

**Jackson Project
Process Flow Tracking**

Year	Year Number	Upmigration	Flushing	Outmigration	Outmigration	Maintenance	Forming	Notes
Sept 2011 - August 2012	1	9/2/2011 9/13/2011	9/2/2011 9/13/2011	4/3/2012	5/23/2012 5/22-31/2012			
Sept 2012 - August 2013	2	9/14/2012	9/14/2012 4/9/2013	4/9/2013	5/6/2013 5/1-8/2013			
Sept 2013 - August 2014	3	9/16-17/2013 9/24-25/2013	9/16-17/2013 9/24-25/2013 4/1/2014 4/17-18/2014	4/1/2014 4/17-18/2014	5/21/2014	*, 3/16-17/2014		*Attempt on 12/01/2013
Sept 2014 - August 2015	4	9/12/2014	9/12/2014 4/25/2015 5/11/2015	4/25/2015	5/11/2015	11/4-5/2014		*Sultan River Riverine Habitat Monitoring Report, February 2015
Sept 2015 - August 2016	5	9/12/2015	9/12/2015 4/23/2016	4/23/2016	5/15-16/2016	11/17-18/2015		
Sept 2016 - August 2017	6	*	4/13-14/2017 *	4/13-14/2017	5/6/2017 5/5-7/2017			*Deferred Sept 2016 upmigration and flushing events due to DDVP construction ** Sultan River Riverine Habitat Monitoring Report, December 2016
Sept 2017 - August 2018	7	9/2/2017	9/2/2017 4/5-6/2018	4/5-6/2018	5/19/2018	2/4-5/2018		
Sept 2018 - August 2019	8	9/8/2018	9/8/2018	4/19-20/2019	5/25/2019			
Sept 2019 - August 2020	9	9/8/2019	9/8/2019, 4/16-17/2020	4/16-17/2020	5/19/2020		2/1-2/2020	
Sept 2020 - August 2021	10	9/11/2020	9/11/2020, 5/22/2021	4/9-13/2021, 4/23/2021	5/22/2021			
Sept 2021 - August 2022	11	9/26/2021	9/26/2021, 4/21-22/2022	4/21-22/2022	5/21/2022	11/15-16/2021		
Sept 2022 - August 2023	12	9/25/2022	9/25/2022, 4/24-25/2023, 5/2/2023, 5/13/2023	4/24-25/2023	5/13/2023			

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Year	Year Number	Upmigration	Flushing	Outmigration	Outmigration	Maintenance	Forming	Notes
FERC Approves Updated Plan Process Flow Plan, November 2023 10-Year Cycle = July 2023-June 2033								
July 2023 - June 2024	1	9/24-25/2023	9/24-25/2023, 4/28-29/2024	4/3-4/2024	4/28-29/2024			
July 2024 - June 2025	2	9/7/2023	8/17-8/18/2024, 3/23-25/2025, 4/1-9/2025	3/21-22/2025, 3/23-25/25	4/1-9/2025, 4/17-18/2025			
July 2025 - June 2026	3							
July 2026 - June 2027	4							
July 2027 - June 2028	5							
July 2028 - June 2029	6							
July 2029 - June 2030	7							
July 2030 - June 2031	8							
July 2031 - June 2032	9							
July 2032 - June 2033	10							

Appendix 3

Process Flow Events Log

7/1/2023 – 6/30/2033

per the updated approved Nov 2023 Process Flow Plan

Process Flow Log

Date ¹	Time ²	Magnitude ³ (cfs)	Duration ⁴ (hrs)	Accretion ⁵ (cfs)	Notes ⁶	Counts as PF Type ⁷
9/24/2023	10:30 to 20:30	R3 – 670 (average), Range 409 to 856 cfs	10 hours greater than 400 cfs	Estimated at 10 cfs	Reference Figure 1	F, U
9/24-25/2023	12:00 to 01:00	R2 – 752 (average), Range 506 to 970 cfs	13 hours greater than 500 cfs	Estimated at 25 cfs	Reference Figure 2	F, U
9/24-25/2023	13:45 to 02:15	R1 – 1,289 (average), Range 1,220 to 1,340 cfs	12.75 hours greater than 1,200 cfs	Estimated at 25 cfs	Reference Figure 3 Reservoir elevation < 1,420'	F, U
4/3-4/2024	23:30-05:30	R3 – 267 (average), Range 241 to 271 cfs	6 hours greater than 200 cfs	Estimated at 30 cfs	Reference Figure 4	O
4/3-4/2024	21:30-05:30	R2 – 444 (average), Range 414 to 500 cfs	8 hours greater than 400 cfs	Estimated at 35 cfs	Reference Figure 5	O
4/3-4/2024	21:30-05:30	R1 – 911 (average), Range 858 to 958 cfs	8 hours greater than 800 cfs	Estimated at 35 cfs	Reference Figure 6	O

¹ Start Date of Event (MM/DD/YYYY)

² Start Time-End Time

³ Magnitude of the Event for Each Compliance Location (R1-Reach 1, R2-Reach 2, R3-Reach 3)

⁴ Duration of Event

⁵ Portion of Event Attributed to Accretion Flows

⁶ Notes of Day's Event, Sequencing with Other Flow Events/Maintenance, Released or Natural

⁷ Channel Forming (CF), Channel Maintenance (CM), Flushing (F), Outmigration (O), Upmigration (U)

Process Flow Log

Date ¹	Time ²	Magnitude ³ (cfs)	Duration ⁴ (hrs)	Accretion ⁵ (cfs)	Notes ⁶	Counts as PF Type ⁷
4/11/2024	05:30-11:30	R1 – 1,658 (average), Range 1,520 to 1,690 cfs	6 hours greater than 1,500 cfs	Estimated at 30 cfs	Reference Figure 7	F
4/28-29/2024	21:15-04:30	R1 – 861 (average), Range 823 to 926 cfs	7.25 hours greater than 800 cfs	Estimated at 80 cfs	Reference Figure 8	O
4/28-29/2024	10:45-05:45	R3 – 526 (average) 410 to 642 cfs	7 hours greater than 400 cfs	Estimated at 85 cfs	Reference Figure 9	F
4/28-29/2024	21:15-04:30	R3 – 467 (average) 446 to 498 cfs	7.25 hours greater than 200 cfs	Estimated at 85 cfs	Reference Figure 9	O
4/28-29/2024	12:15-09:15	R2 – 727 (average) 501 to 904 cfs	21 hours greater than 500 cfs	Estimated at 80 cfs	Reference Figure 10	F
4/28-29/2024	21:15-04:30	R2 – 682 (average) 649 to 750 cfs	7.25 hours greater than 400	Estimated at 80 cfs	Reference Figure 10	O
8/17/2024	10:30-16:30	R3 – 671 (average) 621 to 721 cfs	6 hours greater than 600 cfs	Estimated at 10 cfs	Reference Figure 11	F
8/17/2024	12:15-18:15	R2 – 798 (average) 716 to 853 cfs	6 hours greater than 700 cfs	Estimated at 15 cfs	Reference Figure 12	F
8/17-18/2024	12:00-01:30	R1 – 1,669 cfs (average) 1,520 to	13.5 hours greater than	Estimated at 25 cfs	Reference Figure 13	F

Process Flow Log

Date ¹	Time ²	Magnitude ³ (cfs)	Duration ⁴ (hrs)	Accretion ⁵ (cfs)	Notes ⁶	Counts as PF Type ⁷
		1,810 cfs	1,500 cfs			
9/7–8/2024	09:30-15:00	R3 – 509 (average) 317-728	18 hours greater than 300 cfs	Estimated 8	Reference Figure 14	U
9/7–8/2024	12:30-15:00	R2 – 631 (average) 413 to 762 cfs	26.5 hours greater than 400 cfs	Estimated 13	Reference Figure 15	U
9/7/2024	12:00-18:00	R1 – 844 (average) 805 to 858 cfs	6 hours greater than 800 cfs	Estimated 13	Reference Figure 16	U
3/21-22/2025	18:00-00:00	R3 – 479 (average), Range 456 to 492 cfs	30 hours greater than 200 cfs	Estimated 65	Reference Figure 17	O
3/21-22/2025	20:00-06:00	R2 – 723 (average), Range 678 to 744 cfs	10 hours greater than 400 cfs	Estimated 70	Reference Figure 18	O
3/23-25/2025	12:00-19:00	R1 – 1,837 (average) Range 1,500 – 2,236 cfs	55 hours greater than 1,500 cfs	Estimated 70	Reference Figure 19	F, O
4/1-4/2025	00:00-06:00	R2 – 731 (average), Range 666 – 781 cfs	78 hours greater than 600 cfs	Estimated 31	Reference Figure 20	F, O
4/1-9/2025	00:00-00:00	R3 – 462 (average) Range 402-512 cfs	216 hours greater than	Estimated 22	Reference Figure 21	F,O

Process Flow Log

Date ¹	Time ²	Magnitude ³ (cfs)	Duration ⁴ (hrs)	Accretion ⁵ (cfs)	Notes ⁶	Counts as PF Type ⁷
			400 cfs			
4/17-18/2025	20:00-4:00	R1 – 829 (average), Range 818 to 844 cfs	8 hours with flows greater than 800 cfs	Estimated 70	Reference Figure 22	0

Process Flow Log

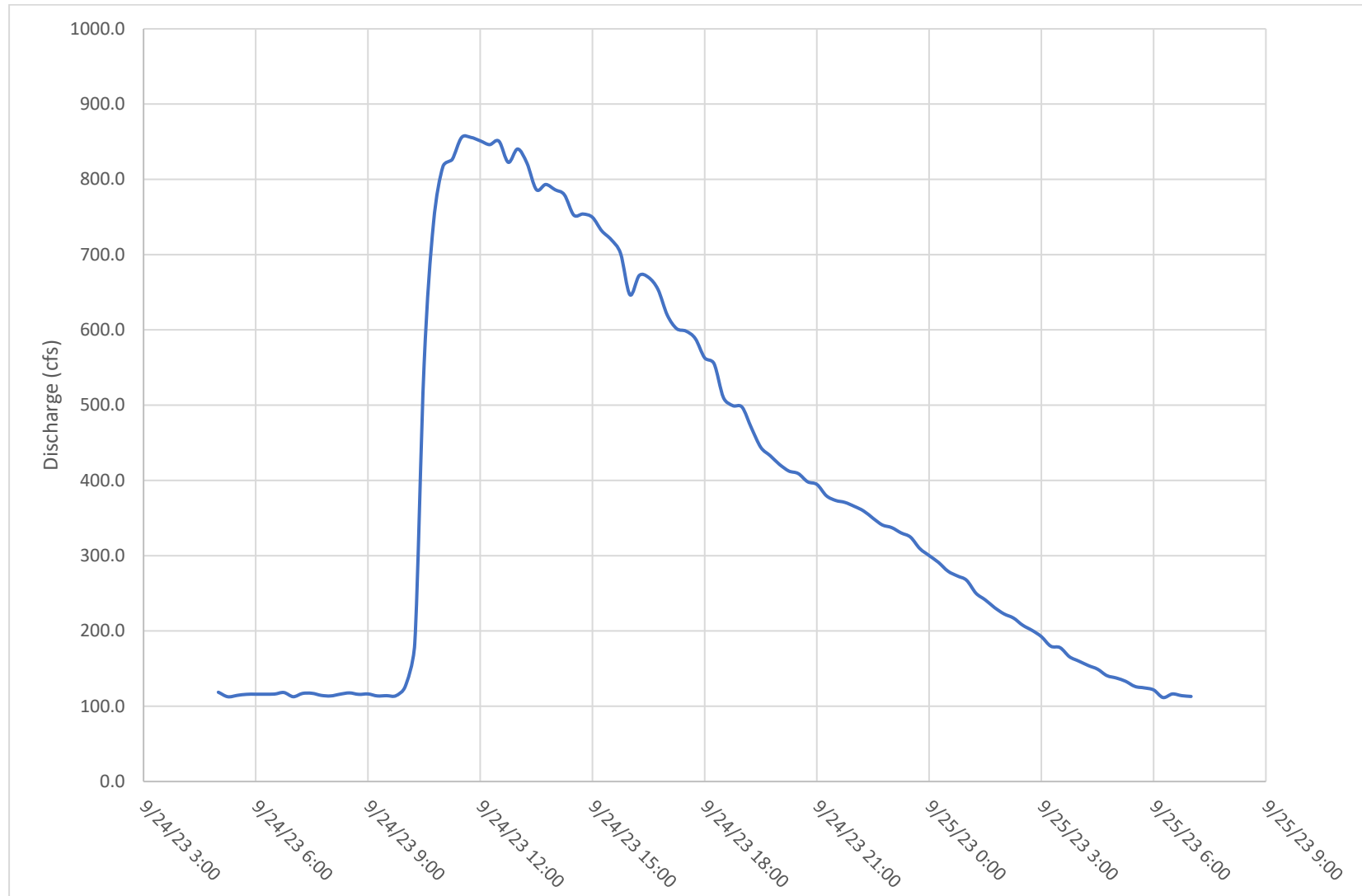


Figure 1. Sultan River immediately upstream of Diversion Dam – 09/24/2023.

