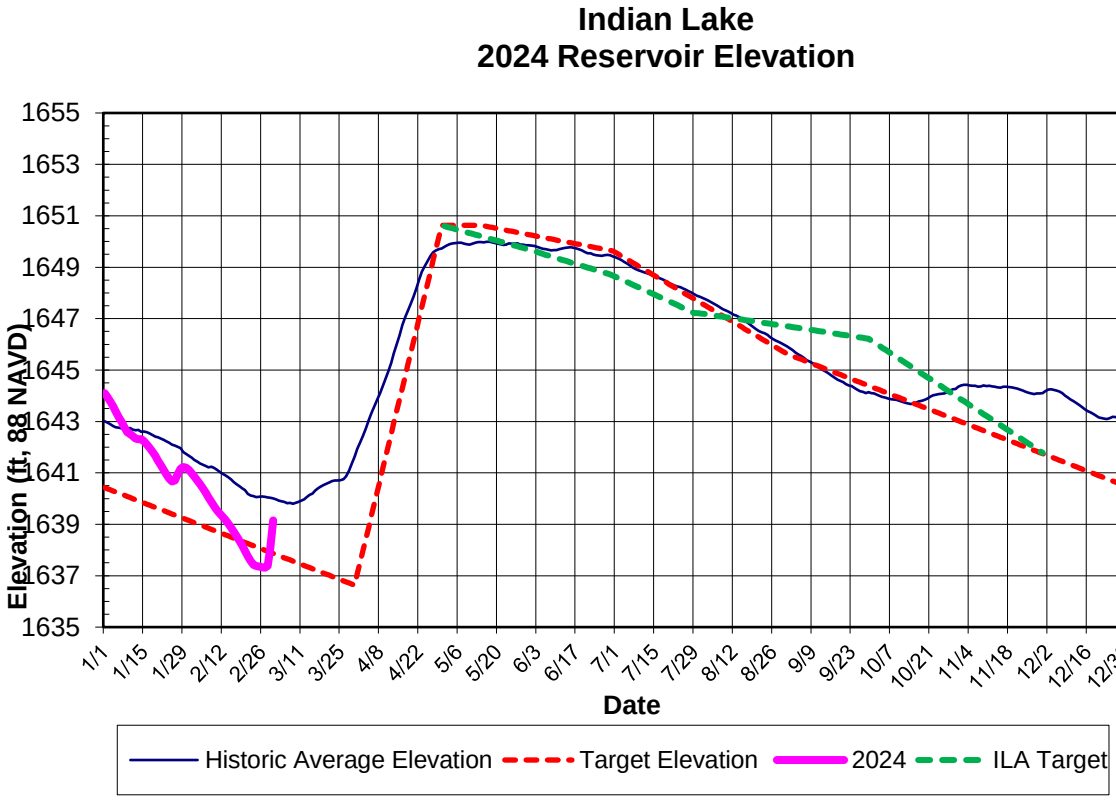
Operation Overview

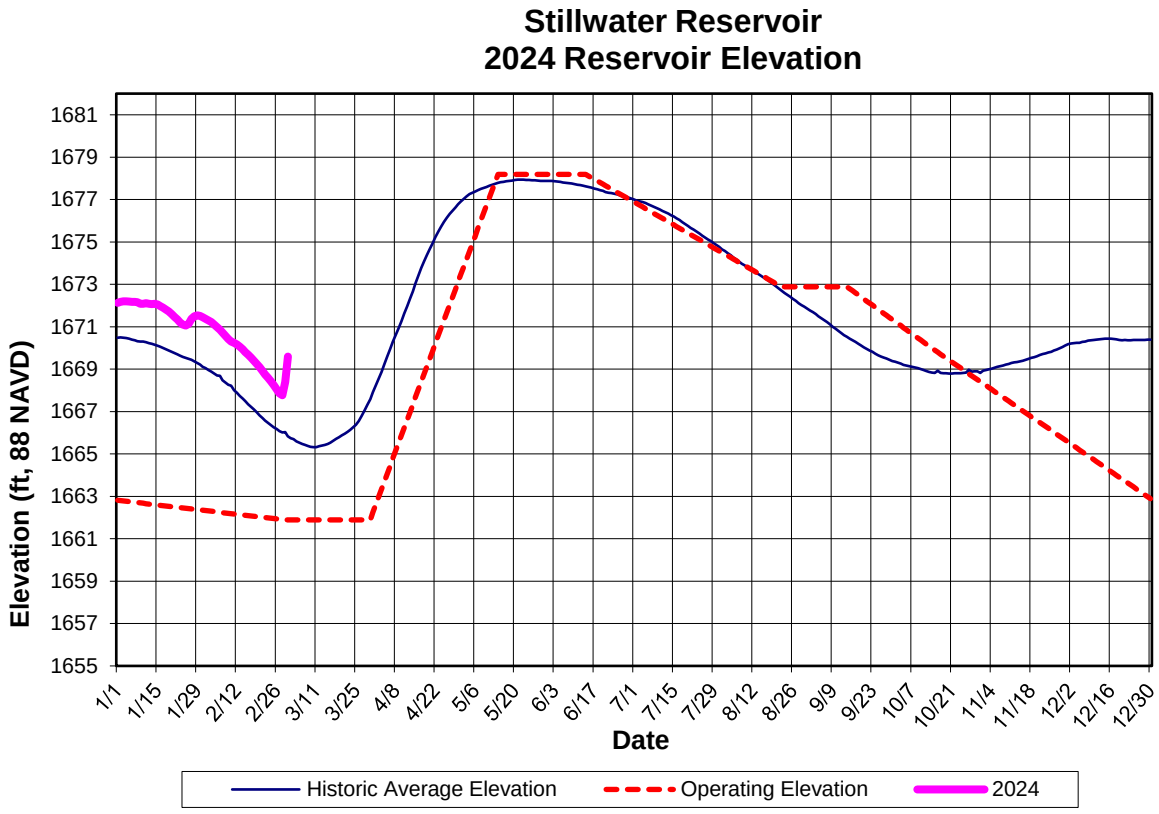
Precipitation in the month of February was below average at Stillwater and below average at Sixth Lake and Old Forge Reservoir. The monthly inflow to Stillwater Reservoir was approximately 98% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.08 and 0.20 billion cubic feet, or 73% and 83% of historic average, respectively, in February. Release of water from Stillwater Reservoir provided 110% of historic monthly average discharge.

Black River Area Staff Activities

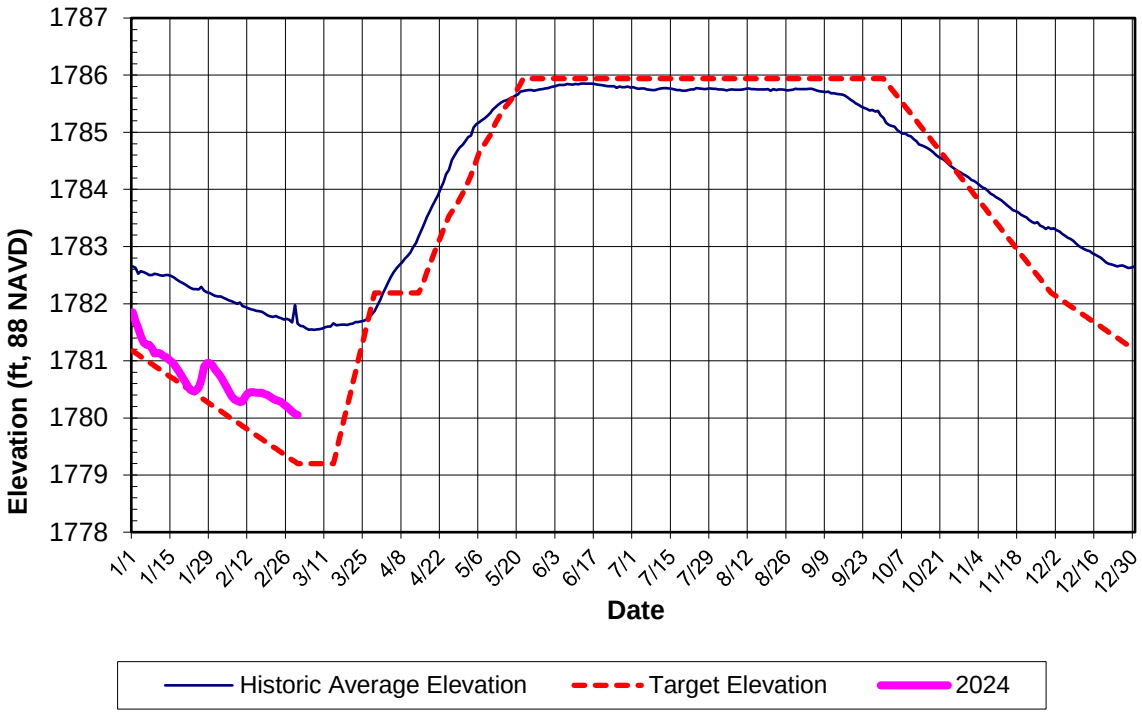
A summary of Regulating District staff activities and work projects at the dam facilities is attached in the Superintendent's Report.


