



REPORT

**Omya Canada Inc. Permit To Take Water
(P-300-1069049907)
*2023 Annual Monitoring Report***

Submitted to:

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1.0 INTRODUCTION

In 2023, WSP Canada Inc. (WSP), on behalf of Omya Canada Inc. (Omya), completed monitoring of the Tay River and groundwater wells as required for Permit to Take Water Number P-300-1069049907 (PTTW), in Perth Ontario (Figure 1). Omya has been completing flow monitoring in support of the PTTW since 2003. The following report summarizes the monitoring completed in 2023 as required under the PTTW.

2.0 MONITORING

2.1 Streamflow Monitoring

The Tay River flow is controlled upstream of the site at the Bolingbroke Dam at Bob's Lake. A hydrometric monitoring station, including a staff gauge, water level meter and datalogger, was previously installed by Omya to monitor water levels within the Tay River near Bowes Road, downstream of the Bolingbroke Dam and near the Omya site.

The 2023 flow monitoring data agreed with the existing stage discharge rating curve and no significant modifications to the curve were needed. Daily open water streamflow conditions were derived from daily water level records at the hydrometric station using the stage discharge rating curve. Streamflow records were adjusted to account for ice cover conditions, when present, based on Water Survey of Canada methods. The open water rating curve was previously reviewed and found to not be representative of iced conditions. To adjust for ice cover conditions, a second stage discharge relationship was developed in 2022 following collection of the monitoring data, using desktop analysis to estimate stream flow under ice conditions. Stream flow monitoring data were compared to nearby gauging stations, including the Tay River at Perth station (#02LA024) maintained by Water Survey of Canada (WSC) and the Tay River at Bobs Lake station (#02LA017) maintained by Parks Canada.

2.2 Omya Daily Water Takings

Daily surface water takings were recorded at the Omya water intake facility near Bowes Road, using the existing flow meter and totalizer. The flow meter was factory calibrated and is manually checked by Omya annually, to confirm its accuracy.

Daily peak and daily total groundwater takings are recorded for each well at the Omya plant site (PW1, PW2, PW3, PW4, PW5, PW6) on a continuous basis using a flow meter and totalizer. The pumps at each well are controlled to shut down if they reach the daily limit. The pump installations are also designed not to exceed the instantaneous water taking rates and therefore, Omya is confident that the daily and instantaneous limits were not exceeded in 2023.

3.0 RESULTS

3.1 Streamflow Data

Table 1 summarizes daily discharge (stream flow) at the hydrometric station for the period of January 1, 2023, through December 31, 2023. The streamflow recorded at the Bowes Road hydrometric station is displayed on Figure 2. The maximum streamflow measurement recorded during the monitoring period was 20.97 m³/s on April 7, 2023 and the minimum streamflow measurement recorded throughout the monitoring period was 0.78 m³/s which occurred on November 23, 25, 27, and 28, 2023.

Table 1: Daily Average Discharge (m³/s) at the Omya Hydrometric Station for 2023

Day	Flow (m ³ /s)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1	3.73 B	4.87 B	3.98 B	5.50	9.29	4.09	2.74	2.31	2.41	1.91	1.46	1.29 B
2	4.89 B	5.25 B	3.99 B	7.57	14.77	4.00	2.50	2.19	2.40	1.91	1.43	1.39 B
3	4.14 B	4.99 B	3.89 B	8.52	16.10	3.92	2.32	2.16	2.40	1.87	1.29	1.51 B
4	3.36 B	8.84 B	3.94 B	7.96	14.61	3.70	2.16	2.31	2.40	1.85	1.29	1.62 B
5	3.42 B	16.89 B	3.83 B	7.42	13.71	3.66	2.01	1.06	2.37	1.77	1.29	1.74 B
6	4.14 B	13.52 B	3.81 B	12.16	13.42	3.74	1.84	0.96	2.24	1.75	1.16	1.86 B
7	4.21 B	12.58 B	3.73 B	20.97	13.44	3.91	1.73	0.96	2.24	1.84	1.16	1.98 B
8	4.26 B	11.57 B	3.59 B	19.32	13.21	4.00	1.63	0.97	2.24	1.90	1.16	2.11 B
9	4.56 B	8.16 B	3.37 B	15.82	13.21	4.08	1.58	0.98	2.24	1.95	1.06	3.35 B
10	4.29 B	4.57 B	3.20 B	14.13	13.16	4.11	1.65	0.99	2.24	2.05	1.03	3.45 B
11	4.64 B	4.34 B	3.05 B	13.85	13.14	4.26	1.70	0.95	2.24	1.90	1.06	2.77 B
12	5.31 B	4.11 B	2.92 B	14.01	13.00	4.46	1.76	0.87	2.24	1.90	1.06	2.99 B
13	4.57 B	4.13 B	2.83 B	14.05	12.84	4.64	1.82	0.86	2.24	1.90	1.03	3.17 B
14	4.64 B	4.10 B	2.73 B	14.13	12.61	4.97	1.87	0.86	2.39	1.90	1.03	3.44 B
15	6.08 B	4.07 B	2.60 B	14.10	12.39	4.98	2.05	1.89	2.40	1.87	1.03	3.91 B
16	7.65 B	4.12 B	2.48 B	14.01	12.24	4.94	2.30	2.80	2.40	1.74	0.94	3.96 B
17	8.67 B	4.48 B	2.23 B	13.84	11.96	4.68	3.21	2.87	2.30	1.76	0.92	3.79 B
18	8.86 B	4.46 B	2.12 B	13.77	11.60	4.38	3.26	2.89	2.24	1.77	0.90	3.92 B
19	5.20 B	4.89 B	2.09 B	13.68	11.36	4.13	3.34	2.84	2.30	1.73	0.90	1.60 B
20	4.77 B	4.23 B	1.88 B	13.57	10.83	3.89	3.33	2.75	2.29	1.73	0.90	4.53 B
21	4.48 B	4.21 B	1.71 B	13.37	10.14	3.66	3.29	2.83	2.24	1.73	0.79	4.60 B
22	4.40 B	4.18 B	1.58 B	13.14	9.53	3.47	3.66	2.82	2.19	1.73	0.86	4.77 B
23	4.34 B	4.14 B	1.52 B	13.17	8.53	3.42	3.43	2.66	2.23	1.73	0.78	7.95 B
24	4.29 B	4.11 B	1.58 B	13.18	7.77	3.44	3.11	2.64	2.23	1.68	0.81	7.26 B
25	4.23 B	4.47 B	1.67 B	12.90	7.27	3.49	2.91	2.40	2.19	1.57	0.78	6.30 B
26	4.25 B	4.74 B	1.63 B	12.18	6.58	3.48	2.78	2.41	2.07	1.58	0.89	5.52 B
27	4.42 B	4.57 B	1.76 B	11.30	5.95	3.40	2.57	2.47	2.07	1.58	0.78	4.40 B
28	4.99 B	4.24 B	1.80 B	10.28	5.46	3.42	3.01	2.41	1.97	1.58	0.78	4.43 B
29	4.14 B		1.74 B	9.50	5.01	3.26	2.81	2.41	1.91	1.58	0.80	4.63 B
30	4.11 B		1.78 B	9.10	4.52	3.00	2.64	2.40	1.91	1.53	1.27	4.71 B
31	4.87 B		1.78 B		4.24		2.47	2.55		1.44		4.76 B
Monthly High Flow	8.86	16.89	3.99	20.97	16.10	4.98	3.66	2.89	2.41	2.05	1.46	7.95
Monthly Low Flow	3.36	4.07	1.52	5.50	4.24	3.00	1.58	0.86	1.91	1.44	0.78	1.29

Notes: B – Ice conditions, ⁽¹⁾ Daily total flow data not available at monitoring station

The peak flows reported during a period of ice cover are reported with less confidence than those observed during open water conditions.

3.2 Omya Water Taking Data

Daily surface water takings from the Tay River recorded at the Omya water intake facility are presented in Table 2 and Figure 3 for the period of January 1, 2023, to December 31, 2023.