Process Flow Log

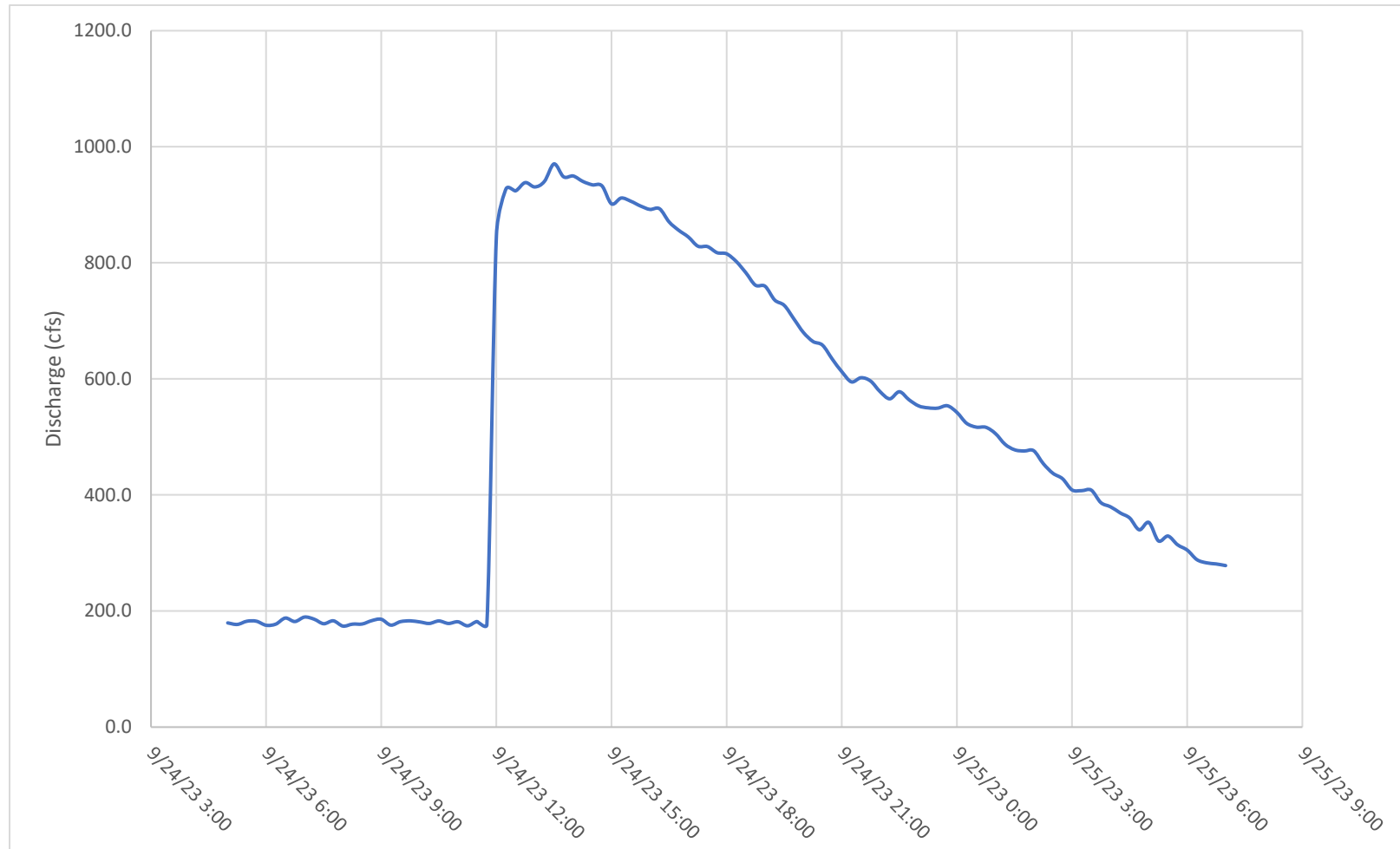


Figure 2. Sultan River immediately upstream of Powerhouse – 09/24-25/2023.

Process Flow Log

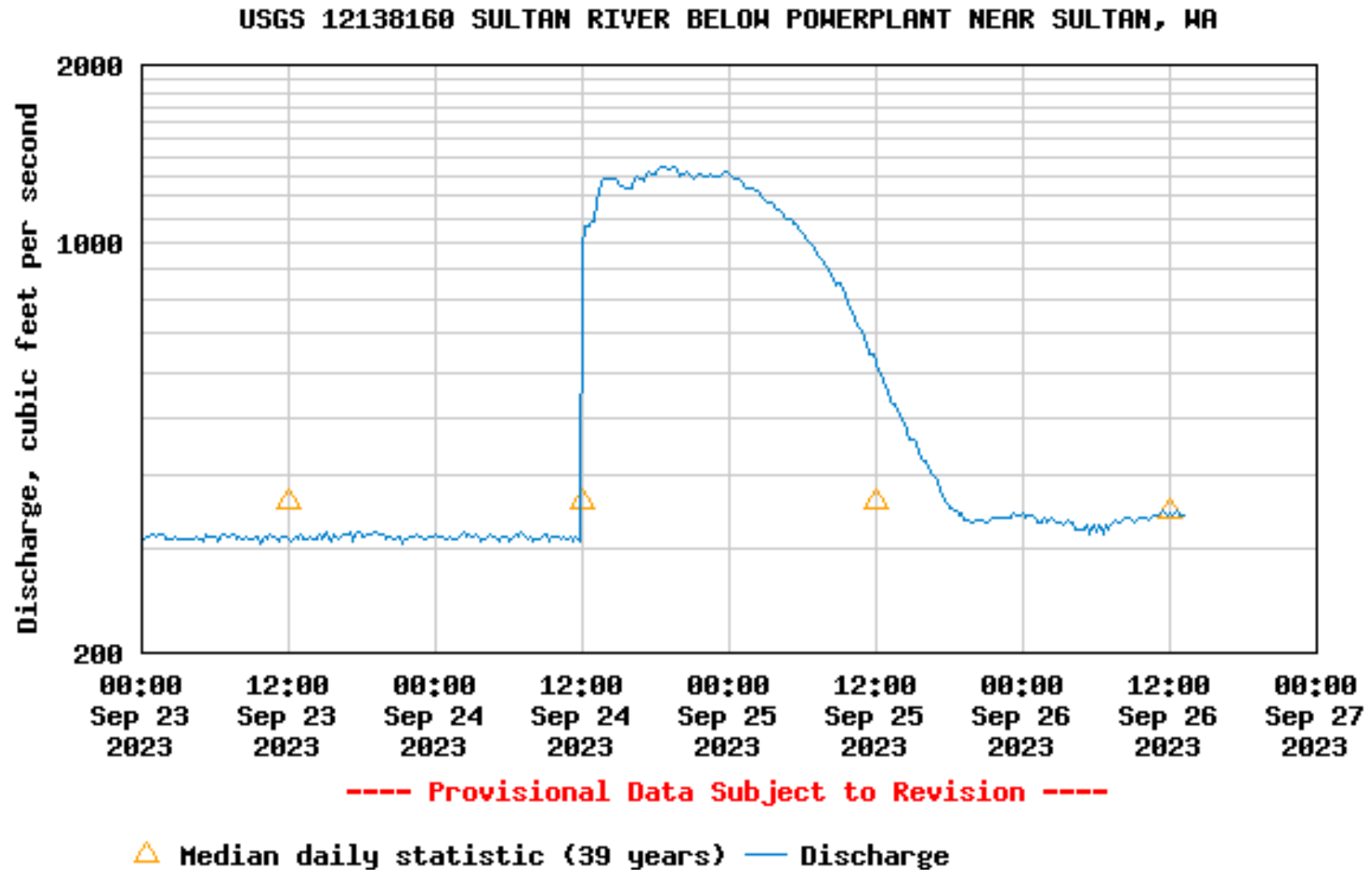


Figure 3. Sultan River immediately downstream of Powerhouse – 09/24-25/2023.

Process Flow Log

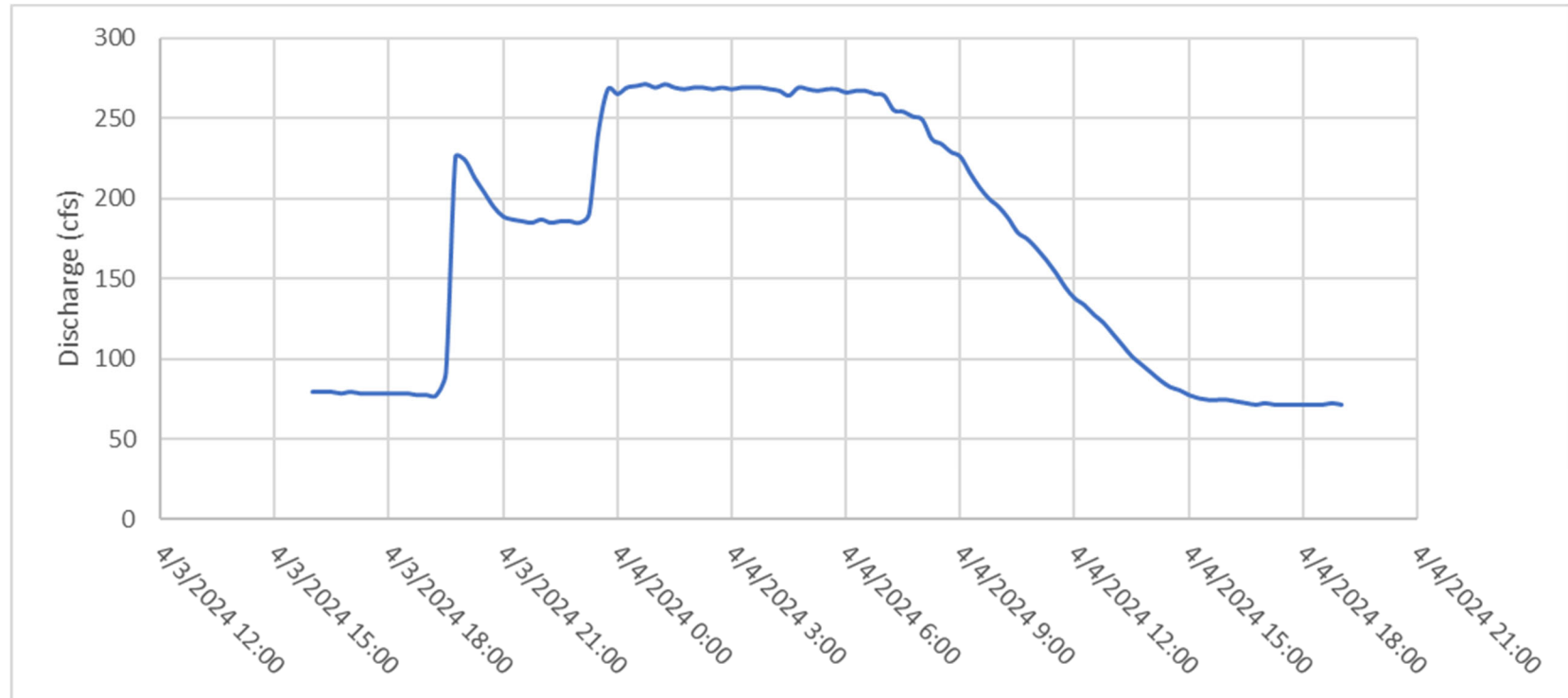


Figure 4. Sultan River immediately upstream of Diversion Dam – 04/03-04/2024.

Process Flow Log

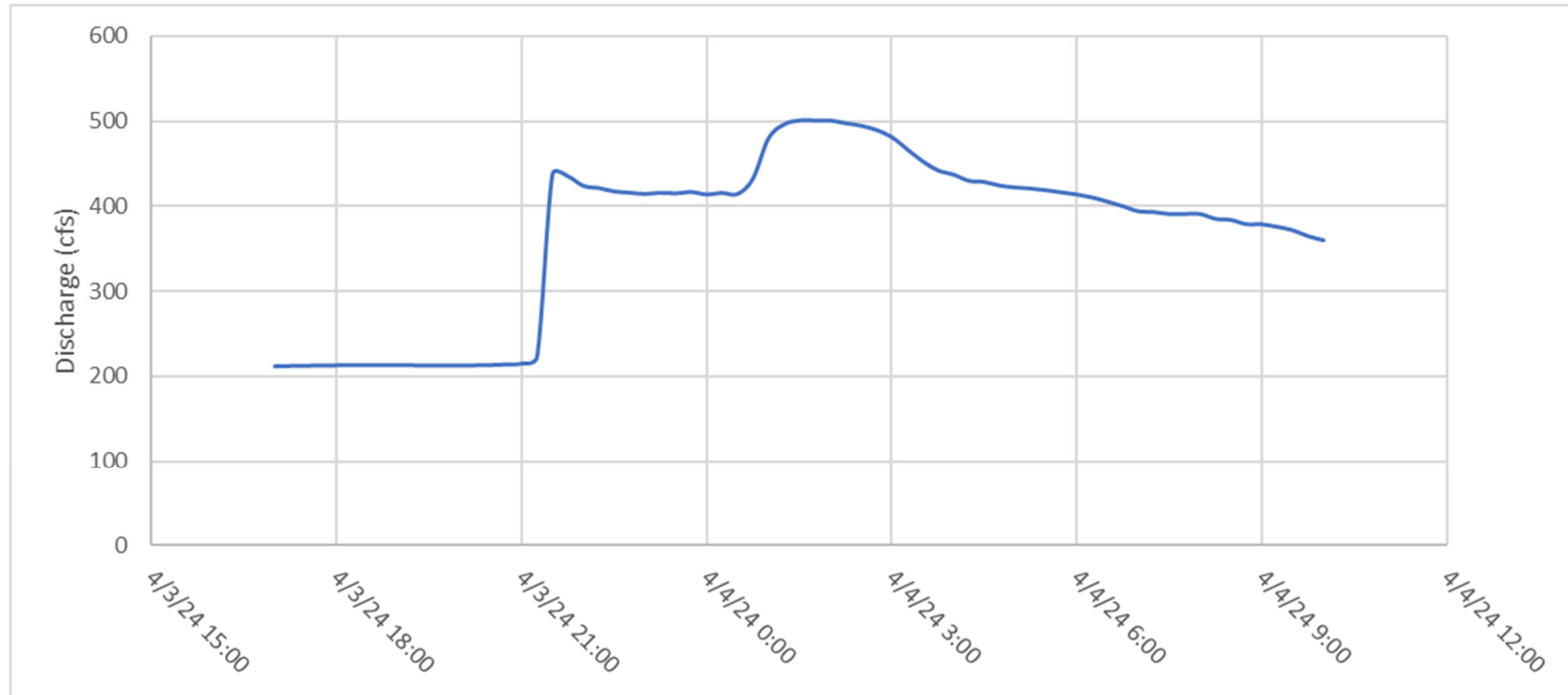


Figure 5. Sultan River immediately upstream of Powerhouse – 04/03-04/2024.

Process Flow Log

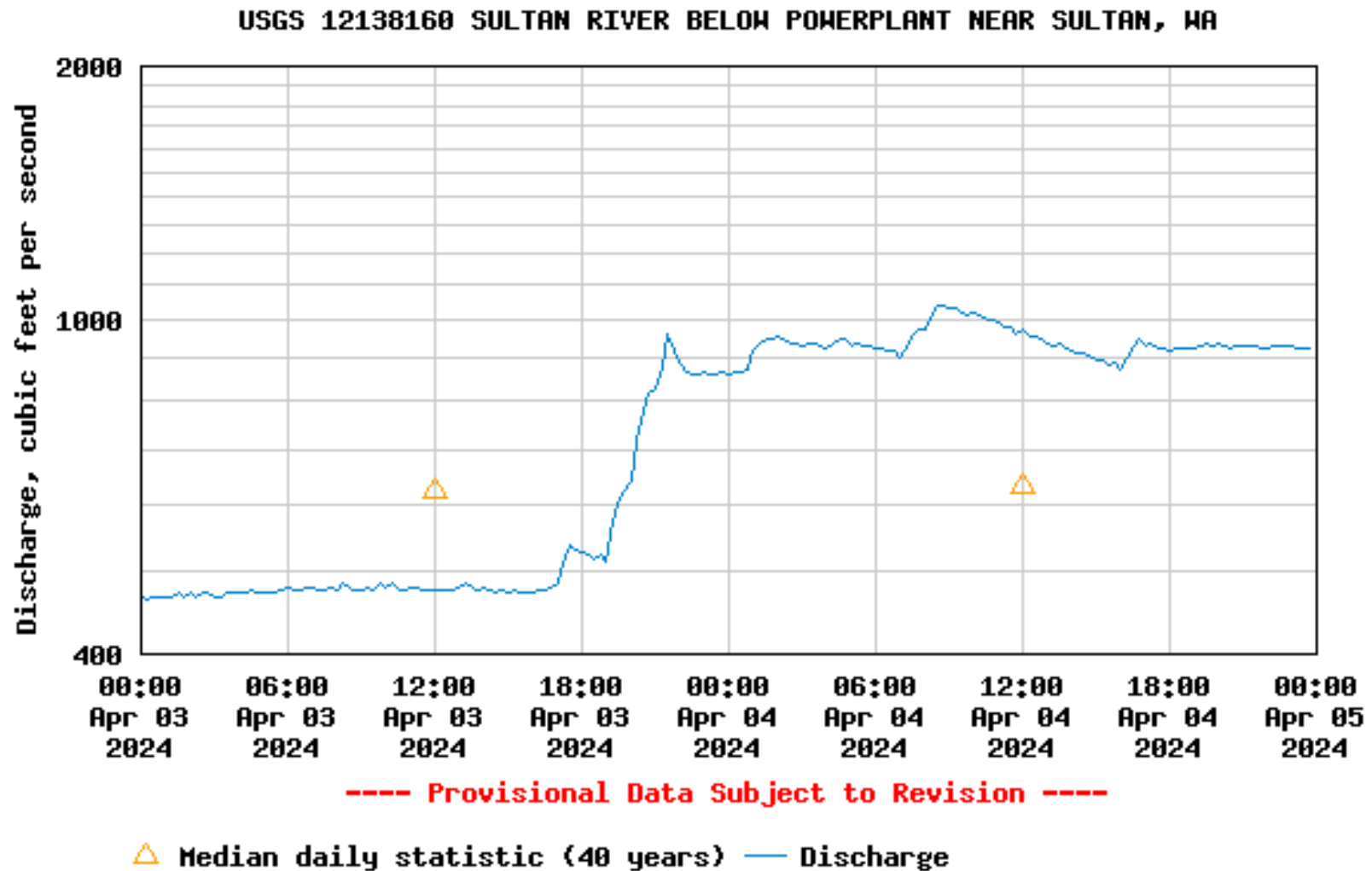


Figure 6. Sultan River immediately downstream of Powerhouse – 04/03-04/2024.

Process Flow Log

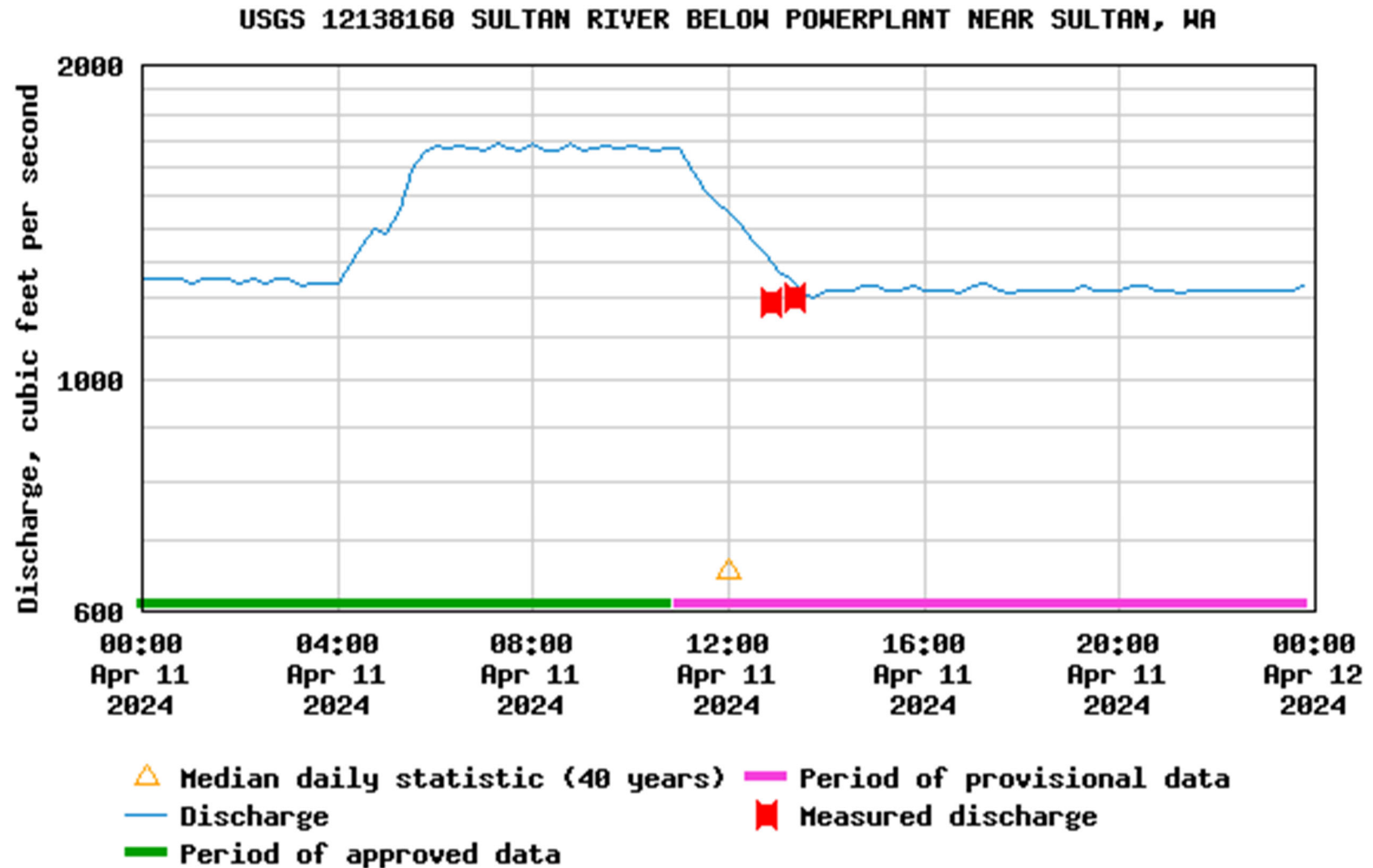


Figure 7. Sultan River immediately downstream of Powerhouse – 04/11/2024

Process Flow Log

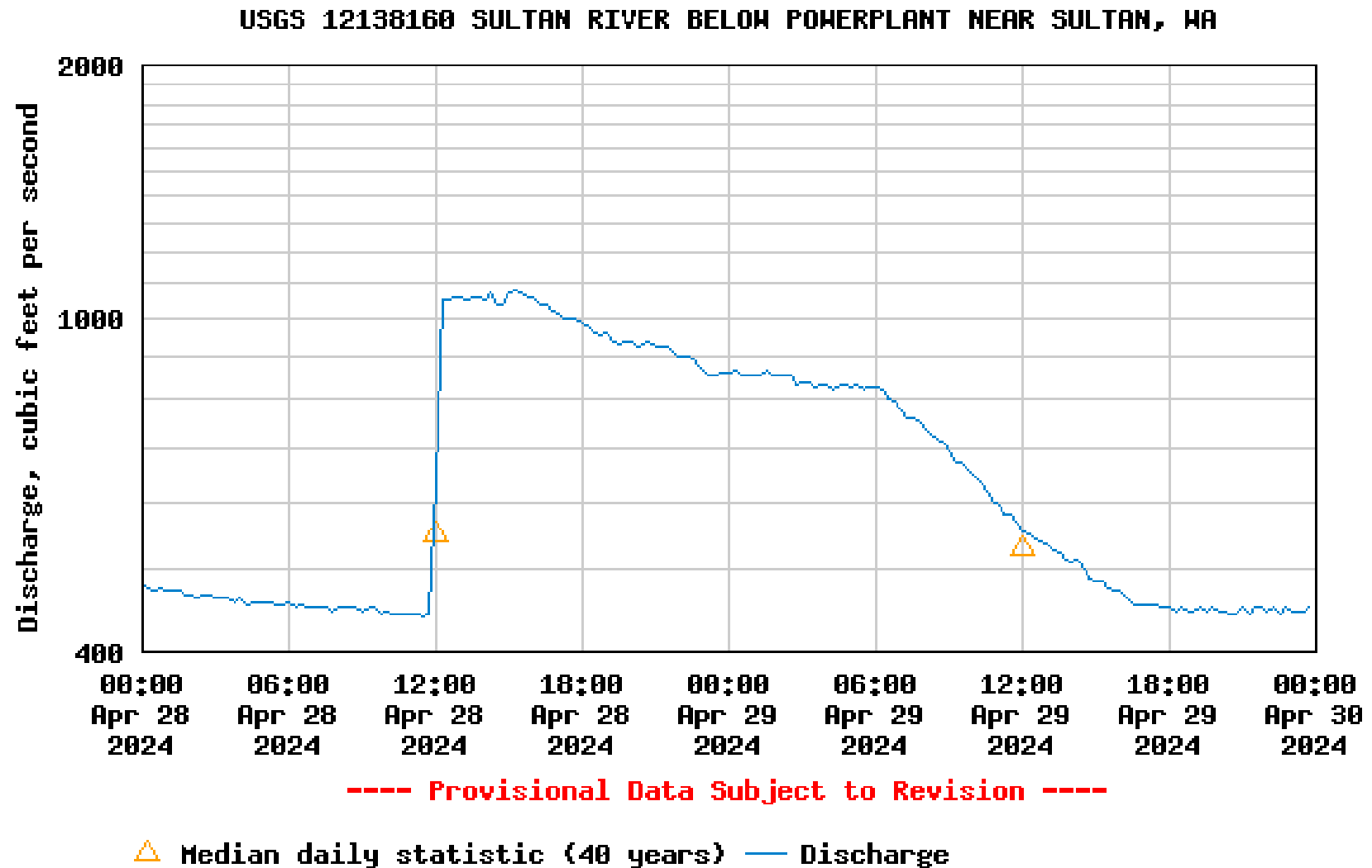


Figure 8. Sultan River immediately downstream of Powerhouse – 04/28-04/29/2024.

Process Flow Log

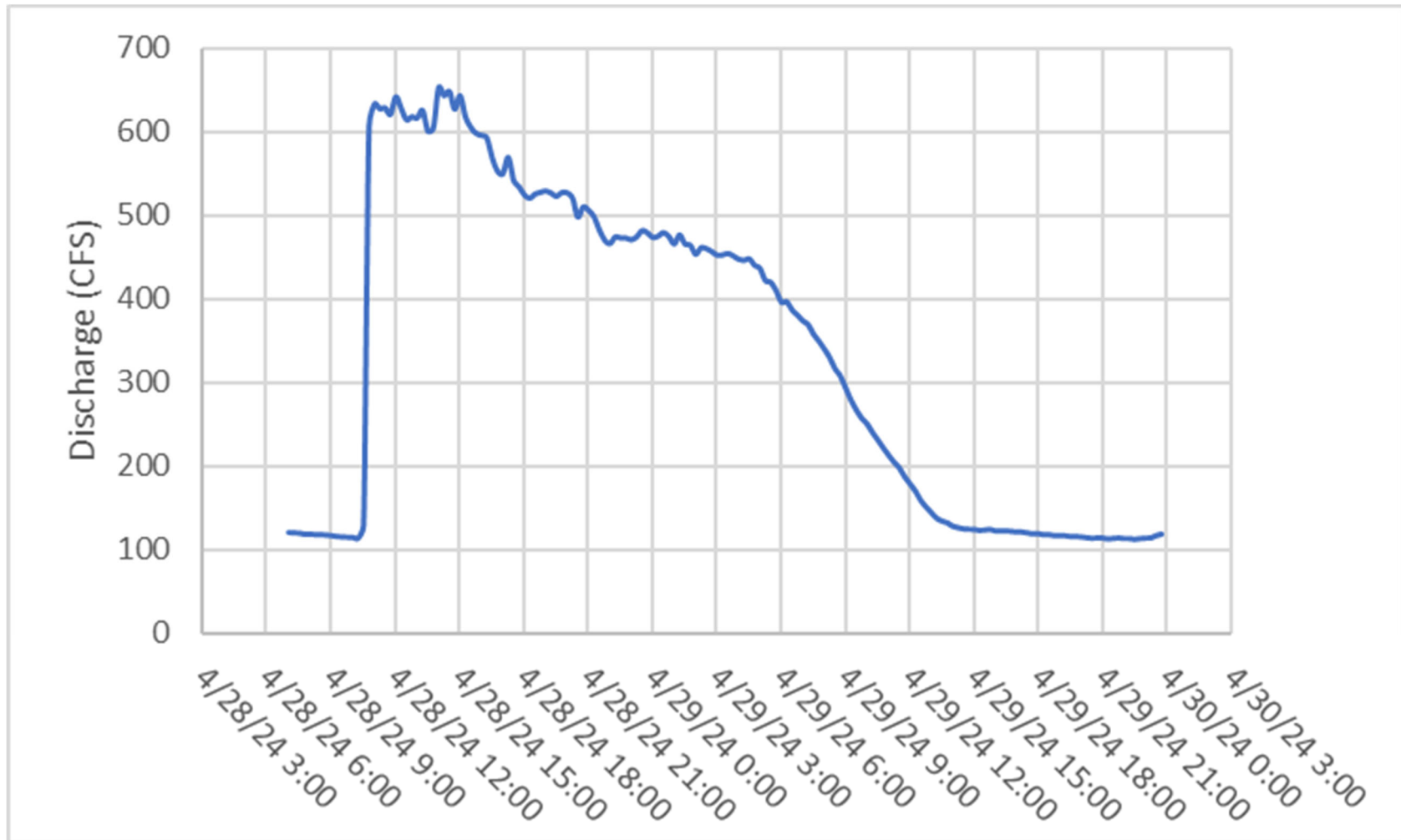


Figure 9. Sultan River immediately upstream of Diversion Dam – 04/28-04/29/2024.

Process Flow Log

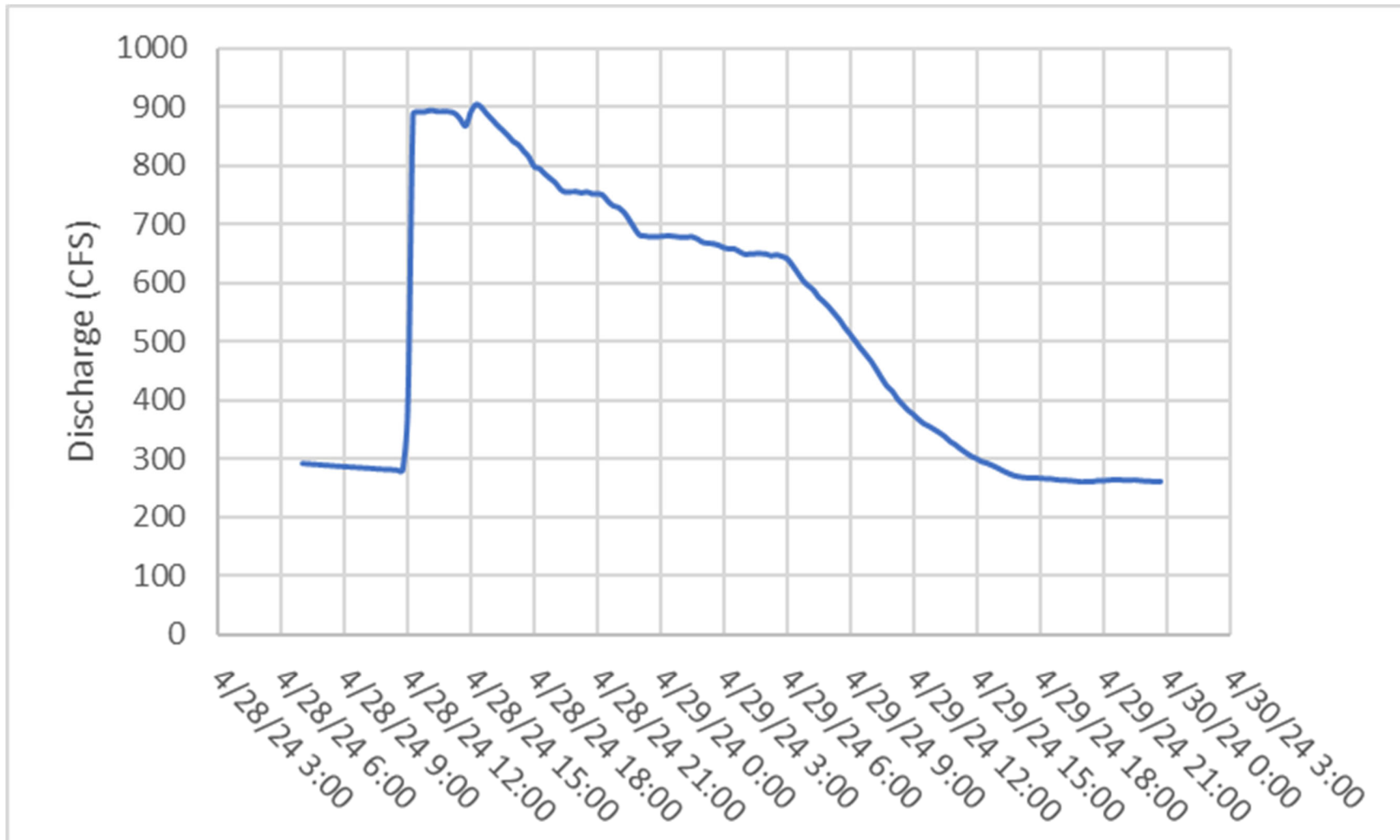


Figure 10. Sultan River immediately upstream of Powerhouse – 04/28-04/29/2024.