Great Sacandaga Lake
2024 Reservoir Elevation
Elevation (ft, 88 NAVD)
774
772
770
768
766
764
762
760
758
756
754
752
750
748
746
744
742
740
1/1
1/15
1/29
2/12
2/26
3/11
3/25
4/8
4/22
5/6
5/20
6/3
6/17
7/1
7/15
7/29
8/12
8/26
9/9
9/23
10/7
10/21
11/4
11/18
12/2
12/16
12/30
Date
Historic Average Elevation
Settlement Target Elevation
2024

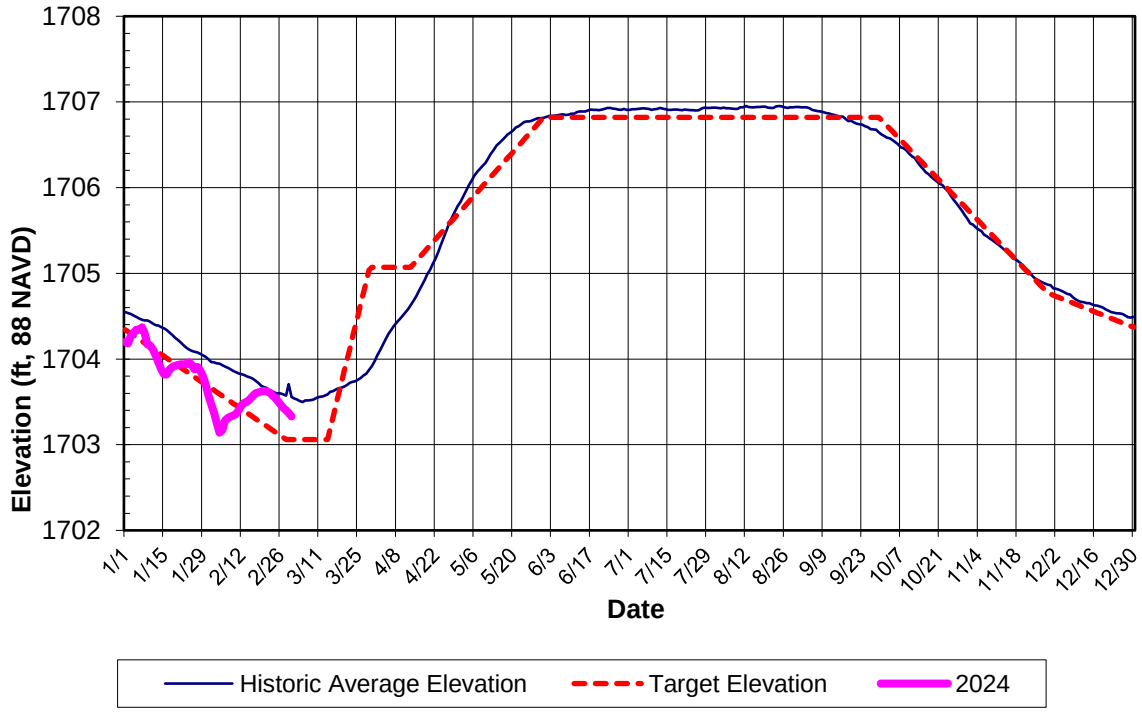

Indian Lake
2024 Reservoir Elevation
Elevation (ft, 88 NAVD)
1655
1653
1651
1649
1647
1645
1643
1641
1639
1637
1635
1/1
1/15
1/29
2/12
2/26
3/11
3/25
4/8
4/22
5/6
5/20
6/3
6/17
7/1
7/15
7/29
8/12
8/26
9/9
9/23
10/7
10/21
11/4
11/18
12/2
12/16
12/30
Date
Historic Average Elevation
Target Elevation
2024
ILA Target


Stillwater Reservoir
2024 Reservoir Elevation
Elevation (ft, 88 NAVD)
1681
1679
1677
1675
1673
1671
1669
1667
1665
1663
1661
1659
1657
1655
1/1
1/15
1/29
2/12
2/26
3/11
3/25
4/8
4/22
5/6
5/20
6/3
6/17
7/1
7/15
7/29
8/12
8/26
9/9
9/23
10/7
10/21
11/4
11/18
12/2
12/16
12/30
Date
Historic Average Elevation
Operating Elevation
2024

Sixth Lake
2024 Reservoir Elevation



Old Forge
2024 Reservoir Elevation



Indian Lake Dam Rehabilitation – Construction Progress Update

Construction activities during the month of January and February included assembly of work barge, demolition of the spillway access bridge, and drilling and grouting of the bulkhead gate structure.

Assembly of Construction Platform/Barge - January 31, 2024

Drilling at Bulkhead Gate Sill - January 23, 2024

Spillway access bridge demolition - February 2, 2024

Preparation of work platforms for drilling and grouting of spillway piers - February 20, 2024

Indian River Lake Dam Rehabilitation Project (State ID#169-0758)
Construction Progress Report

Report No: **04**

Period: **01/16/24** through **02/16/24**

Date: February 16, 2024

Prepared for: Donald E. Canestrari, John Smith
Bureau of Flood Protection and Dam Safety, Division of Water

Prepared by: Colliers Engineering & Design

On behalf of the Hudson River Black River Regulating District (HRBRRD), Colliers Engineering & Design has prepared this letter in accordance with the requirements of the Dam Safety Permit – Condition 9 – Construction Reports.

Contractor's Progress Schedule, including revisions:

- The most recent construction schedule is dated February 20, and is attached to this progress report. Revision to this schedule is anticipated and updates will be provided once received.

Summary of major work completed during period:

- SWPPP reports. – SWPPP Inspections conducted weekly, and reports located in binder onsite.
- Crane pad – Completed the removal of trees along embankment and trimming of limited trees in wetland area to allow for the emplacement of temporary crane pad. Completed installation of crane pad.
- In water equipment – Emplaced in water to facilitate work on the upstream side of Spillway area.
- Demolition – Removed walkway bridge over spillway.
- Coring – Continued coring the first 3 feet of primary grout holes in advance of drilling and grouting operations. Completed primary grout holes 1 and 2 in Main Logway Sill.
- Grouting – Grouted primary holes 1 and 2 in Main logway Sill.

Summary of observations made by the on-site representative:

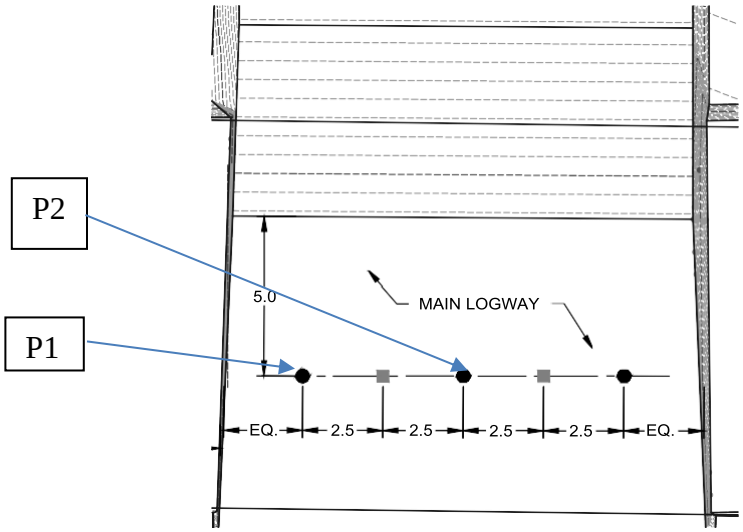
- Daily reports can be provided upon request.

Summary of observations made by the construction engineer during his site inspections:

- During the water testing procedure in the Main logway, it was observed that in primary hole #2 there was a large volume of water exfiltration for all three 5-minute iterations of the test. Conversely primary hole #1 had a small volume of water exfiltration as well.

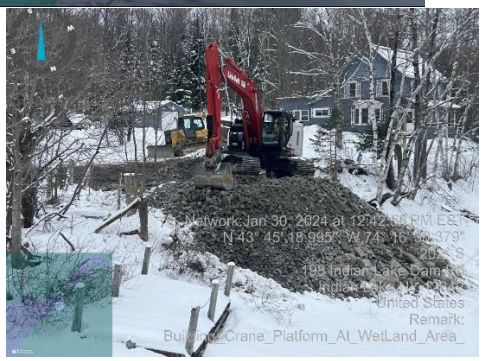
- Grouted Main logway primary holes #1 and #2. During the grouting of primary hole #1 it was found that within the top 1 foot of the hole there was a void located between two stone where the mortar seems to be eroded completely and the approved secondary mix would need to be used. It was determined that that hole will be left alone at that point and would move onto primary hole #2. Grout operations were then moved to primary hole #2. In the second section (15'-20' in depth) there was a large take up of grout that did not meet the refusal threshold. There was also small amount of grout that was observed to exit the dam on the upstream side. At that time all operations were halted and changed to the secondary mix for the grout. The secondary mix proved to be effective, and the section met the refusal threshold with no visible sign of seepage. Upon moving to the next 5' section the contractor reverted to the primary grout mix. This hole was completed with no further issues.