Table 2: Daily Surface Water Takings (m³) for 2023

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1	307.5	160.8	148.2	378.3	154.0	272.7	265.1	189.2	340.6	187.5	0.0	0.0
2	266.1	296.8	245.8	359.5	207.4	0.0	130.1	182.8	280.7	387.8	0.0	0.0
3	228.3	272.7	204.7	342.8	284.3	120.0	172.5	188.1	137.1	759.0	612.1	0.0
4	313.8	(1)	0.0	87.2	481.8	126.0	207.8	533.1	281.4	337.4	227.6	0.0
5	323.4	223.8	94.2	309.4	209.2	114.9	40.6	16.2	0.0	357.1	353.7	0.0
6	334.5	48.2	153.7	215.7	222.4	142.7	153.2	0.0	0.0	163.7	158.3	0.0
7	405.3	269.1	264.6	26.3	110.2	143.3	112.4	0.0	136.9	390.2	223.0	0.0
8	350.1	115.5	217.8	104.1	0.0	177.5	58.9	0.0	0.0	186.4	373.2	0.0
9	167.5	441.8	40.7	132.0	115.6	269.6	150.6	0.0	102.1	206.2	462.9	0.0
10	308.6	253.5	309.8	171.2	217.5	187.9	155.4	0.0	0.0	116.3	421.1	0.0
11	11.8	129.4	333.2	399.1	245.6	0.0	170.4	0.0	110.9	212.2	219.3	0.0
12	114.7	175.2	308.4	377.8	260.3	121.8	597.7	0.0	301.6	329.4	246.9	127.4
13	272.3	372.0	163.0	162.1	267.3	188.8	191.2	0.0	376.2	322.3	373.6	108.8
14	70.0	302.3	213.7	140.8	176.7	156.9	363.8	0.0	318.5	183.2	383.3	304.0
15	162.1	348.2	350.9	183.7	214.6	117.7	226.9	0.0	150.0	252.2	278.0	203.0
16	106.0	413.3	265.5	151.9	180.7	152.6	342.2	222.9	427.4	106.9	26.8	323.9
17	313.1	249.4	207.4	255.3	254.6	164.7	0.0	0.0	268.3	189.4	0.0	408.4
18	389.3	511.2	384.0	119.8	251.3	126.9	231.9	294.1	278.3	378.8	0.0	97.2
19	354.6	223.7	124.1	348.2	341.0	139.3	222.9	102.4	369.5	180.2	0.0	93.6
20	309.9	370.9	210.5	309.4	133.1	153.7	236.8	82.6	0.1	120.4	0.0	334.6
21	159.0	97.0	0.0	231.6	309.9	90.8	268.1	80.8	481.1	120.3	0.0	479.1
22	0.0	0.0	119.1	70.6	157.6	142.7	165.3	221.7	322.3	99.5	0.0	338.2
23	0.0	342.2	367.0	206.8	182.8	269.0	219.0	355.8	348.7	119.5	0.0	401.2
24	350.7	72.1	188.8	217.0	210.5	231.5	228.2	302.2	265.8	76.8	0.0	283.9
25	427.6	108.7	329.1	115.3	117.7	287.5	242.1	336.1	55.1	250.9	0.0	95.1
26	286.4	295.8	468.7	217.7	266.8	142.1	213.2	216.4	260.4	273.8	0.0	0.0
27	0.0	163.6	460.1	380.8	384.3	331.4	256.5	175.5	232.8	136.5	0.0	138.1
28	165.1	252.9	228.1	139.1	350.0	360.6	68.4	86.2	222.7	111.0	0.0	0.0
29	436.6		388.2	219.9	3.3	147.4	185.4	113.2	221.2	130.5	0.0	208.5
30	198.5		241.2	263.9	187.5	197.1	191.9	98.3	231.9	214.2	0.0	324.1
31	113.1		265.2		111.5		71.3	280.1		209.2		184.8

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Monthly Max Water Taking	436.6	511.2	468.7	399.1	481.8	360.6	597.7	533.1	481.1	759.0	612.1	479.1
Monthly Min Water Taking	0.0	0.0	0.0	26.3	0.0	0.0	0.0	0.0	0.0	76.8	0.0	0.0

Notes: ⁽¹⁾ Daily surface water taking was not taken.

Total daily groundwater takings from the on-site wells are summarized in Table 3 and Figure 4 for the period of January 1, 2023, to December 31, 2023. Daily maximum and average water takings from each individual well are presented on Figures 5 to 10.

Table 3: Total Daily Groundwater Takings (m³) for 2023

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1	5	5	5	5	5	5	6	3	5	5	5	360
2	5	5	5	5	5	5	5	5	5	5	6	211
3	5	5	5	5	5	6	5	5	5	5	6	274
4	5	5	5	5	5	6	5	6	5	5	5	265
5	5	5	5	5	5	6	5	6	5	6	6	70
6	5	5	5	5	5	5	5	114	6	6	6	384
7	5	5	5	0	6	5	6	577	6	6	6	394
8	5	5	5	0	5	5	6	252	6	6	5	356
9	5	5	5	0	5	5	6	135	6	6	5	114
10	5	5	5	6	5	62	12	181	6	6	5	222
11	5	5	5	6	5	5	6	244	6	6	5	308
12	5	5	5	5	5	5	6	102	6	6	6	162
13	5	5	5	5	5	5	6	242	6	6	6	4
14	5	5	5	5	5	6	5	195	6	6	6	3
15	5	5	5	5	5	5	5	5	6	6	6	4
16	5	5	5	5	5	5	5	5	6	6	6	4
17	5	5	5	5	6	5	5	5	6	6	6	4
18	5	5	5	5	5	5	5	5	6	6	337	4
19	5	5	5	5	5	5	5	5	5	6	335	4
20	5	5	5	5	5	5	5	5	5	6	37	4
21	5	5	5	5	5	5	6	5	6	6	185	4
22	5	5	5	55	6	5	6	5	6	5	249	4
23	5	5	5	0	6	6	5	5	5	5	13	5

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
24	5	5	5	0	6	6	5	6	6	5	218	5
25	5	5	5	0	6	6	5	6	6	5	325	5
26	5	5	5	5	6	6	6	5	5	5	225	5
27	5	5	5	5	6	6	6	5	5	6	0	5
28	5	5	5	5	6	6	6	6	5	6	207	5
29	5		5	5	6	6	5	5	5	6	230	5
30	5		5	5	6	6	5	5	5	6	204	5
31	5		5		6		5	5		5		5
Monthly Max Water Taking	5.21	5.25	5.19	55.07	6.27	62.27	11.54	576.54	6.26	6.25	337.31	394.43
Monthly Min Water Taking	5.13	4.97	5.14	0.00	5.13	4.79	5.10	3.19	5.12	5.11	0.03	3.49

3.3 Groundwater Levels

In reference to Condition 4.1.3 of the PTTW, water was taken from the combined Site wells at a rate greater than 50,000 Litres per day, for more than seven consecutive days. Review comments from the Ministry of Environment and Climate Change groundwater reviewer on the 2016 annual report (received March 30, 2017) clarified that Condition 4.1.3 required measuring water levels at a spare production well as well as measuring water levels at monitoring wells on a monthly basis (once this condition was triggered). Water levels were measured at production well PW1 on a monthly basis from January to July, as can be seen in Table 4 with the exception of May and June. Water levels remained constant at PW1 throughout that time. August through December measurements were taken at a spare production well and the water levels where the water levels are closer to the surface but measurements remain constant this period.

Table 4: Groundwater Well Manual Water Level Measurements

Measurement Date	Well Location	Water Level Below Top of Pipe (m)
27-Jan-23	PW1	3.41
17-Feb-23	PW1	3.31
24-Mar-23	PW1	3.31
19-Apr-23	PW1	2.97
21-Jul-23	PW1	3.60
25-Aug-23	Spare Production Well	0.88

Measurement Date	Well Location	Water Level Below Top of Pipe (m)
22-Sep-23	Spare Production Well	0.90
31-Oct-23	Spare Production Well	0.91
29-Nov-23	Spare Production Well	0.91
19-Dec-23	Spare Production Well	0.93

As per Condition 4.1.3, in lieu of monthly monitoring at the other monitoring wells, the groundwater levels from May 26, 2023 to December 31, 2023 were recorded hourly at the Provincial Groundwater Monitoring Network (PGMN) well W083 (located South of the Omya plant off Christie Lake Road), and are presented on Figure 11.

4.0 DATA ANALYSIS

4.1 Water Takings

Total surface water takings did not exceed the permitted value of 1,483 m³/day in 2023 (for the surface water record stated in Section 3.2). The recorded maximum instantaneous surface water taking rates did not exceed the permitted amount of 1,030 L/min during the 2023 period except for on April 28 with a rate of 1122 L/min and October 20 with a rate of 1068 L/min. These brief exceedances were a result of fire hydrant testing at the site and were not connected to plant production.

The total combined daily groundwater takings were below the limit of 875,534 Litres per day (875.5 m³/day) permitted under Condition 3.5 of the PTTW during 2023 (Figure 4). The maximum instantaneous water taking rates for individual wells were not exceeded during 2023, except for a short duration spike in June for PW5 (greater than 100 L/min, Figure 9). This instantaneous exceedance was very short lived and daily taking volumes for these dates were well below the daily limit.

As per Condition 4.1.3 of the PTTW for the site, water was taken at a rate greater than 50,000 Litres per day, for more than seven consecutive days starting on November 18th, 2023 and ending on December 12th, 2023 (25 days). Water was also taken above 50,000 Litres per day from August 6th, 2023 to August 14th, 2023 (9 days). Comments from the Ministry of Environment and Climate Change groundwater reviewer on the 2016 annual report (received March 30, 2017) clarified that Condition 4.1.3 required measuring water levels at a spare production well as well as measuring water levels at monitoring wells on a monthly basis (once the condition was triggered). Water levels were measured at production well PW1 monthly since January 2018, and 2023 data can be seen in Table 4, above.

As per Condition 4.1.4 of the PTTW, process wells PW1 through PW6 were not used, beyond maintenance flows (i.e., pumps regularly circulate small volumes of water to confirm proper operation), for more than 30 consecutive days or a total of 60 days between January 1, 2023, and December 31, 2023. As such, a summary review of water taking from these wells is not required for the 2023 report as per this condition of the PTTW.

Groundwater elevations at the PGMN well W083 did show a response to the water taken from PW1 (about 1 m response). The groundwater elevations at the PGMN well W083 quickly recovered once the groundwater well taking ended Dec 12, 2023.

4.2 Surface Water Taking Cut Off Conditions

Condition 4.2.11 of the PTTW states that the surface water takings are not to occur when the Tay River flow (discharge) at the hydrometric station is measured to be equal to or less than 1 m³/s. Omya maintained a hydrometric station throughout the monitoring period to monitor streamflow within the Tay River. The Tay River discharge was estimated to be less than 1 m³/s in mid November 2023 for approximately two weeks. Omya water takings were switched from the Tay River to production wells during this period.

5.0 SUMMARY

For the 2023 monitoring period, the following summary statements can be made:

- 1) The daily surface water taking from the Tay River did not exceed the permitted amount of 1,483 m³/day in 2023. Additionally, the maximum instantaneous water taking did not exceed the 1,030 L/min limit in 2023, except for briefly on April 28th and October 20th as a result of fire hydrant testing.
- 2) The maximum total daily groundwater taking volume did not exceed the permitted amount of 875.5 m³/day in 2023. The maximum instantaneous (per minute) water taking rates were not exceeded in 2023, except for a brief spike at PW5 in June during pump start up.
- 3) Groundwater was taken at a rate greater than 50,000 Litres per day, for more than seven consecutive days starting on August 6th, 2023 for 9 days and on November 18th, 2023 for 25 days. Manual water level measurements were collected from PW1 and a spare production well and are shown in Table 4. The groundwater levels at the well W083 did respond to groundwater taking on site but quickly recovered following that taking.
- 4) During 2023, Omya did not receive any water well interference complaints.

6.0 CLOSURE

We trust that this report is sufficient for your current requirements. Should you have questions regarding the content please contact the undersigned.

Signature Page

WSP Canada Inc.



Craig De Vito, PEng *Water Resources Engineer*

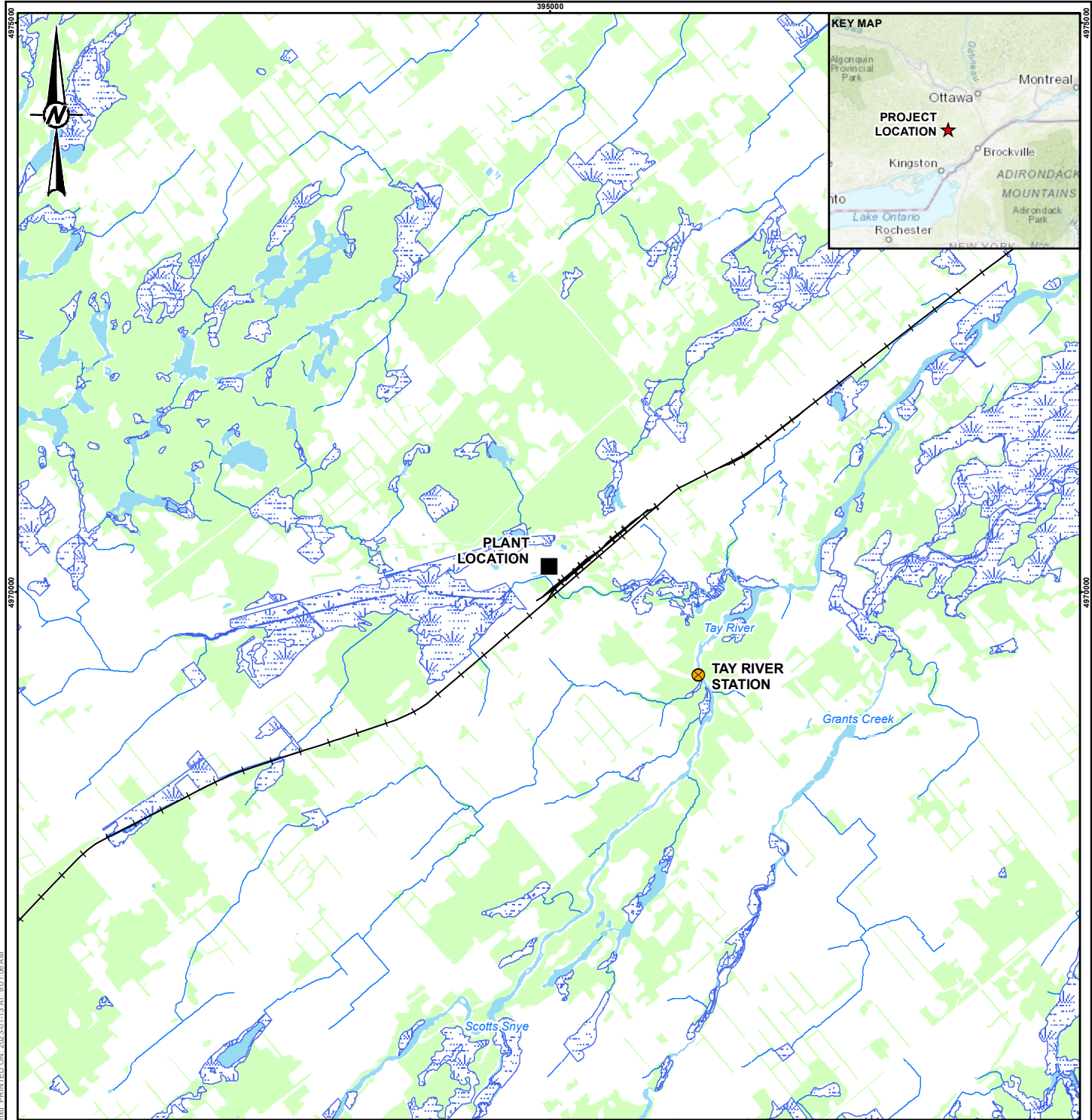


Kevin MacKenzie, MSc, PEng
Principal, Senior Water Resources Engineer

MR/CDV/KMM/rk

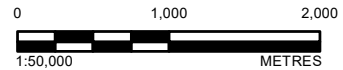
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FIGURES



LEGEND

- TAY RIVER STATION
- PLANT LOCATION
- ROAD
- RAILWAY
- RIVER/STREAM
- WATERBODY
- WETLAND
- WOODED AREA



REFERENCE(S)

1. BASEDATA MNRF LIO 2017
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18N

CLIENT
OMYA CANADA INC.

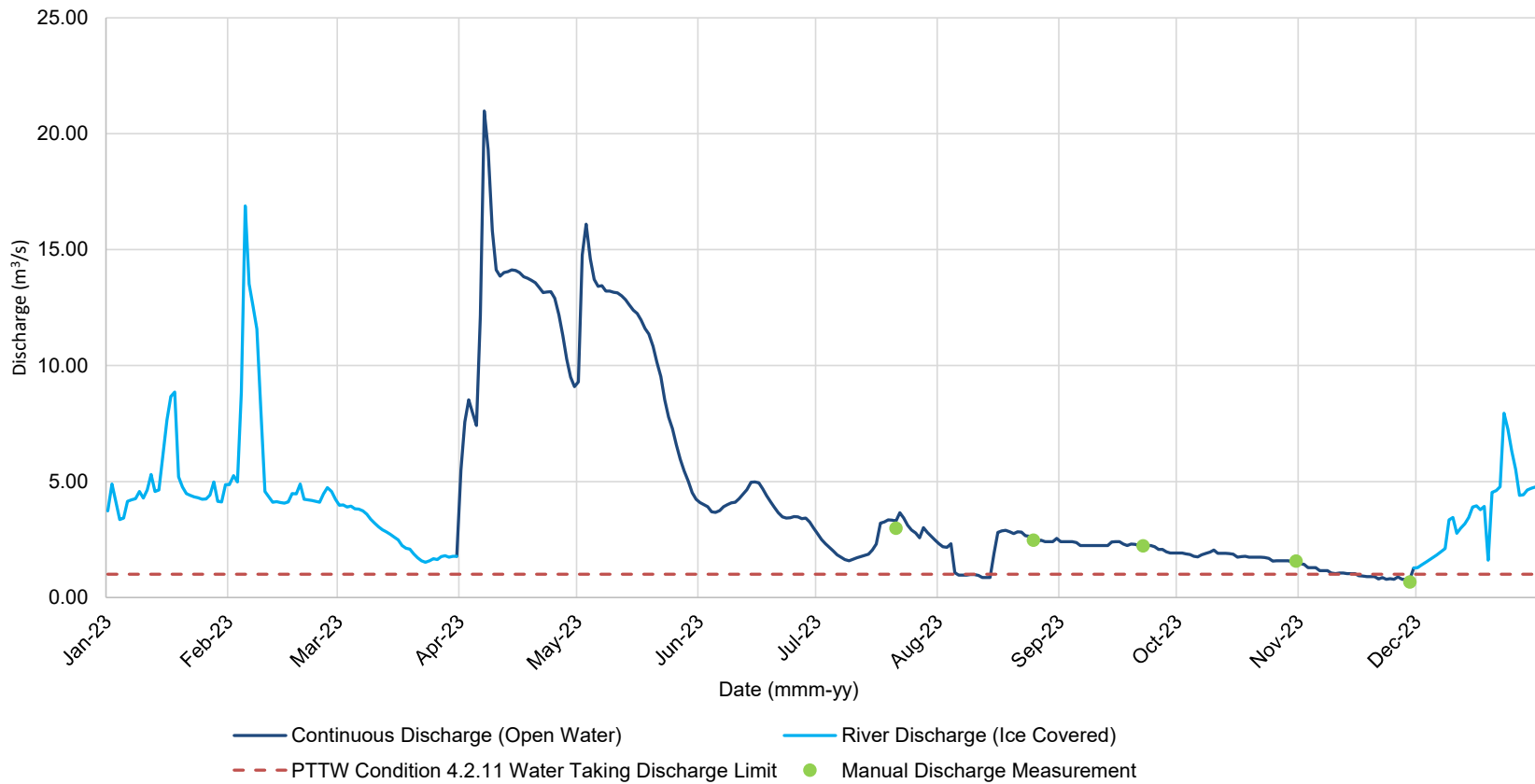
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TAY RIVER PTTW MONITORING PERTH, ON

CONSULTANT	YYYY-MM-DD	2023-01-13
	DESIGNED	SO
	PREPARED	SO/AM
	REVIEWED	CDV
	APPROVED	KMAC

TITLE	SITE LOCATION		
PROJECT NO.	CONTROL	REV.	FIGURE
22511805	0001	0.0	1

Omya Canada Inc.
Permit to Take Water (8030-82RPF4)
Annual Monitoring Report
Tay River Average Daily Discharge 2023

FIGURE 2



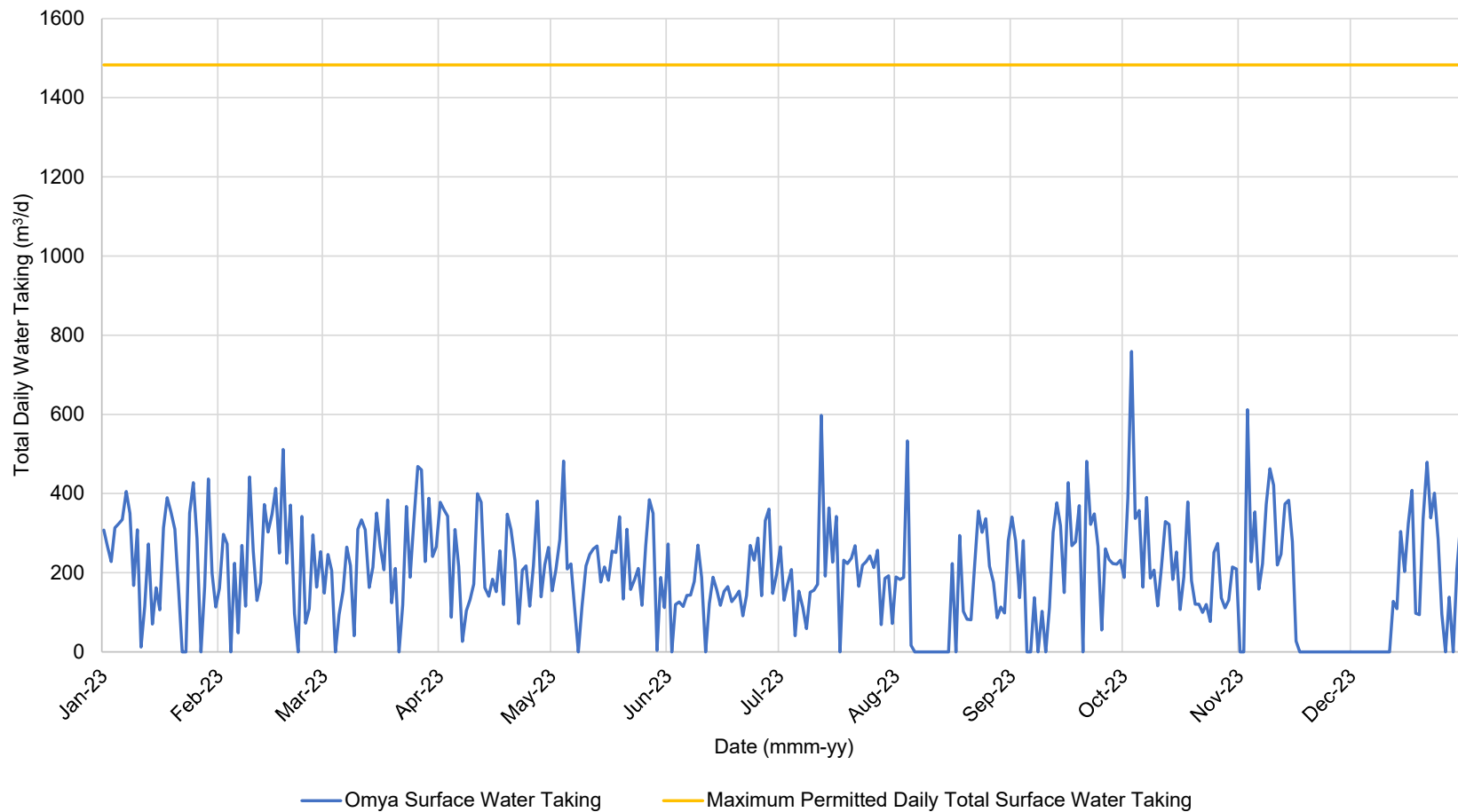
PROJECT: 22511805
 DATE: January 2024



DRAWN: JR
 CHECK: CDV

Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report
Total Daily Surface Water Takings

FIGURE 3



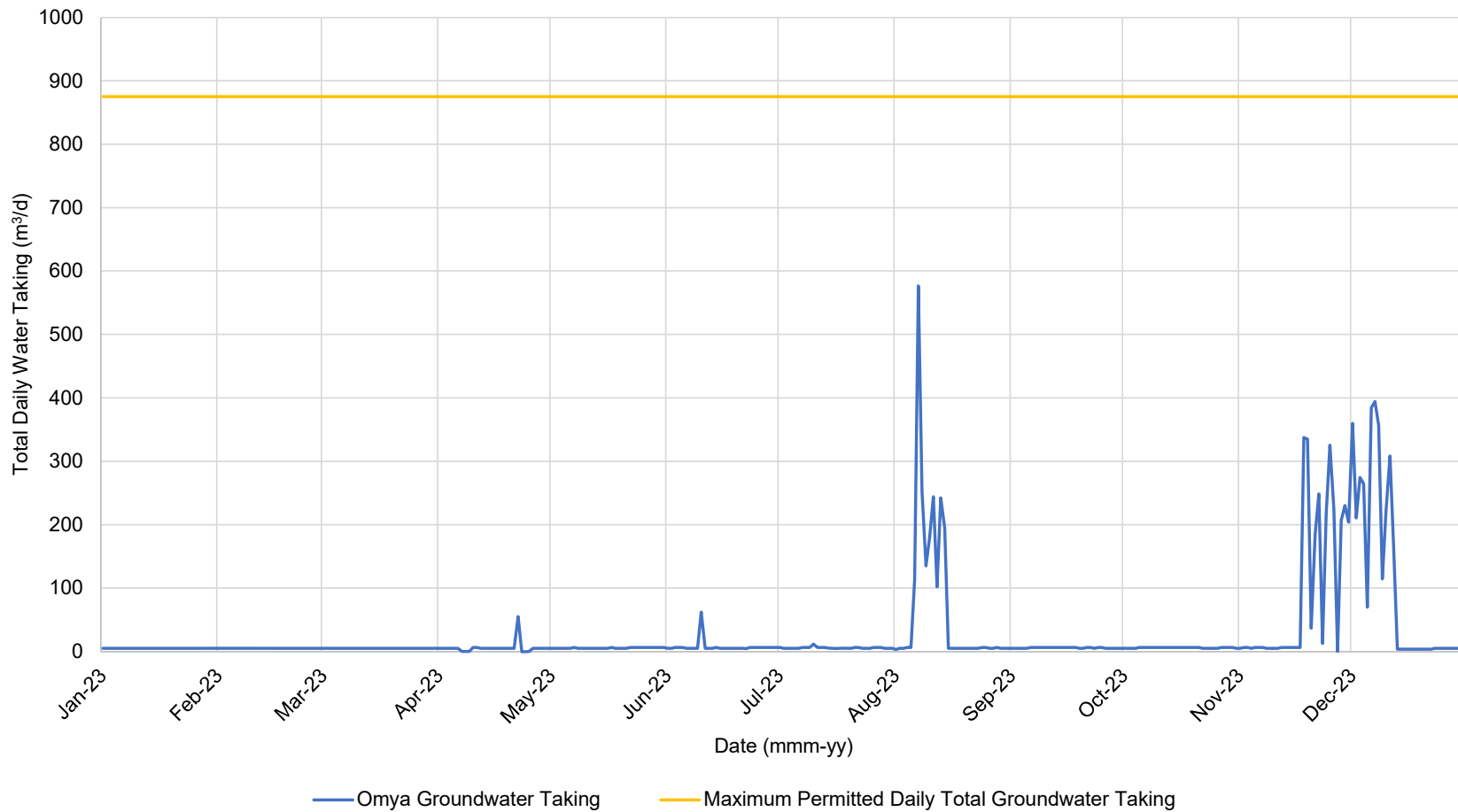
PROJECT: 22511805
DATE: January 2024



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CHECK: CDV

Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report
Total Daily Groundwater Takings

FIGURE 4



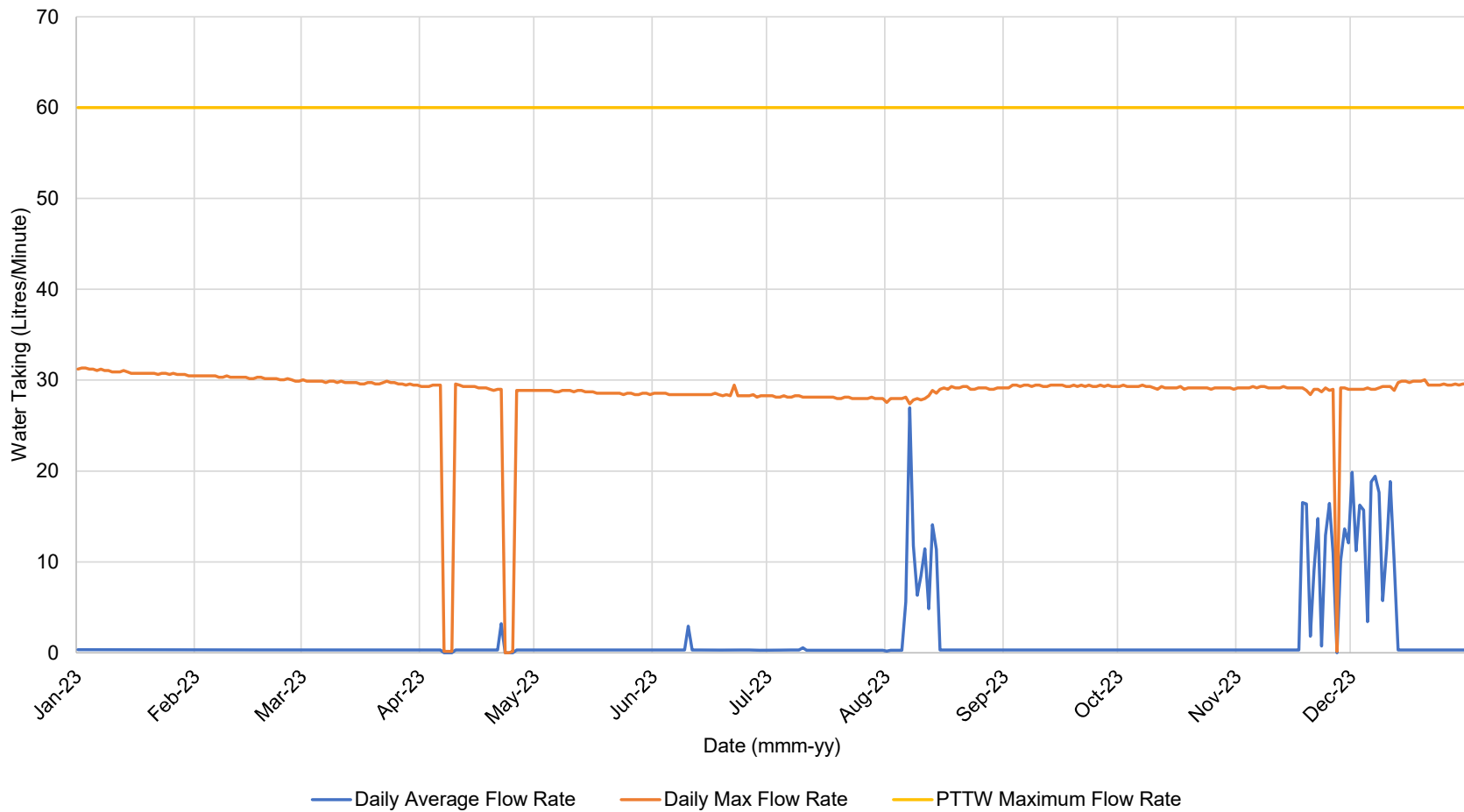
PROJECT: 22511805
DATE: January 2024



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Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report
Maximum and Average Daily Groundwater Takings P6W8_FIT_01

FIGURE 5



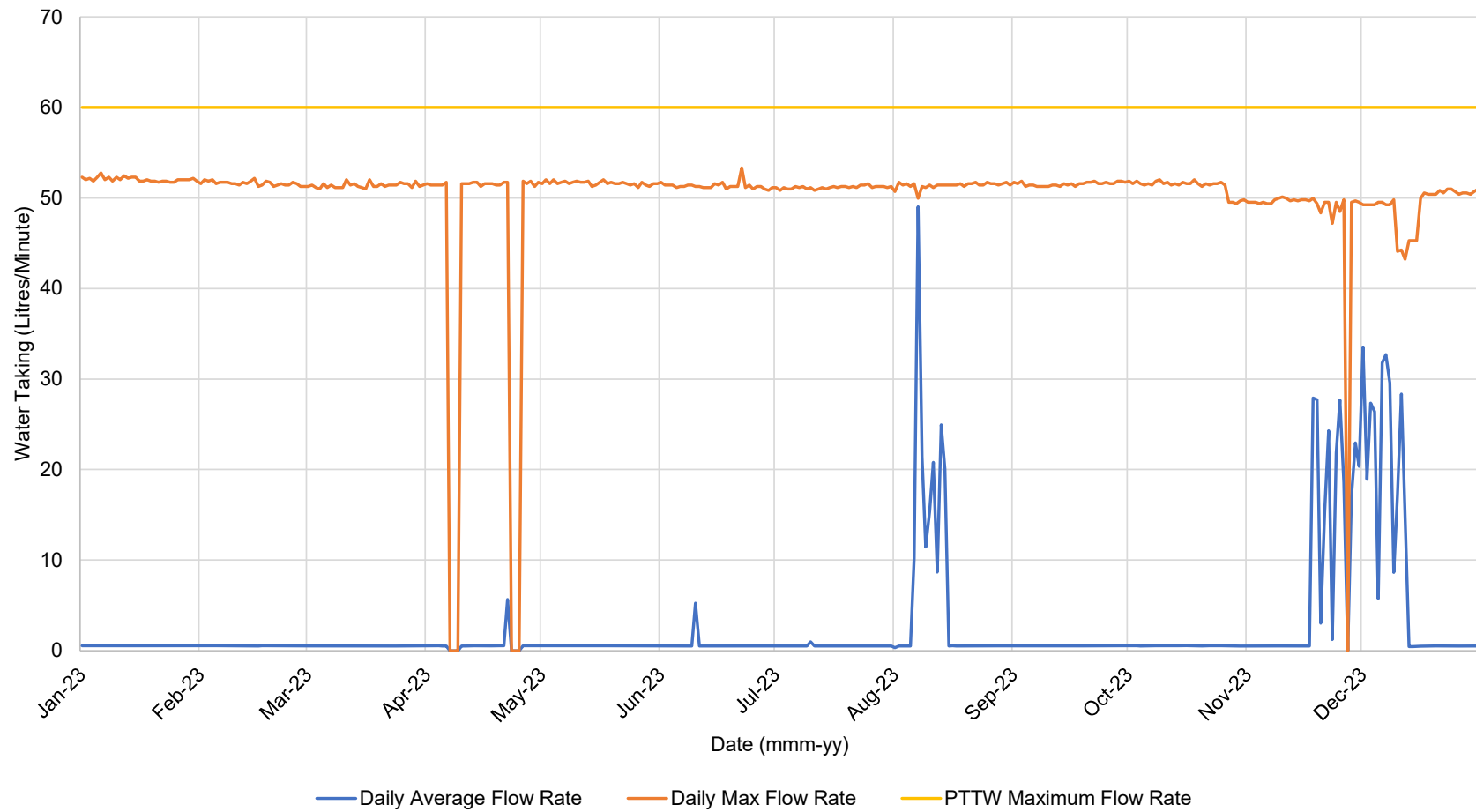
PROJECT: 22511805
DATE: January 2024



DRAWN: JR
CHECK: CDV

Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report
Maximum and Average Daily Groundwater Takings P6W8_FIT_02

FIGURE 6



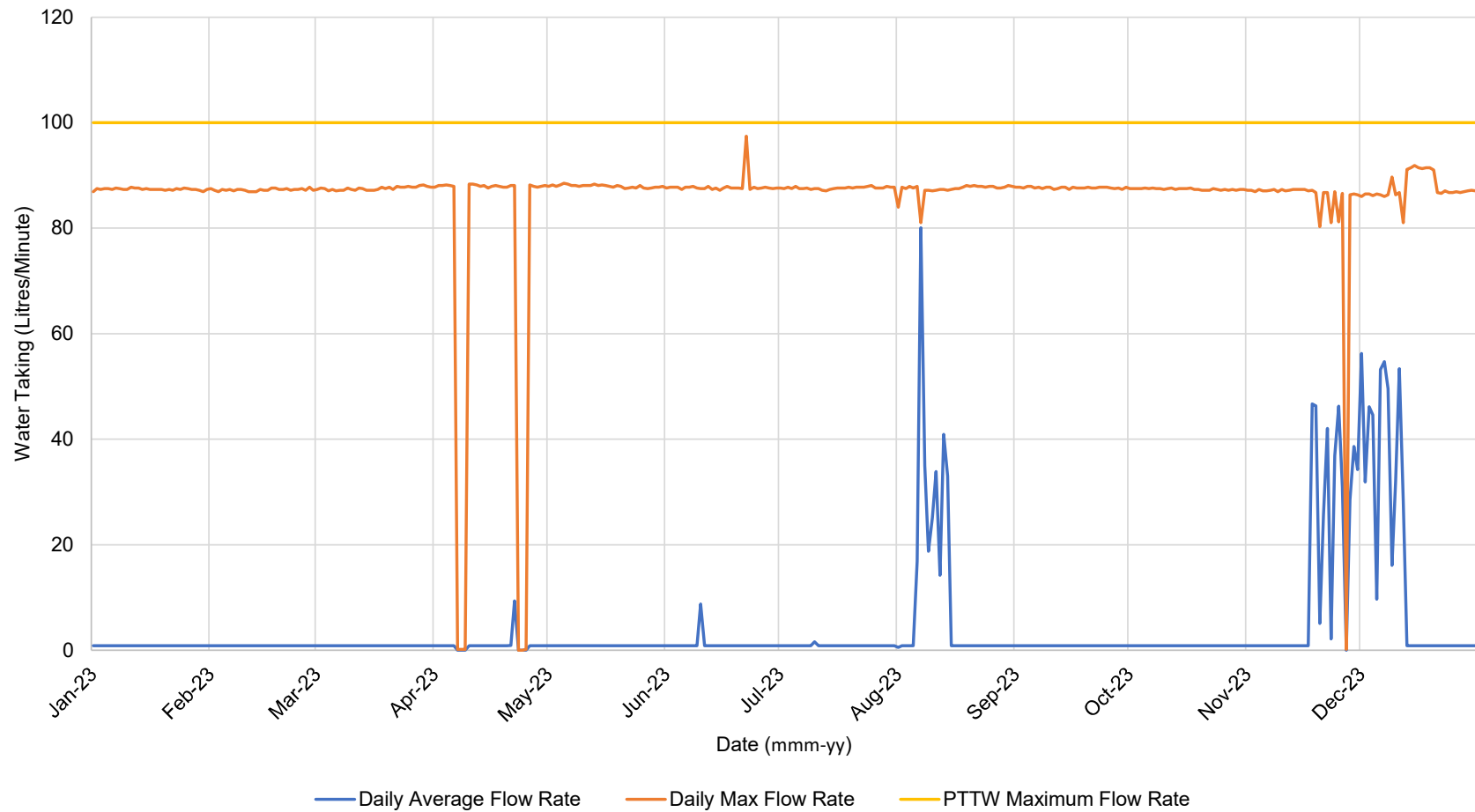
PROJECT: 22511805
DATE: January 2024



DRAWN: JR
CHECK: CDV

Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report
Maximum and Average Daily Groundwater Takings P6W8_FIT_03

FIGURE 7



PROJECT: 22511805
DATE: January 2024

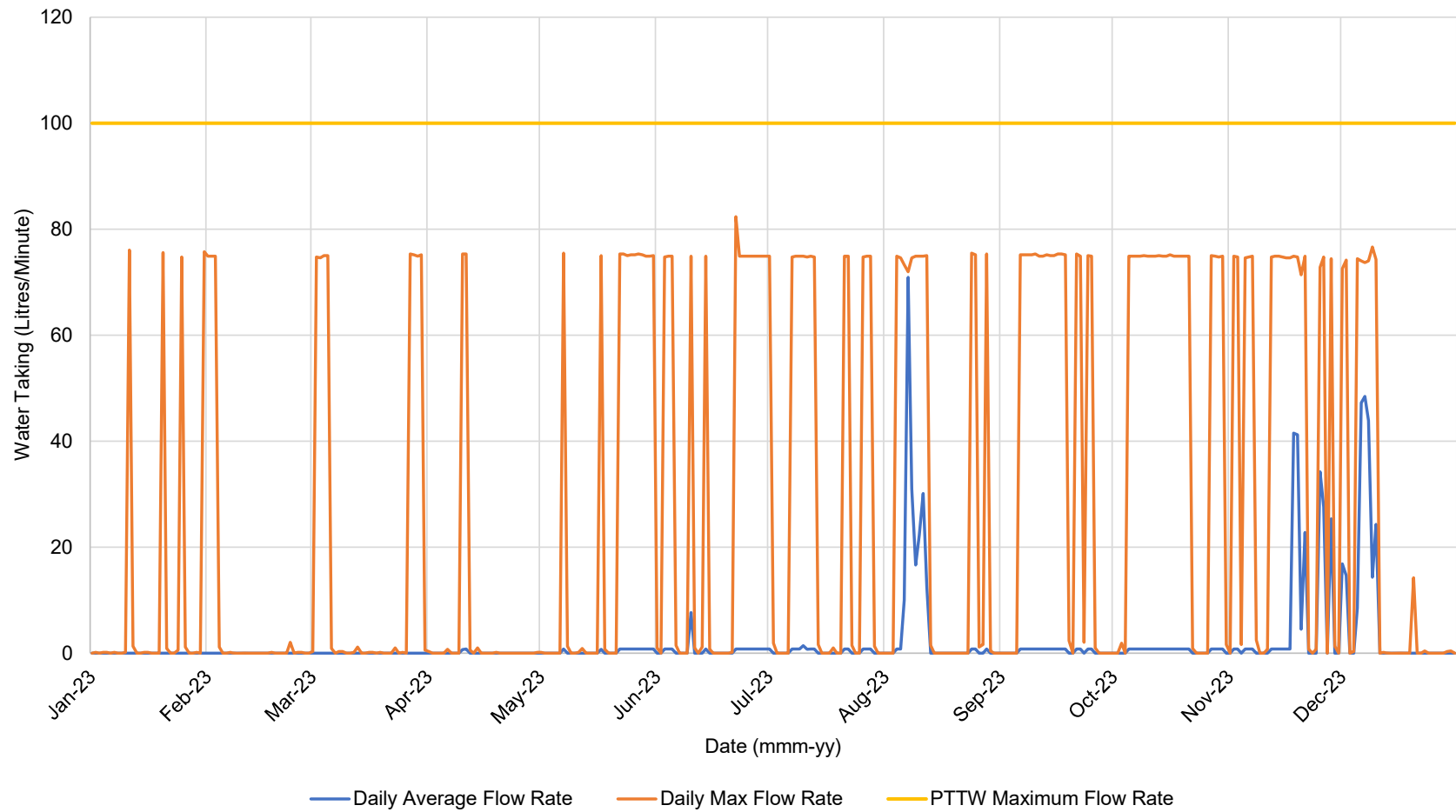


DRAWN: JR
CHECK: CDV

Omya Canada Inc.
Permit to Take Water (8030RPF4)
Annual Monitoring Report

Maximum and Average Daily Groundwater Takings P6W8_FIT_04

FIGURE 8



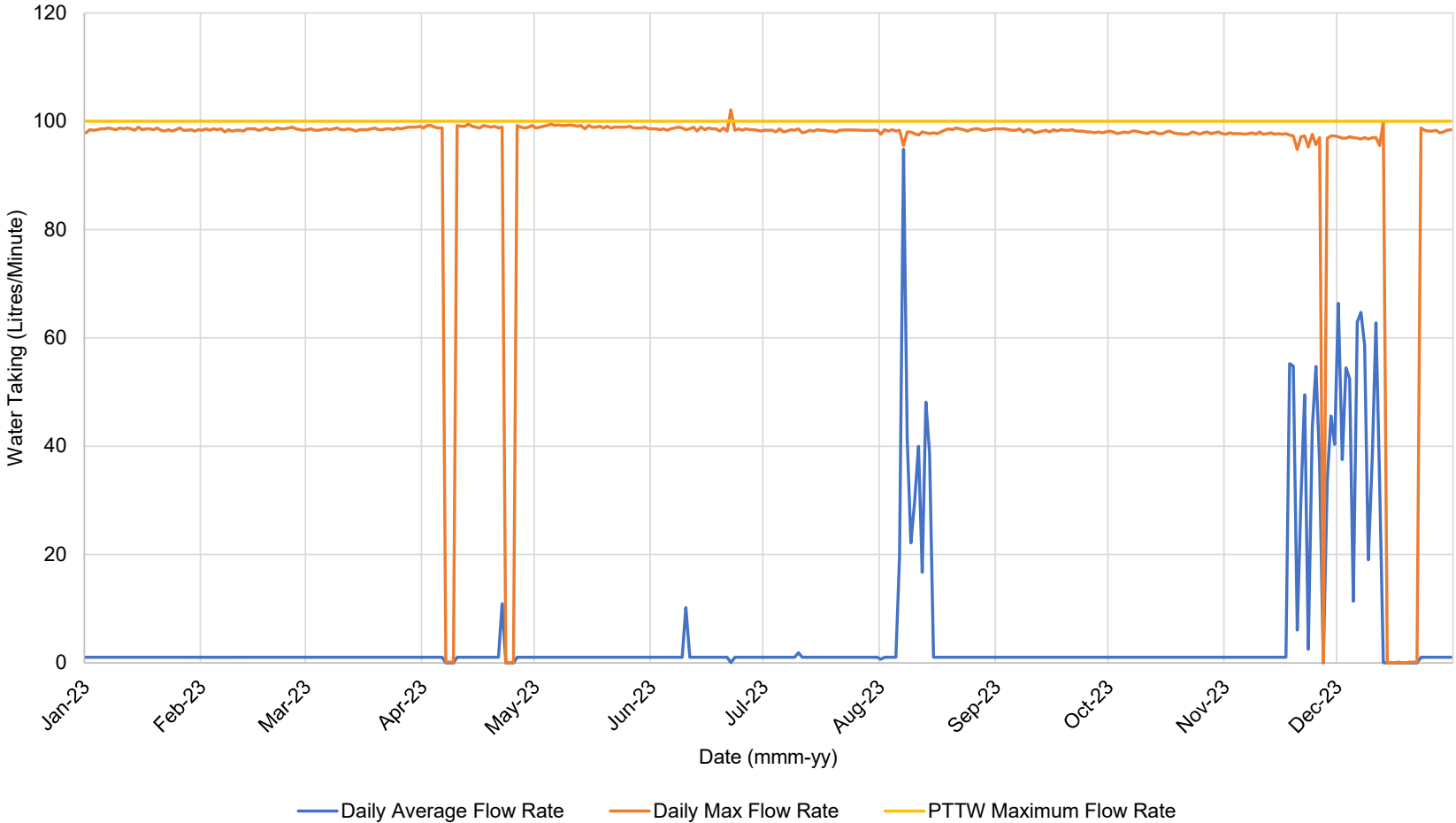
PROJECT: 22511805
DATE: January 2024



DRAWN: JR
CHECK: CDV

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Permit to Take Water (8030RPF4)
Annual Monitoring Report
Maximum and Average Daily Groundwater Takings P6W8_FIT_05

FIGURE 9



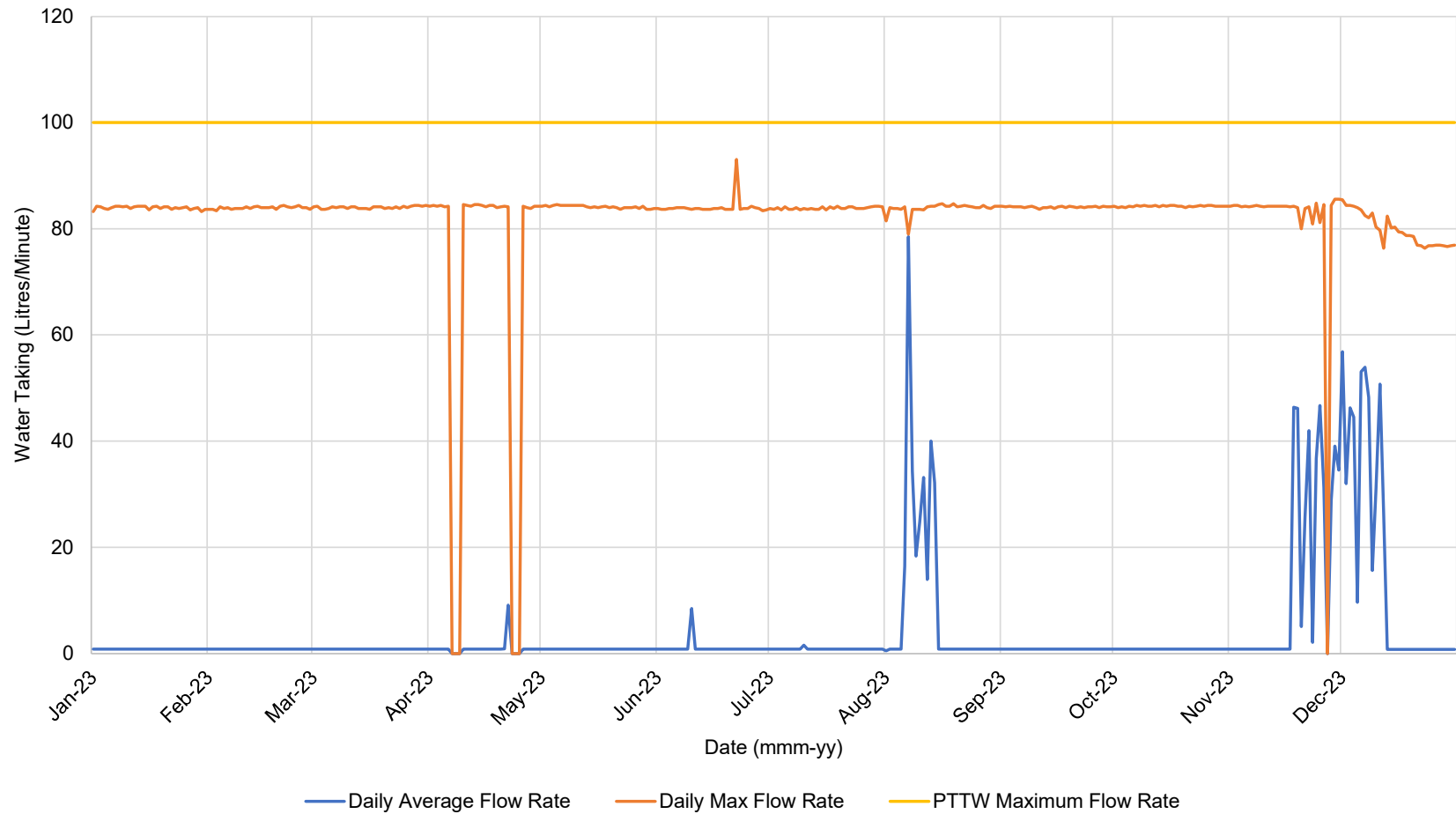
PROJECT: 22511805
DATE: January 2024



DRAWN: JR
CHECK: CDV

Omya Canada Inc.
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Annual Monitoring Report
Maximum and Average Daily Groundwater Takings P6W8_FIT_06

FIGURE 10



PROJECT: 22511805
DATE: January 2024

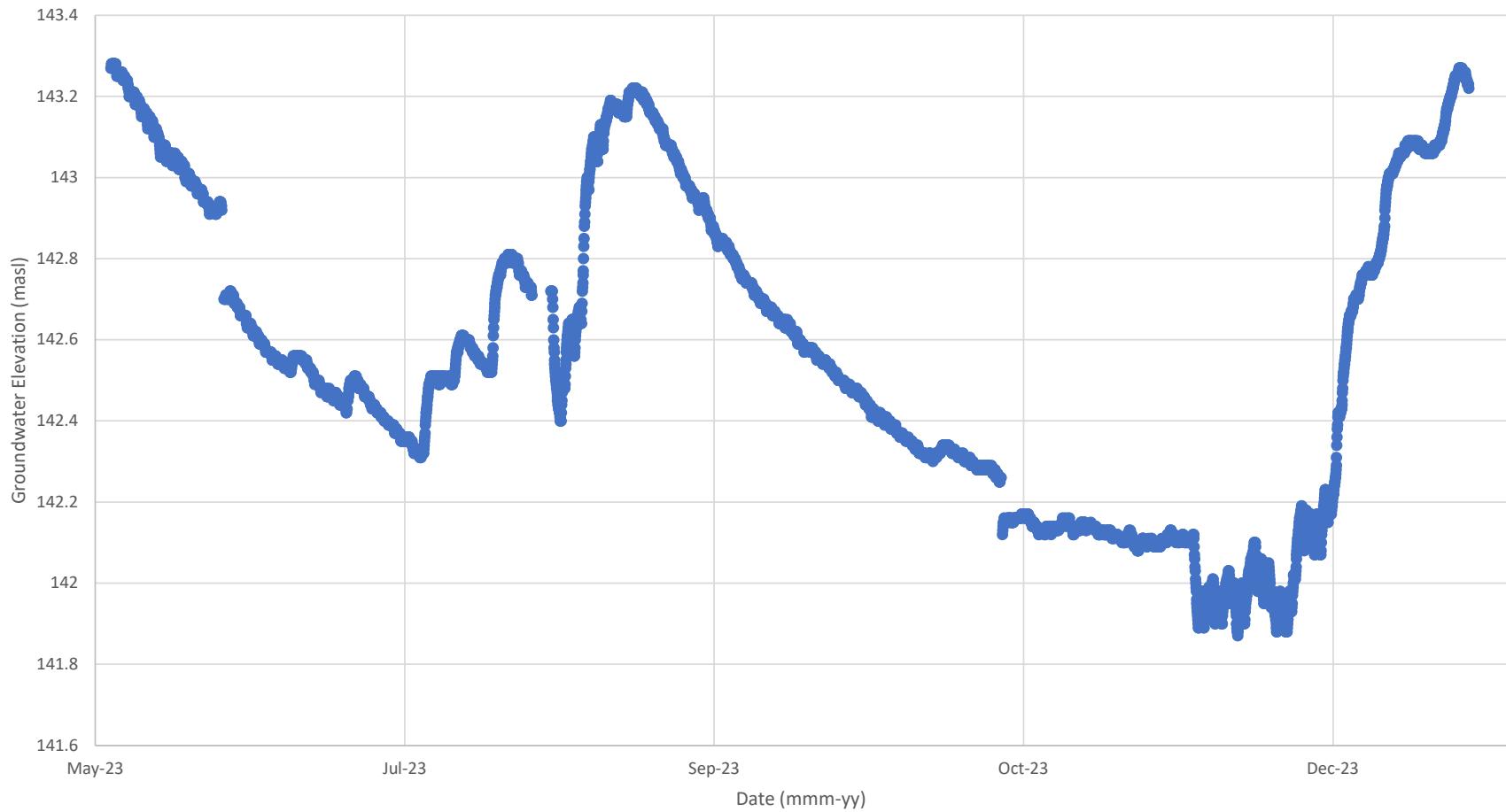


DRAWN: JR
CHECK: CDV

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Permit to Take Water (8030RPF4)
Annual Monitoring Report

FIGURE 11

Hourly Groundwater Elevations at Groundwater Monitoring Well M3 (PGMN Well W083)



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