Process Flow Log

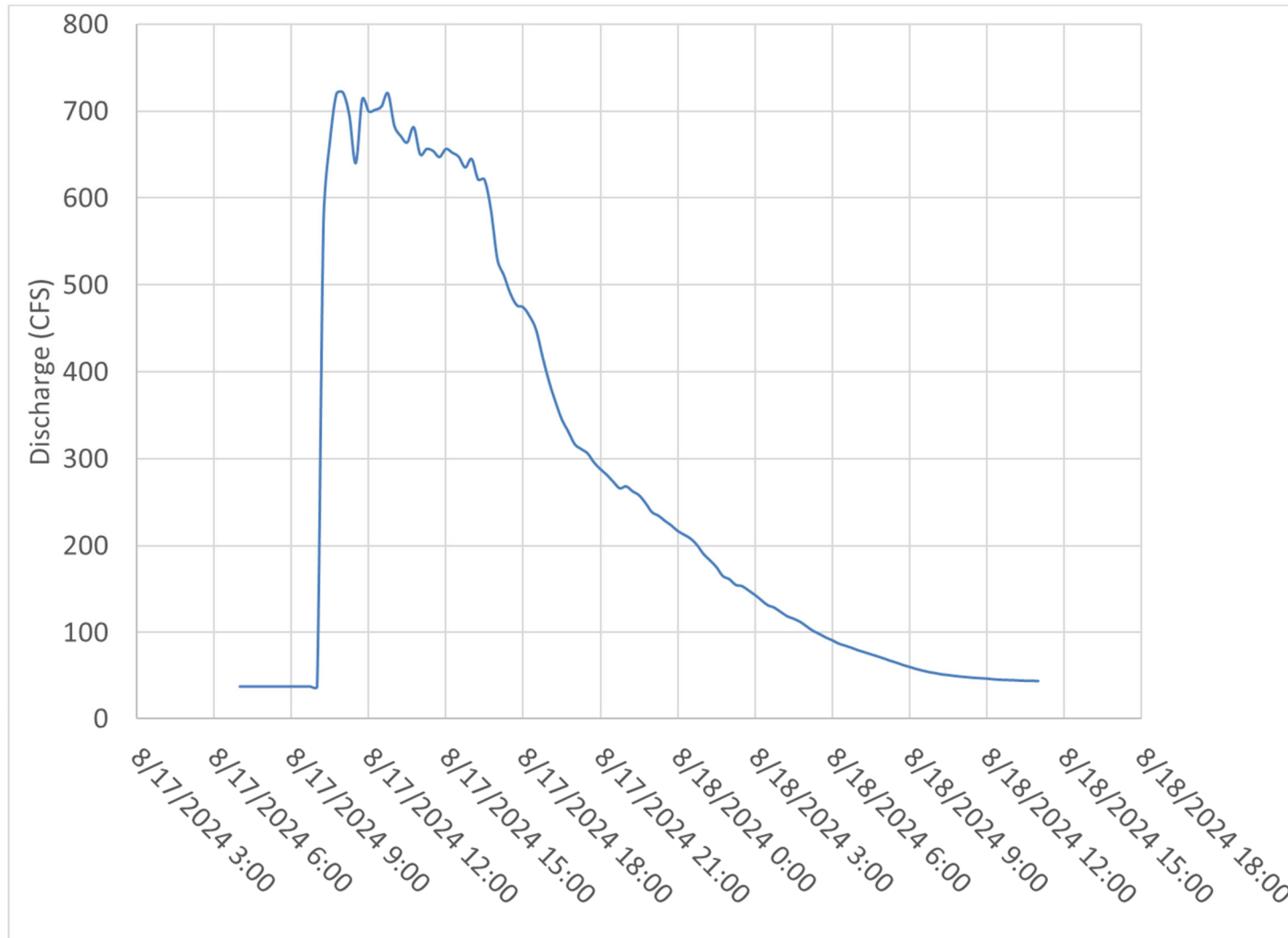


Figure 11. Sultan River immediately upstream of Diversion Dam – 8/17-18/2024.

Process Flow Log

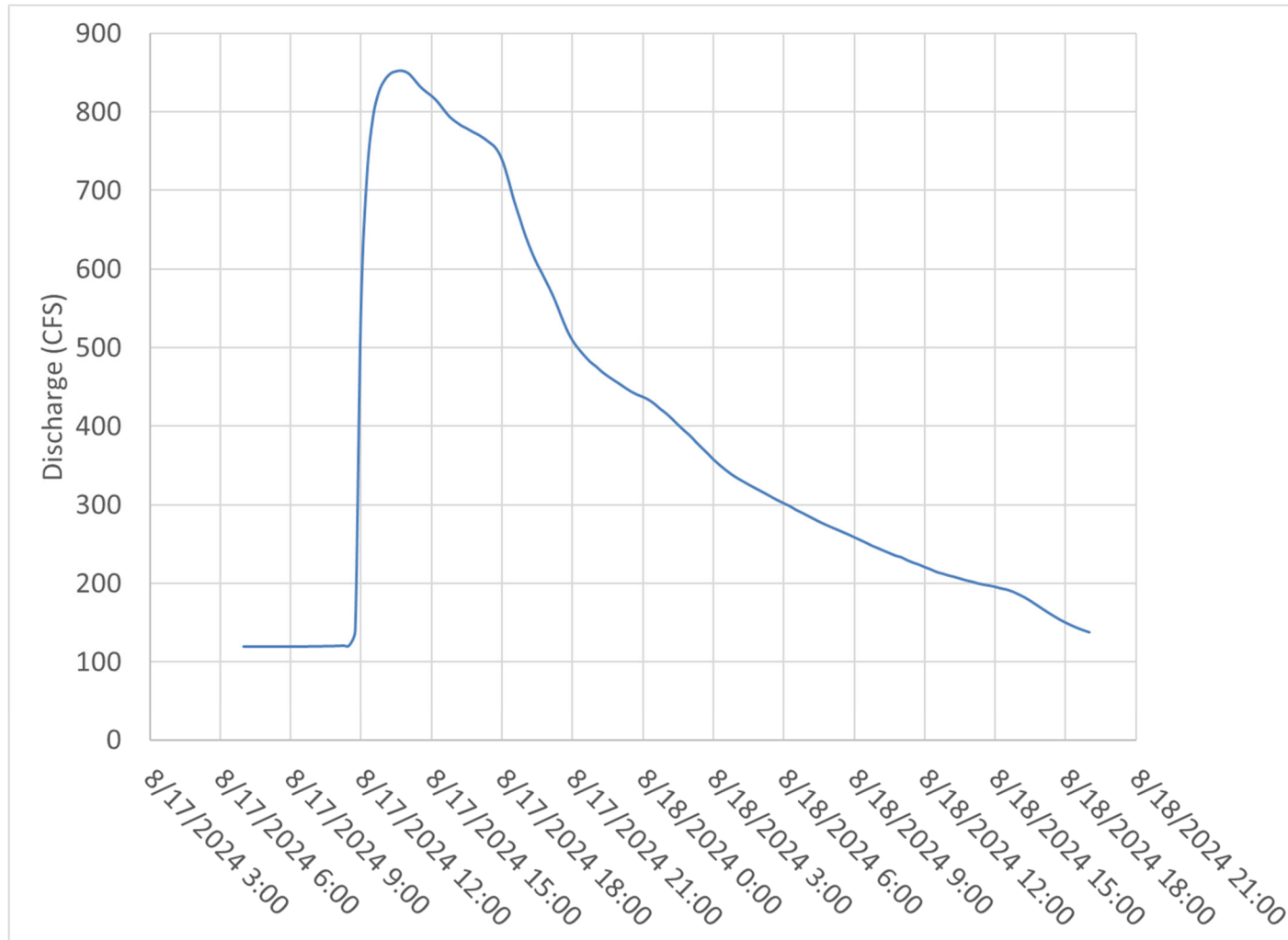


Figure 12. Sultan River immediately upstream of Powerhouse – 08/17-18/2024.

Process Flow Log

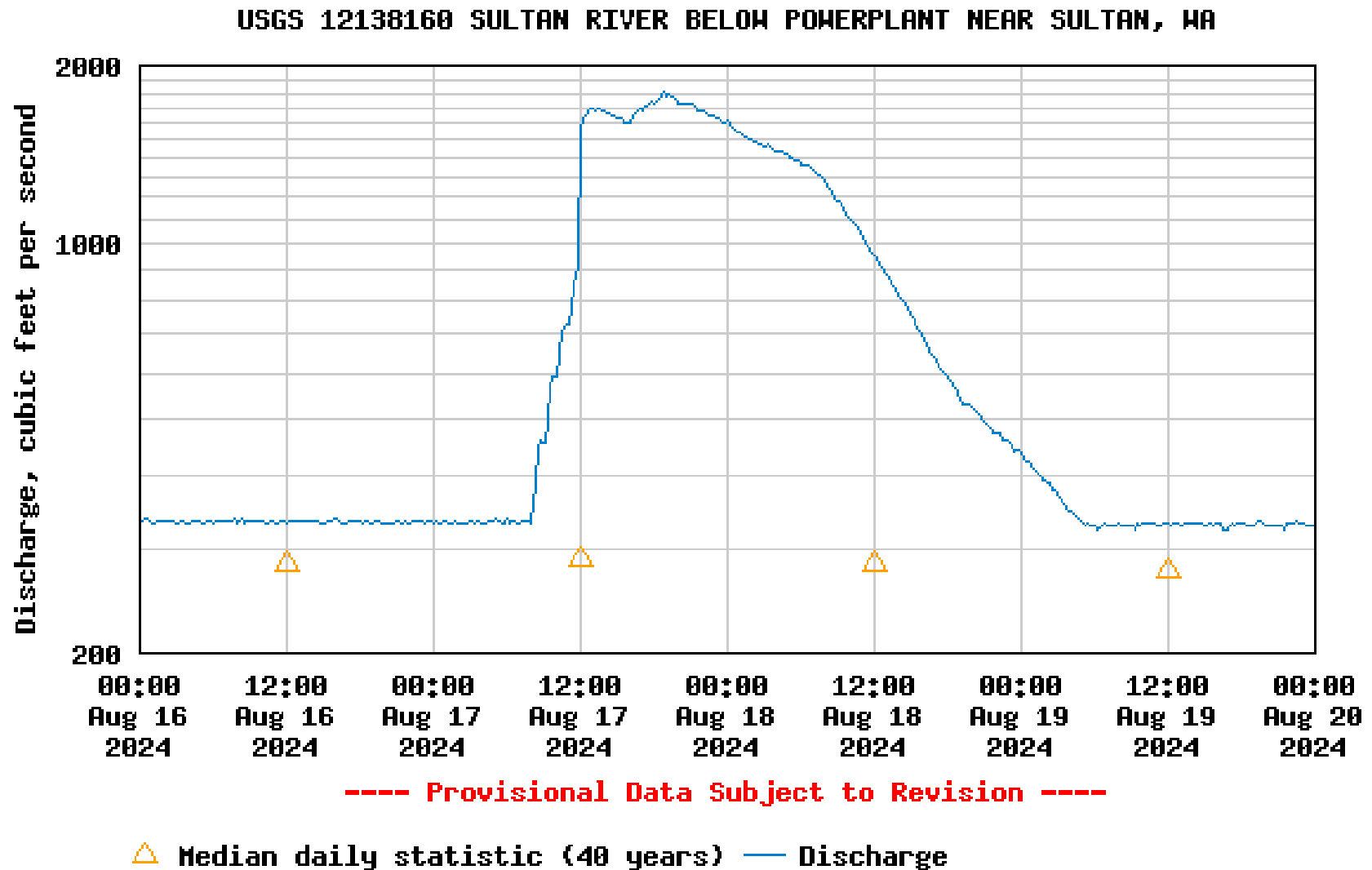


Figure 13. Sultan River immediately downstream of Powerhouse – 08/17-18/2024.