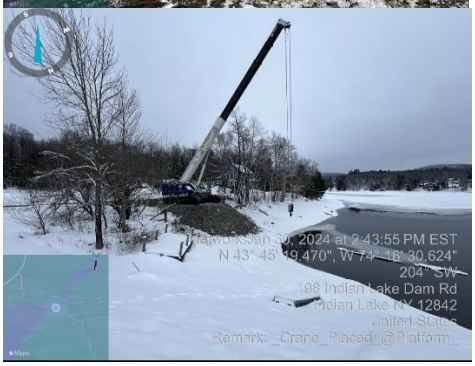
- No dam-safety specific visit has been made to the site yet, as the schedule progresses, and more work is performed site visits will be scheduled for priority activities and observations.



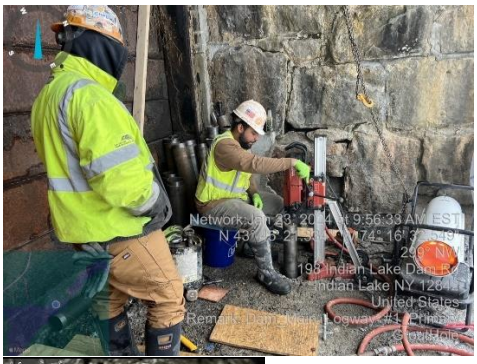
Construction photos:

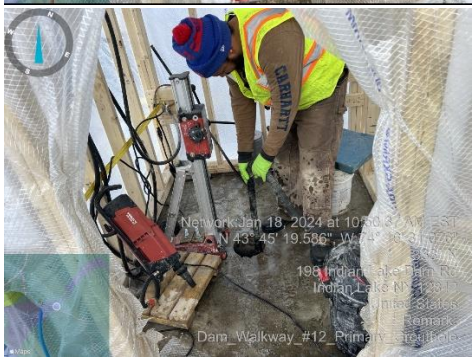
- Photo 1 (below): Removal and reduction of height of trees for the crane pad
- Photo 2 (below): Laydown of separation fabric for crane pad.
- Photo 3 (below): Stone delivery for leveling off area for crane pad.
- Photo 4 (below): Emplacement of stone for crane pad.
- Photo 5 (below): Completed crane pad.

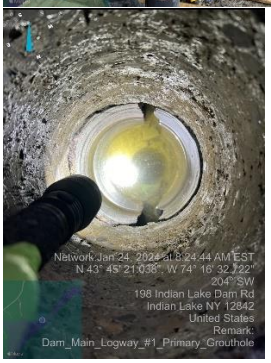




- Photo 6 (below): Core drilling for primary grout holes on non-overflow side of dam.
- Photo 7 (below): Core drilling for Main logway primary 1.
- Photo 8 (below): Core drilling for primary grout holes on non-overflow side of dam.
- Photo 9 (below): Primary 1 vie of missing mortar and water level.

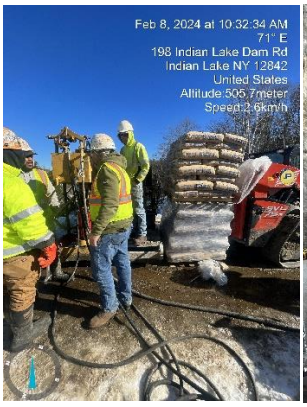


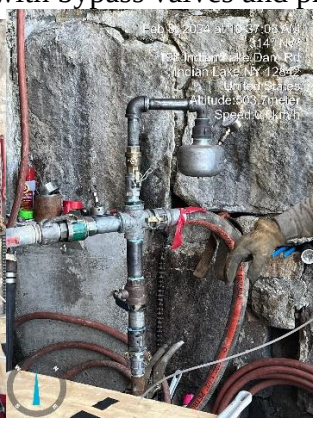




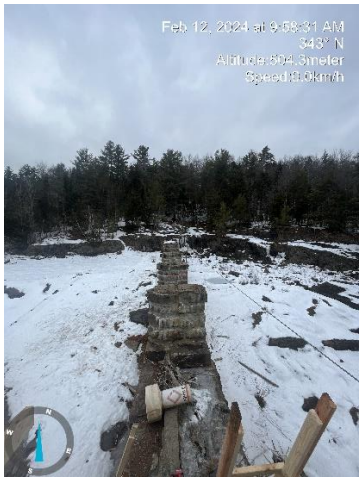
- Photo 10 – 12 (below): Emplacement of equipment in the upstream side to facilitate work in Spillway area.

- Photo 13 (below) - Grout plant operation.
- Photo 14 (below) – Water pressure test primary grout hole 1.
- Photo 15 (below) – Injection grout equipment with bypass valves and pressure gage.





- Photos 16 & 17 (below) – Removal of Spillway bridge walkway.



<u>Copies of all lab and field test results:</u>

Water pressure Test: Start Time = 0800 End Time = 1000

Primary Hole #2 Test 1	Primary Hole #2 Test 2	Primary Hole #2 Test 3
Depth = 22'	Depth = 22'	Depth = 22'
Gallons = 34	Gallons = 34.8	Gallons = 34.6
Time = 5 minutes	Time = 5 Minutes	Time = 5 Minutes
Pressure = 0 psi	Pressure = 2 psi	Pressure = 2 psi

Primary Hole #1 Test 1	Primary Hole #1 Test 2	Primary Hole #1 Test 3
Depth = 21'	Depth = 21'	Depth = 21'
Gallons = .975	Gallons = 1.0	Gallons = .83
Time = 5 Minutes	Time = 5 Minutes	Time = 5 Minutes
Pressure = 12 psi	Pressure = 13 psi	Pressure = 13 psi

Grout Placement: Specific Gravity = 1.7 Start Time = 1130 End Time = 1715

Primary Hole #1	Primary Hole #1	Primary Hole #1	Primary Hole #1
Depth = 17'	Depth = 13'	Depth = 9'	Depth = 3'
Grout Vol. = .6CF	Grout Vol. = 1.2CF	Grout Vol. = 1.6CF	Grout Vol. = 1.8CF
Pressure = 19 psi	Pressure = 25 psi	Pressure = 25 psi	Pressure = 25 psi

Total = 5.2 CF

Primary Hole #2	Primary Hole #2	Primary Hole #2	Primary Hole #2
Depth = 17'	Depth = 14'	Depth = 8'	Depth = 3'
Grout Vol. = 1.2CF	Grout Vol. = 22CF	Grout Vol. = .4CF	Grout Vol. = .8CF
Pressure = 18 psi	Pressure = 20 psi	Pressure = 8 psi	Pressure = 8 psi
	7 CF @ 1.0%		
	15 CF @ .65%		

Total = 24.4 CF

Summary of work planned for the next two (2) weeks:

- Start removal of stone at Spillway piers.
- Continue coring of primary and secondary grout holes in preparation for grouting operations.
- Continue drilling and grouting operations.

Construction reports will continue to be generated and submitted throughout the duration of construction. Please do not hesitate to contact us at (315) 705-3894 should you have any questions or require additional information.

Sincerely,

Daniel J. Gildea, PMP
Bergmann Associates
Project Manager

Attachments:

1. Most recent construction schedule.

Hudson River Area
Report of the Operations Manager
Sacandaga Field Office at Great Sacandaga Lake
March Board Meeting 2023

Activity report for January & February 2024

SFO

- Cleaned offices and conference room weekly.
- Performed maintenance on vehicles and equipment.
- Conducted snow removal as needed.
- Had a new dump box installed on the dump truck.
- Continued reorganization of the tools and equipment in the maintenance garage.
- Built new seats and replaced sections of the floor on the pontoon boat.

Indian Lake

- Serviced and repaired the backup generator.

Conklingville Dam

- Read and reported piezometer data including spillway and toe observations daily.
- Conducted snow removal as needed.
- Installed new LED lights on the control house.
- Performed maintenance on vehicles and equipment.
- Installed new LED lights in the lower valve gallery.
- Conducted monthly valve test, 3 valves at 20%.
- Hauled broken log boom to shore and secured to embankment.

Respectfully,

Matthew Ginter

Operations Manager

Black River Area
Report of the Superintendent
Black River Field Office at the Stillwater Reservoir (BRFO)
January/February 2024

- Road maintenance, plowing
- Vehicle/equipment maintenance
- Snow surveys
- Continued barn renovations
- Removed deer from racks at OF
- Disposed of materials at transfer station
- Attended LEPC meeting
- Analyzed weir samples from Conklinville
- Serviced generator at SW Dam
- Prep/paint office (BRFO)
- Repaired trash rack (OF)
- SW staff gauges and Stevens recorder moved to 1988 NAVD (corrected)
- Monitoring continues: piezometers, weirs, profile surveys, seepage sites.
- Misc. gate changes at Stillwater, O.F. & S.L.
- Daily readings Stillwater, O.F. & S.L.

SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum:
1988 NAVD

Settlement Parameters		
Date	2/26/2024	
Target Elevation	749.53	
Actual "Level"	3.60	
"Level 2.5 threshold"		
"Level 1.2 threshold"	740.53	
Hudson River Target	Elevation	Level
Maximum Flow (cfs)	8000	12500
Minimum Flow (cfs)	n/a	3200
Min. Rec/Rafting Hours (hrs)	#VALUE!	

Rafting Relase at Abanakee
North Crk T, Th, Sa., Su.
Hadley M, W, F, Su.

