



Annual Water License Report

TALTSON HYDRO FACILITY
WATER LICENCE NO. MV2011L4-0002

FOR THE CALENDAR YEAR
2019

SUBMITTED TO
THE MACKENZIE VALLEY LAND AND WATER BOARD



Daily Water Flows and Levels

Detailed daily data on water flow, spill, and forebay levels is attached. The data collected is based on hourly readings, which allow accurate identification of any exceptions to the limits. There were no exceptions to the license limits during the 2019 calendar year.

The Water Survey Canada Gauge at Nonacho Lake (07QD002) started failing to report data in mid-August 2019. This instrumentation worked only intermittently for the remainder of the reporting period. Missing data has been interpolated from collected values in this report to provide necessary inputs for calculated results such as the spill volume at Nonacho Lake. Interpolated values are identified by shaded and italicized text in the data tables for Nonacho Lake.

Modifications and Major Maintenance

No major maintenance or modifications were completed in 2019.

Annual Maintenance

- Inspect headgate
- Inspect inside penstock
- Inspect runner with particular attention to cavitation repairs
- Check turbine bearing data
- Service greasing system as required
- Replace all wicket gate link shear pins
- Inspect and clean generator
- Check shutdowns
- Service governor HPU and charge accumulators
- Check wicket gate clearances
- Check runner clearances
- Verify operation of wicket gate mechanism and check timing
- Service plant air compressors and dewatering pumps
- Overhead crane inspection

Taltson Spillway

No work was completed, the spillway has been continuously spilling since 1987.

Nonacho Spillway

Since 2010 the control gates have only been operated once: on June 5, 2014 when one gate was closed. All gates have been closed since and gates have not been operated. Brushing of the dam and intake structure was completed in August 2016.

Engagement

In general NTPC openly engages with the public regarding the South Slave electrical system by:

- Providing information about electricity generation, transmission and distribution on the NTPC website (www.ntpc.com);
- Providing information about outages, safety, employment opportunities, community donations and other matters through:
- NTPC Facebook page (<https://www.facebook.com/NTPC-Northwest-Territories-Power-Corporation-591764887576712/>);

- Twitter (https://twitter.com/ntpc_news?lang=en);
- Issuing news releases on significant issues;

In May 2019 NTPC submitted an application for Type B Water Licence and Type A Land Use permit for the Taltson Winter Road. A detailed engagement process was undertaken before submitting the application. The engagement process was guided by the *Taltson Winter Road Engagement Plan* which was developed through consideration of the MVLWB Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits, and the MVLWB Engagement and Consultation Policy. The details of this engagement process are presented in the *Taltson Winter Road Engagement Log* which was submitted as part of the application package in May 2019.

Engagement under the water licence for the Taltson Facility is guided by the *Taltson Public Engagement Plan for Affected Water Users*. Engagement that took place under the water licence in 2019 included:

- Inquiry from Environmental Contaminants Research, Office of the Chief Public Health Officer, Department of Health and Social Services, Government of the Northwest Territories on January 30, 2019 regarding information on Fisheries Monitoring for Taltson and specifically what data was available for Mercury analysis.
 - NTPC responded on January 31, 2019 with a copy of the Aquatic Effects Monitoring Program for Water Licence MV2011L4-0002 and a copy of 2013 Mercury in Sediment and Fish Flesh Monitoring Report. NTPC also stated that Mercury monitoring was planned to take place in 2019 and results would be available in early 2020.
- On April 24, 2019 Myles Carter from Nonacho Lake Fishing Lodge phoned Matt Miller and followed up with an email to request that “Could I please ask of NTPC when out there this summer 2019, if they would open up at least 1 or possibly 2 of gates to help relieve some of the water level pressure for us at Nonacho Lake lodge.”
 - After internal discussions with operations Matt Miller phoned Myles on May 6, 2019 and followed up with an email to state “As discussed on the phone NTPC will not be able to commit to opening any gates in 2019 as there are uncertainties if the inspection will go ahead as planned with the divers therefore the opportunity to open a gate will not likely happen. As always NTPC will ensure its water licence conditions are met. Please let me know if there is any other information we can provide and thanks for your time.”
- On July 3, 2019 Karl Cox from Aurora College contacted NTPC to inquire “Hello, I am wondering if your upcoming work at the Taltson site over the next 3 years will involve any increased water discharges? I look after the camp Aurora College has on Tsu lake and I am planning a bunch of work on our dock over the next summer or two. I am also hoping to recover a floating dock that is grounded on another portion of the lake if the water comes up enough to get it off shore. I understand, of course, that the water levels are variable and subject to many influences, but if you have any changes in planned discharges I may be able to better plan for it and possibly use it to my advantage. Thanks Karl Cox Technician/Instructor, Aurora College”
 - On July 4, 2019 NTPC responded “The Taltson Facility uses far less water than it spills through the spillway and is operated similar to a run-of-river generation facility and in compliance with the terms and conditions of NTPC’s licences and permits. This results in the facility having minimal impact to the natural flow and water levels throughout the Taltson system.”

Dam Safety

Annual Inspections

The *2019 Annual Inspection Report- NTPC Hydro Dams* was completed in 2019. Since this point the *2020 Annual Inspection Report- NTPC Hydroelectric Dams- Bluefish, Taltson and Snare Developments* was completed in 2020 and the *2020 Annual Dam Safety Inspection Report MVLWB Response Letter* was submitted to the MVLWB in October 2020. To ensure the most up to date results are presented the recommendations from the 2020 annual inspections are presented below:

- **General**
 - *The crest of all Dams be surveyed the year before the next scheduled periodic Dam Safety Review or more often depending on the results of visual inspections*
 - ***NTPC Response- The Taltson Hydro Dam Safety Review will be carried out in 2020 and early 2021. As part of the scope of the Dam Safety Review surveys will be completed at all dams for the Taltson Facility.***
 - *Clearing of brush and trees be carried out as required to permit full visual inspection of the Dams.*
 - ***NTPC Response- Clearing of brush is part of NTPC's operational and maintenance practices.***
- **Twin Gorges Dam:**
 - *No action required. The Dam is in satisfactory condition and leakage is well monitored.*
- **North Valley Dam**
 - *The Dam is in satisfactory condition.*
 - *It is recommended to carry out a topographic survey to check and investigate the "Height of Land" downstream of the Dam,*
 - ***NTPC Response: Will be completed in 2021 as part of the Comprehensive Dam Safety Review***
- **Nonacho Dam and Spillway**
 - *Clearing of the crest is recommended to improve visual inspections and surveying of settlement points.*
 - ***NTPC Response- Survey will be completed as part of the Dam Safety Review in 2021, brushing will be completed in 2021.***

Comprehensive Dam Safety Review

The Taltson Hydro Comprehensive Dam Safety Review was scheduled to be completed in 2020. Due to lack of capacity due to COVID-19, Taltson Overhaul and vacant positions (NTPC Dam Safety Engineer position was vacant most of 2020, interim DSE was acting) the Taltson DSR will be completed in 2021 and submitted to the MVLWB by September 30, 2021.

Emergency Preparedness

Revisions to the Emergency Preparedness Plan

There were no revisions in 2019.

Revisions to the Spill Contingency Plan

There were no revisions in 2019.

Communications and Spill Training Exercises

All new employees received training in the Spill Response Plan, Spill Response training, an introduction to the Hazardous Waste Management Plan and the Environmental Management System. Training in these systems is reviewed every three years. Spill procedures and contact numbers are posted in the plant control room, Spill

Response Plans and spill response kits and materials are present in the plant. Spill response equipment was reviewed and updated in 2019 with additional/replacement spill response kits placed at key locations throughout the site as identified in the Spill Response Plan.

Unauthorized Discharges

There were no unauthorized discharges in 2019.

Abandonment and Reclamation Plan

There were no revisions in 2019.

Operations and Maintenance Plan

There were no revisions in 2019.

Geotechnical and Other Work

No work completed in 2019

Regulatory Inspections

A site inspection for water licence MV2011L4-0002 was completed by the GNWT Department of Environment and Natural Resources Water Resource Officer on September 25, 2019 with support from NTPC staff.

Environmental

Aquatic Effects Monitoring Program

As per the monitoring schedule in Table ES1 of the *Taltson Twin Gorges Generating Station Aquatic Effects Monitoring Plan* (AEMP), a Riparian Habitat and Fish Usage Assessment, a Mercury in Sediment and Fish Flesh Monitoring Program and a Taltson Hec-ResSIM Hydrologic Model Update were due to be completed in 2019. Sediment and Erosion Monitoring was also required in 2019 under water licence MV2011L4-00002 along with the submission of an updated Sediment and Erosion Management Plan as per the May 10, 2018 MVLWB letter to NTPC.

To meet these requirements NTPC developed a joint Riparian Habitat and Fish Usage Assessment, Mercury in Sediment and Fish Flesh Monitoring and Sediment and Erosion Monitoring program that was completed in 2019. This was an extensive field monitoring program that occurred over a large area of the Taltson basin over August and September 2019. Crews were based out of Rutledge Lake Lodge, Nonacho Lake Lodge, Taltson Hydro Facility and Fort Smith to complete the work.

The overall objective of the Mercury in Sediment and Fish Flesh Monitoring Program was to collect data to address concerns about mercury that were identified during regulatory review processes. Specific objectives were related to assessing potential effects on human health and aquatic life, and to analyse the overall trend of mercury concentrations in fish flesh in the study area. The specific objectives were to:

- Collect data on mercury concentration levels within sediment and fish flesh within Nonacho Lake, Trudel Creek and Rutledge Lake (control lake);
- Identify trends in mercury concentrations;
- Determine if mercury concentrations in fish are above guidelines for human consumption and for the protection of aquatic life; and
- Conduct an internal examination of sacrificed fish for parasites, stomach content analysis, aging structures and stable isotope analysis.

The overall objective of the Riparian Habitat and Fish Use Monitoring Program was to monitor changes in littoral and riparian habitats and the associated fish community along the Taltson River from Nonacho Lake to the Facility to understand the effects of flow regulation. In 2019, riparian habitat and fish use monitoring was successfully completed in accordance with the AEMP. Monitoring involved three components: 1) aerial photograph collection, 2) littoral and riparian vegetation sampling, and 3) fish and fish habitat monitoring. The program focused on sites in Lady Gray Lake, Nonacho Lake, Rutledge Lake, the lower Taltson River, Trudel Creek/ Lake, and the Facility forebay.

The results of both programs were summarized in the *2019 Mercury in Sediment and Fish Flesh Monitoring* and *2019 Riparian Habitat and Fish Use Assessment* reports which were submitted to the MVLWB on May 13, 2020. Both reports underwent the Online Review process and NTPC responded to comments from reviewers and stakeholders through this process. Both reports are available on the MVLWB registry.

The Taltson Hec-ResSIM Hydrologic Model Update was deferred to 2020 and would be submitted to the MVLWB by December 31, 2020

Sediment & Erosion

As per the Schedule of the Sediment & Erosion Management Plan for Taltson Water license Sediment and Erosion Monitoring was completed at all erosion stations throughout Nonacho Lake and Trudel Creek in 2019. Continuous turbidity monitoring equipment was installed in June 2019. The 2019 Sediment & Erosion Management Plan was submitted to the MVLWB on December 6, 2019 and includes methods and results for the 2019 monitoring program. After going through the public review process the plan was approved on February 13, 2020. The updated plan is available on the MVLWB registry.

Based on the results it was concluded that the effects of the continued operation of the Taltson Twin Gorges Generating Station on existing erosion rates are not significant at Nonacho Lake and are significant at Trudel Creek. Due to the finding of the significant erosion on Trudel Creek, an assessment of the effects on the aquatic environment was completed, resulting in an assignment of medium risk to the aquatic environment,

Based on the evaluation framework detailed in the original SEMP the findings of the risk assessment to the aquatic ecosystem indicates that mitigation actions are not required, but that ongoing monitoring of erosion rates is necessary.

One of the comments from MVLWB's Public Review of the SEMP in 2018 was that low-level mitigation options should be considered even if the effects to the aquatic environment were medium. In response to this a variety of site specific sediment and erosion mitigation options were investigated and assessed based on feasibility.

All mitigation options were determined to be unfeasible with the exception of the possibility of implementing erosion control measures on the Taltson powerhouse road. In 2020 NTPC will investigate which specific erosion control measures could be installed along the powerhouse road in more detail and implement these measures if feasible.

NTPC will complete a similar monitoring program to the one presented here during the 2026 monitoring period that was specified in the original SEMP from 2012 and verified in this investigation.

Fisheries Act Authorization

In 2014, the Trudel Creek and Lower Taltson River Fish Stranding Monitoring verified fish mortality during the annual maintenance shutdown. During shutdown, approximately 700 m of river downstream of the generating station (and upstream of Elsie Falls) is dewatered. Fish become stranded in the dewatered area, causing mortality. Due to the incidence of fish mortalities during the annual shutdown, then DFO became the lead regulator under the *Fisheries Act* and it was determined that a Fisheries Act Authorization (FAA) would be required.

Since 2014, as part of the first steps in obtaining a FAA, NTPC has been working closely with DFO to define and mitigate the fish stranding mortalities that occur during shutdowns at Taltson Hydro. Monitoring was completed for the annual maintenance shutdowns from 2014 to 2017 to determine the species, age and number of fish stranded in various areas, and defined fish habitat in the tailrace through the upstream barrier of the dam and the downstream barrier of Elsie Falls.

Mitigation measures were implemented and tested, such as Night-Time Ramping Shutdown with Pulse Flow which resulted in a 30% reduction in fish mortalities and fish salvage which was carried out for each shutdown. Using the monitoring results NTPC worked with DFO to quantify the fish mortality related to annual shutdowns at Taltson Hydro.

In 2018 NTPC prepared an FAA application that included mitigation and offsetting measures to account for the equivalent fish mortalities for the shutdown. As part of the FAA application NTPC consulted with all applicable - indigenous government organizations around the Taltson Basin to gather input on offsetting and mitigation plans.

NTPC submitted the FAA for the Taltson Twin Gorges Generating Station and Facilities to DFO in November 2018.

In 2019 NTPC received a Animal Use Permit for the aquatic effects monitoring program.

Hazardous Materials Management

The Hazardous Materials Management Plan was approved in 2012 and updated in 2015. There were no changes in 2019.

Compliance Summary – 2019

Table 1: Taltson 2019 Forebay Levels, Flow and Spill

	Mean kW	Max. FB (m)	Min. FB (m)	Mean FB (m)	Max. Flow m³/s	Min. Flow m³/s	Mean Flow m³/s	Mean Spill m³/s
Jan	10,236	239.85	239.63	239.70	39.67	31.28	36.38	170.08
Feb	10,249	239.71	239.61	239.65	39.34	31.53	36.43	136.16
Mar	8,350	239.60	239.52	239.56	37.38	26.06	29.70	89.82
Apr	7,260	239.56	239.50	239.53	30.77	22.52	25.80	71.27
May	6,747	239.62	239.55	239.59	27.41	21.42	23.98	104.48
Jun	6,459	239.71	239.62	239.68	25.22	19.86	22.94	153.38
Jul	6,404	239.74	239.71	239.73	25.59	20.32	22.75	185.52
Aug	2,829	239.76	239.72	239.73	22.68	0.00	10.05	185.07
Sep	6,667	239.73	239.72	239.73	26.08	20.77	23.70	186.38
Oct	7,710	239.74	239.70	239.71	31.56	24.72	27.42	177.22
Nov	8,944	239.73	239.70	239.72	35.01	27.74	31.85	179.77
Dec	10,061	239.75	239.69	239.70	40.41	31.97	35.91	170.00

Surveillance Network Program Reports

Taltson HYDRO STATION
LICENSE NO. MV2011L4-0002

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Jan	97.143	239.70	208.53	9.21	32.78	168.49	201.26
2-Jan	97.08	239.66	208.51	8.87	31.58	146.40	177.98
3-Jan	97.009	239.69	208.49	8.80	31.28	163.25	194.53
4-Jan	97.035	239.69	208.49	9.13	32.46	159.46	191.92
5-Jan	97.036	239.69	208.49	9.19	32.68	159.46	192.14
6-Jan	97.013	239.68	208.49	9.14	32.49	153.82	186.31
7-Jan	97.06	239.84	208.50	10.23	36.19	262.80	298.99
8-Jan	97.148	239.84	208.53	10.48	37.11	262.80	299.90
9-Jan	97.148	239.85	208.53	10.90	38.58	274.04	312.62
10-Jan	97.154	239.70	208.53	10.77	38.31	167.08	205.39
11-Jan	97.09	239.80	208.51	9.88	35.04	234.30	269.34
12-Jan	96.977	239.68	208.48	9.50	33.77	153.82	187.59
13-Jan	96.991	239.67	208.48	10.25	36.45	151.95	188.40
14-Jan	97.08	239.67	208.51	10.70	38.07	150.10	188.16
15-Jan	97.086	239.67	208.51	10.99	39.11	150.10	189.20
16-Jan	97.078	239.66	208.51	10.98	39.07	146.40	185.47
17-Jan	97.086	239.66	208.51	11.01	39.21	146.40	185.61
18-Jan	97.053	239.67	208.50	11.15	39.67	151.95	191.62
19-Jan	96.99	239.70	208.48	10.45	37.14	167.08	204.22
20-Jan	96.942	239.72	208.47	9.73	34.52	178.73	213.25
21-Jan	96.961	239.72	208.47	10.11	35.89	180.70	216.59
22-Jan	97.014	239.70	208.49	10.92	38.79	170.93	209.72
23-Jan	97.053	239.69	208.50	10.91	38.81	159.46	198.27
24-Jan	97.044	239.68	208.50	10.95	38.97	153.82	192.78
25-Jan	97.01	239.69	208.49	10.37	36.87	159.46	196.32
26-Jan	96.946	239.69	208.47	9.94	35.31	159.46	194.76
27-Jan	96.94	239.69	208.46	9.90	35.19	159.46	194.64
28-Jan	97.043	239.65	208.50	10.78	38.39	139.12	177.50
29-Jan	97.089	239.63	208.51	10.60	37.77	128.42	166.19
30-Jan	97.026	239.67	208.49	10.68	38.00	151.95	189.95
31-Jan	96.972	239.69	208.47	10.80	38.39	161.35	199.74
MEAN	97.04	239.70	208.50	10.24	36.38	170.08	206.46

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Feb	96.999	239.66	208.48	10.99	39.08	146.40	185.49
2-Feb	97.008	239.66	208.49	10.83	38.52	142.74	181.26
3-Feb	96.981	239.68	208.48	10.86	38.61	157.57	196.18
4-Feb	96.96	239.70	208.47	11.06	39.27	169.00	208.28
5-Feb	96.94	239.68	208.46	11.06	39.29	157.57	196.86
6-Feb	96.92	239.70	208.46	11.08	39.34	167.08	206.41
7-Feb	96.9	239.71	208.45	10.98	38.95	172.87	211.82
8-Feb	96.88	239.70	208.45	10.75	38.13	169.00	207.14
9-Feb	96.86	239.70	208.44	10.15	36.01	169.00	205.01
10-Feb	96.852	239.70	208.44	9.48	33.63	167.08	200.71
11-Feb	96.86	239.70	208.44	9.75	34.61	167.08	201.69
12-Feb	96.92	239.66	208.46	10.30	36.60	144.57	181.17
13-Feb	96.929	239.66	208.46	10.34	36.75	144.57	181.32
14-Feb	96.91	239.63	208.46	10.26	36.51	126.66	163.17
15-Feb	96.873	239.62	208.44	10.37	36.89	118.01	154.90
16-Feb	96.817	239.62	208.43	9.85	35.01	118.01	153.02
17-Feb	96.83	239.62	208.43	10.19	36.25	118.01	154.26
18-Feb	96.848	239.61	208.44	10.26	36.50	112.92	149.42
19-Feb	96.812	239.61	208.43	9.94	35.36	112.92	148.28
20-Feb	96.81	239.61	208.43	10.08	35.85	114.61	150.45
21-Feb	96.807	239.61	208.42	9.67	34.40	114.61	149.00
22-Feb	96.779	239.61	208.42	9.76	34.70	114.61	149.30
23-Feb	96.79	239.61	208.42	9.88	35.15	114.61	149.75
24-Feb	96.81	239.61	208.42	10.12	35.98	114.61	150.59
25-Feb	96.831	239.61	208.43	10.37	36.89	114.61	151.50
26-Feb	96.764	239.61	208.41	9.63	34.23	114.61	148.84
27-Feb	96.728	239.61	208.40	8.87	31.53	114.61	146.13
28-Feb	96.781	239.61	208.42	10.13	36.00	114.61	150.61
MEAN	96.86	239.65	208.44	10.25	36.43	136.16	172.59

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Mar	96.781	239.58	208.42	10.50	37.38	101.33	138.71
2-Mar	96.75	239.58	208.41	10.12	36.00	101.33	137.33
3-Mar	96.74	239.59	208.40	9.60	34.14	104.59	138.74
4-Mar	96.733	239.60	208.40	9.68	34.43	109.56	143.99
5-Mar	96.728	239.59	208.40	9.43	33.54	106.24	139.78
6-Mar	96.72	239.59	208.40	9.30	33.05	106.24	139.29
7-Mar	96.712	239.59	208.40	9.06	32.22	106.24	138.46
8-Mar	96.71	239.59	208.39	9.10	32.35	106.24	138.59
9-Mar	96.691	239.59	208.39	9.01	32.03	106.24	138.28
10-Mar	96.702	239.59	208.39	8.31	29.55	102.96	132.51
11-Mar	96.703	239.58	208.39	8.25	29.32	99.71	129.03
12-Mar	96.69	239.58	208.39	8.44	30.02	98.09	128.11
13-Mar	96.72	239.58	208.40	8.65	30.77	98.09	128.86
14-Mar	96.735	239.56	208.40	8.75	31.17	87.05	118.22
15-Mar	96.686	239.55	208.39	8.30	29.54	83.98	113.52
16-Mar	96.642	239.56	208.37	7.85	27.90	88.60	116.51
17-Mar	96.646	239.56	208.38	7.55	26.84	88.60	115.44
18-Mar	96.678	239.56	208.39	7.88	28.05	88.60	116.65
19-Mar	96.7	239.55	208.39	7.55	26.87	83.98	110.86
20-Mar	96.676	239.55	208.38	7.56	26.90	82.46	109.36
21-Mar	96.685	239.55	208.39	7.63	27.14	80.95	108.09
22-Mar	96.665	239.54	208.38	7.42	26.40	79.44	105.84
23-Mar	96.659	239.54	208.38	7.58	26.99	79.44	106.43
24-Mar	96.646	239.54	208.38	7.51	26.72	79.44	106.16
25-Mar	96.639	239.54	208.37	7.68	27.31	79.44	106.75
26-Mar	96.592	239.54	208.36	7.67	27.27	79.44	106.71
27-Mar	96.577	239.54	208.35	7.95	28.27	79.44	107.72
28-Mar	96.54	239.52	208.34	7.97	28.34	70.62	98.96
29-Mar	96.507	239.52	208.33	7.90	28.11	70.62	98.73
30-Mar	96.458	239.52	208.32	7.33	26.06	67.76	93.82
31-Mar	96.436	239.52	208.31	7.34	26.07	67.76	93.83
MEAN	96.66	239.56	208.38	8.35	29.70	89.82	119.53

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Apr	96.462	239.51	208.32	8.00	28.44	66.34	94.79
2-Apr	96.457	239.50	208.32	8.30	29.52	60.78	90.30
3-Apr	96.446	239.50	208.31	8.47	30.11	60.78	90.89
4-Apr	96.421	239.50	208.31	8.65	30.77	60.78	91.55
5-Apr	96.401	239.50	208.30	8.40	29.88	58.06	87.94
6-Apr	96.346	239.50	208.28	7.90	28.05	60.78	88.83
7-Apr	96.34	239.51	208.28	7.43	27.10	60.78	87.87
8-Apr	96.372	239.50	208.29	7.63	27.10	60.78	87.87
9-Apr	96.36	239.50	208.29	7.29	25.89	60.78	86.67
10-Apr	96.341	239.50	208.28	7.18	25.52	60.78	86.30
11-Apr	96.34	239.50	208.28	7.18	25.52	60.78	86.30
12-Apr	96.35	239.50	208.29	7.04	25.00	60.78	85.78
13-Apr	96.329	239.51	208.28	6.51	23.12	66.34	89.47
14-Apr	96.362	239.52	208.29	6.66	23.65	67.76	91.41
15-Apr	96.44	239.52	208.31	7.40	26.30	69.19	95.48
16-Apr	96.451	239.52	208.32	7.05	25.07	70.62	95.69
17-Apr	96.43	239.53	208.31	6.88	24.42	73.52	97.95
18-Apr	96.432	239.53	208.31	6.82	24.23	74.99	99.22
19-Apr	96.421	239.54	208.31	6.34	22.52	79.44	101.96
20-Apr	96.447	239.54	208.31	6.54	23.23	79.44	102.68
21-Apr	96.454	239.54	208.32	6.35	22.57	79.44	102.01
22-Apr	96.458	239.55	208.32	6.53	23.19	82.46	105.65
23-Apr	96.488	239.54	208.33	6.94	24.67	79.44	104.11
24-Apr	96.518	239.55	208.34	6.88	24.46	82.46	106.92
25-Apr	96.532	239.55	208.34	7.23	25.71	82.46	108.17
26-Apr	96.532	239.55	208.34	7.16	25.44	82.46	107.90
27-Apr	96.511	239.55	208.33	6.79	24.13	82.46	106.59
28-Apr	96.51	239.55	208.33	6.78	24.10	82.46	106.56
29-Apr	96.553	239.56	208.35	7.60	27.01	87.05	114.06
30-Apr	96.582	239.55	208.36	7.86	27.95	83.98	111.94
MEAN	96.44	239.53	208.31	7.26	25.80	71.27	97.10

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-May	96.556	239.55	208.35	7.71	27.41	85.51	112.93
2-May	96.538	239.56	208.34	7.53	26.75	87.05	113.81
3-May	96.544	239.56	208.34	7.25	25.75	87.05	112.80
4-May	96.537	239.56	208.34	6.95	24.71	87.05	111.76
5-May	96.534	239.56	208.34	6.91	24.56	87.05	111.62
6-May	96.575	239.56	208.35	7.23	25.70	87.05	112.75
7-May	96.568	239.56	208.35	6.95	24.72	87.05	111.77
8-May	96.56	239.57	208.35	6.61	23.47	94.89	118.37
9-May	96.573	239.58	208.35	6.77	24.05	98.09	122.14
10-May	96.614	239.58	208.37	6.98	24.82	96.49	121.31
11-May	96.614	239.58	208.37	6.40	22.74	96.49	119.23
12-May	96.591	239.58	208.36	6.54	23.24	96.49	119.73
13-May	96.675	239.58	208.38	7.12	25.31	96.49	121.80
14-May	96.691	239.58	208.39	7.00	24.90	96.49	121.38
15-May	96.698	239.59	208.39	7.17	25.49	106.24	131.73
16-May	96.695	239.59	208.39	6.88	24.47	104.59	129.06
17-May	96.69	239.59	208.39	6.62	23.53	104.59	128.13
18-May	96.674	239.61	208.38	6.03	21.42	112.92	134.33
19-May	96.685	239.61	208.39	6.03	21.43	112.92	134.35
20-May	96.706	239.61	208.39	6.33	22.49	114.61	137.09
21-May	96.739	239.61	208.40	6.71	23.86	114.61	138.46
22-May	96.735	239.61	208.40	6.65	23.65	116.30	139.95
23-May	96.734	239.61	208.40	6.74	23.94	116.30	140.25
24-May	96.739	239.61	208.40	6.61	23.50	116.30	139.80
25-May	96.717	239.61	208.40	6.11	21.70	116.30	138.01
26-May	96.716	239.62	208.40	6.21	22.07	121.45	143.51
27-May	96.746	239.62	208.41	6.59	23.42	119.72	143.15
28-May	96.736	239.62	208.40	6.75	23.98	119.72	143.70
29-May	96.732	239.62	208.40	6.58	23.37	119.72	143.10
30-May	96.732	239.62	208.40	6.57	23.33	119.72	143.05
31-May	96.726	239.62	208.40	6.62	23.51	119.72	143.24
MEAN	96.66	239.59	208.38	6.75	23.98	104.48	128.46

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Jun	96.693	239.62	208.39	6.22	22.08	121.45	143.52
2-Jun	96.684	239.63	208.39	6.07	21.54	124.92	146.45
3-Jun	96.74	239.63	208.40	6.72	23.86	124.92	148.77
4-Jun	96.762	239.62	208.41	6.76	24.03	121.45	145.48
5-Jun	96.776	239.63	208.41	6.87	24.40	128.42	152.81
6-Jun	96.797	239.63	208.42	6.60	23.45	128.42	151.87
7-Jun	96.821	239.64	208.43	6.95	24.71	133.73	158.44
8-Jun	96.825	239.64	208.43	6.43	22.83	133.73	156.56
9-Jun	96.841	239.66	208.43	6.32	22.46	140.93	163.38
10-Jun	96.889	239.66	208.45	6.74	23.94	142.74	166.69
11-Jun	96.897	239.66	208.45	6.71	23.85	146.40	170.26
12-Jun	96.908	239.67	208.46	6.58	23.38	150.10	173.47
13-Jun	96.911	239.68	208.46	6.50	23.09	155.69	178.78
14-Jun	96.941	239.68	208.47	6.56	23.30	155.69	178.99
15-Jun	96.92	239.69	208.46	6.14	21.82	159.46	181.27
16-Jun	96.928	239.69	208.46	6.29	22.35	159.46	181.80
17-Jun	96.975	239.69	208.48	7.10	25.22	159.46	184.67
18-Jun	96.975	239.69	208.48	6.90	24.51	159.46	183.96
19-Jun	96.975	239.70	208.48	6.31	22.41	170.93	193.34
20-Jun	96.975	239.70	208.48	6.40	22.72	170.93	193.65
21-Jun	96.975	239.70	208.48	5.59	19.86	170.93	190.79
22-Jun	96.974	239.70	208.48	5.92	21.03	170.93	191.96
23-Jun	96.977	239.70	208.48	5.96	21.18	170.93	192.11
24-Jun	97.017	239.70	208.49	6.68	23.73	170.93	194.67
25-Jun	97.004	239.70	208.48	6.63	23.55	170.93	194.48
26-Jun	96.999	239.70	208.48	6.63	23.55	170.93	194.48
27-Jun	97.001	239.70	208.48	6.71	23.84	170.93	194.78
28-Jun	97	239.70	208.48	6.66	23.66	170.93	194.60
29-Jun	96.981	239.70	208.48	5.99	21.28	170.93	192.21
30-Jun	96.989	239.71	208.48	5.84	20.74	174.82	195.56
MEAN	96.91	239.68	208.45	6.46	22.94	153.38	176.33

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Jul	97.022	239.71	208.49	6.04	21.45	174.82	196.27
2-Jul	97.058	239.71	208.50	6.36	22.59	176.77	199.37
3-Jul	97.043	239.71	208.50	6.35	22.56	176.77	199.33
4-Jul	97.054	239.72	208.50	6.41	22.77	178.73	201.50
5-Jul	97.053	239.72	208.50	6.48	23.04	178.73	201.77
6-Jul	97.039	239.72	208.50	6.05	21.48	178.73	200.21
7-Jul	97.051	239.72	208.50	5.75	20.43	178.73	199.16
8-Jul	97.081	239.72	208.51	6.24	22.17	178.73	200.90
9-Jul	97.069	239.72	208.50	6.18	21.97	178.73	200.70
10-Jul	97.064	239.72	208.50	6.33	23.42	182.67	206.09
11-Jul	97.069	239.72	208.50	6.59	23.42	182.67	206.09
12-Jul	97.073	239.72	208.51	6.24	22.18	182.67	204.85
13-Jul	97.054	239.72	208.50	5.78	20.51	182.67	203.19
14-Jul	97.078	239.73	208.51	5.94	21.11	188.64	209.75
15-Jul	97.122	239.73	208.52	6.74	23.93	190.64	214.58
16-Jul	97.114	239.73	208.52	7.14	25.36	190.64	216.00
17-Jul	97.09	239.73	208.51	6.97	24.75	186.65	211.40
18-Jul	97.014	239.73	208.49	6.81	24.17	188.64	212.81
19-Jul	97.104	239.73	208.51	6.45	22.90	190.64	213.55
20-Jul	97.087	239.73	208.51	6.26	22.25	190.64	212.89
21-Jul	97.102	239.73	208.51	6.61	23.49	190.64	214.14
22-Jul	97.126	239.73	208.52	7.20	25.59	188.64	214.23
23-Jul	97.11	239.73	208.52	7.06	25.08	188.64	213.72
24-Jul	97.099	239.73	208.51	6.93	24.60	188.64	213.25
25-Jul	97.093	239.73	208.51	6.80	24.16	188.64	212.80
26-Jul	97.103	239.73	208.51	6.39	22.71	188.64	211.35
27-Jul	97.107	239.74	208.52	5.77	20.50	194.67	215.17
28-Jul	97.099	239.74	208.51	5.72	20.32	194.67	214.99
29-Jul	97.109	239.73	208.52	6.34	22.52	190.64	213.16
30-Jul	97.099	239.73	208.51	6.33	22.47	190.64	213.12
31-Jul	97.09	239.73	208.51	6.31	22.42	188.64	211.06
MEAN	97.08	239.73	208.51	6.40	22.75	185.52	208.30

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Aug	97.082	239.73	208.51	6.37	22.62	188.64	211.26
2-Aug	97.076	239.73	208.51	6.38	22.68	184.66	207.33
3-Aug	97.051	239.73	208.50	5.93	21.06	184.66	205.72
4-Aug	97.049	239.73	208.50	5.86	20.82	184.66	205.48
5-Aug	97.055	239.73	208.50	5.83	20.72	184.66	205.38
6-Aug	97.081	239.72	208.51	6.18	21.97	182.67	204.65
7-Aug	97.051	239.72	208.50	5.90	20.97	182.67	203.65
8-Aug	97.067	239.72	208.50	6.15	21.86	182.67	204.54
9-Aug	97.071	239.72	208.50	6.08	21.60	182.67	204.27
10-Aug	97.051	239.72	208.50	5.79	20.58	182.67	203.25
11-Aug	97.038	239.72	208.49	5.14	18.25	182.67	200.92
12-Aug	96.858	239.72	208.44	0.38	1.33	182.67	184.00
13-Aug	96.918	239.72	208.46	0.00	0.00	182.67	182.67
14-Aug	97.024	239.72	208.49	0.00	0.00	182.67	182.67
15-Aug	97.038	239.72	208.49	0.00	0.00	182.67	182.67
16-Aug	97.096	239.72	208.51	0.00	0.00	182.67	182.67
17-Aug	97.145	239.72	208.53	0.00	0.00	182.67	182.67
18-Aug	97.123	239.72	208.52	0.00	0.00	182.67	182.67
19-Aug	97.12	239.72	208.52	0.00	0.00	182.67	182.67
20-Aug	97.121	239.72	208.52	0.00	0.00	182.67	182.67
21-Aug	97.118	239.72	208.52	0.00	0.00	182.67	182.67
22-Aug	97.116	239.72	208.52	0.00	0.00	182.67	182.67
23-Aug	97.141	239.72	208.53	0.00	0.00	182.67	182.67
24-Aug	97.13	239.72	208.52	0.00	0.00	182.67	182.67
25-Aug	97.134	239.72	208.52	0.00	0.00	182.67	182.67
26-Aug	97.132	239.72	208.52	0.00	0.00	182.67	182.67
27-Aug	97.125	239.72	208.52	0.00	0.00	182.67	182.67
28-Aug	97.227	239.72	208.55	3.20	11.39	182.67	194.06
29-Aug	97.252	239.76	208.56	6.27	22.28	204.86	227.14
30-Aug	97.152	239.76	208.53	6.33	22.50	204.86	227.36
31-Aug	97.11	239.75	208.52	5.90	20.97	198.73	219.70
MEAN	97.09	239.73	208.51	2.83	10.05	185.07	195.12

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Sep	97.101	239.73	208.51	5.85	20.77	188.64	209.41
2-Sep	97.109	239.73	208.52	6.15	21.84	188.64	210.48
3-Sep	97.128	239.73	208.52	6.43	22.86	188.64	211.50
4-Sep	97.107	239.73	208.52	6.42	22.81	188.64	211.46
5-Sep	97.101	239.73	208.51	6.40	22.72	188.64	211.37
6-Sep	97.113	239.73	208.52	6.28	22.30	188.64	210.94
7-Sep	97.103	239.73	208.51	5.93	21.08	188.64	209.72
8-Sep	97.114	239.73	208.52	5.96	21.19	188.64	209.83
9-Sep	97.145	239.73	208.53	6.54	23.24	188.64	211.88
10-Sep	97.143	239.73	208.53	6.55	23.28	188.64	211.92
11-Sep	97.145	239.73	208.53	6.68	23.73	188.64	212.37
12-Sep	97.137	239.73	208.52	6.61	23.49	188.64	212.13
13-Sep	97.133	239.73	208.52	6.70	23.81	188.64	212.45
14-Sep	97.113	239.73	208.52	6.19	22.00	188.64	210.64
15-Sep	97.117	239.73	208.52	6.33	22.49	188.64	211.13
16-Sep	97.143	239.73	208.53	7.14	25.38	188.64	214.03
17-Sep	97.164	239.73	208.53	7.08	25.16	186.65	211.80
18-Sep	97.148	239.73	208.53	6.97	24.77	186.65	211.41
19-Sep	97.144	239.73	208.53	7.00	24.87	184.66	209.53
20-Sep	97.139	239.73	208.53	6.88	24.46	184.66	209.11
21-Sep	97.128	239.73	208.52	6.51	23.14	184.66	207.80
22-Sep	97.117	239.73	208.52	6.37	22.64	186.65	209.29
23-Sep	97.155	239.73	208.53	6.99	24.86	186.65	211.50
24-Sep	97.158	239.73	208.53	6.96	24.76	184.66	209.41
25-Sep	97.144	239.73	208.53	7.21	25.63	184.66	210.28
26-Sep	97.149	239.72	208.53	7.18	25.54	180.70	206.24
27-Sep	97.143	239.72	208.53	7.28	25.90	180.70	206.60
28-Sep	97.138	239.72	208.53	7.13	25.37	180.70	206.07
29-Sep	97.122	239.72	208.52	6.98	24.81	180.70	205.51
30-Sep	97.14	239.72	208.53	7.33	26.08	180.70	206.78
MEAN	97.13	239.73	208.52	6.67	23.70	186.38	210.09

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Oct	97.128	239.72	208.52	7.07	25.12	180.70	205.82
2-Oct	97.123	239.72	208.52	7.24	25.75	178.73	204.48
3-Oct	97.114	239.72	208.52	7.19	25.57	178.73	204.30
4-Oct	97.102	239.71	208.51	7.13	25.36	176.77	202.13
5-Oct	97.088	239.71	208.51	6.95	24.72	174.82	199.54
6-Oct	97.082	239.71	208.51	6.95	24.72	172.87	197.59
7-Oct	97.105	239.71	208.52	7.98	28.37	172.87	201.25
8-Oct	97.12	239.71	208.52	8.12	28.87	172.87	201.74
9-Oct	97.102	239.70	208.51	7.90	28.08	169.00	197.08
10-Oct	97.085	239.70	208.51	7.85	27.92	167.08	194.99
11-Oct	97.089	239.70	208.51	7.58	26.94	167.08	194.02
12-Oct	97.056	239.70	208.50	7.08	25.72	170.93	196.65
13-Oct	97.079	239.70	208.51	7.23	25.72	170.93	196.65
14-Oct	97.086	239.70	208.51	7.44	26.46	170.93	197.39
15-Oct	97.078	239.70	208.51	7.68	27.32	167.08	194.40
16-Oct	97.07	239.70	208.50	7.78	27.68	167.08	194.75
17-Oct	97.072	239.70	208.51	7.63	27.14	167.08	194.22
18-Oct	97.104	239.70	208.51	7.68	27.31	170.93	198.24
19-Oct	97.139	239.70	208.53	7.79	27.70	170.93	198.64
20-Oct	97.151	239.70	208.53	7.77	27.63	170.93	198.57
21-Oct	97.184	239.70	208.54	8.02	28.53	170.93	199.46
22-Oct	97.2	239.73	208.54	7.88	28.01	184.66	212.67
23-Oct	97.226	239.73	208.55	7.91	28.14	186.65	214.78
24-Oct	97.24	239.73	208.56	7.69	27.37	186.65	214.01
25-Oct	97.272	239.73	208.57	7.86	27.97	186.65	214.62
26-Oct	97.271	239.73	208.57	7.73	27.49	186.65	214.14
27-Oct	97.258	239.74	208.56	8.07	28.71	192.66	221.36
28-Oct	97.295	239.74	208.57	8.66	30.83	192.66	223.49
29-Oct	97.281	239.73	208.57	8.87	31.56	190.64	222.20
30-Oct	97.253	239.73	208.56	8.28	29.47	188.64	218.12
31-Oct	97.266	239.73	208.56	8.02	28.54	188.64	217.19
MEAN	97.15	239.71	208.53	7.71	27.42	177.22	204.66

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Nov	97.26	239.73	208.56	7.80	27.74	187.79	215.53
2-Nov	97.246	239.73	208.56	8.02	28.52	187.79	216.32
3-Nov	97.247	239.72	208.56	8.00	28.47	181.28	209.75
4-Nov	97.262	239.72	208.56	8.87	31.56	181.28	212.84
5-Nov	97.247	239.72	208.56	8.88	31.59	181.28	212.87
6-Nov	97.238	239.72	208.56	9.01	32.06	181.28	213.34
7-Nov	97.251	239.72	208.56	9.22	32.81	181.28	214.09
8-Nov	97.239	239.72	208.56	8.93	31.79	181.28	213.07
9-Nov	97.24	239.72	208.56	8.75	31.16	181.28	212.43
10-Nov	97.231	239.72	208.55	8.92	31.73	181.28	213.01
11-Nov	97.24	239.72	208.56	8.93	31.76	181.28	213.04
12-Nov	97.25	239.72	208.56	9.11	32.44	181.28	213.71
13-Nov	97.265	239.72	208.56	9.29	33.08	181.28	214.36
14-Nov	97.242	239.72	208.56	9.37	33.35	181.28	214.63
15-Nov	97.229	239.71	208.55	9.21	32.80	174.84	207.64
16-Nov	97.221	239.71	208.55	8.81	31.35	174.84	206.20
17-Nov	97.249	239.71	208.56	9.83	35.01	174.84	209.86
18-Nov	97.253	239.70	208.56	9.60	34.19	168.49	202.68
19-Nov	97.239	239.71	208.56	9.55	34.01	174.84	208.86
20-Nov	97.228	239.71	208.55	9.15	32.57	174.84	207.42
21-Nov	97.304	239.71	208.58	8.69	30.96	174.84	205.81
22-Nov	97.255	239.71	208.56	8.55	30.46	174.84	205.30
23-Nov	97.227	239.72	208.55	7.87	27.99	181.28	209.27
24-Nov	97.237	239.72	208.56	8.08	28.77	181.28	210.05
25-Nov	97.287	239.72	208.57	9.51	33.87	181.28	215.15
26-Nov	97.309	239.72	208.58	9.46	33.69	181.28	214.96
27-Nov	97.281	239.72	208.57	9.64	34.33	181.28	215.61
28-Nov	97.355	239.72	208.59	9.73	34.68	181.28	215.96
29-Nov	97.596	239.72	208.66	9.02	32.20	181.28	213.48
30-Nov	97.692	239.72	208.69	8.53	30.51	181.28	211.78
MEAN	97.28	239.72	208.57	8.94	31.85	179.77	211.63

Twin Gorges

	07QD007	Forebay (m)	Tailrace (m)	Unit #1 (MW)	Plant Flow (m ³ /s)	Spill (m ³ /s)	Total Flow (m ³ /s)
1-Dec	97.804	239.71	208.73	9.05	32.38	174.84	207.23
2-Dec	97.66	239.70	208.68	9.38	33.56	168.49	202.04
3-Dec	97.526	239.71	208.64	9.40	33.57	174.84	208.42
4-Dec	97.519	239.70	208.64	9.43	33.66	168.49	202.14
5-Dec	97.574	239.70	208.66	10.27	36.70	168.49	205.18
6-Dec	97.603	239.70	208.67	10.58	37.81	168.49	206.30
7-Dec	97.64	239.69	208.68	10.47	37.45	162.21	199.66
8-Dec	97.637	239.69	208.68	10.71	38.31	162.21	200.52
9-Dec	97.693	239.69	208.69	11.29	40.41	162.21	202.61
10-Dec	97.676	239.69	208.69	11.13	39.82	162.21	202.03
11-Dec	97.657	239.70	208.68	11.08	39.62	168.49	208.10
12-Dec	97.651	239.69	208.68	11.19	40.01	162.21	202.22
13-Dec	97.555	239.69	208.65	11.13	39.76	162.21	201.96
14-Dec	97.532	239.69	208.65	10.40	37.16	162.21	199.36
15-Dec	97.553	239.69	208.65	10.45	37.33	162.21	199.54
16-Dec	97.514	239.69	208.64	10.70	38.24	162.21	200.44
17-Dec	97.469	239.69	208.63	10.44	37.28	162.21	199.49
18-Dec	97.43	239.69	208.61	10.56	37.68	162.21	199.89
19-Dec	97.416	239.69	208.61	10.27	36.64	162.21	198.85
20-Dec	97.362	239.69	208.59	10.19	36.34	162.21	198.54
21-Dec	97.337	239.73	208.59	9.58	34.10	187.79	221.89
22-Dec	97.324	239.73	208.58	9.61	34.23	187.79	222.02
23-Dec	97.375	239.72	208.60	10.28	36.65	181.28	217.93
24-Dec	97.31	239.72	208.58	9.29	33.08	181.28	214.36
25-Dec	97.28	239.72	208.57	8.98	31.97	181.28	213.25
26-Dec	97.308	239.75	208.58	9.20	32.75	201.04	233.79
27-Dec	97.306	239.71	208.58	9.58	34.13	174.84	208.97
28-Dec	97.289	239.70	208.57	9.43	33.60	168.49	202.08
29-Dec	97.255	239.70	208.56	9.25	32.96	168.49	201.45
30-Dec	97.282	239.70	208.57	9.44	33.64	168.49	202.13
31-Dec	97.242	239.70	208.56	9.14	32.54	168.49	201.03
MEAN	97.48	239.70	208.63	10.06	35.91	170.00	205.92

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Jan	6.135	320.75	0	0.00	9.38	59.67	9.23	78.27
2-Jan	6.14	320.76	0	0.00	9.39	60.19	9.34	78.92
3-Jan	6.135	320.75	0	0.00	9.39	60.19	9.34	78.92
4-Jan	6.132	320.75	0	0.00	9.38	59.67	9.23	78.27
5-Jan	6.128	320.75	0	0.00	9.37	59.21	9.13	77.72
6-Jan	6.129	320.75	0	0.00	9.37	59.02	9.09	77.48
7-Jan	6.123	320.74	0	0.00	9.36	58.69	9.03	77.08
8-Jan	6.121	320.74	0	0.00	9.35	58.18	8.92	76.45
9-Jan	6.121	320.74	0	0.00	9.35	58.05	8.89	76.29
10-Jan	6.12	320.74	0	0.00	9.35	57.98	8.88	76.21
11-Jan	6.118	320.74	0	0.00	9.34	57.79	8.84	75.97
12-Jan	6.114	320.73	0	0.00	9.33	57.41	8.76	75.50
13-Jan	6.111	320.73	0	0.00	9.33	56.96	8.67	74.95
14-Jan	6.112	320.73	0	0.00	9.32	56.83	8.64	74.80
15-Jan	6.108	320.73	0	0.00	9.32	56.64	8.60	74.56
16-Jan	6.105	320.72	0	0.00	9.31	56.20	8.51	74.02
17-Jan	6.105	320.72	0	0.00	9.31	56.01	8.47	73.78
18-Jan	6.098	320.72	0	0.00	9.30	55.56	8.38	73.24
19-Jan	6.098	320.72	0	0.00	9.29	55.12	8.29	72.70
20-Jan	6.097	320.72	0	0.00	9.29	55.06	8.27	72.62
21-Jan	6.091	320.71	0	0.00	9.28	54.62	8.18	72.08
22-Jan	6.088	320.71	0	0.00	9.27	54.06	8.07	71.40
23-Jan	6.086	320.70	0	0.00	9.26	53.75	8.00	71.01
24-Jan	6.086	320.70	0	0.00	9.26	53.62	7.98	70.86
25-Jan	6.083	320.70	0	0.00	9.26	53.44	7.94	70.63
26-Jan	6.082	320.70	0	0.00	9.25	53.19	7.89	70.33
27-Jan	6.073	320.69	0	0.00	9.24	52.57	7.76	69.57
28-Jan	6.072	320.69	0	0.00	9.23	51.96	7.63	68.82
29-Jan	6.069	320.69	0	0.00	9.22	51.72	7.58	68.52
30-Jan	6.077	320.70	0	0.00	9.23	52.02	7.65	68.90
31-Jan	6.07	320.69	0	0.00	9.23	52.08	7.66	68.97
MEAN	6.10	320.72	0.00	0.00	9.31	56.05	8.48	73.83

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Feb	6.073	320.69	0	0.00	9.14	47.76	6.77	63.67
2-Feb	6.067	320.69	0	0.00	9.22	51.65	7.57	68.45
3-Feb	6.064	320.68	0	0.00	9.21	51.11	7.46	67.78
4-Feb	6.06	320.68	0	0.00	9.20	50.68	7.37	67.26
5-Feb	6.055	320.67	0	0.00	9.19	50.14	7.26	66.59
6-Feb	6.055	320.67	0	0.00	9.18	49.84	7.20	66.22
7-Feb	6.052	320.67	0	0.00	9.18	49.66	7.16	66.00
8-Feb	6.052	320.67	0	0.00	9.18	49.48	7.13	65.78
9-Feb	6.044	320.66	0	0.00	9.16	49.00	7.03	65.19
10-Feb	6.04	320.66	0	0.00	9.15	48.29	6.88	64.32
11-Feb	6.042	320.66	0	0.00	9.15	48.17	6.86	64.18
12-Feb	6.037	320.66	0	0.00	9.14	47.99	6.82	63.96
13-Feb	6.034	320.65	0	0.00	9.13	47.52	6.73	63.38
14-Feb	6.032	320.65	0	0.00	9.13	47.23	6.67	63.02
15-Feb	6.032	320.65	0	0.00	9.12	47.11	6.64	62.88
16-Feb	6.03	320.65	0	0.00	9.12	47.00	6.62	62.74
17-Feb	6.027	320.65	0	0.00	9.12	46.70	6.56	62.38
18-Feb	6.024	320.64	0	0.00	9.11	46.35	6.49	61.95
19-Feb	6.022	320.64	0	0.00	9.10	46.06	6.43	61.59
20-Feb	6.02	320.64	0	0.00	9.10	45.83	6.38	61.31
21-Feb	6.014	320.63	0	0.00	9.09	45.37	6.29	60.74
22-Feb	6.014	320.63	0	0.00	9.08	45.03	6.22	60.32
23-Feb	6.013	320.63	0	0.00	9.08	44.97	6.20	60.25
24-Feb	6.007	320.63	0	0.00	9.07	44.57	6.12	59.76
25-Feb	6.009	320.63	0	0.00	9.06	44.34	6.08	59.48
26-Feb	6.001	320.62	0	0.00	9.06	44.00	6.01	59.06
27-Feb	6.002	320.62	0	0.00	9.05	43.60	5.93	58.58
28-Feb	6.004	320.62	0	0.00	9.05	43.77	5.96	58.79
MEAN	5.964	320.65	0.00	0.00	9.13	47.26	6.67	63.06

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Mar	5.998	320.62	0	0.00	9.05	43.55	5.92	58.51
2-Mar	5.992	320.61	0	0.00	9.03	42.87	5.78	57.68
3-Mar	5.99	320.61	0	0.00	9.02	42.42	5.69	57.13
4-Mar	5.992	320.61	0	0.00	9.02	42.42	5.69	57.13
5-Mar	5.986	320.60	0	0.00	9.02	42.20	5.64	56.86
6-Mar	5.985	320.60	0	0.00	9.01	41.81	5.56	56.38
7-Mar	5.978	320.60	0	0.00	9.00	41.37	5.47	55.84
8-Mar	5.984	320.60	0	0.00	9.00	41.31	5.46	55.77
9-Mar	5.978	320.60	0	0.00	9.00	41.31	5.46	55.77
10-Mar	5.978	320.60	0	0.00	8.99	40.98	5.40	55.37
11-Mar	5.978	320.60	0	0.00	8.99	40.98	5.40	55.37
12-Mar	5.976	320.59	0	0.00	8.99	40.87	5.37	55.23
13-Mar	5.971	320.59	0	0.00	8.98	40.49	5.30	54.76
14-Mar	5.974	320.59	0	0.00	8.98	40.38	5.28	54.63
15-Mar	5.974	320.59	0	0.00	8.98	40.54	5.31	54.83
16-Mar	5.968	320.59	0	0.00	8.97	40.21	5.24	54.43
17-Mar	5.968	320.59	0	0.00	8.97	39.89	5.18	54.03
18-Mar	5.963	320.58	0	0.00	8.96	39.62	5.12	53.70
19-Mar	5.963	320.58	0	0.00	8.95	39.35	5.07	53.37
20-Mar	5.961	320.58	0	0.00	8.95	39.24	5.05	53.23
21-Mar	5.959	320.58	0	0.00	8.94	39.02	5.00	52.97
22-Mar	5.954	320.57	0	0.00	8.94	38.65	4.93	52.51
23-Mar	5.954	320.57	0	0.00	8.93	38.38	4.87	52.18
24-Mar	5.955	320.57	0	0.00	8.93	38.43	4.88	52.25
25-Mar	5.951	320.57	0	0.00	8.93	38.27	4.85	52.05
26-Mar	5.948	320.57	0	0.00	8.92	37.90	4.78	51.59
27-Mar	5.945	320.56	0	0.00	8.91	37.58	4.71	51.21
28-Mar	5.948	320.57	0	0.00	8.91	37.58	4.71	51.21
29-Mar	5.942	320.56	0	0.00	8.91	37.42	4.68	51.01
30-Mar	5.945	320.56	0	0.00	8.90	37.26	4.65	50.82
31-Mar	5.939	320.56	0	0.00	8.90	37.11	4.62	50.62
MEAN	5.97	320.59	0.00	0.00	8.97	39.98	5.20	54.14

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Apr	5.942	320.56	0	0.00	8.90	36.95	4.59	50.43
2-Apr	5.942	320.56	0	0.00	8.90	37.11	4.62	50.62
3-Apr	5.943	320.56	0	0.00	8.90	37.16	4.63	50.69
4-Apr	5.935	320.55	0	0.00	8.89	36.79	4.56	50.24
5-Apr	5.935	320.55	0	0.00	8.88	36.37	4.47	49.73
6-Apr	5.936	320.55	0	0.00	8.88	36.42	4.48	49.79
7-Apr	5.938	320.56	0	0.00	8.89	36.58	4.51	49.98
8-Apr	5.933	320.55	0	0.00	8.88	36.42	4.48	49.79
9-Apr	5.93	320.55	0	0.00	8.87	36.01	4.40	49.28
10-Apr	5.927	320.55	0	0.00	8.87	35.70	4.34	48.90
11-Apr	5.926	320.54	0	0.00	8.86	35.49	4.30	48.65
12-Apr	5.928	320.55	0	0.00	8.86	35.54	4.31	48.71
13-Apr	5.929	320.55	0	0.00	8.87	35.70	4.34	48.90
14-Apr	5.928	320.55	0	0.00	8.87	35.70	4.34	48.90
15-Apr	5.932	320.55	0	0.00	8.87	35.85	4.37	49.09
16-Apr	5.929	320.55	0	0.00	8.87	35.90	4.38	49.15
17-Apr	5.929	320.55	0	0.00	8.87	35.75	4.35	48.96
18-Apr	5.927	320.55	0	0.00	8.86	35.64	4.33	48.84
19-Apr	5.93	320.55	0	0.00	8.87	35.70	4.34	48.90
20-Apr	5.93	320.55	0	0.00	8.87	35.85	4.37	49.09
21-Apr	5.927	320.55	0	0.00	8.87	35.70	4.34	48.90
22-Apr	5.93	320.55	0	0.00	8.87	35.70	4.34	48.90
23-Apr	5.93	320.55	0	0.00	8.87	35.85	4.37	49.09
24-Apr	5.935	320.55	0	0.00	8.88	36.11	4.42	49.41
25-Apr	5.936	320.55	0	0.00	8.88	36.42	4.48	49.79
26-Apr	5.937	320.56	0	0.00	8.89	36.53	4.50	49.92
27-Apr	5.936	320.55	0	0.00	8.89	36.53	4.50	49.92
28-Apr	5.934	320.55	0	0.00	8.88	36.37	4.47	49.73
29-Apr	5.932	320.55	0	0.00	8.88	36.16	4.43	49.47
30-Apr	5.933	320.55	0	0.00	8.88	36.11	4.42	49.41
MEAN	6.01	320.55	0.00	0.00	8.88	36.14	4.42	49.44

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-May	5.932	320.55	0	0.00	8.88	36.11	4.42	49.41
2-May	5.938	320.56	0	0.00	8.88	36.37	4.47	49.73
3-May	5.932	320.55	0	0.00	8.88	36.37	4.47	49.73
4-May	5.929	320.55	0	0.00	8.87	35.90	4.38	49.15
5-May	5.926	320.54	0	0.00	8.86	35.59	4.32	48.77
6-May	5.924	320.54	0	0.00	8.86	35.33	4.26	48.46
7-May	5.925	320.54	0	0.00	8.86	35.28	4.25	48.39
8-May	5.926	320.54	0	0.00	8.86	35.39	4.28	48.52
9-May	5.927	320.55	0	0.00	8.86	35.49	4.30	48.65
10-May	5.93	320.55	0	0.00	8.87	35.70	4.34	48.90
11-May	5.938	320.56	0	0.00	8.88	36.27	4.45	49.60
12-May	5.948	320.57	0	0.00	8.90	37.21	4.64	50.75
13-May	5.949	320.57	0	0.00	8.92	37.79	4.76	51.46
14-May	5.95	320.57	0	0.00	8.92	37.90	4.78	51.59
15-May	5.956	320.57	0	0.00	8.93	38.27	4.85	52.05
16-May	5.958	320.58	0	0.00	8.94	38.70	4.94	52.57
17-May	5.963	320.58	0	0.00	8.95	39.08	5.01	53.04
18-May	5.967	320.59	0	0.00	8.96	39.56	5.11	53.63
19-May	5.971	320.59	0	0.00	8.97	40.00	5.20	54.16
20-May	5.973	320.59	0	0.00	8.98	40.32	5.26	54.56
21-May	5.984	320.60	0	0.00	8.99	41.04	5.41	55.44
22-May	5.982	320.60	0	0.00	9.00	41.53	5.51	56.04
23-May	5.986	320.60	0	0.00	9.00	41.64	5.53	56.18
24-May	5.99	320.61	0	0.00	9.01	42.09	5.62	56.72
25-May	5.992	320.61	0	0.00	9.02	42.42	5.69	57.13
26-May	5.989	320.61	0	0.00	9.02	42.37	5.68	57.06
27-May	5.995	320.61	0	0.00	9.03	42.53	5.71	57.27
28-May	5.995	320.61	0	0.00	9.03	42.87	5.78	57.68
29-May	6.008	320.63	0	0.00	9.05	43.60	5.93	58.58
30-May	6.012	320.63	0	0.00	9.07	44.57	6.12	59.76
31-May	6.012	320.63	0	0.00	9.07	44.80	6.17	60.04
MEAN	5.96	320.58	0.00	0.00	8.95	39.10	5.02	53.07

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Jun	6.02	320.64	0	0.00	9.09	45.26	6.26	60.60
2-Jun	6.033	320.65	0	0.00	9.11	46.47	6.51	62.09
3-Jun	6.047	320.67	0	0.00	9.15	48.05	6.83	64.03
4-Jun	6.065	320.68	0	0.00	9.18	49.96	7.22	66.37
5-Jun	6.077	320.70	0	0.00	9.22	51.78	7.60	68.60
6-Jun	6.079	320.70	0	0.00	9.24	52.64	7.77	69.65
7-Jun	6.089	320.71	0	0.00	9.26	53.38	7.93	70.56
8-Jun	6.089	320.71	0	0.00	9.27	54.00	8.05	71.32
9-Jun	6.091	320.71	0	0.00	9.27	54.12	8.08	71.47
10-Jun	6.093	320.71	0	0.00	9.28	54.37	8.13	71.78
11-Jun	6.095	320.71	0	0.00	9.28	54.62	8.18	72.08
12-Jun	6.104	320.72	0	0.00	9.29	55.31	8.33	72.93
13-Jun	6.108	320.73	0	0.00	9.31	56.13	8.50	73.94
14-Jun	6.117	320.74	0	0.00	9.33	56.96	8.67	74.95
15-Jun	6.141	320.76	0	0.00	9.37	59.08	9.11	77.56
16-Jun	6.141	320.76	0	0.00	9.40	60.65	9.43	79.48
17-Jun	6.144	320.76	0	0.00	9.40	60.85	9.47	79.72
18-Jun	6.151	320.77	0	0.00	9.41	61.50	9.61	80.53
19-Jun	6.151	320.77	0	0.00	9.42	61.97	9.71	81.10
20-Jun	6.151	320.77	0	0.00	9.42	61.97	9.71	81.10
21-Jun	6.151	320.77	0	0.00	9.42	61.97	9.71	81.10
22-Jun	6.179	320.80	0	0.00	9.46	63.84	10.10	83.39
23-Jun	6.17	320.79	0	0.00	9.48	65.12	10.36	84.97
24-Jun	6.173	320.79	0	0.00	9.47	64.71	10.28	84.47
25-Jun	6.176	320.79	0	0.00	9.48	65.12	10.36	84.97
26-Jun	6.178	320.80	0	0.00	9.49	65.46	10.44	85.38
27-Jun	6.175	320.79	0	0.00	9.49	65.39	10.42	85.30
28-Jun	6.174	320.79	0	0.00	9.48	65.12	10.36	84.97
29-Jun	6.177	320.80	0	0.00	9.48	65.26	10.39	85.13
30-Jun	6.178	320.80	0	0.00	9.49	65.53	10.45	85.47
MEAN	6.12	320.74	0.00	0.00	9.35	58.22	8.93	76.50

Nonacho Lake

	07QD002	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Jul	6.155	320.77	0	0.00	9.46	64.04	10.14	83.64
2-Jul	6.189	320.81	0	0.00	9.47	64.78	10.29	84.55
3-Jul	6.189	320.81	0	0.00	9.52	67.10	10.78	87.40
4-Jul	6.194	320.81	0	0.00	9.52	67.45	10.85	87.82
5-Jul	6.187	320.81	0	0.00	9.52	67.31	10.82	87.65
6-Jul	6.186	320.80	0	0.00	9.51	66.76	10.71	86.98
7-Jul	6.183	320.80	0	0.00	9.51	66.48	10.65	86.64
8-Jul	6.196	320.81	0	0.00	9.52	67.17	10.79	87.48
9-Jul	6.184	320.80	0	0.00	9.52	67.24	10.81	87.57
10-Jul	6.197	320.82	0	0.00	9.52	67.31	10.82	87.65
11-Jul	6.206	320.82	0	0.00	9.55	68.83	11.14	89.52
12-Jul	6.205	320.82	0	0.00	9.56	69.39	11.26	90.21
13-Jul	6.199	320.82	0	0.00	9.55	68.90	11.16	89.61
14-Jul	6.203	320.82	0	0.00	9.55	68.76	11.13	89.44
15-Jul	6.201	320.82	0	0.00	9.55	68.90	11.16	89.61
16-Jul	6.206	320.82	0	0.00	9.55	69.11	11.20	89.86
17-Jul	6.206	320.82	0	0.00	9.56	69.46	11.27	90.29
18-Jul	6.227	320.85	0	0.00	9.59	70.93	11.58	92.10
19-Jul	6.21	320.83	0	0.00	9.59	71.22	11.64	92.45
20-Jul	6.202	320.82	0	0.00	9.56	69.46	11.27	90.29
21-Jul	6.198	320.82	0	0.00	9.54	68.62	11.10	89.27
22-Jul	6.2	320.82	0	0.00	9.54	68.48	11.07	89.10
23-Jul	6.203	320.82	0	0.00	9.55	68.83	11.14	89.52
24-Jul	6.203	320.82	0	0.00	9.55	69.04	11.19	89.78
25-Jul	6.203	320.82	0	0.00	9.55	69.04	11.19	89.78
26-Jul	6.2	320.82	0	0.00	9.55	68.83	11.14	89.52
27-Jul	6.204	320.82	0	0.00	9.55	68.90	11.16	89.61
28-Jul	6.18	320.80	0	0.00	9.53	67.51	10.87	87.91
29-Jul	6.183	320.80	0	0.00	9.50	66.07	10.56	86.14
30-Jul	6.18	320.80	0	0.00	9.50	66.07	10.56	86.14
31-Jul	6.181	320.80	0	0.00	9.50	65.94	10.54	85.97
MEAN	6.20	320.81	0.00	0.00	9.53	68.00	10.97	88.50

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	07QD002 ¹	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Aug	6.181	320.80	0	0.00	9.50	66.00	10.55	86.05
2-Aug	6.184	320.80	0	0.00	9.50	66.21	10.59	86.30
3-Aug	6.175	320.79	0	0.00	9.49	65.80	10.51	85.80
4-Aug	6.172	320.79	0	0.00	9.48	64.98	10.34	84.80
5-Aug	6.16	320.78	0	0.00	9.46	63.97	10.13	83.56
6-Aug	6.16	320.78	0	0.00	9.45	63.17	9.96	82.57
7-Aug	6.167	320.79	0	0.00	9.45	63.64	10.05	83.14
8-Aug	6.16	320.78	0	0.00	9.45	63.64	10.05	83.14
9-Aug	6.158	320.78	0	0.00	9.44	63.03	9.93	82.40
10-Aug	6.173	320.79	0	0.00	9.46	63.90	10.11	83.47
11-Aug	6.167	320.79	0	0.00	9.47	64.51	10.24	84.22
12-Aug	6.166	320.78	0	0.00	9.46	64.04	10.14	83.64
13-Aug	6.157	320.78	0	0.00	9.45	63.37	10.00	82.81
14-Aug	6.168	320.79	0	0.00	9.45	63.50	10.03	82.98
15-Aug	6.163	320.78	0	0.00	9.46	63.90	10.11	83.47
16-Aug	6.163	320.78	0	0.00	9.45	63.55	10.04	83.03
17-Aug	6.162	320.78	0	0.00	9.45	63.50	10.03	82.98
18-Aug	6.162	320.78	0	0.00	9.45	63.46	10.02	82.92
19-Aug	6.162	320.78	0	0.00	9.45	63.41	10.01	82.87
20-Aug	6.161	320.78	0	0.00	9.45	63.36	10.00	82.81
21-Aug	6.161	320.78	0	0.00	9.45	63.32	9.99	82.76
22-Aug	6.161	320.78	0	0.00	9.45	63.27	9.98	82.70
23-Aug	6.160	320.78	0	0.00	9.45	63.23	9.97	82.65
24-Aug	6.160	320.78	0	0.00	9.45	63.18	9.96	82.59
25-Aug	6.160	320.78	0	0.00	9.44	63.14	9.95	82.54
26-Aug	6.159	320.78	0	0.00	9.44	63.09	9.94	82.48
27-Aug	6.159	320.78	0	0.00	9.44	63.05	9.93	82.42
28-Aug	6.159	320.78	0	0.00	9.44	63.00	9.92	82.37
29-Aug	6.158	320.78	0	0.00	9.44	62.96	9.91	82.31
30-Aug	6.158	320.78	0	0.00	9.44	62.91	9.90	82.26
31-Aug	6.158	320.78	0	0.00	9.44	62.87	9.89	82.20
MEAN	6.15	320.78	0.00	0.00	9.46	63.71	10.07	83.23

¹ Data shaded in grey text was not recorded by the gauge and has been interpolated from available readings.

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	07QD002 ²	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Sep	6.157	320.78	0	0.00	9.44	62.82	9.89	82.15
2-Sep	6.157	320.77	0	0.00	9.44	62.76	9.87	82.07
3-Sep	6.157	320.77	0	0.00	9.44	62.71	9.86	82.01
4-Sep	6.156	320.77	0	0.00	9.44	62.67	9.85	81.95
5-Sep	6.156	320.77	0	0.00	9.43	62.62	9.84	81.90
6-Sep	6.156	320.77	0	0.00	9.43	62.58	9.83	81.84
7-Sep	6.155	320.77	0	0.00	9.43	62.53	9.82	81.79
8-Sep	6.155	320.77	0	0.00	9.43	62.49	9.82	81.73
9-Sep	6.155	320.77	0	0.00	9.43	62.44	9.81	81.68
10-Sep	6.154	320.77	0	0.00	9.43	62.40	9.80	81.62
11-Sep	6.154	320.77	0	0.00	9.43	62.35	9.79	81.57
12-Sep	6.154	320.77	0	0.00	9.43	62.31	9.78	81.51
13-Sep	6.153	320.77	0	0.00	9.43	62.26	9.77	81.46
14-Sep	6.153	320.77	0	0.00	9.43	62.22	9.76	81.40
15-Sep	6.153	320.77	0	0.00	9.43	62.17	9.75	81.35
16-Sep	6.152	320.77	0	0.00	9.43	62.13	9.74	81.29
17-Sep	6.152	320.77	0	0.00	9.42	62.08	9.73	81.24
18-Sep	6.152	320.77	0	0.00	9.42	62.04	9.72	81.18
19-Sep	6.151	320.77	0	0.00	9.42	61.99	9.71	81.13
20-Sep	6.151	320.77	0	0.00	9.42	61.95	9.70	81.07
21-Sep	6.151	320.77	0	0.00	9.42	61.90	9.69	81.02
22-Sep	6.150	320.77	0	0.00	9.42	61.86	9.68	80.96
23-Sep	6.150	320.77	0	0.00	9.42	61.82	9.68	80.91
24-Sep	6.150	320.77	0	0.00	9.42	61.77	9.67	80.86
25-Sep	6.149	320.77	0	0.00	9.42	61.73	9.66	80.80
26-Sep	6.149	320.77	0	0.00	9.42	61.68	9.65	80.75
27-Sep	6.148	320.77	0	0.00	9.42	61.64	9.64	80.69
28-Sep	6.148	320.77	0	0.00	9.42	61.59	9.63	80.64
29-Sep	6.148	320.77	0	0.00	9.41	61.55	9.62	80.58
30-Sep	6.147	320.77	0	0.00	9.41	61.50	9.61	80.53
MEAN	6.15	320.77	0.00	0.00	9.43	62.15	9.75	81.32

² Data shaded in grey text was not recorded by the gauge and has been interpolated from available readings.

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	07QD002 ³	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Oct	6.147	320.77	0	0.00	9.41	61.48	9.61	80.50
2-Oct	6.147	320.76	0	0.00	9.41	61.41	9.59	80.42
3-Oct	6.146	320.76	0	0.00	9.41	61.37	9.58	80.36
4-Oct	6.146	320.76	0	0.00	9.41	61.32	9.57	80.31
5-Oct	6.146	320.76	0	0.00	9.41	61.28	9.56	80.25
6-Oct	6.145	320.76	0	0.00	9.41	61.24	9.55	80.20
7-Oct	6.145	320.76	0	0.00	9.41	61.19	9.55	80.14
8-Oct	6.145	320.76	0	0.00	9.41	61.15	9.54	80.09
9-Oct	6.144	320.76	0	0.00	9.41	61.10	9.53	80.04
10-Oct	6.144	320.76	0	0.00	9.41	61.06	9.52	79.98
11-Oct	6.144	320.76	0	0.00	9.40	61.01	9.51	79.93
12-Oct	6.143	320.76	0	0.00	9.40	60.97	9.50	79.87
13-Oct	6.143	320.76	0	0.00	9.40	60.92	9.49	79.82
14-Oct	6.143	320.76	0	0.00	9.40	60.88	9.48	79.76
15-Oct	6.142	320.76	0	0.00	9.40	60.84	9.47	79.71
16-Oct	6.142	320.76	0	0.00	9.40	60.79	9.46	79.65
17-Oct	6.142	320.76	0	0.00	9.40	60.75	9.45	79.60
18-Oct	6.141	320.76	0	0.00	9.40	60.70	9.44	79.55
19-Oct	6.141	320.76	0	0.00	9.40	60.66	9.43	79.49
20-Oct	6.141	320.76	0	0.00	9.40	60.61	9.43	79.44
21-Oct	6.140	320.76	0	0.00	9.40	60.57	9.42	79.38
22-Oct	6.140	320.76	0	0.00	9.40	60.53	9.41	79.33
23-Oct	6.140	320.76	0	0.00	9.39	60.48	9.40	79.27
24-Oct	6.139	320.76	0	0.00	9.39	60.44	9.39	79.22
25-Oct	6.139	320.76	0	0.00	9.39	60.39	9.38	79.17
26-Oct	6.139	320.76	0	0.00	9.39	60.35	9.37	79.11
27-Oct	6.138	320.76	0	0.00	9.39	60.31	9.36	79.06
28-Oct	6.138	320.76	0	0.00	9.39	60.26	9.35	79.00
29-Oct	6.138	320.76	0	0.00	9.39	60.22	9.34	78.95
30-Oct	6.137	320.76	0	0.00	9.39	60.17	9.33	78.89
31-Oct	6.137	320.76	0	0.00	9.39	60.13	9.32	78.84
MEAN	6.14	320.76	0.00	0.00	9.40	60.79	9.46	79.66

³ Data shaded in grey text was not recorded by the gauge and has been interpolated from available readings.

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	<i>07QD002⁴</i>	<i>Water Level (m)</i>	<i>Gates Open</i>	<i>Gate Flow (m³/s)</i>	<i>Leakage (m³/s)</i>	<i>Spill (m³/s)</i>	<i>Tronka Chua Gap (m³/s)</i>	<i>Total Outflow (m³/s)</i>
1-Nov	6.137	320.75	0	0.00	9.39	60.11	9.32	78.81
2-Nov	6.136	320.75	0	0.00	9.39	60.04	9.31	78.73
3-Nov	6.136	320.75	0	0.00	9.39	60.00	9.30	78.68
4-Nov	6.136	320.75	0	0.00	9.38	59.95	9.29	78.62
5-Nov	6.135	320.75	0	0.00	9.38	59.91	9.28	78.57
6-Nov	6.135	320.75	0	0.00	9.38	59.86	9.27	78.52
7-Nov	6.135	320.75	0	0.00	9.38	59.82	9.26	78.46
8-Nov	6.137	320.75	0	0.00	9.39	60.11	9.32	78.81
9-Nov	6.134	320.75	0	0.00	9.38	59.73	9.24	78.35
10-Nov	6.133	320.75	0	0.00	1.88	256.40	69.29	327.57
11-Nov	6.133	320.75	0	0.00	9.38	59.60	9.21	78.19
12-Nov	6.133	320.75	0	0.00	9.38	59.58	9.21	78.17
13-Nov	6.133	320.75	0	0.00	9.38	59.56	9.21	78.14
14-Nov	6.132	320.75	0	0.00	9.38	59.53	9.20	78.11
15-Nov	6.132	320.75	0	0.00	9.38	59.51	9.20	78.08
16-Nov	6.132	320.75	0	0.00	9.38	59.49	9.19	78.05
17-Nov	6.132	320.75	0	0.00	9.37	59.46	9.19	78.03
18-Nov	6.132	320.75	0	0.00	9.37	59.44	9.18	78.00
19-Nov	6.132	320.75	0	0.00	9.37	59.42	9.18	77.97
20-Nov	6.131	320.75	0	0.00	9.37	59.40	9.17	77.94
21-Nov	6.131	320.75	0	0.00	9.37	59.37	9.17	77.91
22-Nov	6.131	320.75	0	0.00	9.37	59.35	9.16	77.88
23-Nov	6.131	320.75	0	0.00	9.37	59.33	9.16	77.86
24-Nov	6.131	320.75	0	0.00	9.37	59.30	9.15	77.83
25-Nov	6.131	320.75	0	0.00	9.37	59.28	9.15	77.80
26-Nov	6.130	320.75	0	0.00	9.37	59.26	9.14	77.77
27-Nov	6.130	320.75	0	0.00	9.37	59.23	9.14	77.74
28-Nov	6.130	320.75	0	0.00	9.37	59.21	9.13	77.72
29-Nov	6.130	320.75	0	0.00	9.37	59.19	9.13	77.69
30-Nov	6.130	320.75	0	0.00	9.37	59.17	9.12	77.66
MEAN	6.13	320.75	0	0.00	9.38	59.55	9.20	78.13

⁴ Data shaded in grey text was not recorded by the gauge and has been interpolated from available readings.

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	07QD002 ⁵	Water Level (m)	Gates Open	Gate Flow (m ³ /s)	Leakage (m ³ /s)	Spill (m ³ /s)	Tronka Chua Gap (m ³ /s)	Total Outflow (m ³ /s)
1-Dec	6.129	320.75	0	0.00	9.37	59.15	9.12	77.65
2-Dec	6.129	320.75	0	0.00	9.37	59.12	9.11	77.60
3-Dec	6.129	320.75	0	0.00	9.37	59.10	9.11	77.57
4-Dec	6.129	320.75	0	0.00	9.37	59.07	9.11	77.55
5-Dec	6.129	320.75	0	0.00	9.37	59.05	9.10	77.52
6-Dec	6.129	320.75	0	0.00	9.37	59.03	9.10	77.49
7-Dec	6.128	320.75	0	0.00	9.37	59.01	9.09	77.46
8-Dec	6.128	320.75	0	0.00	9.37	58.98	9.09	77.43
9-Dec	6.128	320.75	0	0.00	9.37	58.96	9.08	77.41
10-Dec	6.128	320.75	0	0.00	9.36	58.94	9.08	77.38
11-Dec	6.128	320.75	0	0.00	9.36	58.91	9.07	77.35
12-Dec	6.128	320.75	0	0.00	9.36	58.89	9.07	77.32
13-Dec	6.127	320.75	0	0.00	9.36	58.87	9.06	77.29
14-Dec	6.127	320.75	0	0.00	9.36	58.85	9.06	77.27
15-Dec	6.127	320.75	0	0.00	9.36	58.82	9.05	77.24
16-Dec	6.127	320.74	0	0.00	9.36	58.80	9.05	77.21
17-Dec	6.127	320.74	0	0.00	9.36	58.78	9.04	77.18
18-Dec	6.126	320.74	0	0.00	9.36	58.75	9.04	77.15
19-Dec	6.126	320.74	0	0.00	9.36	58.73	9.03	77.13
20-Dec	6.126	320.74	0	0.00	9.36	58.71	9.03	77.10
21-Dec	6.126	320.74	0	0.00	9.36	58.69	9.02	77.07
22-Dec	6.126	320.74	0	0.00	9.36	58.66	9.02	77.04
23-Dec	6.126	320.74	0	0.00	9.36	58.64	9.02	77.01
24-Dec	6.125	320.74	0	0.00	9.36	58.62	9.01	76.99
25-Dec	6.125	320.74	0	0.00	9.36	58.59	9.01	76.96
26-Dec	6.125	320.74	0	0.00	9.36	58.57	9.00	76.93
27-Dec	6.125	320.74	0	0.00	9.36	58.55	9.00	76.90
28-Dec	6.125	320.74	0	0.00	9.36	58.53	8.99	76.87
29-Dec	6.125	320.74	0	0.00	9.36	58.50	8.99	76.85
30-Dec	6.124	320.74	0	0.00	9.36	58.48	8.98	76.82
31-Dec	6.124	320.74	0	0.00	9.36	58.43	8.97	76.76
MEAN	6.13	320.74	0.00	0.00	9.36	58.80	9.05	77.21

⁵ Data shaded in grey text was not recorded by the gauge and has been interpolated from available readings.