Process Flow Log

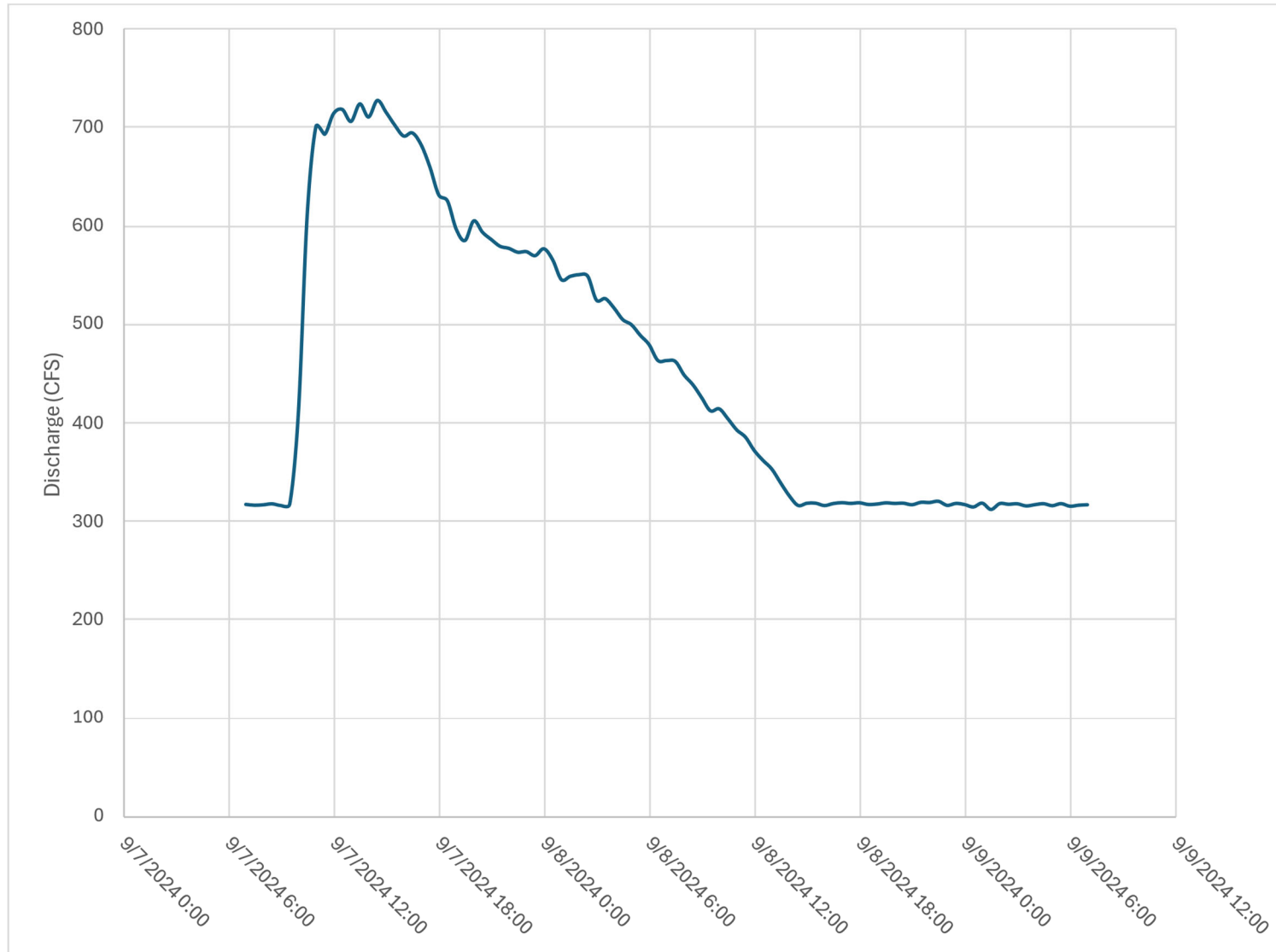


Figure 14. Sultan River immediately upstream of Diversion Dam – 9/07-8/2024.

Process Flow Log

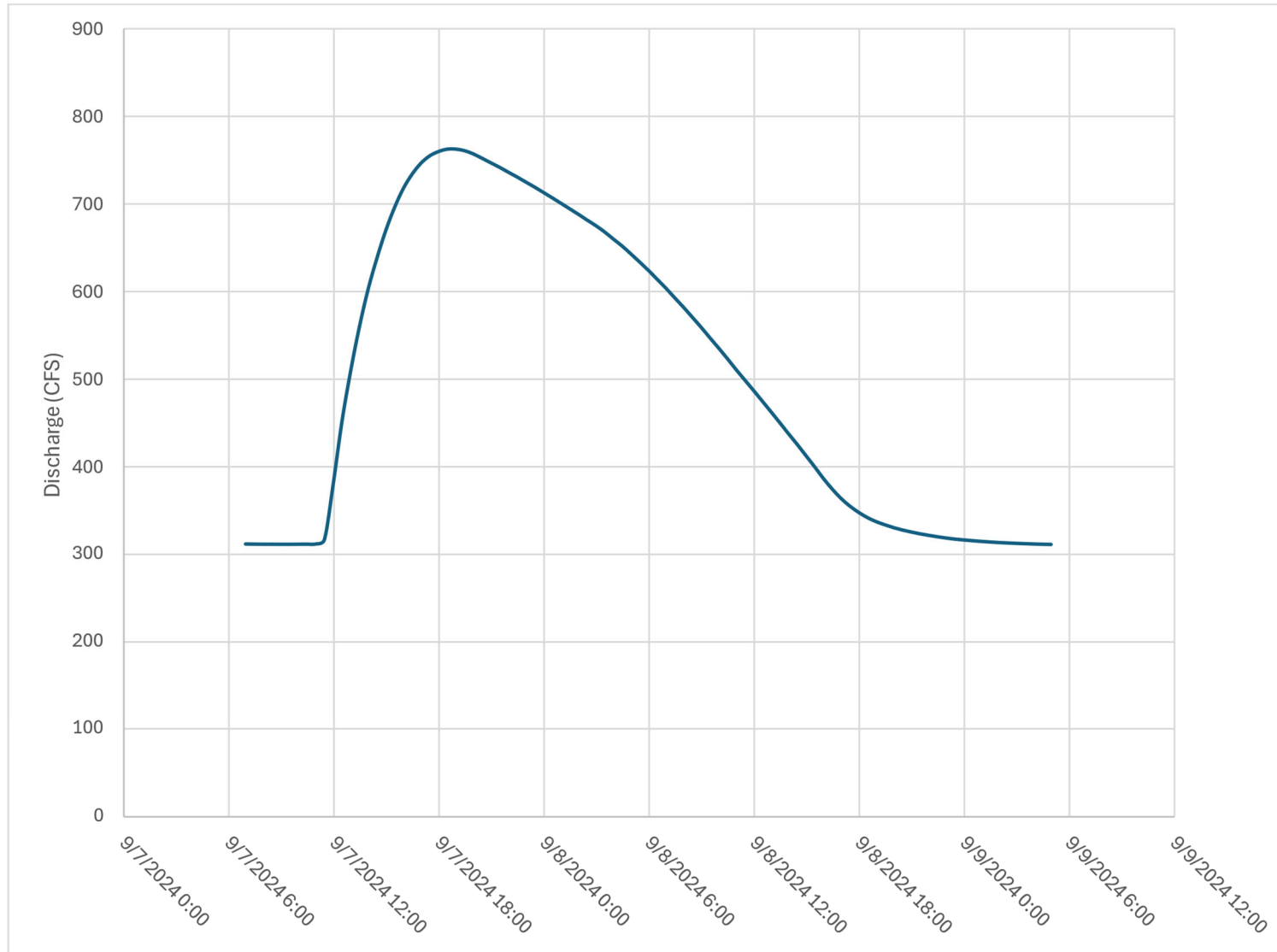


Figure 15. Sultan River immediately upstream of Powerhouse – 09/07-09/2024.

Process Flow Log

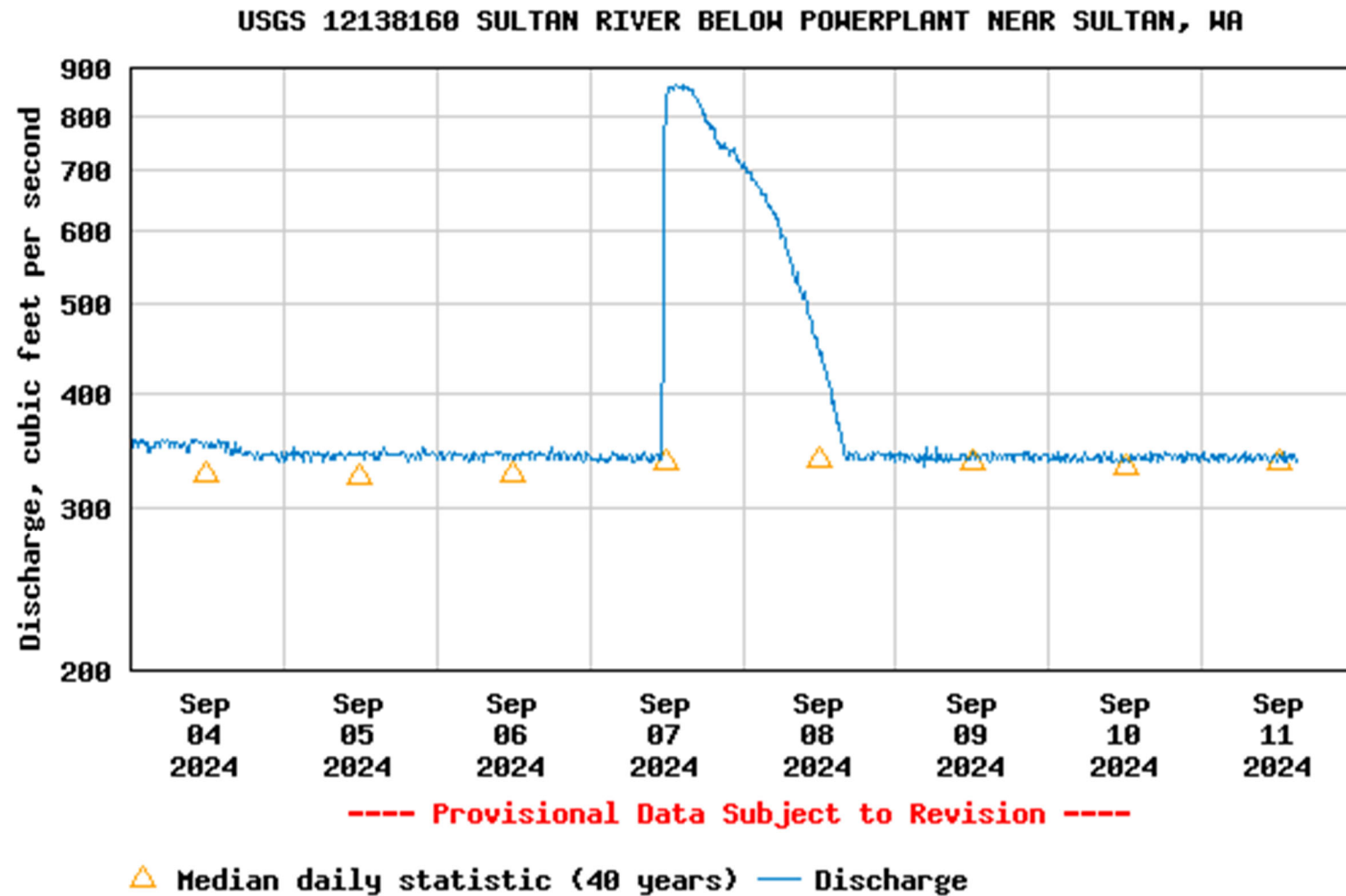


Figure 16. Sultan River immediately downstream of Powerhouse – 09/7/2024.