BROOKFIELD HYDRO CONTROL CENTER: 877-816-7466

Whitewater (hrs)	Daily Avg (cfs)
3	806
4	958
5	1110
6	1263
7	1415
8	1567

* 4000 cfs/hr + base flow 350 cfs

Daily Conditions	
Date	2/26/2024
Day of Year	6266
Starting Elevation (ft)	760.93
Average Elevation	760.81
Flow Below Hadley (cfs)	5900
Todays Release	4000
Tomorrows Release	4000

760.81

Justin St.John 518-743-2004 (w)
315-396-8194 (cell)
Jonathan Norris 518-743-2094
Jane LaBombard 518-615-9353
Dan McCarty 744-2067 Eric Johnson
Piezometers **518-696-5807** 863-8791

ACTUAL High Value
SCHEDULED Low Value
ESTIMATED Instant. (min + raffting)
TO BE CHANGED
Spillway Crest 770.12 ft 88 NAVD

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	Sacandaga River Flow: E.J. West	Valves	Spillway	Average Release	Maximum (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow: Minimum (Table C - Level)	Maximum (Table D - Elev.)	Maximum (Table E - Level)	Ending Elevation	Ending Date 12:00 AM	Ft. Ed. Flow	Daily Average Elevation	Settlement Target Elevation	Historic Daily Average Elev.
2/1/2024	765.66	2900	3810	0	0	3810	4700	3.69	4810	8620	3380	8000	16100	765.58	2/2/2024		765.62	750.46	750.21
2/2/2024	765.58	2400	3910	0	0	3910	4653	3.69	4410	8320	3380	8000	16100	765.46	2/3/2024		765.52	750.43	750.07
2/3/2024	765.46	2300	3680	0	0	3680	4560	3.69	4150	7830	3380	8000	16100	765.35	2/4/2024		765.41	750.39	749.94
2/4/2024	765.35	1900	4020	0	0	4020	4513	3.68	3870	7890	3360	8000	15700	765.18	2/5/2024		765.27	750.35	749.83
2/5/2024	765.18	1700	4170	0	0	4170	4420	3.68	3600	7770	3340	8000	15300	764.98	2/6/2024		765.08	750.31	749.71
2/6/2024	764.98	1600	4260	0	0	4260	4327	3.67	3390	7650	3320	8000	14900	764.77	2/7/2024		764.88	750.28	749.56
2/7/2024	764.77	2200	4240	0	0	4240	4233	3.66	3240	7480	3320	8000	14900	764.60	2/8/2024		764.69	750.24	749.41
2/8/2024	764.60	1600	4020	0	0	4020	4140	3.65	3170	7190	3300	8000	14500	764.40	2/9/2024		764.50	750.20	749.27
2/9/2024	764.40	1800	4020	0	0	4020	4047	3.64	3040	7060	3280	8000	14100	764.22	2/10/2024		764.31	750.16	749.13
2/10/2024	764.22	2400	4020	0	0	4020	4000	3.63	2990	7010	3260	8000	13700	764.09	2/11/2024		764.16	750.13	748.97
2/11/2024	764.09	1800	4020	0	0	4020	4000	3.62	3270	7290	3240	8000	13300	763.91	2/12/2024		764.00	750.09	748.81
2/12/2024	763.91	2400	4020	0	0	4020	4000	3.61	3530	7550	3220	8000	12900	763.78	2/13/2024		763.85	750.05	748.66
2/13/2024	763.78	2300	4020	0	0	4020	4000	3.60	3470	7490	3200	8000	12500	763.64	2/14/2024		763.71	750.02	748.50
2/14/2024	763.64	1600	4020	0	0	4020	4000	3.61	3310	7330	3220	8000	12900	763.44	2/15/2024		763.54	749.98	748.34
2/15/2024	763.44	1500	4010	0	0	4010	4000	3.60	3010	7020	3200	8000	12500	763.24	2/16/2024		763.34	749.94	748.18
2/16/2024	763.24	1500	4020	0	0	4020	4000	3.59	3050	7070	3180	8000	12100	763.03	2/17/2024		763.14	749.90	748.04
2/17/2024	763.03	1600	4030	0	0	4030	4000	3.59	2960	6990	3160	8000	11700	762.83	2/18/2024		762.93	749.87	747.89
2/18/2024	762.83	1200	4020	0	0	4020	4000	3.58	2800	6820	3140	8000	11300	762.60	2/19/2024		762.72	749.83	747.76
2/19/2024	762.60	1400	4020	0	0	4020	4000	3.57	2770	6790	3140	8000	11300	762.39	2/20/2024		762.50	749.79	747.63
2/20/2024	762.39	1000	4020	0	0	4020	4000	3.56	2540	6560	3120	8000	10900	762.14	2/21/2024		762.27	749.75	747.50
2/21/2024	762.14	1200	3910	0	0	3910	4000	3.55	2560	6470	3100	8000	10500	761.92	2/22/2024		762.03	749.72	747.39
2/22/2024	761.92	1200	3880	0	0	3880	4000	3.54	2690	6570	3080	8000	10100	761.70	2/23/2024		761.81	749.68	747.28
2/23/2024	761.70	1100	4190	0	0	4190	4000	3.53	2540	6730	3060	8000	9700	761.45	2/24/2024		761.58	749.64	747.20
2/24/2024	761.45	1400	4180	0	0	4180	4000	3.52	2250	6430	3040	8000	9300	761.22	2/25/2024		761.34	749.61	747.11
2/25/2024	761.22	700	4190	0	0	4190	4000	3.51	1980	6170	3020	8000	8900	760.93	2/26/2024		761.08	749.57	747.05
2/26/2024	760.93	1000	4000	0	0	4000	4000	3.50	1900	5900	3000	8000	8500	760.68	2/27/2024		760.81	749.53	747.01
2/27/2024	760.68	1000	4000	0	0	4000	4000	3.49	2000	6000	2980	8000	8480	760.43	2/28/2024		760.56	749.49	746.96
2/28/2024	760.43	1300	4000	0	0	4000	4000	3.48	2300	6300	2960	8000	8460	760.20	2/29/2024		760.32	749.46	746.89
2/29/2024	760.20	1500	4000	0	0	4000	4000	3.47	2500	6500	2940	8000	8440	759.99	3/1/2024		760.10	749.42	746.78
3/1/2024	759.99	1500	4000	0	0	4000	4000	3.46	2500	6500	2920	8000	8420	759.78	3/2/2024		759.89	749.38	746.70
3/2/2024	759.78	1400	4000	0	0	4000	4000	3.45	2500	6500	2900	8000	8400	759.56	3/3/2024		759.67	749.34	746.62
3/3/2024	759.56	1300	4000	0	0	4000	4000	3.44	2500	6500	2880	8000	8380	759.33	**3/4/2024**			749.27	746.54
6/6/2020	**767.29**	500	2000	0	0	2000	5487	3.00	2000	4000	2000	8000	7500	777.12	**3/15/2019**			#N/A	#N/A

Signature:_____

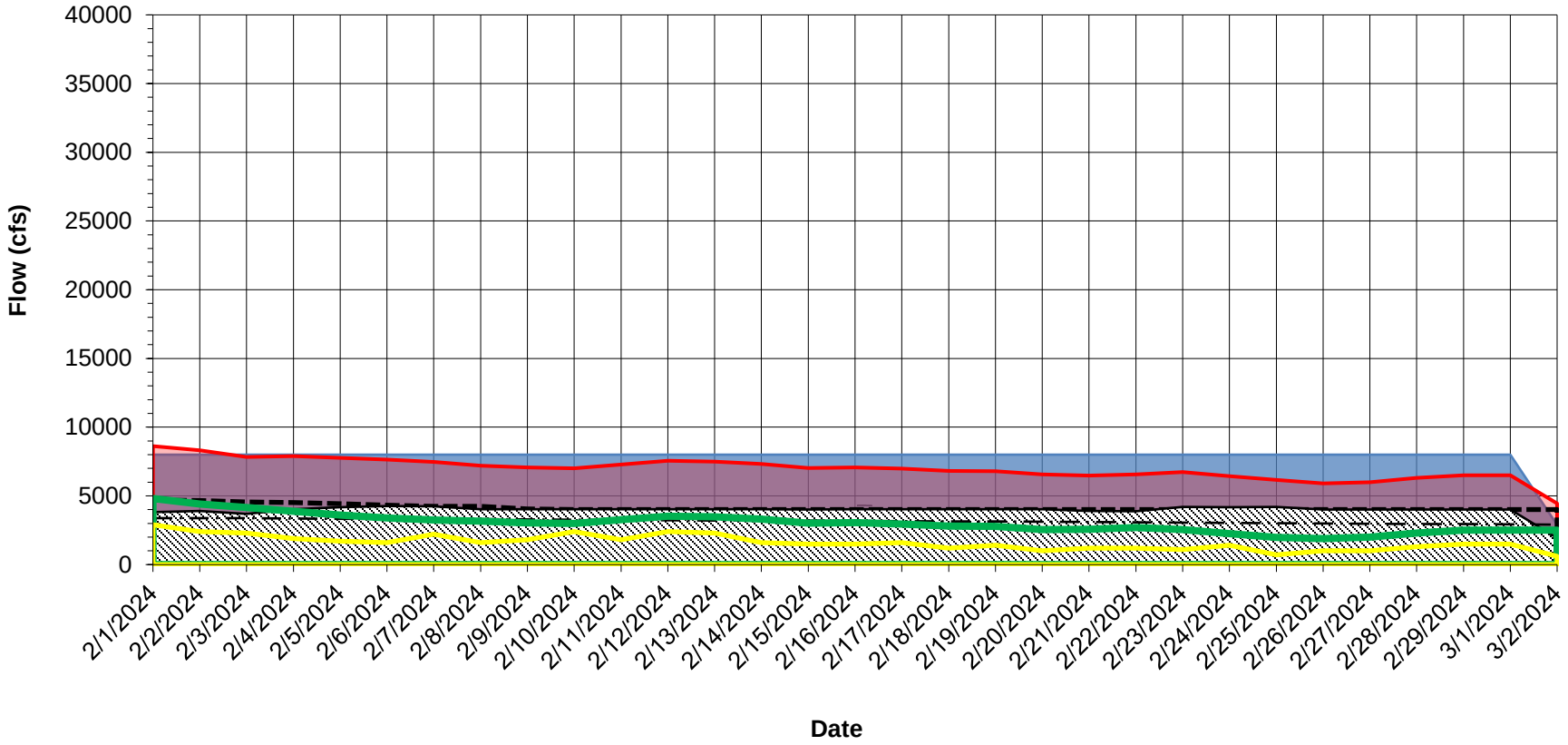
Date:_____

GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY

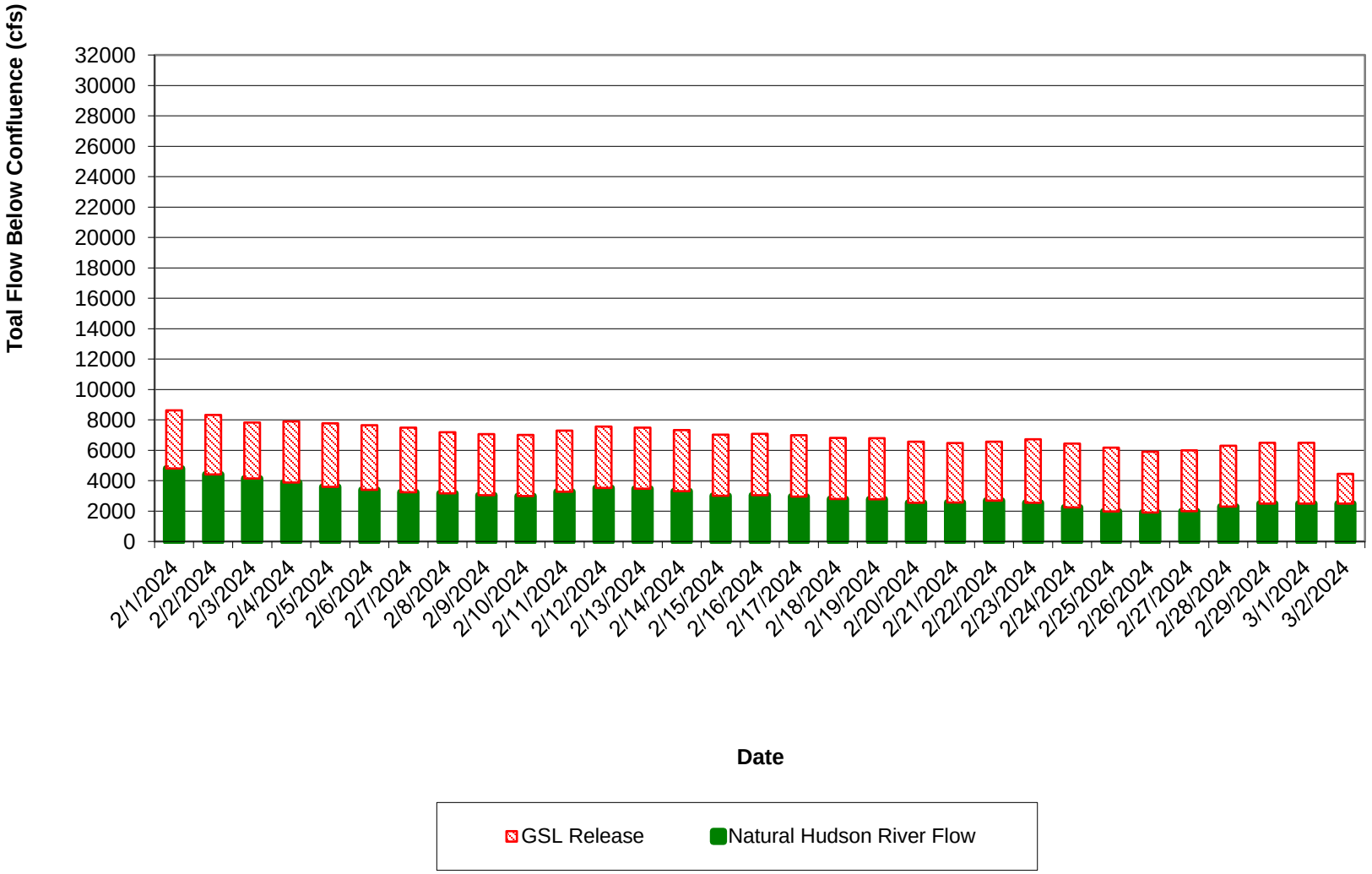
Print Date: 2/26/2024
Period of Record: 2/1/2024 to 2/29/2024

Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	**Sacandaga River Flow** Average Release	Maximum (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	**Hudson River Target Flow** Minimum (Table B - Level)	Maximum (Table D & E)	Maximum Allowable Sacandaga
2/1/2024	765.62	2900	3810	4700	3.69	4810	8620	3380	8000	4700
2/2/2024	765.52	2400	3910	4653	3.69	4410	8320	3380	8000	4653
2/3/2024	765.41	2300	3680	4560	3.69	4150	7830	3380	8000	4607
2/4/2024	765.27	1900	4020	4513	3.68	3870	7890	3360	8000	4560
2/5/2024	765.08	1700	4170	4420	3.68	3600	7770	3340	8000	4467
2/6/2024	764.88	1600	4260	4327	3.67	3390	7650	3320	8000	4373
2/7/2024	764.69	2200	4240	4233	3.66	3240	7480	3320	8000	4280
2/8/2024	764.67	1600	4020	4233	3.65	3170	7190	3300	8000	4187
2/9/2024	764.31	1800	4020	4047	3.64	3040	7060	3280	8000	4093
2/10/2024	764.16	2400	4020	4000	3.63	2990	7010	3260	8000	4047
2/11/2024	764.00	1800	4020	4000	3.62	3270	7290	3240	8000	4000
2/12/2024	763.85	2400	4020	4000	3.61	3530	7550	3220	8000	4000
2/13/2024	763.71	2300	4020	4000	3.60	3470	7490	3200	8000	4000
2/14/2024	763.54	1600	4020	4000	3.61	3310	7330	3220	8000	4000
2/15/2024	763.34	1500	4010	4000	3.60	3010	7020	3200	8000	4000
2/16/2024	763.14	1500	4020	4000	3.59	3050	7070	3180	8000	4000
2/17/2024	762.93	1600	4030	4000	3.59	2960	6990	3160	8000	4000
2/18/2024	762.72	1200	4020	4000	3.58	2800	6820	3140	8000	4000
2/19/2024	762.50	1400	4020	4000	3.57	2770	6790	3140	8000	4000
2/20/2024	762.27	1000	4020	4000	3.56	2540	6560	3120	8000	4000
2/21/2024	762.03	1200	3910	4000	3.55	2560	6470	3100	8000	4000
2/22/2024	761.81	1200	3880	4000	3.54	2690	6570	3080	8000	4000
2/23/2024	761.58	1100	4190	4000	3.53	2540	6730	3060	8000	4000
2/24/2024	761.34	1400	4180	4000	3.52	2250	6430	3040	8000	4000
2/25/2024	761.08	700	4190	4000	3.51	1980	6170	3020	8000	4000
2/26/2024	760.81	1000	4000	4000	3.50	1900	5900	3000	8000	4000
2/27/2024	760.56	1000	4000	4000	3.49	2000	6000	2980	8000	4000
2/28/2024	760.32	1300	4000	4000	3.48	2300	6300	2960	8000	4000
2/29/2024	760.10	1500	4000	4000	3.47	2500	6500	2940	8000	4000
3/1/2024	759.89	1500	4000	4000	3.46	2500	6500	2920	8000	4000
3/2/2024	759.67	600	1940	4000	3.45	2500	4440	2900	2880	4000

Great Sacandaga Lake
Actual and Maximum Allowable Hudson River Flow Below Confluence



Great Sacandaga Lake
GSL Release and Natural Hudson River Flow



STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR / HUDSON RIVER REGULATION