Process Flow Log

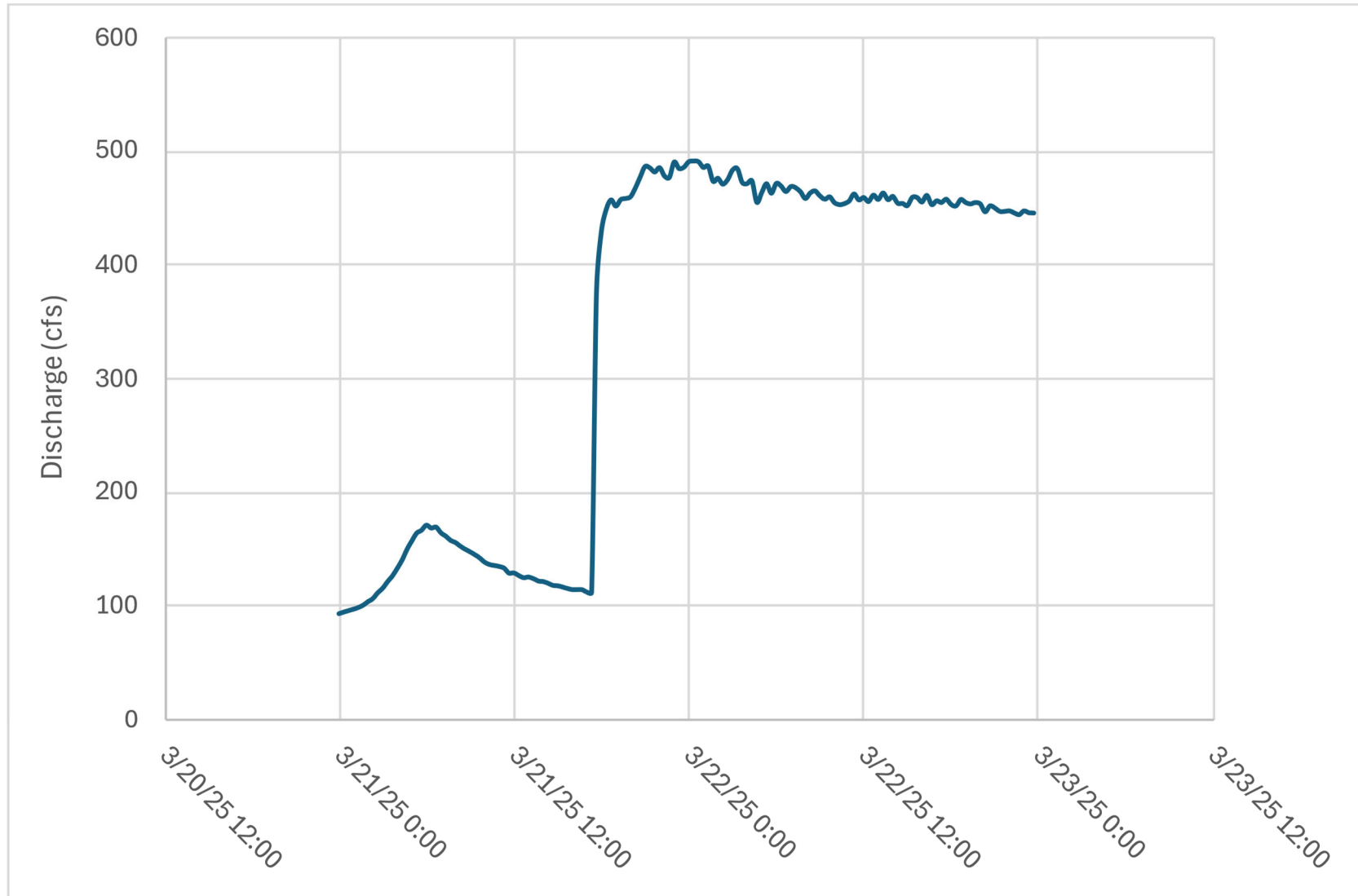


Figure 17. Sultan River immediately Upstream of Diversion Dam Flow – 03/21-22/2025.

Process Flow Log

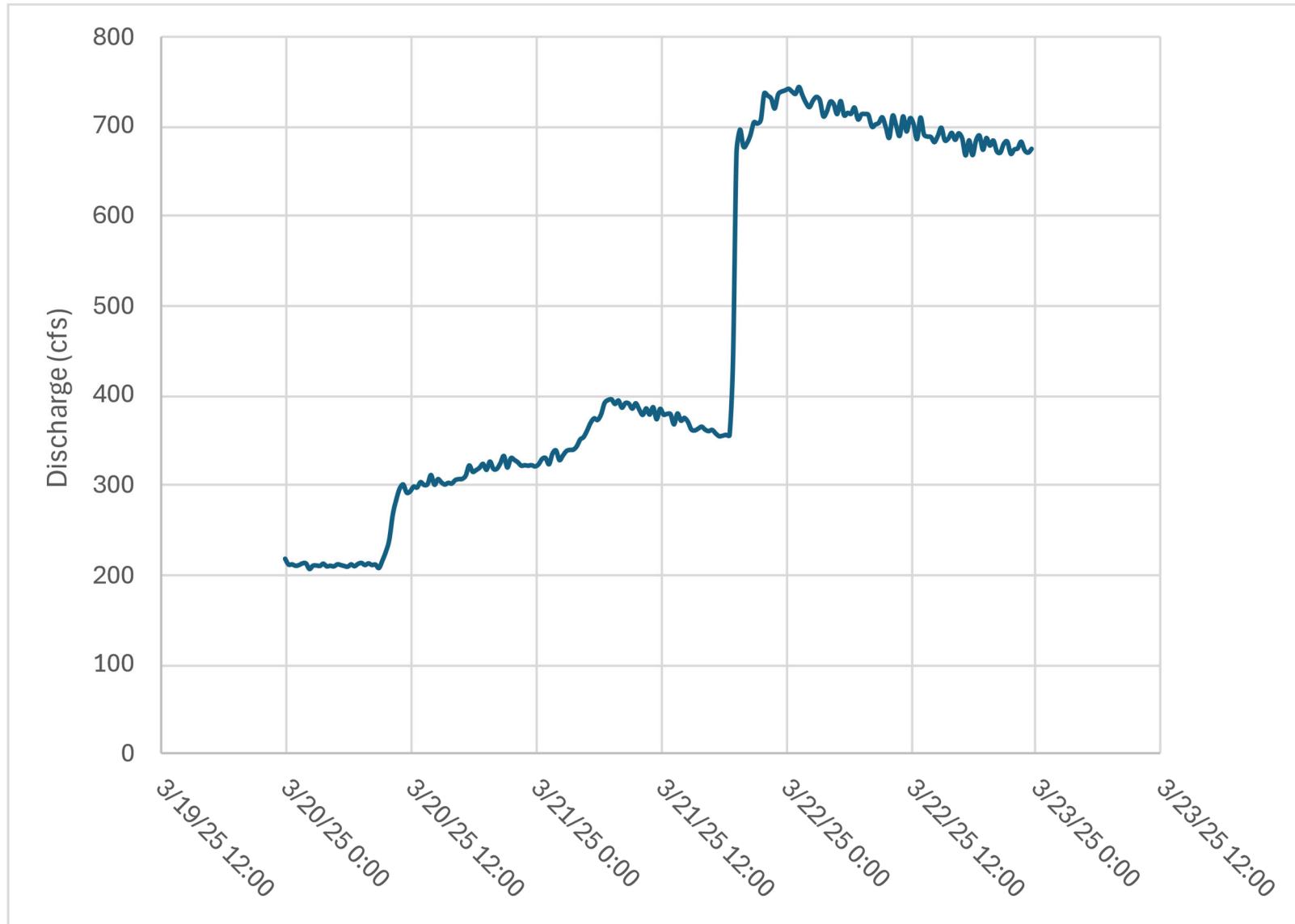


Figure 18. Sultan River immediately Upstream of Powerhouse Flow – 03/21-22/2025.

Process Flow Log

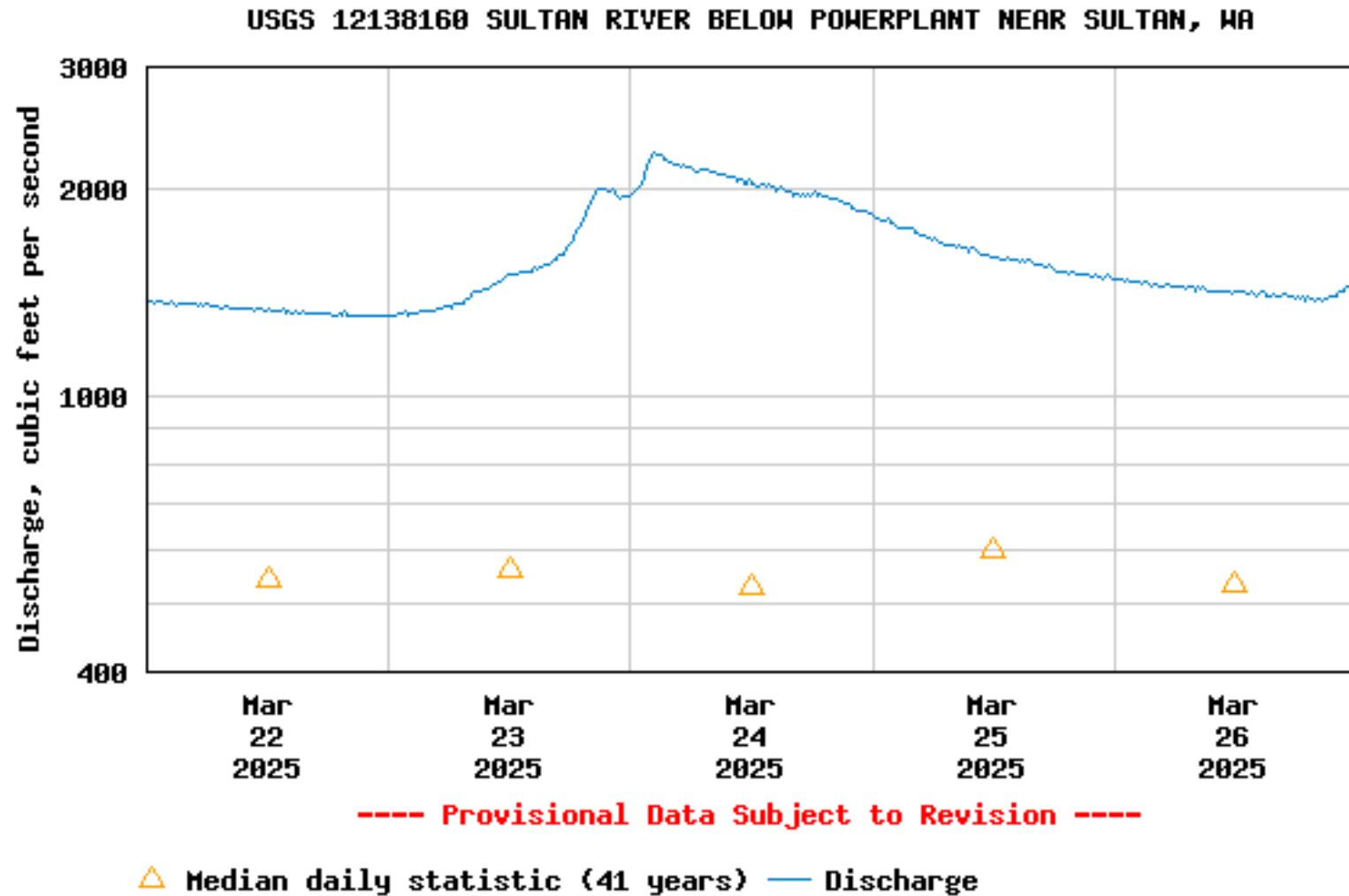


Figure 19. Sultan River immediately Downstream of Powerhouse Flow – 03/23-25/2025.

Process Flow Log

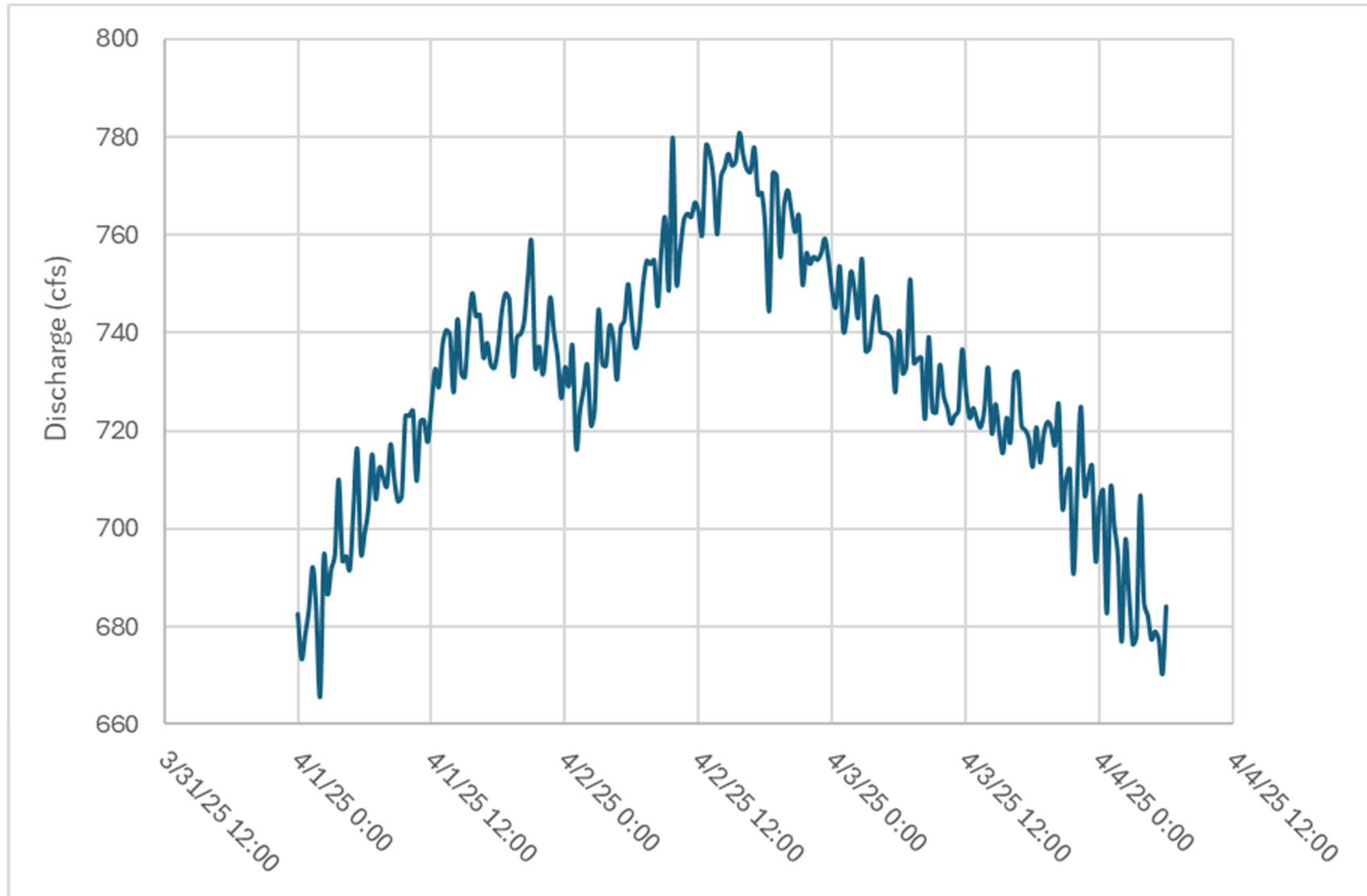


Figure 20. Sultan River immediately Upstream of Powerhouse Flow – 04/1/25 – 04/4/2025.

Process Flow Log

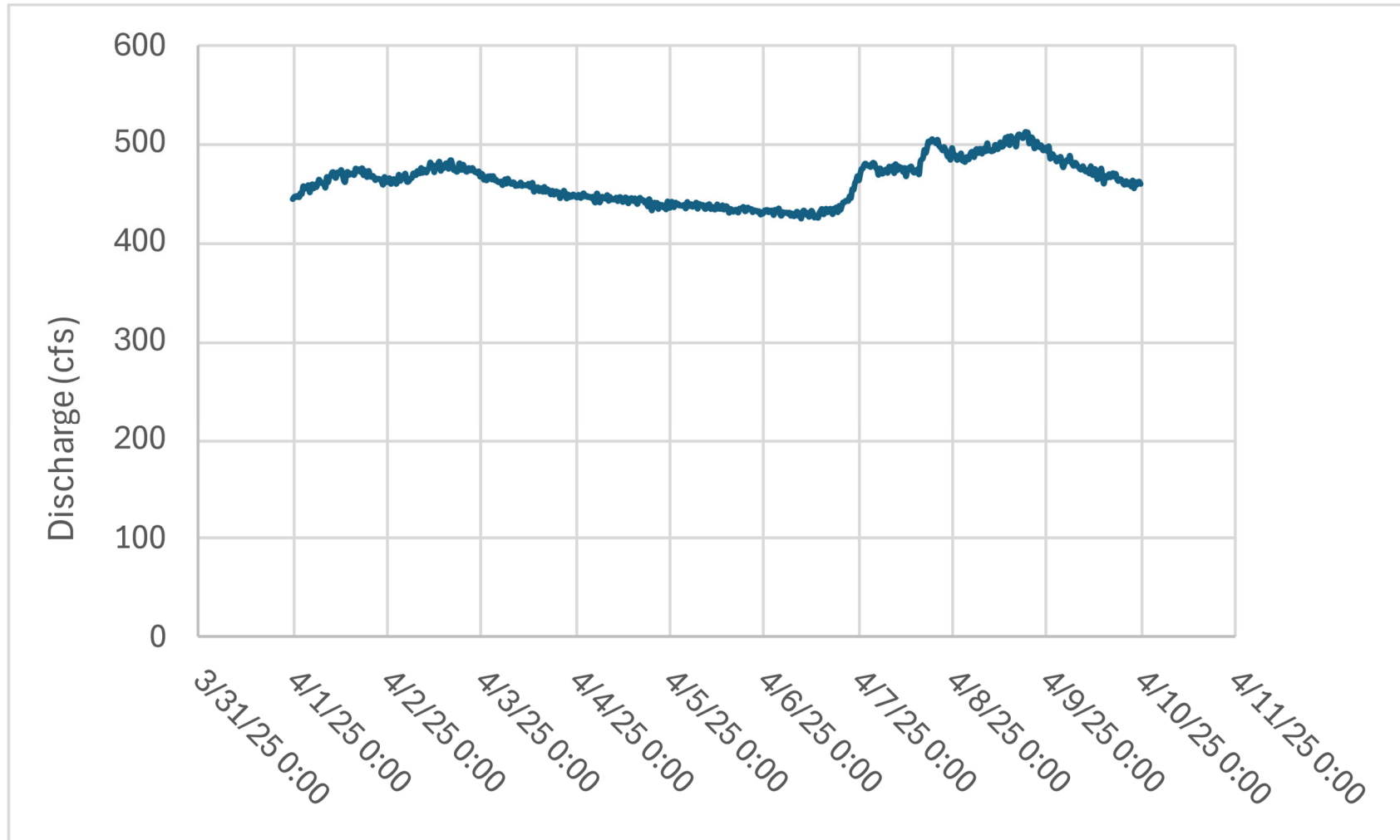


Figure 21. Sultan River immediately Upstream of Diversion Dam Flow – 04/1/25 – 04/9/2025.

Process Flow Log

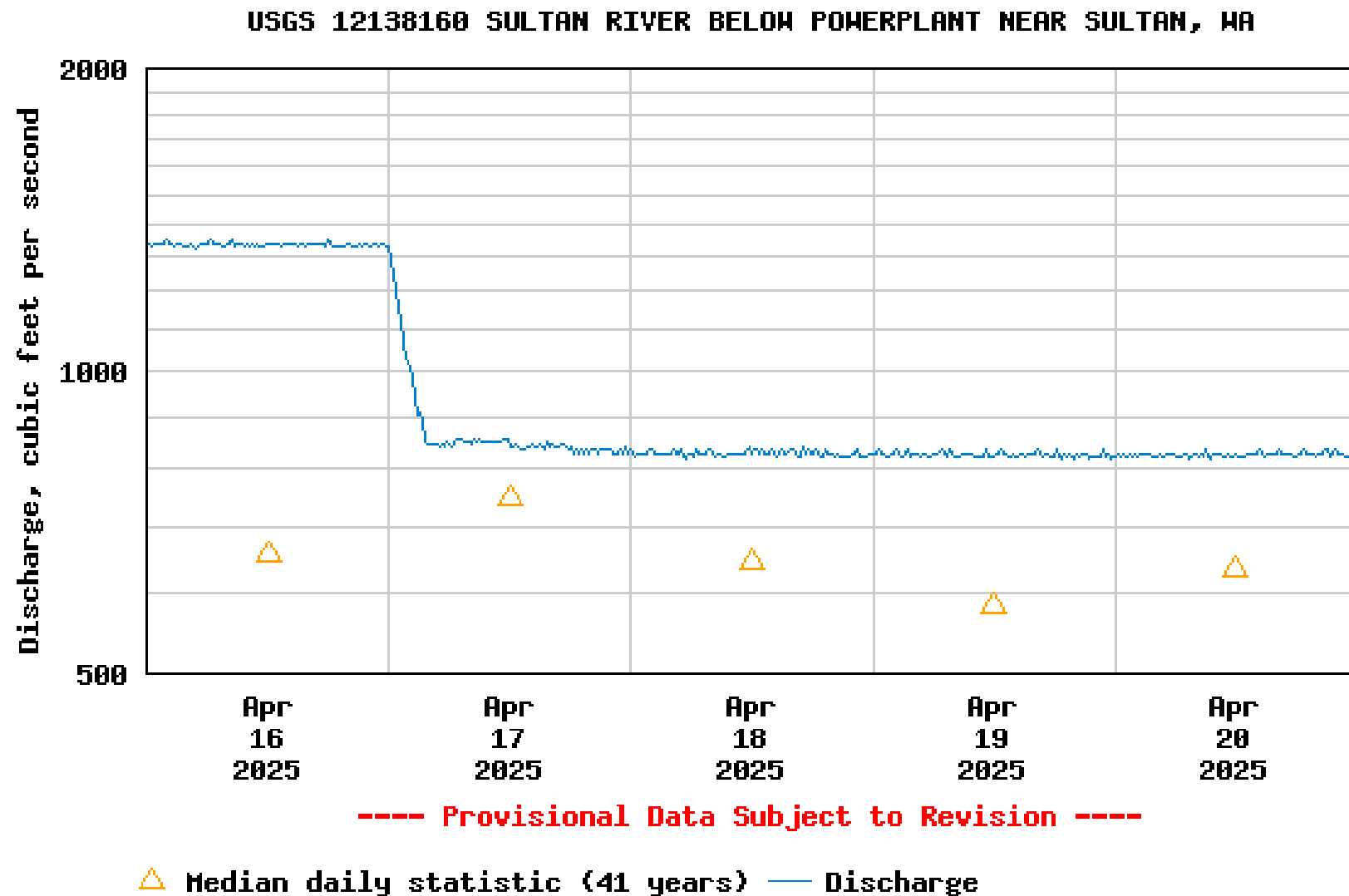


Figure 22. Sultan River immediately Downstream of Powerhouse Flow – 04/17-18/2025.