Monthly Report for: January 2024

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.0845 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	764.89	764.81	1880	3919	810	6840	7650
2	765.01	764.95	1560	3252	2110	6040	8150
3	765.01	765.01	1380	2877	2410	5540	7950
4	764.96	764.98	1210	2522	2630	5150	7780
5	764.90	764.98	946	1972	2920	4540	7460
6	764.76	764.86	947	1974	3230	4260	7490
7	764.67	764.81	872	1818	3300	4120	7420
8	764.57	764.72	1080	2251	3390	3930	7320
9	764.38	764.49	1380	2877	3640	3780	7420
10	764.57	764.44	1070	2230	2260	4870	7130
11	764.78	764.75	2350	4899	1580	5740	7320
12	764.93	764.86	1780	3710	2290	5380	7670
13	765.13	764.88	2080	4336	2520	5400	7920
14	765.42	765.40	2430	5065	2640	5950	8590
15	765.47	765.43	1600	3335	2860	5290	8150
16	765.37	765.43	1330	2772	3500	4840	8340
17	765.35	765.37	1240	2585	3600	4370	7970
18	765.19	765.29	1100	2293	3980	3840	7820
19	765.02	765.11	1070	2230	3980	3290	7270
20	764.87	764.97	912	1901	3980	2820	6800
21	764.68	764.80	860	1793	3980	2590	6570
22	764.47	764.55	852	1776	3980	2650	6630
23	764.28	764.38	885	1845	3990	3410	7400
24	764.11	764.19	874	1822	3990	3350	7340
25	763.99	764.05	879	1832	3980	3590	7570
26	764.06	763.91	2850	5941	3890	4950	8840
27	764.66	764.34	3980	8296	1960	7270	9230
28	765.08	764.93	3010	6274	1900	7160	9060
29	765.37	765.26	2490	5190	2140	6410	8550
30	765.53	765.46	2040	4252	2030	5730	7760
31	765.65	765.57	1780	3710	2570	5210	7780
AVERAGE			1570	3280	2970	4780	7750

CHANGE IN STORAGE DURING THE MONTH 0.91 B.C.F.

CHIEF ENGINEER

88 NAVD

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR REGULATION

Monthly Report for: January, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Indian River at Indian Lake cfs	Hudson River at Newcomb cfs	Regulated Hudson River at North Creek cfs
1	1644.10	1644.17	400	656	838	3270
2	1643.95	1644.04	300	654	622	2650
3	1643.78	1643.87	310	652	513	2390
4	1643.59	1643.69	260	649	440	2200
5	1643.37	1643.48	255	644	350	1940
6	1643.16	1643.27	288	640	321	1830
7	1642.99	1643.08	283	635	300	1760
8	1642.78	1642.89	242	631	282	1730
9	1642.58	1642.68	390	631	265	1730
10	1642.51	1642.55	446	613	290	1990
11	1642.43	1642.46	427	557	365	2390
12	1642.34	1642.39	329	551	368	2300
13	1642.31	1642.27	645	552	352	2290
14	1642.31	1642.32	530	549	371	2370
15	1642.23	1642.31	289	548	346	2130
16	1642.11	1642.17	325	547	304	1920
17	1641.98	1642.05	287	546	284	1750
18	1641.83	1641.91	228	543	270	1620
19	1641.66	1641.74	226	541	252	1510
20	1641.48	1641.57	206	539	231	1420
21	1641.30	1641.39	185	537	215	1370
22	1641.12	1641.20	202	535	204	1370
23	1640.93	1641.02	200	533	197	1460
24	1640.78	1640.85	309	531	195	1450
25	1640.67	1640.72	358	525	218	1510
26	1640.71	1640.63	897	527	341	2340
27	1640.95	1640.83	990	527	686	3930
28	1641.16	1641.08	769	528	817	4090
29	1641.23	1641.21	547	528	695	3510
30	1641.20	1641.22	416	527	554	2930
31	1641.12	1641.16	397	527	450	2500
AVERAGE			385	571	385	2182

CHANGE IN STORAGE DURING THE MONTH -0.498 B.C.F

CHIEF ENGINEER

NAVD 88

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR / BLACK RIVER REGULATION

Monthly Report for: January 2024

Day	Stillwater Reservoir Elevation Average Daily	Stillwater Reservoir Elevation Midnight	Stillwater Reservoir Net Inflow cfs	Stillwater Reservoir Release cfs	Black River at Boonville cfs	Beaver River at Croghan cfs	Regulated Black River at Watertown cfs
1	1672.13	1672.10	427	300	1080	700	7160
2	1672.17	1672.15	376	300	950	685	6490
3	1672.20	1672.18	384	358	830	660	5700
4	1672.20	1672.19	425	400	762	636	4960
5	1672.19	1672.20	324	400	625	640	4150
6	1672.17	1672.17	375	400	654	601	3510
7	1672.17	1672.16	425	400	689	565	3370
8	1672.16	1672.17	348	475	646	583	3270
9	1672.08	1672.12	524	600	645	778	3510
10	1672.09	1672.09	625	600	830	1260	5150
11	1672.11	1672.10	625	600	1120	1150	7390
12	1672.09	1672.11	524	600	972	1160	7450
13	1672.07	1672.08	600	600	810	1240	7630
14	1672.08	1672.08	575	600	856	1120	8310
15	1672.05	1672.07	473	600	684	1040	7710
16	1671.98	1672.02	403	600	601	1000	6580
17	1671.90	1671.94	405	600	584	994	5430
18	1671.82	1671.86	405	600	525	1000	3530
19	1671.72	1671.78	331	600	506	917	3310
20	1671.60	1671.67	283	600	462	1060	3790
21	1671.47	1671.54	283	600	556	905	4190
22	1671.34	1671.41	283	600	586	969	4140
23	1671.21	1671.28	258	600	656	824	4080
24	1671.10	1671.14	405	600	682	854	4110
25	1671.06	1671.06	600	600	862	972	4390
26	1671.14	1671.06	1088	600	1810	1310	5620
27	1671.38	1671.26	1088	600	2810	1780	8320
28	1671.50	1671.46	771	600	2040	1490	10800
29	1671.54	1671.53	600	600	1570	1220	13900
30	1671.51	1671.53	478	600	1370	1120	13500
31	1671.45	1671.48	429	600	1220	985	11000
AVERAGE			488	543	940	970	6210

CHANGE IN STORAGE DURING THE MONTH -0.15 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SIXTH LAKE RESERVOIR REGULATION

Monthly Report for: January, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow (cfs)	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1781.85	1781.92	46	1.33	1.33	95
2	1781.70	1781.78	39	1.33	1.33	93
3	1781.57	1781.63	45	1.33	1.33	92
4	1781.43	1781.50	41	1.33	1.33	90
5	1781.32	1781.36	42	0.50	0.50	59
6	1781.28	1781.31	31	0.50	0.50	38
7	1781.28	1781.29	31	0.50	0.50	38
8	1781.22	1781.27	20	1.00	1.00	58
9	1781.13	1781.16	94	1.00	1.00	80
10	1781.14	1781.20	52	1.00	1.00	80
11	1781.13	1781.12	76	1.00	1.00	79
12	1781.09	1781.11	69	1.00	1.00	79
13	1781.07	1781.08	72	1.00	1.00	79
14	1781.03	1781.06	69	1.00	1.00	79
15	1780.99	1781.03	54	1.00	1.00	78
16	1780.94	1780.96	61	1.00	1.00	78
17	1780.87	1780.91	49	1.00	1.00	77
18	1780.80	1780.83	53	1.00	1.00	77
19	1780.72	1780.76	49	1.00	1.00	77
20	1780.64	1780.68	48	1.00	1.00	76
21	1780.55	1780.60	45	1.00	1.00	76
22	1780.49	1780.51	40	0.42	0.42	50
23	1780.47	1780.48	28	0.42	0.42	31
24	1780.48	1780.47	41	0.42	0.42	31
25	1780.53	1780.50	73	1.17	1.17	56
26	1780.66	1780.55	165	1.17	1.17	75
27	1780.90	1780.81	122	1.17	1.17	77
28	1780.96	1780.94	92	1.17	1.17	78
29	1780.96	1780.98	64	1.17	1.17	78
30	1780.92	1780.94	60	1.17	1.17	77
31	1780.85	1780.89	53	1.17	1.17	77
AVERAGE			59			71

CHANGE IN STORAGE DURING THE MONTH -0.033 B.C.F

CHIEF ENGINEER

88 NAVD

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE RESERVOIR REGULATION

Monthly Report for: January, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow (cfs)	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1704.20	1704.36	84	4.00	4.00	247
2	1704.18	1704.24	147	0.83	0.83	147
3	1704.27	1704.24	126	0.83	0.83	83
4	1704.31	1704.28	158	0.83	0.83	84
5	1704.34	1704.33	99	0.83	0.83	84
6	1704.34	1704.34	114	0.83	0.83	84
7	1704.37	1704.35	99	0.83	0.83	84
8	1704.30	1704.36	107	3.33	3.33	167
9	1704.17	1704.32	219	3.33	3.33	219
10	1704.16	1704.32	128	3.33	3.33	217
11	1704.11	1704.26	114	3.33	3.33	215
12	1704.04	1704.19	104	3.33	3.33	213
13	1703.96	1704.12	-112	3.33	3.33	210
14	1703.88	1703.90	121	3.33	3.33	208
15	1703.82	1703.85	104	3.33	3.33	205
16	1703.82	1703.78	291	0.83	0.83	132
17	1703.88	1703.88	94	0.83	0.83	80
18	1703.91	1703.89	124	0.83	0.83	81
19	1703.92	1703.92	95	0.83	0.83	81
20	1703.93	1703.93	81	0.83	0.83	81
21	1703.94	1703.93	95	0.83	0.83	81
22	1703.94	1703.94	81	0.83	0.83	81
23	1703.94	1703.94	81	0.83	0.83	81
24	1703.96	1703.94	153	0.83	0.83	81
25	1703.93	1703.99	196	4.00	4.00	196
26	1703.88	1703.99	364	4.00	4.00	277
27	1703.91	1704.06	249	4.00	4.00	278
28	1703.87	1704.04	220	4.00	4.00	278
29	1703.80	1703.99	144	4.00	4.00	274
30	1703.70	1703.90	111	4.00	4.00	270
31	1703.58	1703.80	91	4.00	4.00	265
AVERAGE			132			164

CHANGE IN STORAGE DURING THE MONTH -0.086 B.C.F

CHIEF ENGINEER

88 NAVD

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: February 3, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. (1)	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 27	764.34	31.19	12 AM - Mid	1,960	7,270	9,230
Sunday 28	764.93	31.84	12 AM - Mid	1,900	7,160	9,060
Monday 29	765.26	32.20	12 AM - Mid	2,140	6,410	8,550
Tuesday 30	765.46	32.42	12 AM - Mid	2,030	5,730	7,760
Wednesday 31	765.57	32.54	12 AM - Mid	2,570	5,210	7,780
Thursday 1	765.62	32.60	12 AM - Mid	3,810	4,810	8,620
Friday 2	765.38	32.33	12 AM - Mid	3,910	4,410	8,320
Saturday 3	765.46	32.42	12 AM - Mid	3,680	4,150	7,830
CHANGE IN STORAGE DURING THE WEEK		1.24				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	765.46	32.42	6	2017	751.07	17.73
2	2023	762.22	28.88	7	2016	750.48	17.18
3	2019	762.03	28.68	8	2021	750.43	17.14
4	2020	760.52	27.07	9	2022	750.21	16.94
5	2018	753.76	20.27	10	2015	749.84	16.60

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: February 10, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. (1)	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 3	765.46	32.42	12 AM - Mid	3,680	4,150	7,830
Sunday 4	765.37	32.32	12 AM - Mid	4,020	3,870	7,890
Monday 5	765.19	32.12	12 AM - Mid	4,170	3,600	7,770
Tuesday 6	764.93	31.84	12 AM - Mid	4,260	3,390	7,650
Wednesday 7	764.78	31.67	12 AM - Mid	4,240	3,240	7,480
Thursday 8	764.61	31.48	12 AM - Mid	4,020	3,170	7,190
Friday 9	764.40	31.25	12 AM - Mid	4,020	3,040	7,060
Saturday 10	764.19	31.02	12 AM - Mid	4,020	2,990	7,010
CHANGE IN STORAGE DURING THE WEEK		-1.40				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	764.19	31.02	6	2018	752.36	18.93
2	2019	762.49	29.17	7	2017	750.60	17.29
3	2023	760.50	27.05	8	2021	750.16	16.89
4	2020	758.95	25.44	9	2022	750.07	16.81
5	2016	752.51	19.07	10	2015	749.49	16.28

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: February 17, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. (1)	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 10	764.19	31.02	12 AM - Mid	4,020	2,990	7,010
Sunday 11	764.12	30.94	12 AM - Mid	4,020	3,270	7,290
Monday 12	763.93	30.74	12 AM - Mid	4,020	3,530	7,550
Tuesday 13	763.77	30.56	12 AM - Mid	4,020	3,470	7,490
Wednesday 14	763.62	30.40	12 AM - Mid	4,020	3,310	7,330
Thursday 15	763.45	30.21	12 AM - Mid	4,010	3,010	7,020
Friday 16	763.20	29.94	12 AM - Mid	4,020	3,050	7,070
Saturday 17	763.02	29.75	12 AM - Mid	4,030	2,960	6,990
CHANGE IN STORAGE DURING THE WEEK		-1.28				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	763.02	29.75	6	2018	750.65	17.34
2	2019	762.12	28.77	7	2021	749.95	16.70
3	2023	759.39	25.90	8	2017	749.85	16.61
4	2020	757.13	23.58	9	2022	749.74	16.51
5	2016	751.12	17.77	10	2015	749.21	16.02

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: February 24, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. (1)	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 17	763.02	29.75	12 AM - Mid	4,030	2,960	6,990
Sunday 18	762.82	29.53	12 AM - Mid	4,020	2,800	6,820
Monday 19	762.59	29.28	12 AM - Mid	4,020	2,770	6,790
Tuesday 20	762.39	29.07	12 AM - Mid	4,020	2,540	6,560
Wednesday 21	762.14	28.80	12 AM - Mid	3,910	2,560	6,470
Thursday 22	761.92	28.56	12 AM - Mid	3,880	2,690	6,570
Friday 23	761.70	28.33	12 AM - Mid	4,190	2,540	6,730
Saturday 24	761.44	28.05	12 AM - Mid	4,180	2,250	6,430
CHANGE IN STORAGE DURING THE WEEK		-1.70				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	761.44	28.05	6	2018	752.43	19.00
2	2019	760.74	27.31	7	2016	750.47	17.18
3	2023	758.53	25.01	8	2021	749.74	16.51
4	2020	755.15	21.61	9	2015	748.83	15.68
5	2022	752.94	19.48	10	2017	748.74	15.60

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: February 3, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 27	1,640.83	1.93	12 AM - Mid	525	686	3,930
Sunday 28	1,641.08	1.97	12 AM - Mid	526	817	4,090
Monday 29	1,641.21	1.99	12 AM - Mid	526	695	3,510
Tuesday 30	1,641.22	1.99	12 AM - Mid	526	554	2,930
Wednesday 31	1,641.16	1.98	12 AM - Mid	523	450	2,500
Thursday 1	1,641.10	1.97	12 AM - Mid	522	388	2,210
Friday 2	1,640.98	1.96	12 AM - Mid	520	346	2,060
Saturday 3	1,640.85	1.93	12 AM - Mid	518	306	1,970

CHANGE IN STORAGE DURING THE WEEK	0.00

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,644.03	2.45	6	2017	1,640.80	1.93
2	2023	1,642.83	2.25	7	2016	1,640.22	1.84
3	2019	1,641.54	2.05	8	2015	1,639.70	1.76
4	2021	1,640.90	1.94	9	2022	1,638.80	1.63
5	2024	1,640.85	1.93	10	2020	1,638.63	1.60

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: February 10, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 3	1,640.85	1.93	12 AM - Mid	518	306	1,970
Sunday 4	1,640.64	1.90	12 AM - Mid	516	271	1,790
Monday 5	1,640.48	1.88	12 AM - Mid	516	250	1,750
Tuesday 6	1,640.31	1.85	12 AM - Mid	510	229	1,650
Wednesday 7	1,640.13	1.83	12 AM - Mid	509	218	1,600
Thursday 8	1,639.96	1.80	12 AM - Mid	506	210	1,520
Friday 9	1,639.78	1.77	12 AM - Mid	504	200	1,450
Saturday 10	1,639.61	1.75	12 AM - Mid	502	197	1,440

CHANGE IN STORAGE DURING THE WEEK	-0.19

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,643.26	2.32	6	2021	1,640.12	1.82
2	2019	1,641.61	2.06	7	2024	1,639.61	1.75
3	2023	1,641.60	2.05	8	2015	1,639.44	1.72
4	2017	1,641.59	2.05	9	2022	1,638.54	1.59
5	2016	1,640.87	1.94	10	2020	1,638.39	1.56

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: February 17, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 10	1,639.61	1.75	12 AM - Mid	502	197	1,440
Sunday 11	1,639.48	1.73	12 AM - Mid	500	213	1,540
Monday 12	1,639.36	1.71	12 AM - Mid	498	235	1,690
Tuesday 13	1,639.24	1.69	12 AM - Mid	496	238	1,710
Wednesday 14	1,639.11	1.67	12 AM - Mid	457	230	1,670
Thursday 15	1,638.95	1.65	12 AM - Mid	517	207	1,530
Friday 16	1,638.79	1.62	12 AM - Mid	515	214	1,520
Saturday 17	1,638.63	1.60	12 AM - Mid	515	207	1,510

CHANGE IN STORAGE DURING THE WEEK	-0.15

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,642.57	2.21	6	2021	1,639.36	1.71
2	2017	1,641.74	2.08	7	2015	1,639.11	1.67
3	2019	1,641.17	1.99	8	2024	1,638.63	1.60
4	2023	1,640.91	1.94	9	2022	1,638.39	1.56
5	2016	1,640.75	1.92	10	2020	1,638.13	1.53

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: February 24, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 17	1,638.63	1.60	12 AM - Mid	515	207	1,510
Sunday 18	1,638.45	1.57	12 AM - Mid	514	192	1,440
Monday 19	1,638.27	1.55	12 AM - Mid	511	184	1,400
Tuesday 20	1,638.07	1.52	12 AM - Mid	510	174	1,330
Wednesday 21	1,637.87	1.48	12 AM - Mid	508	166	1,300
Thursday 22	1,637.67	1.46	12 AM - Mid	506	162	1,300
Friday 23	1,637.47	1.43	12 AM - Mid	313	159	1,250
Saturday 24	1,637.39	1.41	12 AM - Mid	178	157	970

CHANGE IN STORAGE DURING THE WEEK	-0.19

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,643.71	2.39	6	2019	1,640.18	1.83
2	2017	1,641.96	2.11	7	2015	1,638.76	1.62
3	2022	1,641.76	2.08	8	2021	1,638.58	1.59
4	2016	1,640.79	1.93	9	2020	1,637.84	1.48
5	2023	1,640.33	1.86	10	2024	1,637.39	1.41

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: February 3, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 27	1,671.26	2.81	12 AM -Mid	600	1,780	8,320
Sunday 28	1,671.46	2.86	12 AM -Mid	600	1,530	10,800
Monday 29	1,671.53	2.87	12 AM -Mid	600	1,260	13,900
Tuesday 30	1,671.53	2.87	12 AM -Mid	600	1,160	13,500
Wednesday 31	1,671.48	2.86	12 AM -Mid	600	1,030	11,000
Thursday 1	1,671.41	2.84	12 AM -Mid	600	997	9,120
Friday 2	1,671.35	2.83	12 AM -Mid	600	1,010	7,800
Saturday 3	1,671.26	2.81	12 AM -Mid	600	973	6,820
CHANGE IN STORAGE DURING THE WEEK		0.00				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,673.88	3.39	6	2016	1,668.72	2.34
2	2024	1,671.26	2.81	7	2023	1,667.84	2.19
3	2020	1,670.42	2.64	8	2021	1,667.28	2.10
4	2019	1,670.12	2.58	9	2015	1,665.41	1.79
5	2017	1,669.77	2.51	10	2022	1,663.69	1.51

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: February 10, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 3	1,671.26	2.81	12 AM -Mid	600	973	6,820
Sunday 4	1,671.16	2.79	12 AM -Mid	600	795	5,960
Monday 5	1,671.06	2.77	12 AM -Mid	600	836	5,220
Tuesday 6	1,670.93	2.74	12 AM -Mid	600	822	4,550
Wednesday 7	1,670.79	2.71	12 AM -Mid	600	823	3,960
Thursday 8	1,670.64	2.68	12 AM -Mid	600	819	3,720
Friday 9	1,670.50	2.66	12 AM -Mid	600	795	3,670
Saturday 10	1,670.35	2.62	12 AM -Mid	600	825	4,310
CHANGE IN STORAGE DURING THE WEEK		-0.19				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,673.09	3.21	6	2016	1,668.68	2.33
2	2019	1,670.71	2.70	7	2021	1,666.75	2.01
3	2024	1,670.35	2.62	8	2023	1,666.34	1.94
4	2017	1,669.49	2.47	9	2015	1,664.23	1.60
5	2020	1,669.00	2.38	10	2022	1,663.20	1.43

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: February 17, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 10	1,670.35	2.62	12 AM -Mid	600	782	4,310
Sunday 11	1,670.27	2.61	12 AM -Mid	600	1,000	5,880
Monday 12	1,670.22	2.60	12 AM -Mid	600	960	5,850
Tuesday 13	1,670.11	2.57	12 AM -Mid	600	914	5,500
Wednesday 14	1,669.98	2.55	12 AM -Mid	600	893	5,020
Thursday 15	1,669.87	2.53	12 AM -Mid	600	776	4,290
Friday 16	1,669.74	2.51	12 AM -Mid	600	716	3,650
Saturday 17	1,669.62	2.49	12 AM -Mid	600	741	3,670
CHANGE IN STORAGE DURING THE WEEK		-0.14				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,672.25	3.03	6	2020	1,667.31	2.10
2	2019	1,670.49	2.65	7	2021	1,666.18	1.92
3	2024	1,669.62	2.49	8	2023	1,665.70	1.84
4	2017	1,668.77	2.35	9	2015	1,663.24	1.43
5	2016	1,668.17	2.25	10	2022	1,663.00	1.39

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: February 24, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 17	1,669.62	2.49	12 AM -Mid	600	741	3,670
Sunday 18	1,669.47	2.46	12 AM -Mid	600	787	3,390
Monday 19	1,669.32	2.44	12 AM -Mid	600	819	3,010
Tuesday 20	1,669.17	2.41	12 AM -Mid	600	749	3,210
Wednesday 21	1,669.00	2.38	12 AM -Mid	600	741	3,200
Thursday 22	1,668.83	2.36	12 AM -Mid	600	729	3,430
Friday 23	1,668.68	2.33	12 AM -Mid	600	767	3,350
Saturday 24	1,668.52	2.30	12 AM -Mid	600	789	3,710
CHANGE IN STORAGE DURING THE WEEK		-0.18				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,673.85	3.38	6	2022	1,666.05	1.90
2	2019	1,669.56	2.48	7	2020	1,665.31	1.77
3	2024	1,668.52	2.30	8	2023	1,664.78	1.69
4	2016	1,667.95	2.21	9	2021	1,664.63	1.66
5	2017	1,667.79	2.18	10	2015	1,662.07	1.24

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: February 3, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 27	1,704.06	0.537	278	1,780.81	0.141	77
Sunday 28	1,704.04	0.534	277	1,780.94	0.144	78
Monday 29	1,703.99	0.529	274	1,780.98	0.146	78
Tuesday 30	1,703.90	0.518	270	1,780.94	0.144	77
Wednesday 31	1,703.80	0.504	265	1,780.89	0.143	77
Thursday 1	1,703.67	0.489	260	1,780.82	0.141	76
Friday 2	1,703.57	0.476	256	1,780.76	0.139	75
Saturday 3	1,703.47	0.464	252	1,780.68	0.137	75
CHANGE IN STORAGE		-0.073			-0.004	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2021	1,703.73	0.497	1	2020	1,781.17	0.151
2	2022	1,703.62	0.482	2	2024	1,780.68	0.137
3	2024	1,703.47	0.464	3	2021	1,780.55	0.133
4	2023	1,703.27	0.438	4	2023	1,780.14	0.120
5	2020	1,703.24	0.435	5	2022	1,780.03	0.117

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: February 10, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 3	1,703.47	0.464	252	1,780.68	0.137	75
Sunday 4	1,703.35	0.448	248	1,780.61	0.135	74
Monday 5	1,703.24	0.435	132	1,780.52	0.132	73
Tuesday 6	1,703.27	0.438	50	1,780.43	0.129	72
Wednesday 7	1,703.31	0.443	51	1,780.34	0.126	53
Thursday 8	1,703.32	0.444	51	1,780.32	0.126	34
Friday 9	1,703.34	0.447	51	1,780.29	0.125	34
Saturday 10	1,703.34	0.447	51	1,780.27	0.124	34
CHANGE IN STORAGE		-0.018			-0.012	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,703.57	0.476	1	2020	1,780.66	0.136
2	2021	1,703.55	0.476	2	2021	1,780.45	0.130
3	2024	1,703.34	0.473	3	2024	1,780.27	0.124
4	2023	1,703.28	0.447	4	2023	1,779.98	0.116
5	2020	1,703.23	0.439	5	2022	1,779.96	0.115

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1786.19) 0.297 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: February 17, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 10	1,703.34	0.447	51	1,780.27	0.124	34
Sunday 11	1,703.38	0.453	51	1,780.34	0.126	35
Monday 12	1,703.43	0.459	52	1,780.41	0.129	35
Tuesday 13	1,703.48	0.466	52	1,780.45	0.130	35
Wednesday 14	1,703.46	0.463	52	1,780.44	0.129	35
Thursday 15	1,703.52	0.469	52	1,780.45	0.130	35
Friday 16	1,703.54	0.472	52	1,780.44	0.129	35
Saturday 17	1,703.59	0.478	53	1,780.44	0.129	35
CHANGE IN STORAGE		0.031			0.005	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	1,703.59	0.478	1	2024	1,780.44	0.129
2	2022	1,703.50	0.468	2	2023	1,780.44	0.129
3	2023	1,703.46	0.463	3	2021	1,780.35	0.127
4	2021	1,703.37	0.451	4	2020	1,780.05	0.118
5	2020	1,703.05	0.410	5	2022	1,779.81	0.111

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: February 24, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 17	1,703.59	0.478	53	1,780.44	0.129	35
Sunday 18	1,703.61	0.481	53	1,780.43	0.129	35
Monday 19	1,703.62	0.482	53	1,780.42	0.129	35
Tuesday 20	1,703.63	0.484	53	1,780.38	0.128	35
Wednesday 21	1,703.64	0.486	80	1,780.35	0.127	35
Thursday 22	1,703.61	0.481	99	1,780.32	0.126	35
Friday 23	1,703.58	0.477	99	1,780.31	0.126	34
Saturday 24	1,703.56	0.474	99	1,780.29	0.125	34
CHANGE IN STORAGE		-0.004			-0.004	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,703.92	0.521	1	2022	1,781.32	0.156
2	2023	1,703.57	0.476	2	2023	1,780.78	0.140
3	2024	1,703.56	0.474	3	2024	1,780.29	0.125
4	2021	1,703.18	0.427	4	2021	1,780.24	0.123
5	2020	1,702.86	0.386	5	2020	1,779.48	0.101

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER