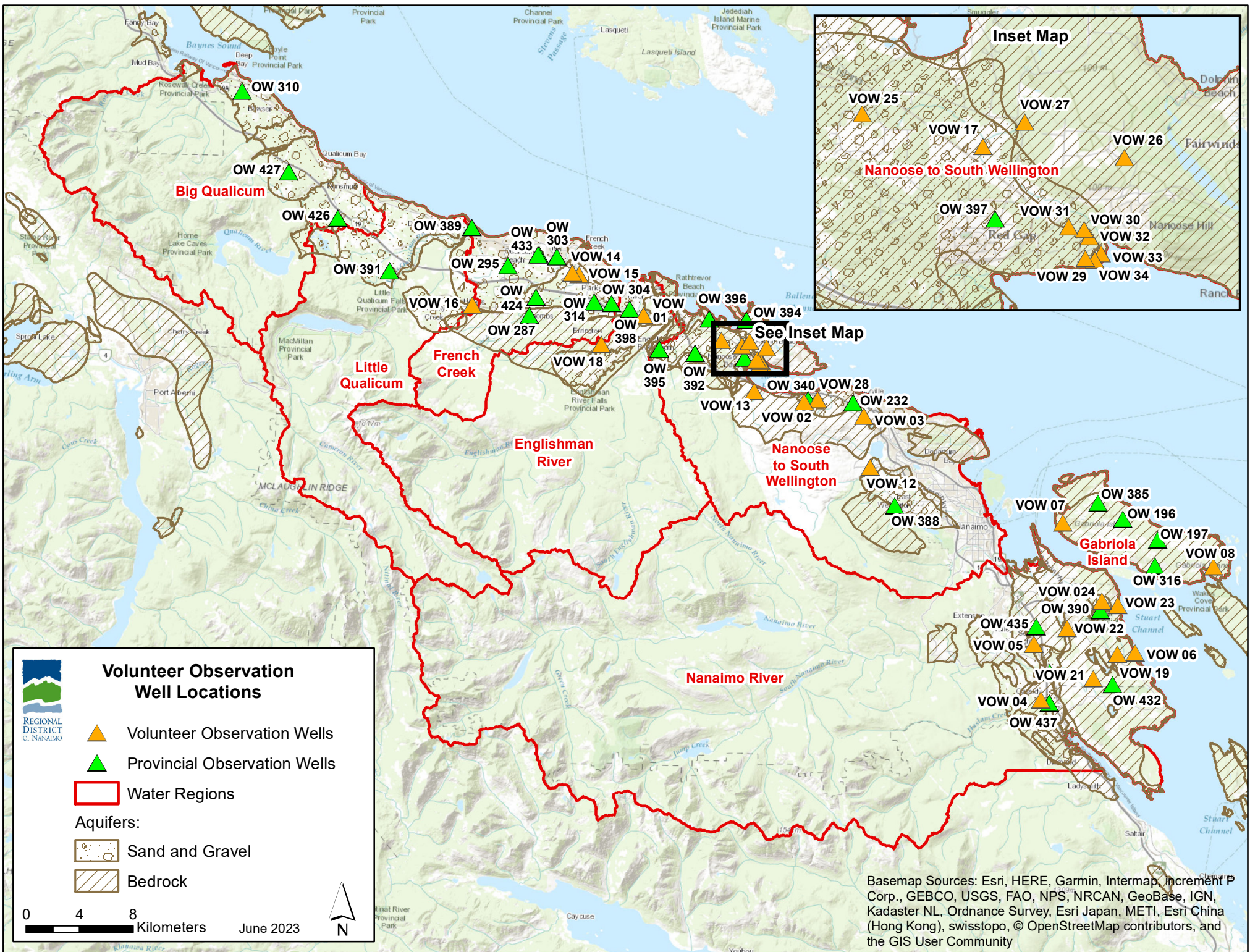
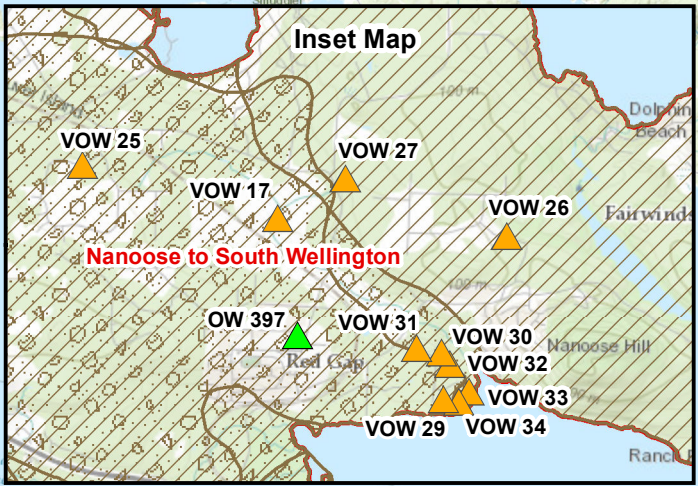
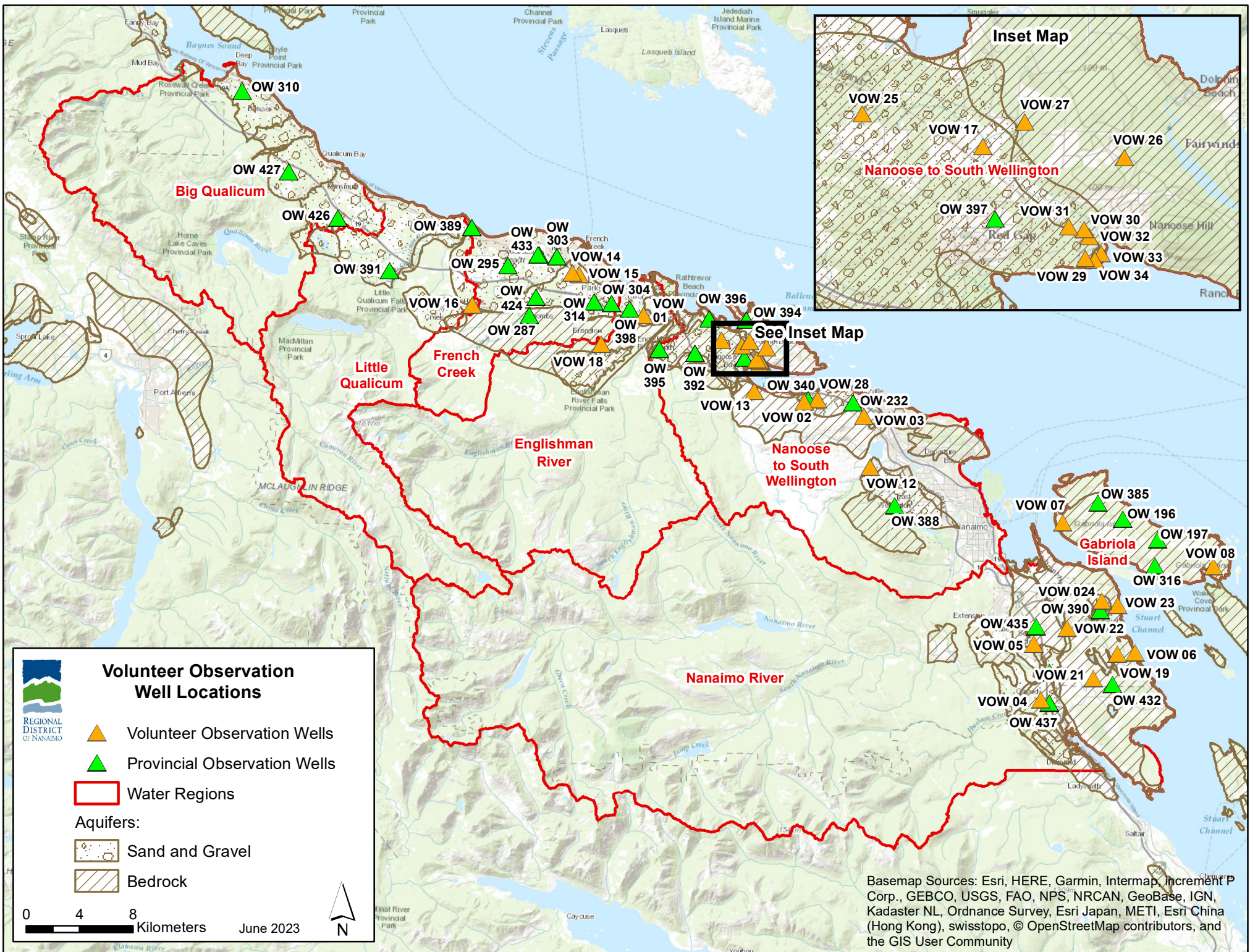


Figure 1 – Volunteer Observation Well Locations





Appendix A – Overview of Groundwater Observation Well Data



Table A1: Groundwater Observation Well Data for the Regional District of Nanaimo Water Regions

Water Regions	Observation Wells		Mapped Aquifer Number and Type	Historical Groundwater Level Trend (2013 - 2023)	Seasonal Groundwater Level Trend 2023	Groundwater Level Charts (Figure #)	Water Service Wells (provided in 2021 report) Correlated to Each Mapped Aquifer	Total Number of Registered Wells Correlated to Each Mapped Aquifer (2023)
	Active Provincial Groundwater Observation Wells used in 2023 Analysis	Active RDN Volunteer Observation Wells (Site Name and Number) used in 2023 Analysis						
Big Qualicum	OW 310	-	416 - Surficial (CON)	Increasing	Below	FIGURES 1-B, 1-C	Deep Bay Improvement District - 7 wells Bowser Waterworks District - 4 wells	60
Little Qualicum	OW 389	-	664-Surficial (UNC)	Stable	Below	FIGURES 5-B, 5-C	Town of Qualicum Beach – 9 Wells Regional District of Nanaimo – 2 Wells Small Water Systems - 1 Well	47
French Creek	-	Lowrys (VOW 15)	212-Bedrock	Increasing	Average	FIGURES 6-B, 6-C	Small Water Systems - 1 Well	32
	OW 295, OW 303, OW 433, OW 434	Rinvold (VOW 16)	217-Surficial (CON)	Stable to Increasing	Below	FIGURES 12-B, 12-C, 13-B, 13-C, 14-B, 14-C, 15-B, 15-C, 16-B, 16-C	Town of Qualicum Beach – 6 Wells Regional District of Nanaimo – 7 Wells EPCOR Utilities – 1 Well Small Water Systems - 12 Wells	142
Englishman River	OW 304, OW 314, OW 398 and OW 424	Hodges (VOW 14) and Fourneau (VOW 01)	216-Surficial (CON)	Increasing	Above	FIGURES 7-B, 7-C, 8-B, 8-C, 9-B, 9-C, 10-B, 10-C, 11-B, 11-C, 18-B, 18-C	City of Parksville – 20 Wells EPCOR Utilities – 5 Wells Small Water Systems - 6 Wells	224
	OW 287	Middlegate (VOW 18)	220-Bedrock	Large Decline to Increasing	Below	FIGURES 17-B, 17-C, 20-B, 20-C	BC Parks - Vancouver Island Region – 1 Well Small Water Systems - 7 Wells	328
Nanoose to South Wellington	-	Biggs (VOW 12)	167-Surficial (CON)	Stable	Above	FIGURES 21-B, 21-C	Small Water Systems - 2 Wells	18
	OW 388	-	211-Bedrock	Large Decline	N/A	FIGURES 22-B, 22-C	Small Water Systems - 2 Wells	215
	-	Northwind (VOW 02) Elm (VOW 03) Sea Blush (VOW 13)	213-Bedrock	Increasing	Average	FIGURES 23-B, 23-C, 24-B, 24-C, 25-B, 25-C	Small Water Systems - 14 Wells	132
	-	B2 (VOW 30), B3 (VOW 31), B4 (VOW 32), B7 (VOW 33) and B9 (VOW 34)	214-Bedrock	Large Decline to Increasing	Above	FIGURES 26-B, 26-C, 27-B, 27-C, 28-B, 28-C, 29-B, 29-C, 30-B, 30-C	Regional District of Nanaimo – 1 Well Small Water Systems - 3 Wells	44
	OW 394	NWB (VOW 27) and Florence (VOW 26)	218-Bedrock	Large Decline to Stable	Average	FIGURES 34-B, 34-C, 35-B, 35-C, 36-B, 36-C	Regional District of Nanaimo – 2 Wells Small Water Systems - 5 Wells	41
	OW 232 and OW 340	Southwind (VOW 28)	215-Surficial (CON)	Stable to Moderate Decline	Below	FIGURES 31-B, 31-C, 32-B, 32-C, 33-B, 33-C	District of Lantzville – 7 Wells Nanoose First Nation – 3 Wells Small Water Systems - 5 Wells	142
	OW 393 and OW 396	Sanders (VOW 25)	219-Surficial (CON)	Stable to Increasing	Below	FIGURES 37-B, 37-C, 38-B, 38-C, 39-B, 39-C	Regional District of Nanaimo – 9 Wells EPCOR Utilities – 1 Well Small Water Systems - 9 Wells	63
	OW 392 and OW 397	O3 (VOW 29) and O7 (VOW 17)	1098-Surficial (CON)	Increasing	Above	FIGURES 40-B, 40-C, 41-B, 41-C, 42-B, 42-C, 43-B, 43-C	Qualicum School District – 2 Wells Regional District of Nanaimo – 14 Wells Small Water Systems - 1 Well	83
Nanaimo River	OW 436	Hallberg (VOW 04)	160-Surficial (CON)	Stable to Moderate Decline	Average	FIGURES 44-B, 44-C, 45-B, 45-C	Small Water Systems - 1 Well	38
	OW 437	-	161 - Surficial (UNC)	Moderate Decline	Average	FIGURES 47-B, 47-C	Small Water Systems - 2 Wells	207
	-	Brightman (VOW 24)	163-Surficial (CON)	Stable	Average	FIGURES 55-B, 55-C	None	17
	-	Pylades (VOW 06), DeCourcy (VOW 19), Rosalie (VOW 21) and Gould (VOW 22)	162-Bedrock	Moderate Decline to Increasing	Above	FIGURES 50-B, 50-C, 51-B, 51-C, 52-B, 52-C, 53-B, 53-C	Regional District of Nanaimo – 1 Wells Chemainus First Nation – 6 Wells Shell Beach Water Utility – 4 Wells Small Water Systems - 21 Wells	1237
	OW 435	Grandom (VOW 05)	165-Bedrock	Stable to Increasing	Above	FIGURES 56-B, 56-C, 57-B, 57-C	Small Water Systems - 5 Wells	327
Gabriola	OW 196 and OW 316	Mander (VOW 08) and Descansco (VOW 07)	709-Bedrock	Stable	Below	FIGURES 58-B, 58-C, 60-B, 60-C, 62-B, 62-C, 63-B, 63-C	Small Water Systems - 9 Wells	1042

Notes: - indicates no data available; CON indicates surficial aquifer is confined; UNC indicates surficial aquifer is unconfined; the total number of registered wells, including private domestic wells, correlated to an aquifer were obtained from the Provincial GWELLS aquifer database (BC MoE, 2023).

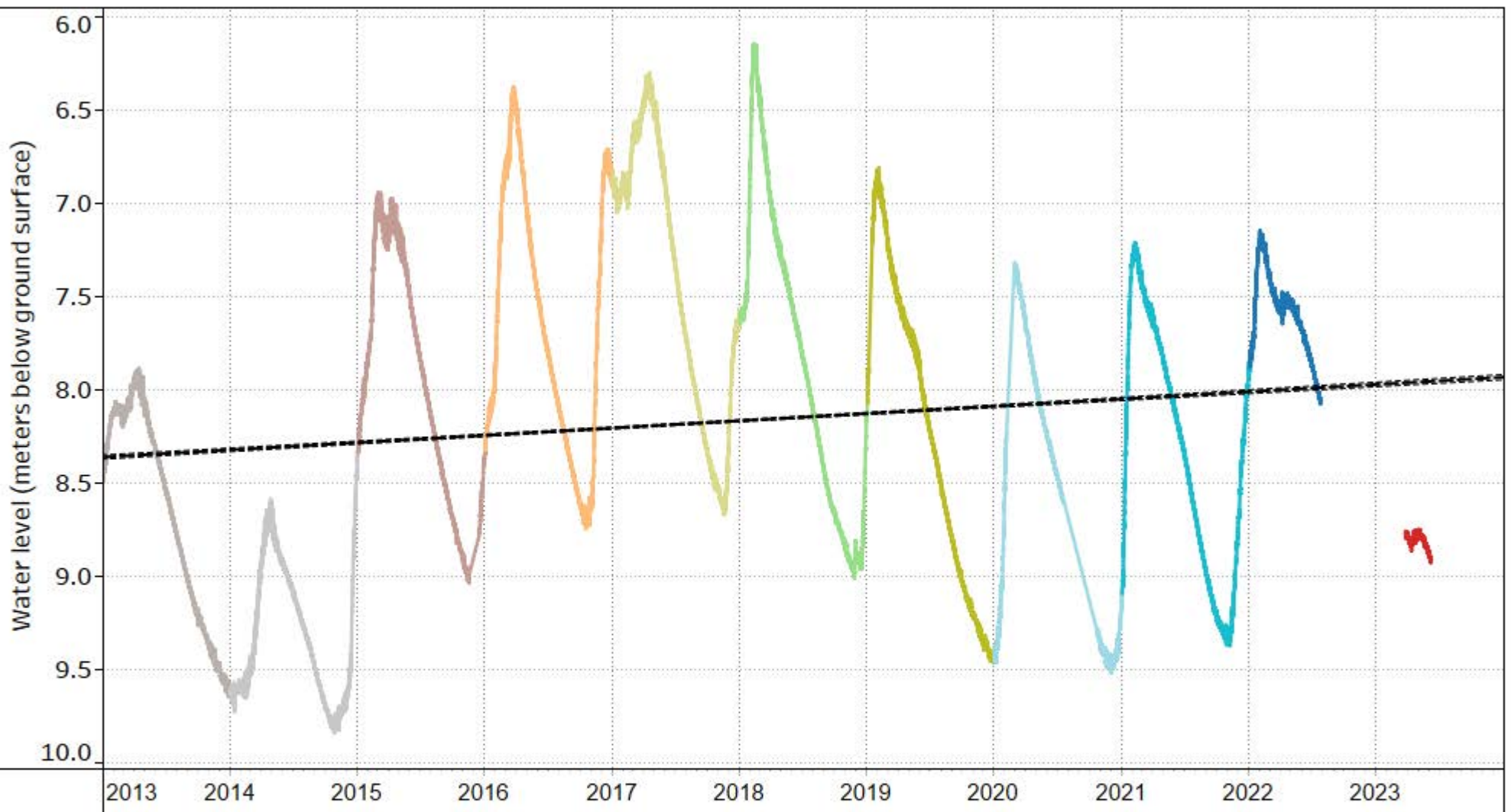
Appendix B - Historical Groundwater Level Results



Table B1: Long-Term Groundwater Level Trench Results for the VOWN and PGOWN in 2023

RDN Water Region	Aquifer Number	Aquifer Type	Observation Well Number	Data Range (dataset)	Trend Slope	Trend Result (m per year)	RDN Figure Number (Historical)	Historical Groundwater Level Trend
WR1 - Big Qualicum	416	Surficial	OW 310	2013 - 2023	-0.000109227	-0.039867801	FIGURE 1-B	Increasing
	662	Surficial	OW 426	2013 - 2022	-0.000123321	-0.045012324	FIGURE 2-B	Increasing
	Unmapped	Surficial	OW 427	2013 - 2022	-1.90E-05	-0.006951855	FIGURE 3-B	Stable
WR2 - Little Qualicum	662	Surficial	OW 391	2013 - 2022	-0.000160394	-0.05854389	FIGURE 4-B	Increasing
	664	Surficial	OW 389	2013 - 2023	1.87E-05	0.00682758	FIGURE 5-B	Stable
WR3 - French Creek	212	Bedrock	VOW 15	2017 - 2023	-0.000714995	-0.260973072	FIGURE 6-B	Increasing
	216	Surficial	OW 304	2013 - 2023	-0.001188959	-0.433969981	FIGURE 7-B	Increasing
			OW 314	2013 - 2023	-0.000486238	-0.177476985	FIGURE 8-B	Increasing
			OW 398	2013 - 2023	-0.000467647	-0.170690984	FIGURE 9-B	Increasing
			OW 424	2013 - 2023	-0.000104159	-0.038017914	FIGURE 10-B	Increasing
			VOW 14	2017 - 2023	-0.000483413	-0.176445625	FIGURE 11-B	Increasing
	217	Surficial	OW 295	2013 - 2023	-1.38E-05	-0.00502377	FIGURE 12-B	Stable
			OW 303	2013 - 2022	-0.000421617	-0.153890287	FIGURE 13-B	Increasing
			OW 433	2013 - 2022	-0.000567629	-0.207184444	FIGURE 14-B	Increasing
			OW 434	2013 - 2022	-0.000274744	-0.100281622	FIGURE 15-B	Increasing
		VOW 16	2017 - 2023	7.53E-05	0.027478077	FIGURE 16-B	Stable	
220	Bedrock	OW 287	2013 - 2022	0.000916221	0.33442055	FIGURE 17-B	Large Decline	
WR4 - Englishman River	216	Surficial	VOW 01	2013 - 2023	-0.00018528	-0.067627269	FIGURE 18-B	Increasing
	219	Surficial	OW 395	2013 - 2021	0.000370994	0.135412894	FIGURE 19-B	Large Decline
	220	Bedrock	VOW 18	2017 - 2023	-0.000205219	-0.07490478	FIGURE 20-B	Increasing
WR5 - Nanoose to South Wellington	167	Surficial	VOW 12	2016 - 2023	-1.09E-05	-0.003989705	FIGURE 21-B	Stable
	211	Bedrock	OW 388	2013 - 2022	0.001666725	0.608354528	FIGURE 22-B	Large Decline
	213	Bedrock	VOW 02	2013 - 2023	-0.000816385	-0.297980369	FIGURE 23-B	Increasing
			VOW 03	2013 - 2023	-0.000489993	-0.178847302	FIGURE 24-B	Increasing
			VOW 13	2016 - 2023	-0.000379278	-0.138436333	FIGURE 25-B	Increasing
	214	Bedrock	VOW 30	2015 - 2023	-0.000985787	-0.359812384	FIGURE 26-B	Increasing
			VOW 31	2015 - 2023	-0.000210839	-0.076956272	FIGURE 27-B	Increasing
			VOW 32	2015 - 2023	-0.000716033	-0.261352082	FIGURE 28-B	Increasing
			VOW 33	2015 - 2023	0.000824467	0.30093039	FIGURE 29-B	Large Decline
		VOW 34	2015 - 2023	-0.000530157	-0.193507423	FIGURE 30-B	Increasing	
	215	Surficial	OW 232	2013 - 2023	7.06E-05	0.025759436	FIGURE 31-B	Stable
			OW 340	2013 - 2023	0.000263502	0.096178119	FIGURE 32-B	Moderate Decline
			VOW 28	2017 - 2023	-5.10E-05	-0.018606795	FIGURE 33-B	Stable
	218	Bedrock	OW 394	2013 - 2022	3.26E-05	0.011910702	FIGURE 34-B	Stable
			VOW 26	2017 - 2023	0.000487337	0.177878024	FIGURE 35-B	Large Decline
			VOW 27	2017 - 2023	0.000656751	0.239714215	FIGURE 36-B	Large Decline
	219	Surficial	OW 393	2013 - 2023	-7.39E-05	-0.026974552	FIGURE 37-B	Stable
			OW 396	2013 - 2023	-4.76E-05	-0.017392019	FIGURE 38-B	Stable
			VOW 25	2017 - 2023	-0.000392712	-0.14333985	FIGURE 39-B	Increasing
	1098	Surficial	OW 392	2013 - 2023	-0.000262406	-0.09577805	FIGURE 40-B	Increasing
			OW 397	2014 - 2022	-0.0013546	-0.494428874	FIGURE 41-B	Increasing
			VOW 17	2015 - 2023	-0.000643988	-0.23505569	FIGURE 42-B	Increasing
			VOW 29	2015 - 2023	-9.46E-05	-0.034512192	FIGURE 43-B	Increasing
	160	Surficial	OW 436	2015 - 2023	0.000228894	0.083546459	FIGURE 44-B	Moderate Decline
			VOW 04	2013 - 2023	-3.89E-05	-0.014188587	FIGURE 45-B	Stable
	161	Surficial	OW 312	2013 - 2022	-2.65E-06	-0.000966103	FIGURE 46-B	Stable
			OW 437	2015 - 2023	0.000265109	0.096764758	FIGURE 47-B	Moderate Decline
WR6 - Nanaimo River	162	Bedrock	OW 390	2013 - 2022	-0.000365383	-0.133364734	FIGURE 48-B	Increasing
			OW 432	2013 - 2022	0.000185601	0.067744444	FIGURE 49-B	Moderate Decline
			VOW 06	2013 - 2023	0.000240454	0.087765652	FIGURE 50-B	Moderate Decline
			VOW 19	2017 - 2023	-0.000942062	-0.343852711	FIGURE 51-B	Increasing
			VOW 21	2017 - 2023	-0.000394906	-0.144140647	FIGURE 52-B	Increasing
			VOW 22	2017 - 2023	-0.000164849	-0.060169929	FIGURE 53-B	Increasing
			VOW 23	2017 - 2022	0.000397225	0.144987169	FIGURE 54-B	Large Decline
163	Surficial	VOW 24	2017 - 2023	-9.38E-06	-0.003423448	FIGURE 55-B	Stable	
165	Bedrock	OW 435	2013 - 2023	1.08E-05	0.003931697	FIGURE 56-B	Stable	
		VOW 05	2013 - 2023	-0.000320156	-0.11685705	FIGURE 57-B	Increasing	
WR7 - Gabriola Island	709	Bedrock	OW 196	2013 - 2023	3.12E-05	0.011405781	FIGURE 58-B	Stable
			OW 197	2013 - 2022	0.000169629	0.061914502	FIGURE 59-B	Moderate Decline
			OW 316	2013 - 2023	-5.35E-05	-0.019543189	FIGURE 60-B	Stable
			OW 385	2013 - 2022	-4.15E-05	-0.015129882	FIGURE 61-B	Stable
			VOW 07	2013 - 2023	-6.62E-05	-0.024150217	FIGURE 62-B	Stable
			VOW 08	2013 - 2023	7.84E-05	0.02861777	FIGURE 63-B	Stable

OW 310 (WR1 - Big Qualicum) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
416 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|--|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

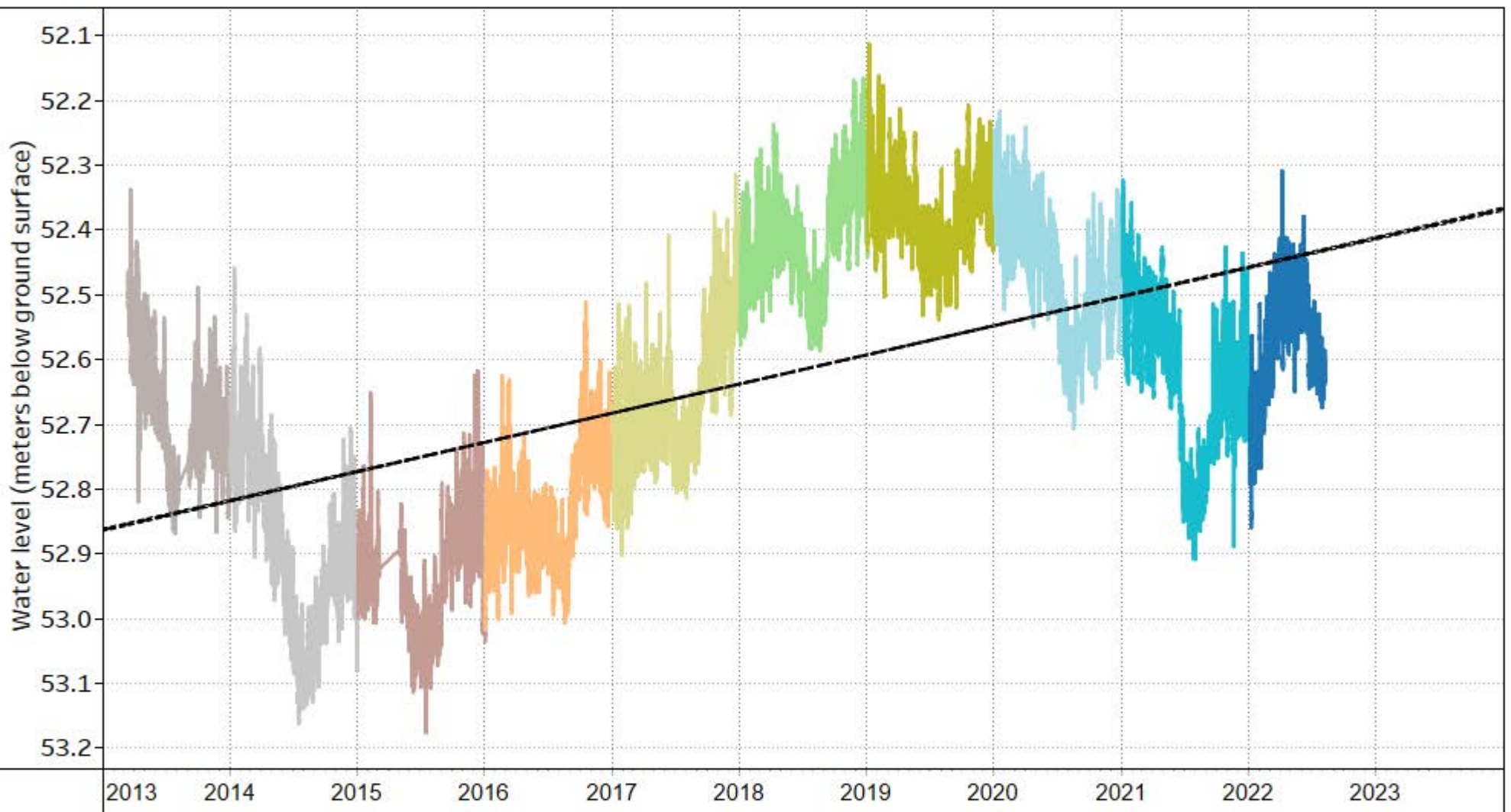
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 310 (WR1 - Big Qualicum)

FIGURE 1-B



OW 426 (WR1 - Big Qualicum) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
662 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

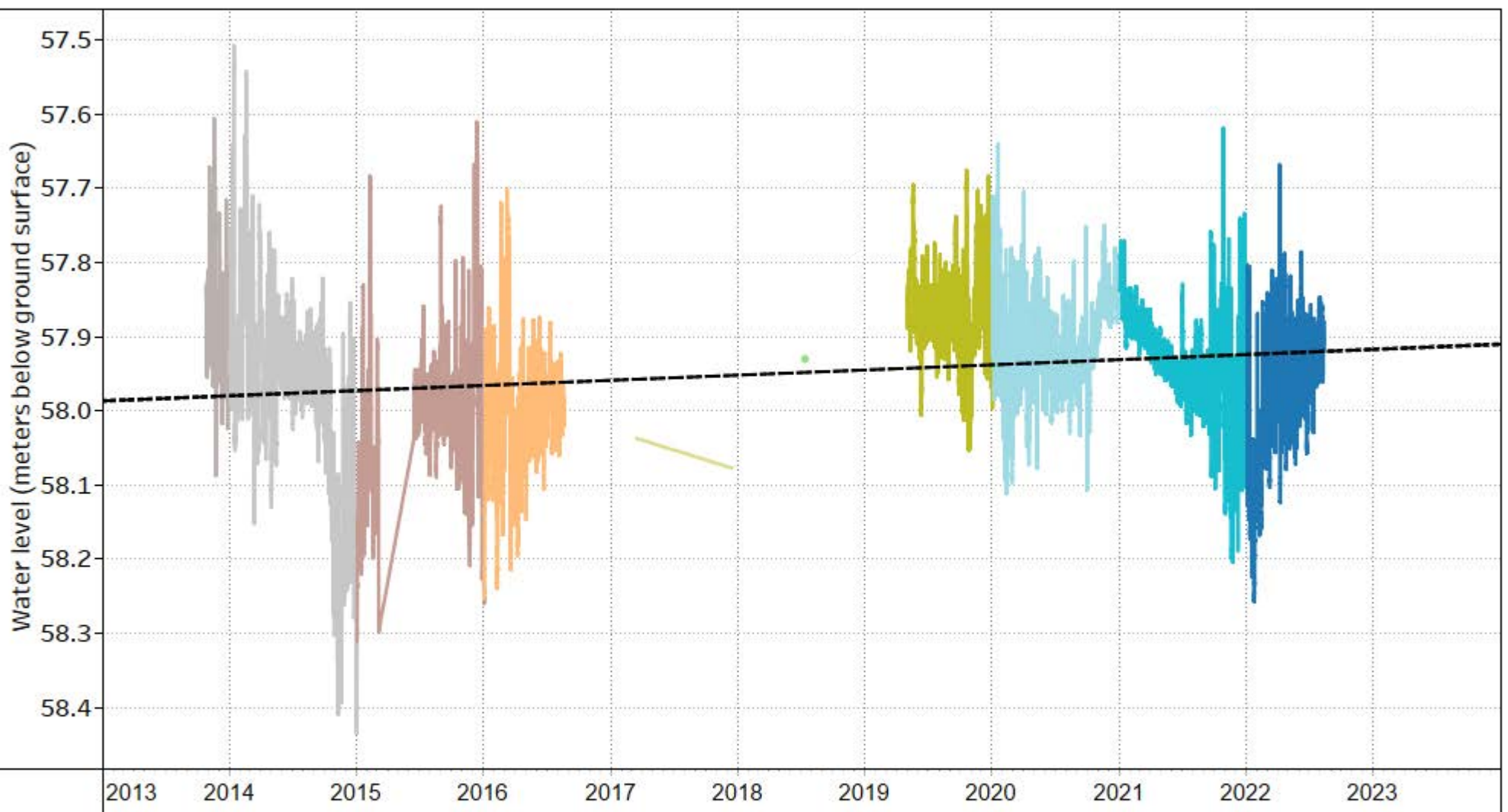
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 426 (WR1 - Big Qualicum)

FIGURE 2-B



OW 427 (WR1 - Big Qualicum) Historical Static Water Level Linear Trend



NOTES:

YEAR		
2022	2018	2014
2021	2017	2013
2020	2016	
2019	2015	

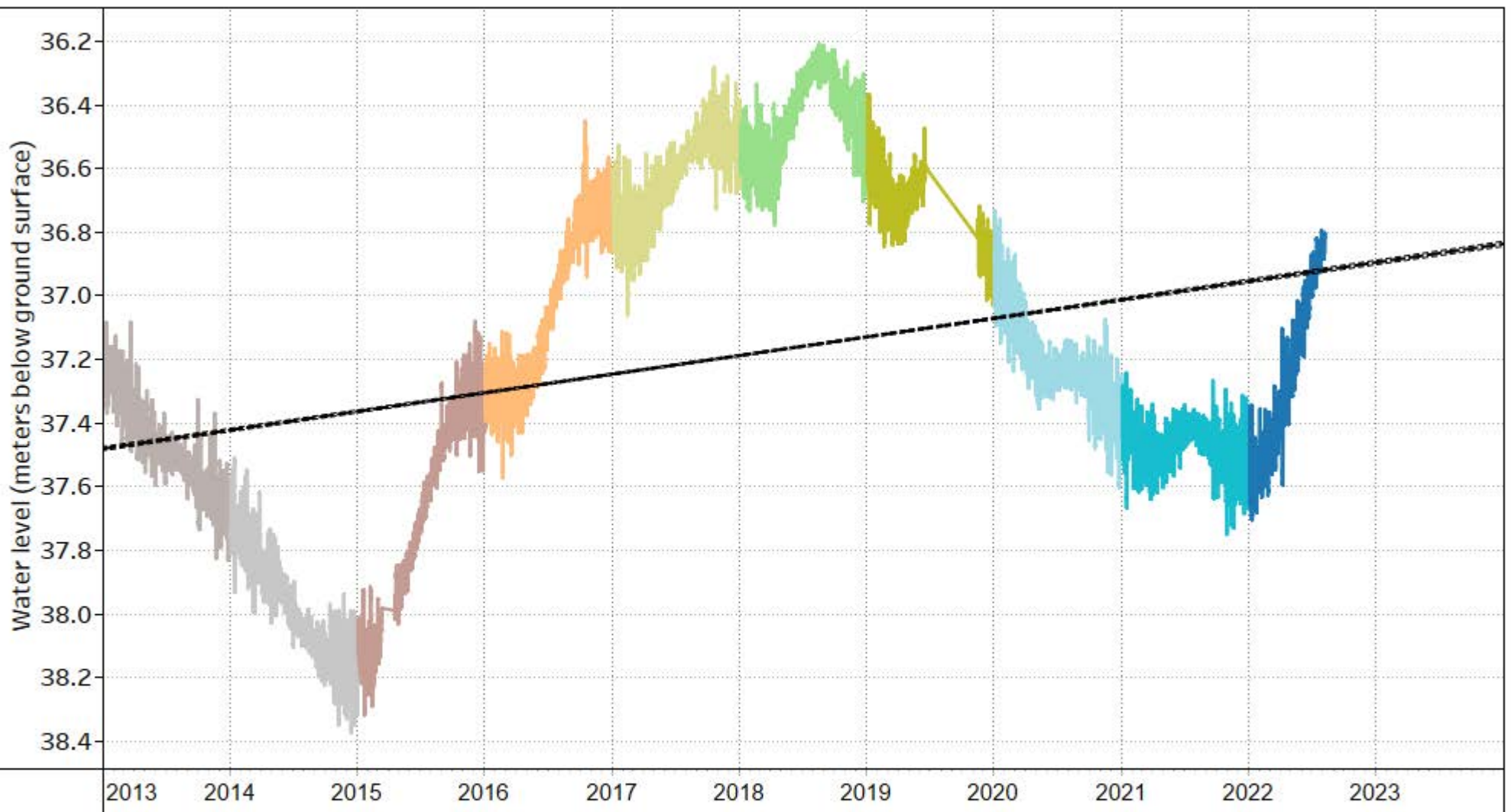
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 427 (WR1 - Big Qualicum)

FIGURE 3-B



OW 391 (WR2 - Little Qualicum) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
662 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

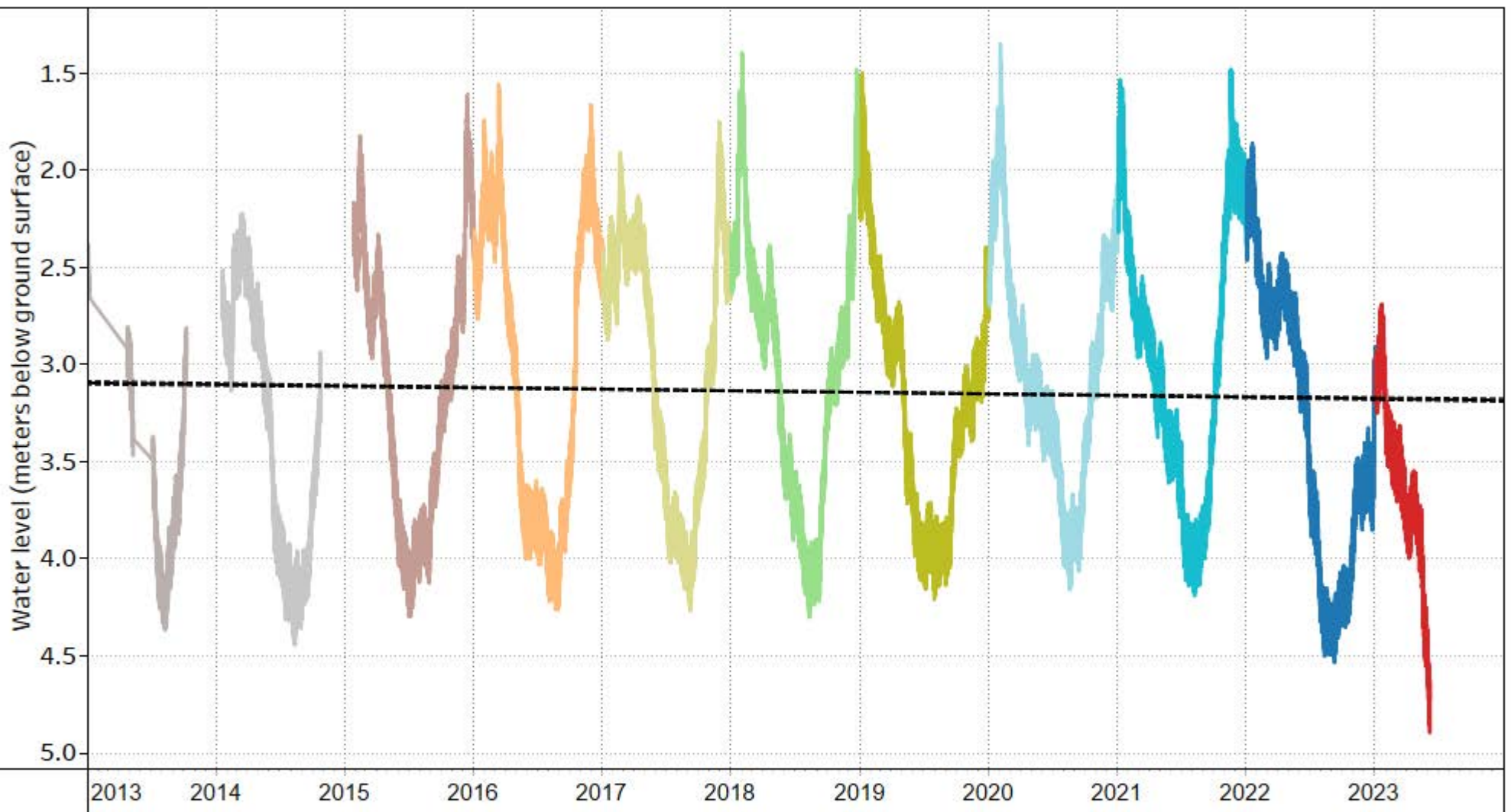
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 391 (WR2 - Little Qualicum)

FIGURE 4-B



OW 389 (WR2 - Little Qualicum) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
664 (Unconfined sand and
gravel aquifer - small
stream system)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

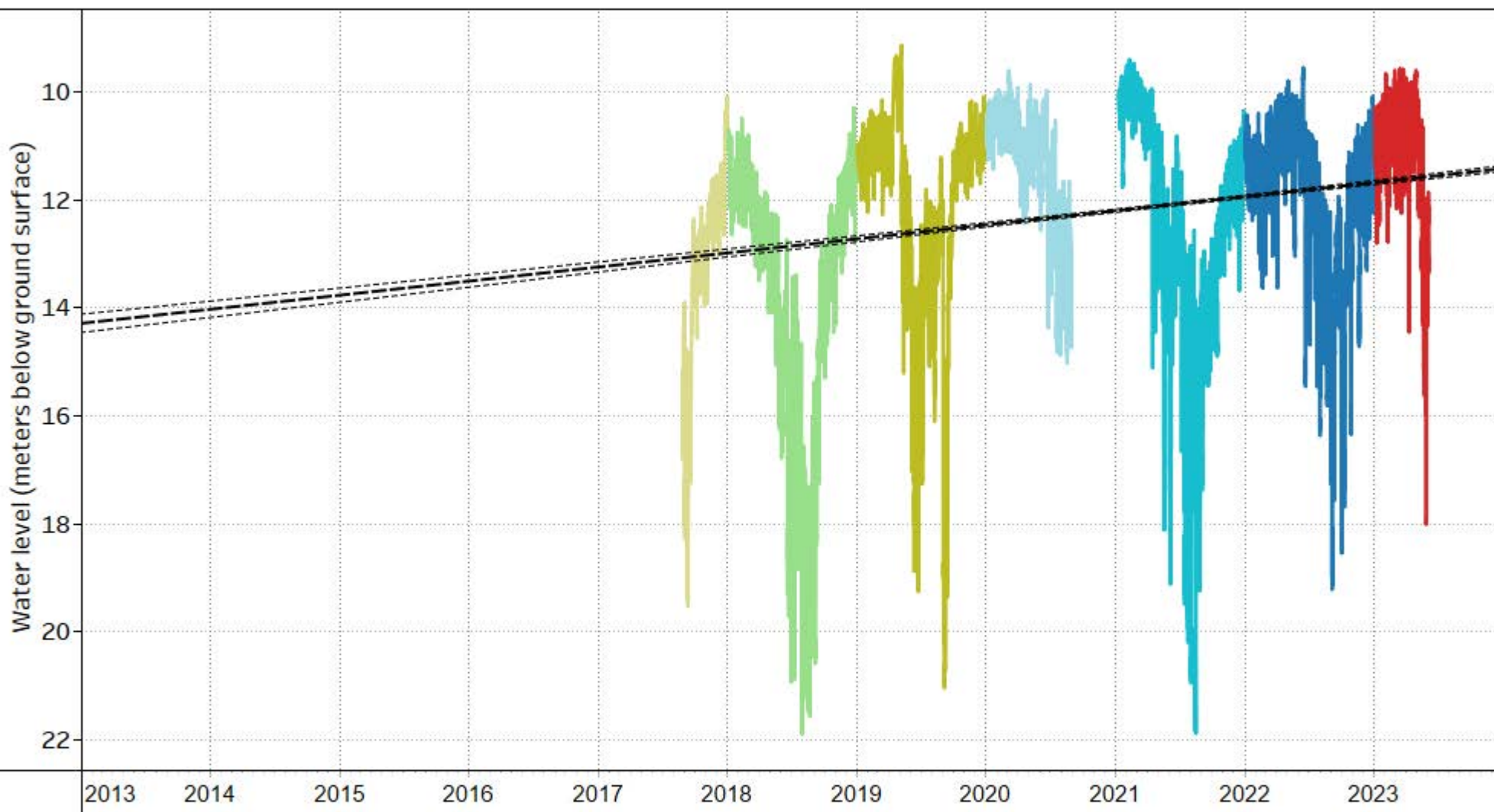
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 389 (WR2 - Little Qualicum)

FIGURE 5-B



VOW 15 - Lowry's (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
212 (Fractured sedimentary
rock)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | |

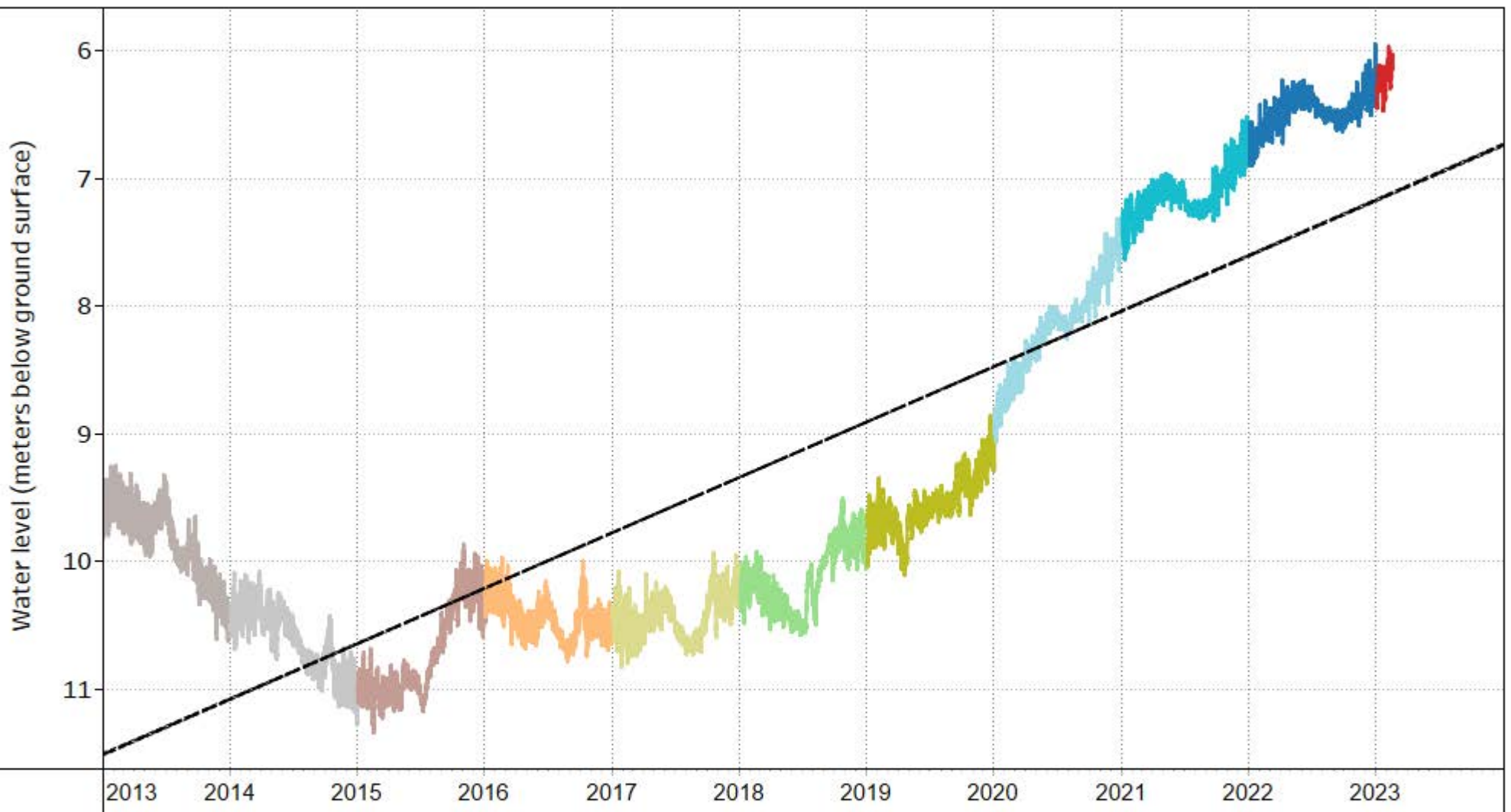
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 15 - Lowry's (WR3 - French Creek)

FIGURE 6-B



OW 304 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

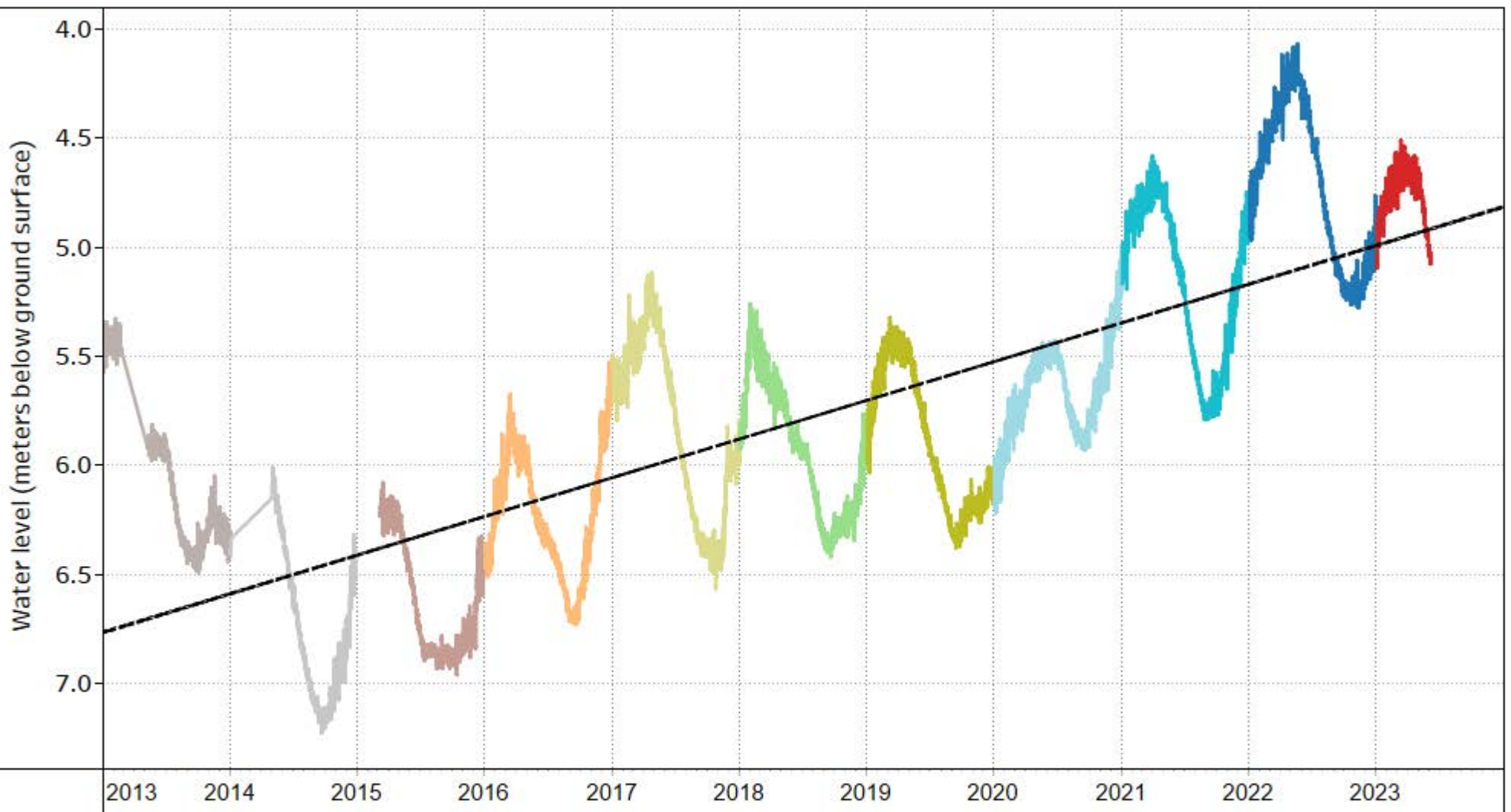
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 304 (WR3 - French Creek)

FIGURE 7-B



OW 314 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

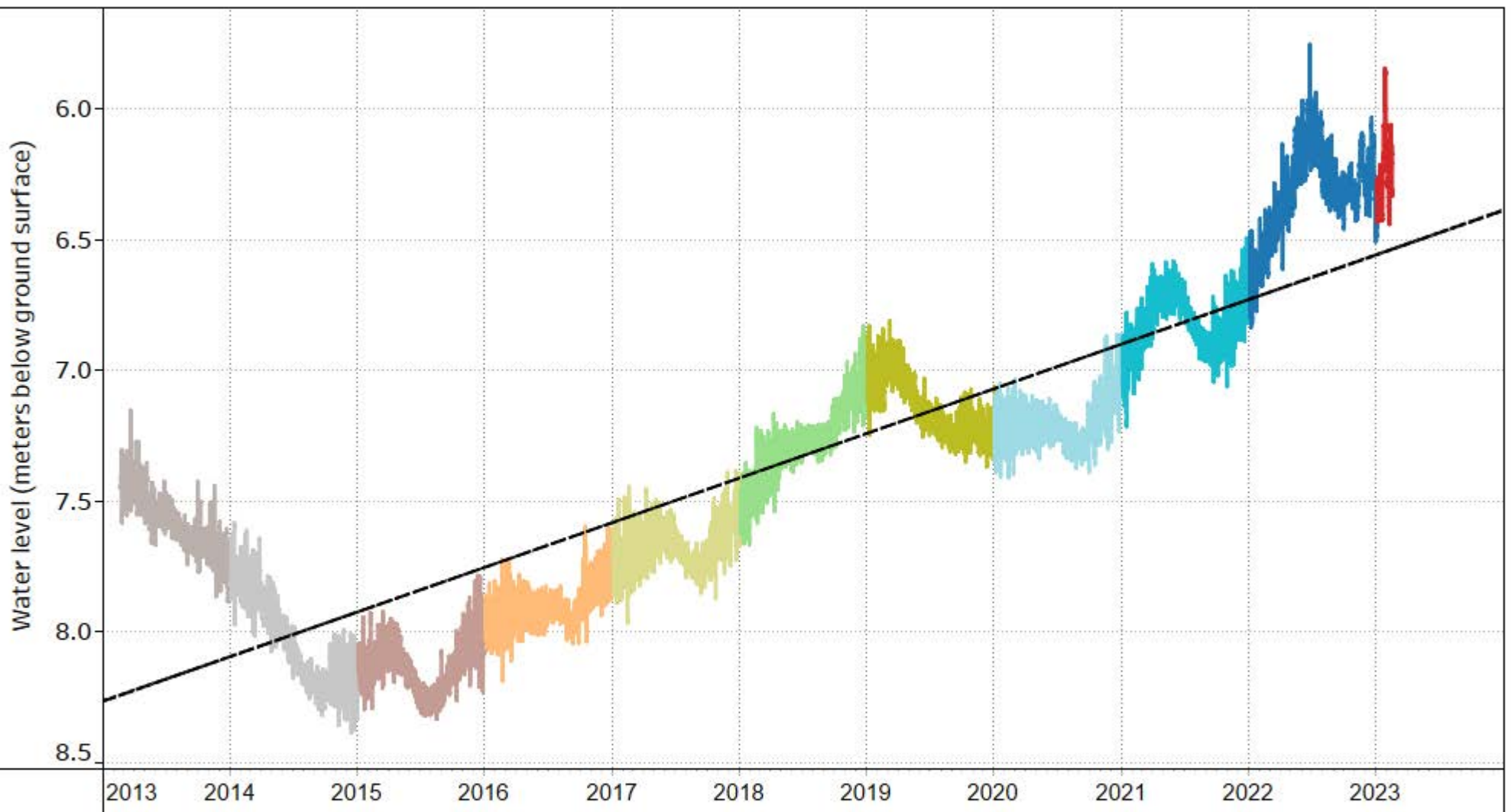
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 314 (WR3 - French Creek)

FIGURE 8-B



OW 398 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

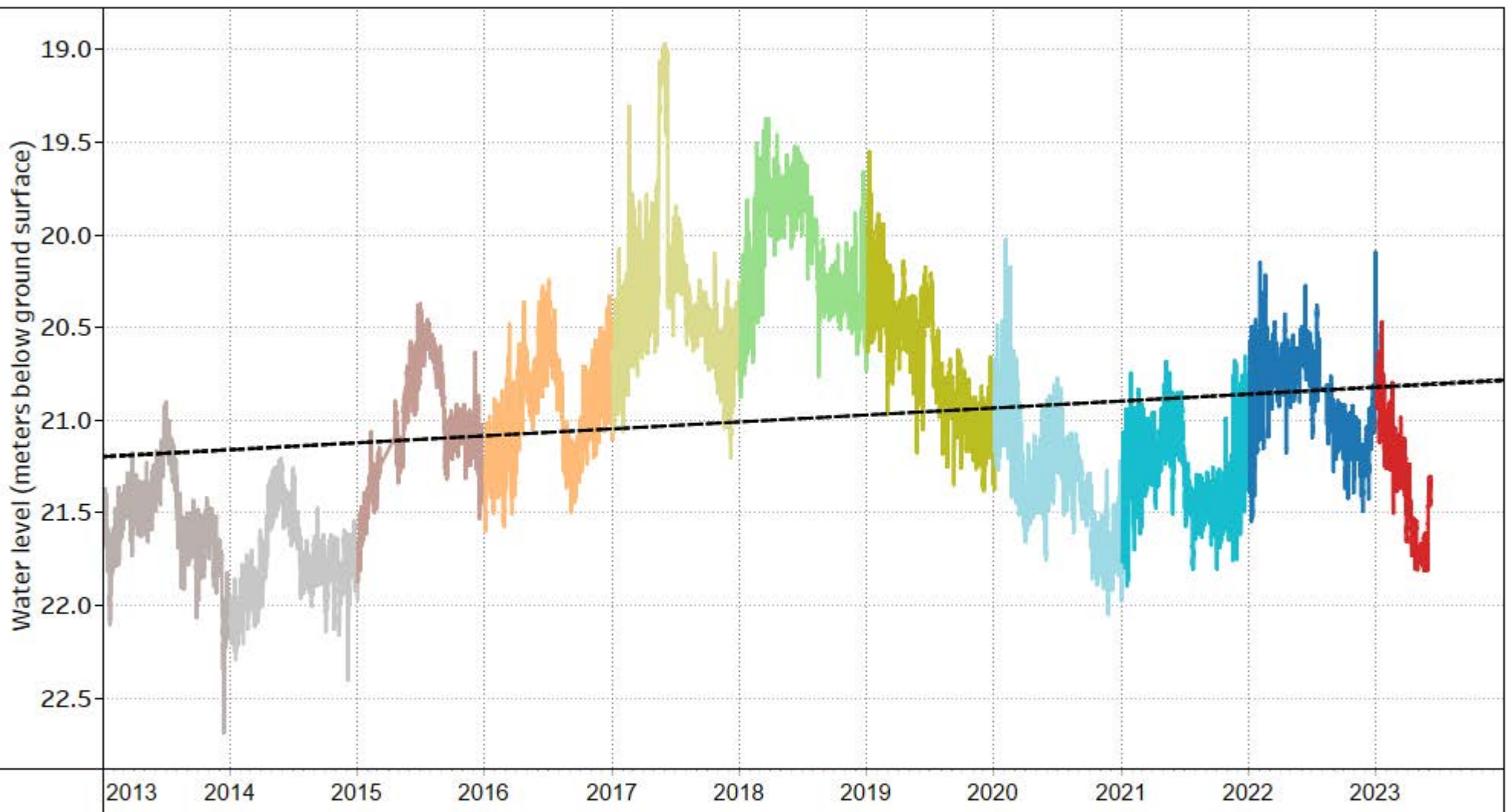
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 398 (WR3 - French Creek)

FIGURE 9-B



OW 424 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

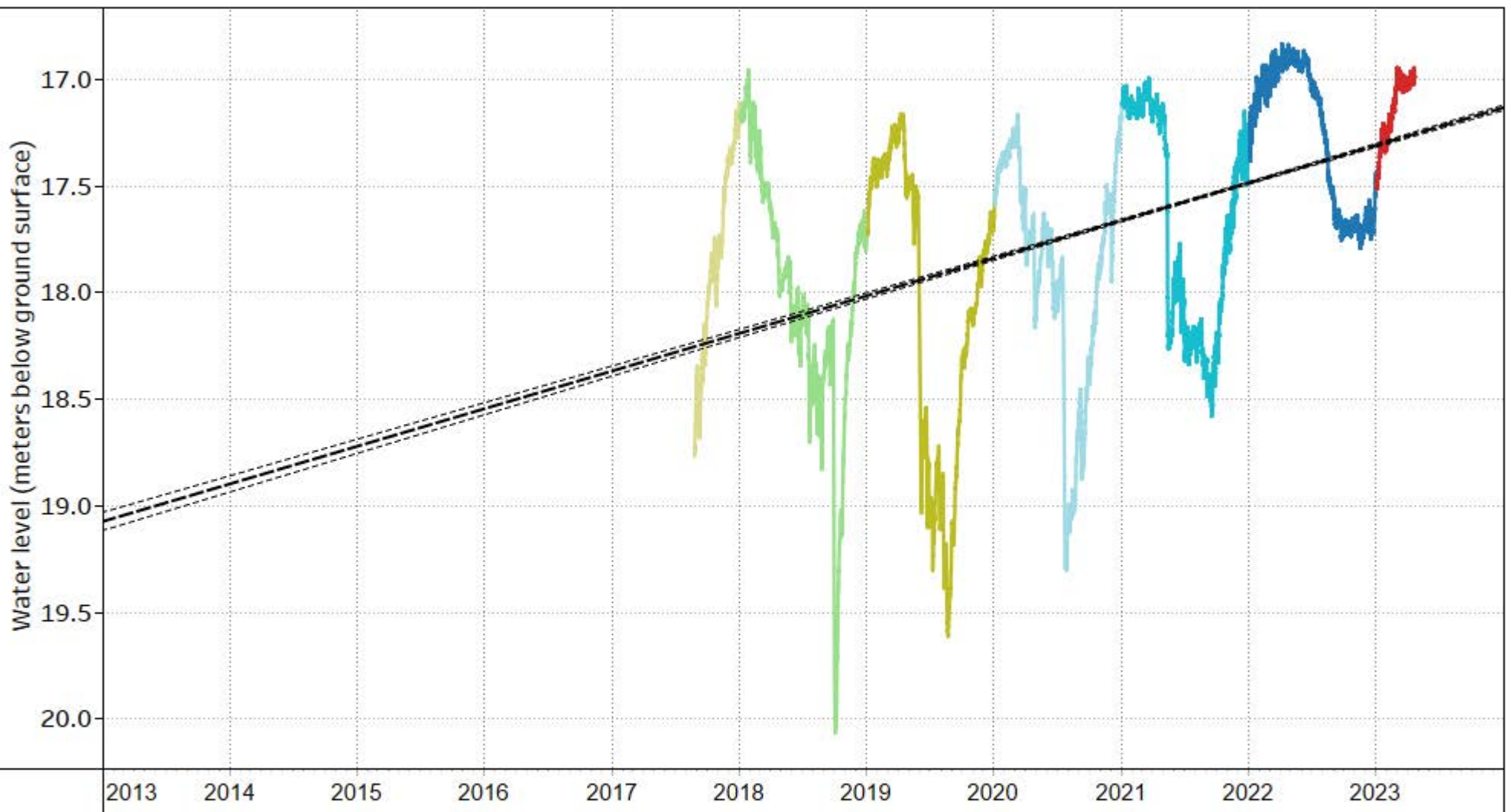
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 424 (WR3 - French Creek)

FIGURE 10-B



VOW 14 - Hodges (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | |
|---|--|
| ■ 2023 | ■ 2019 |
| ■ 2022 | ■ 2018 |
| ■ 2021 | ■ 2017 |
| ■ 2020 | |

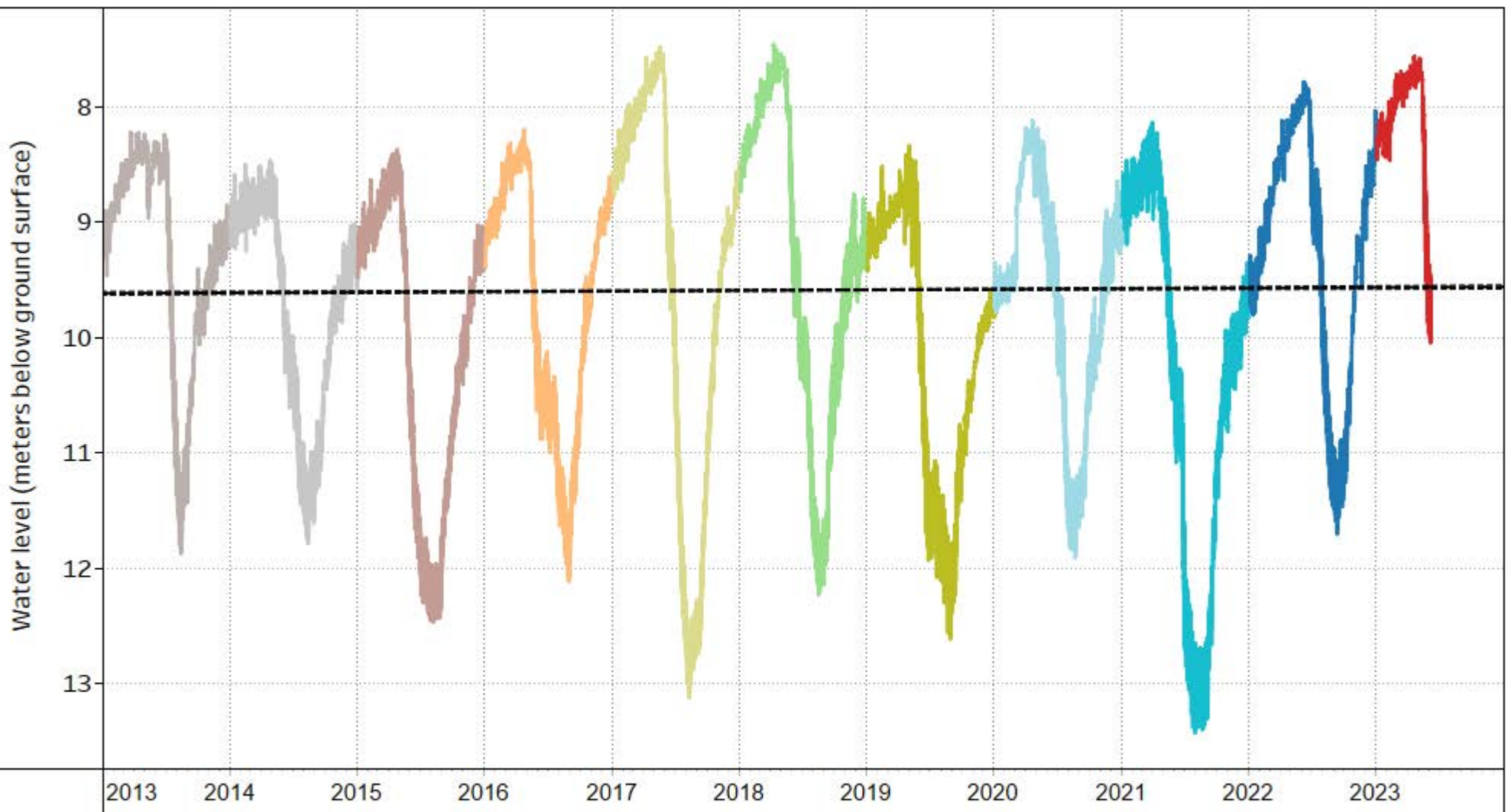
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 14 - Hodges (WR3 - French Creek)

FIGURE 11-B



OW 295 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

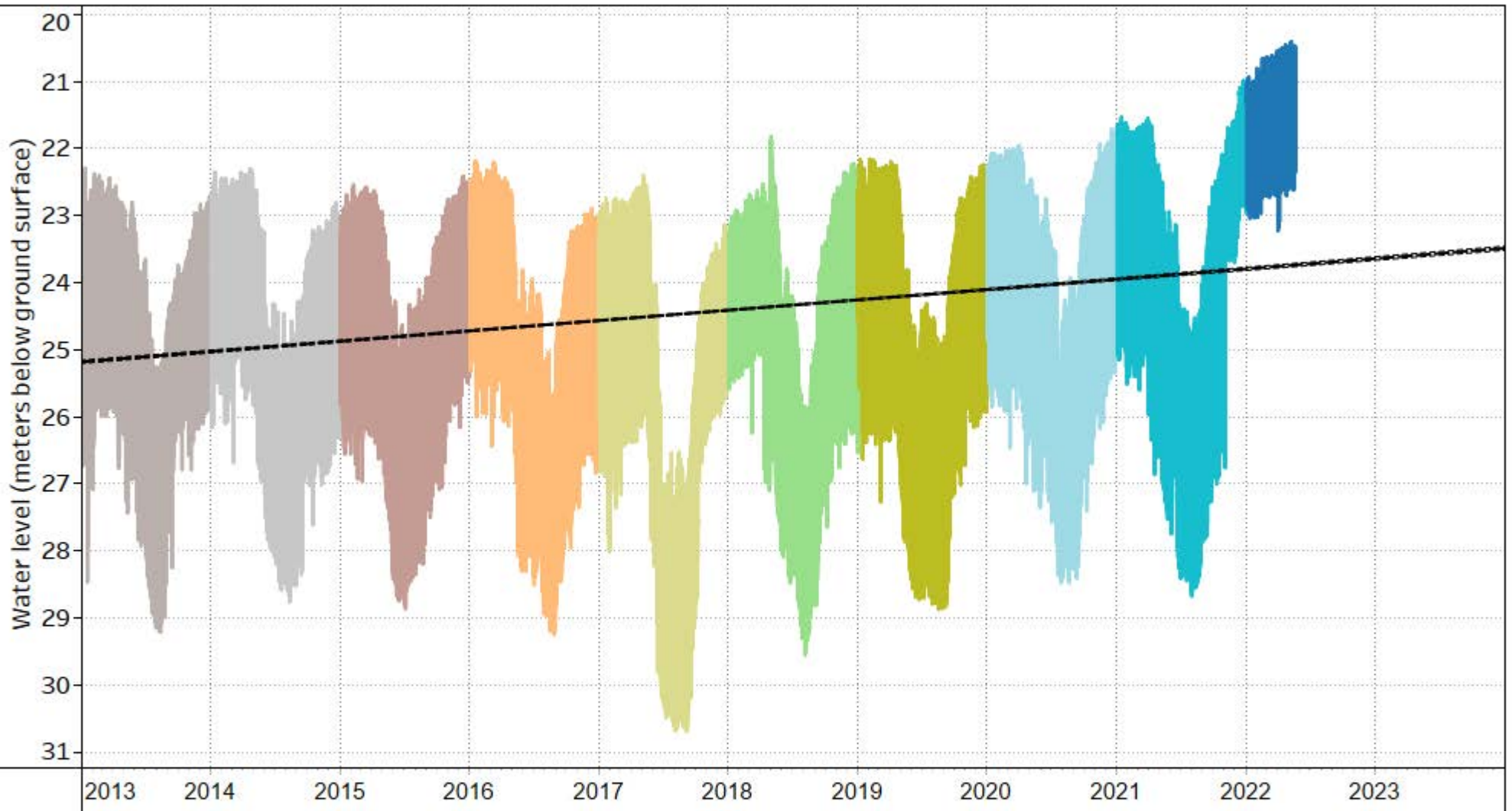
**DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023**

**HISTORICAL GROUNDWATER LEVEL CHART
OW 295 (WR3 - French Creek)**

FIGURE 12-B



OW 303 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

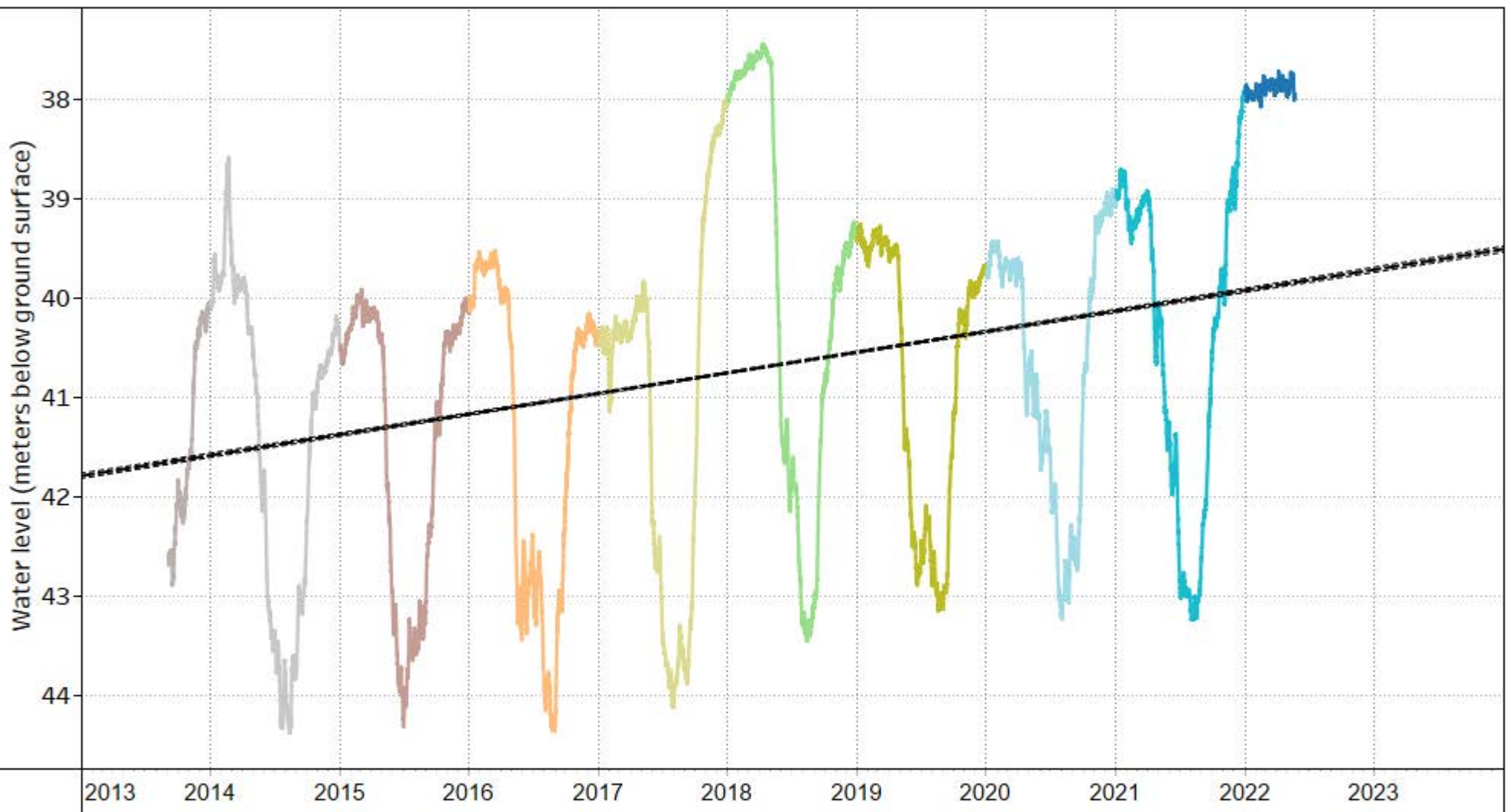
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 303 (WR3 - French Creek)

FIGURE 13-B



OW 433 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

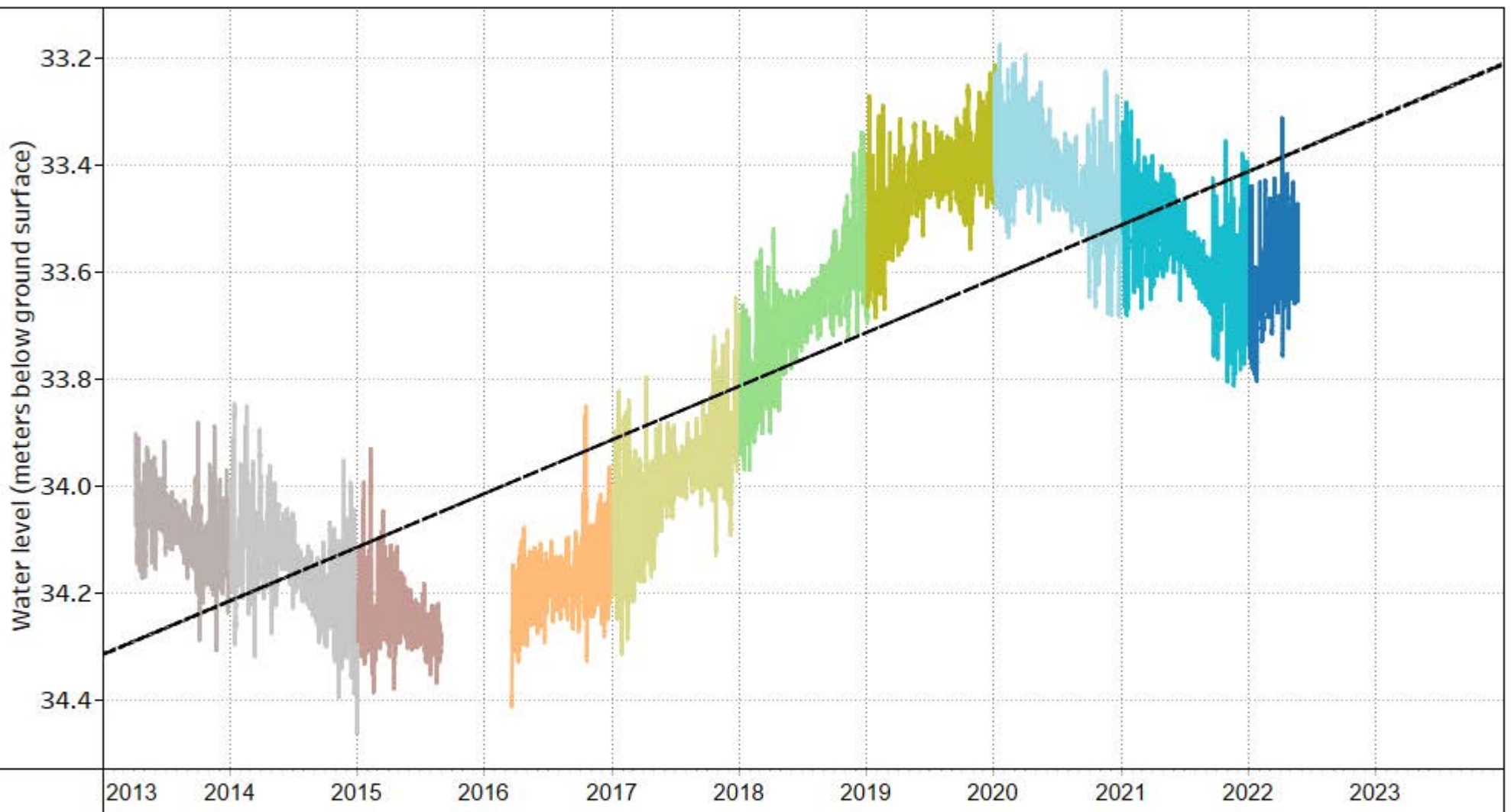
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 433 (WR3 - French Creek)

FIGURE 14-B



OW 434 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

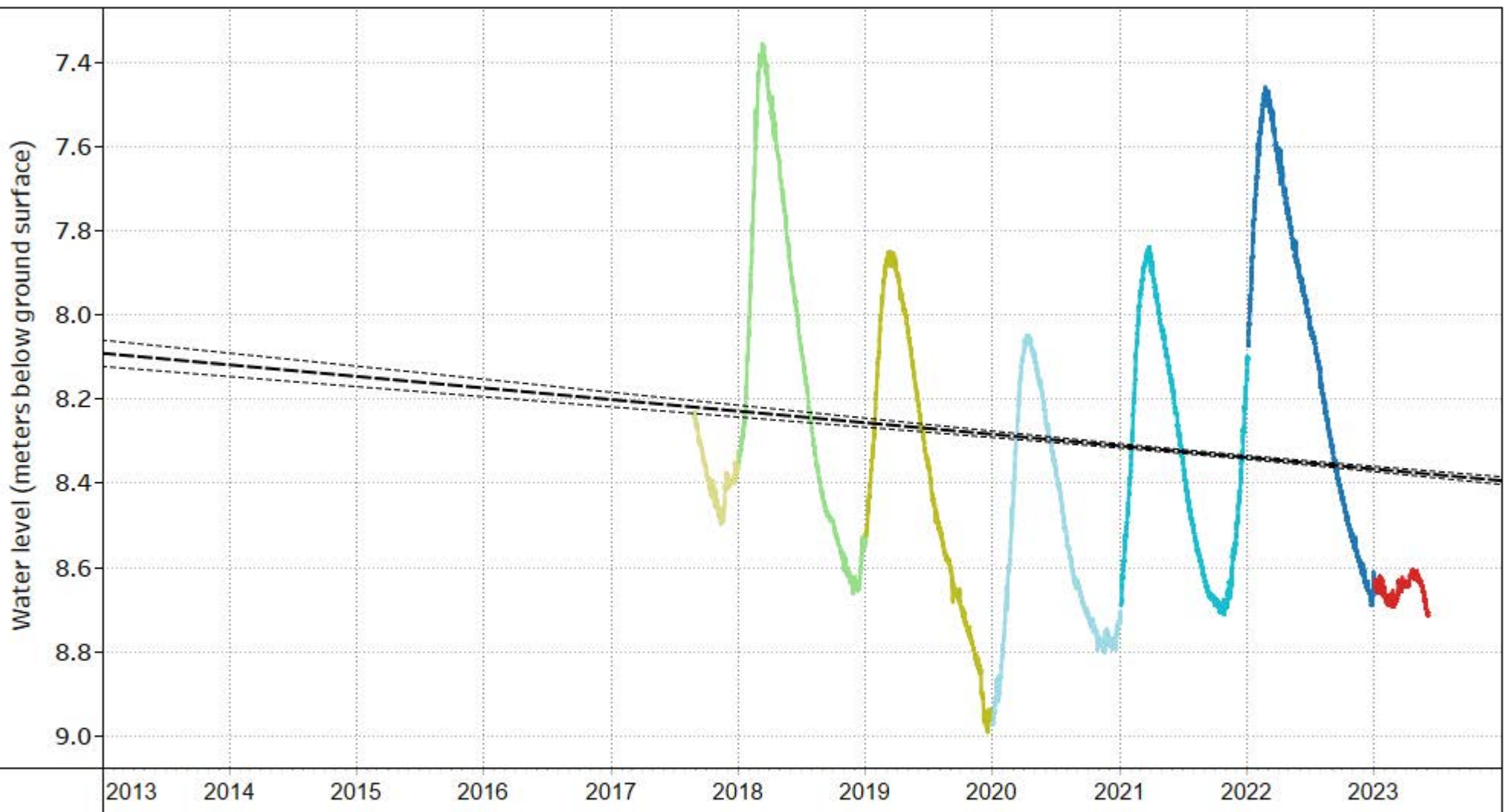
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 434 (WR3 - French Creek)

FIGURE 15-B



VOW 16 - Rinvold (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | |
|--------|--------|
| ■ 2023 | ■ 2019 |
| ■ 2022 | ■ 2018 |
| ■ 2021 | ■ 2017 |
| ■ 2020 | |

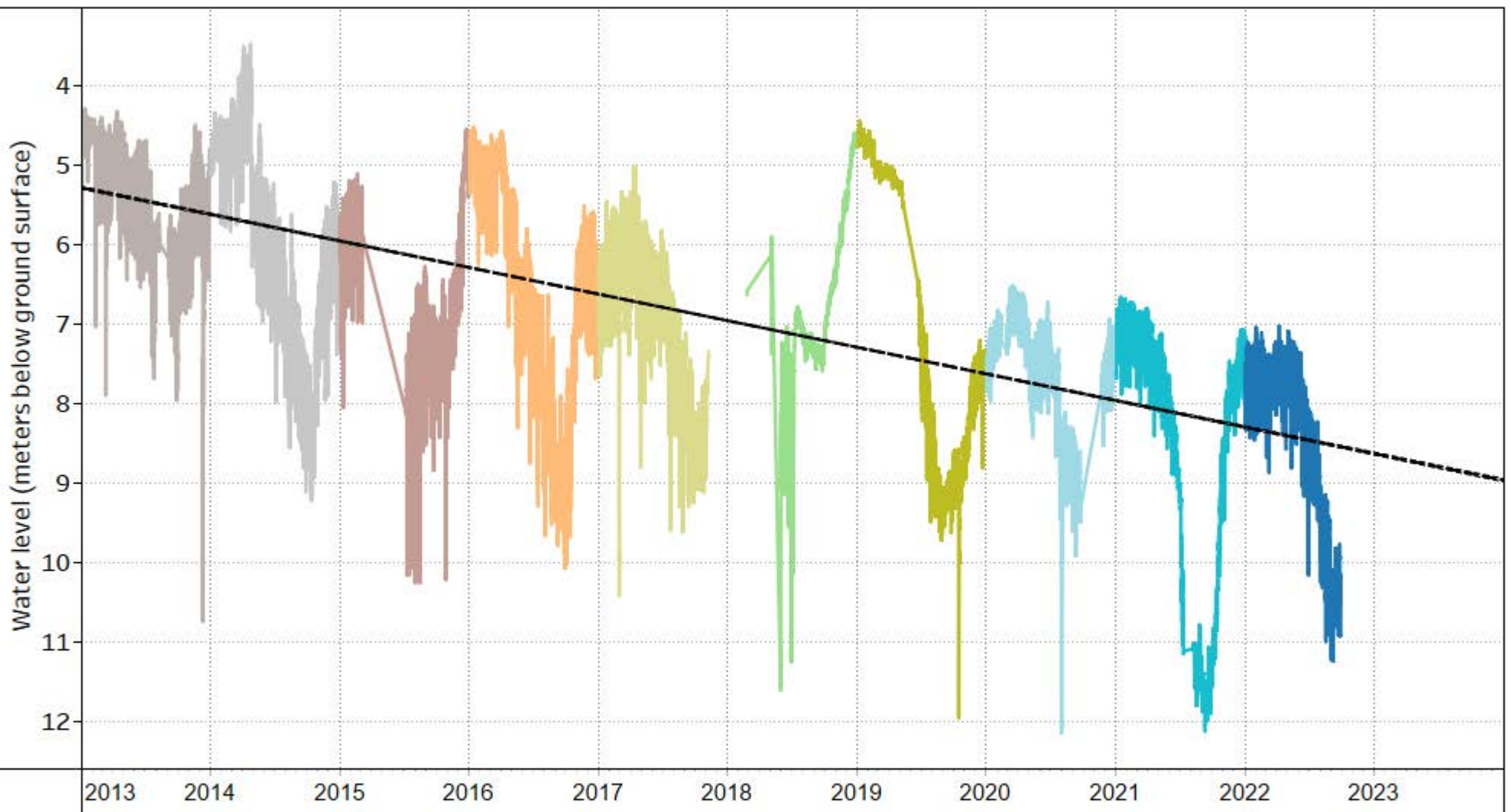
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 16 - Rinvold (WR3 - French Creek)

FIGURE 16-B



OW 287 (WR3 - French Creek) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
220 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

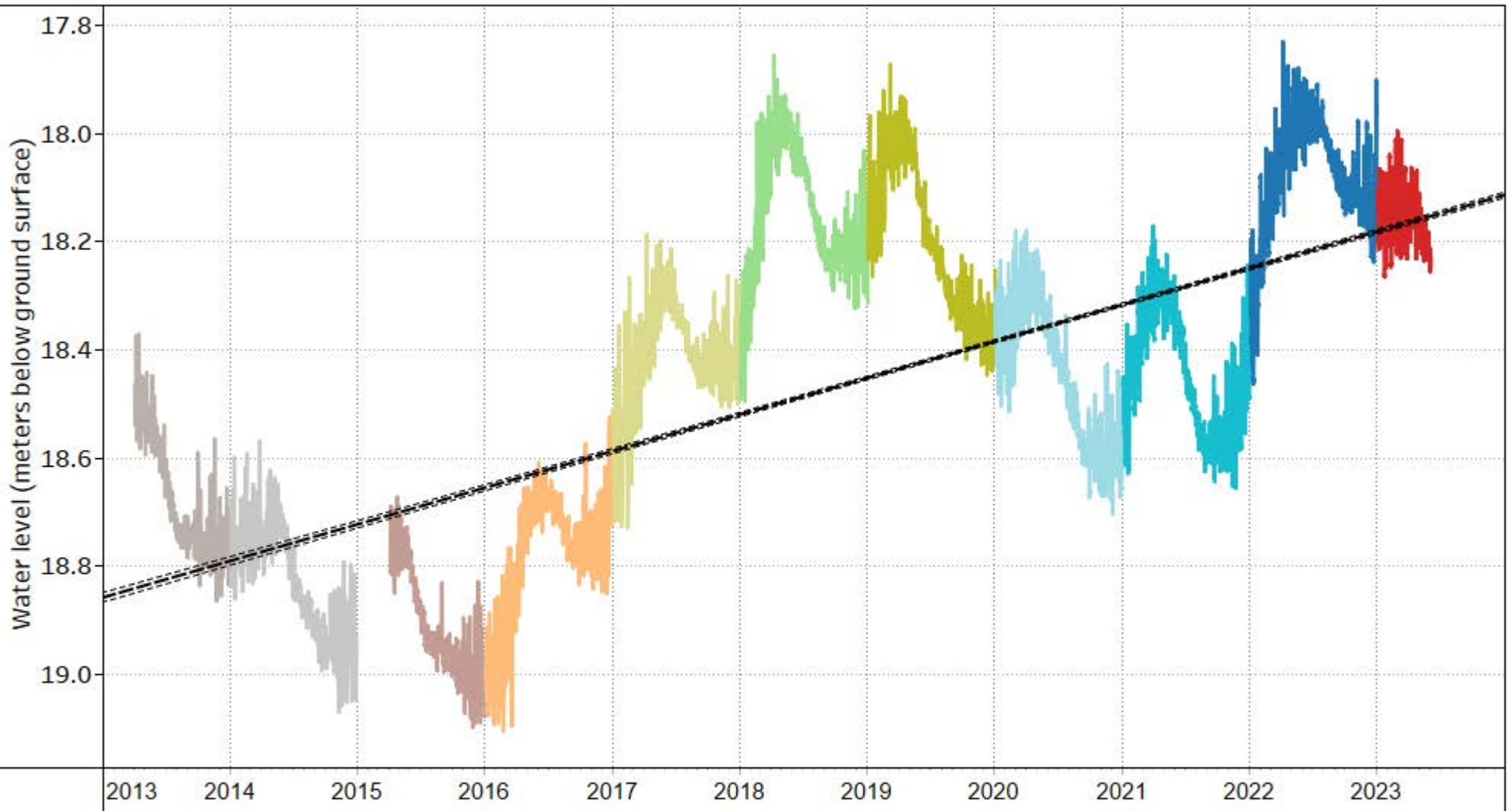
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 287 (WR3 - French Creek)

FIGURE 17-B



VOW 01 - Fourneau (WR4 - Englishman River) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

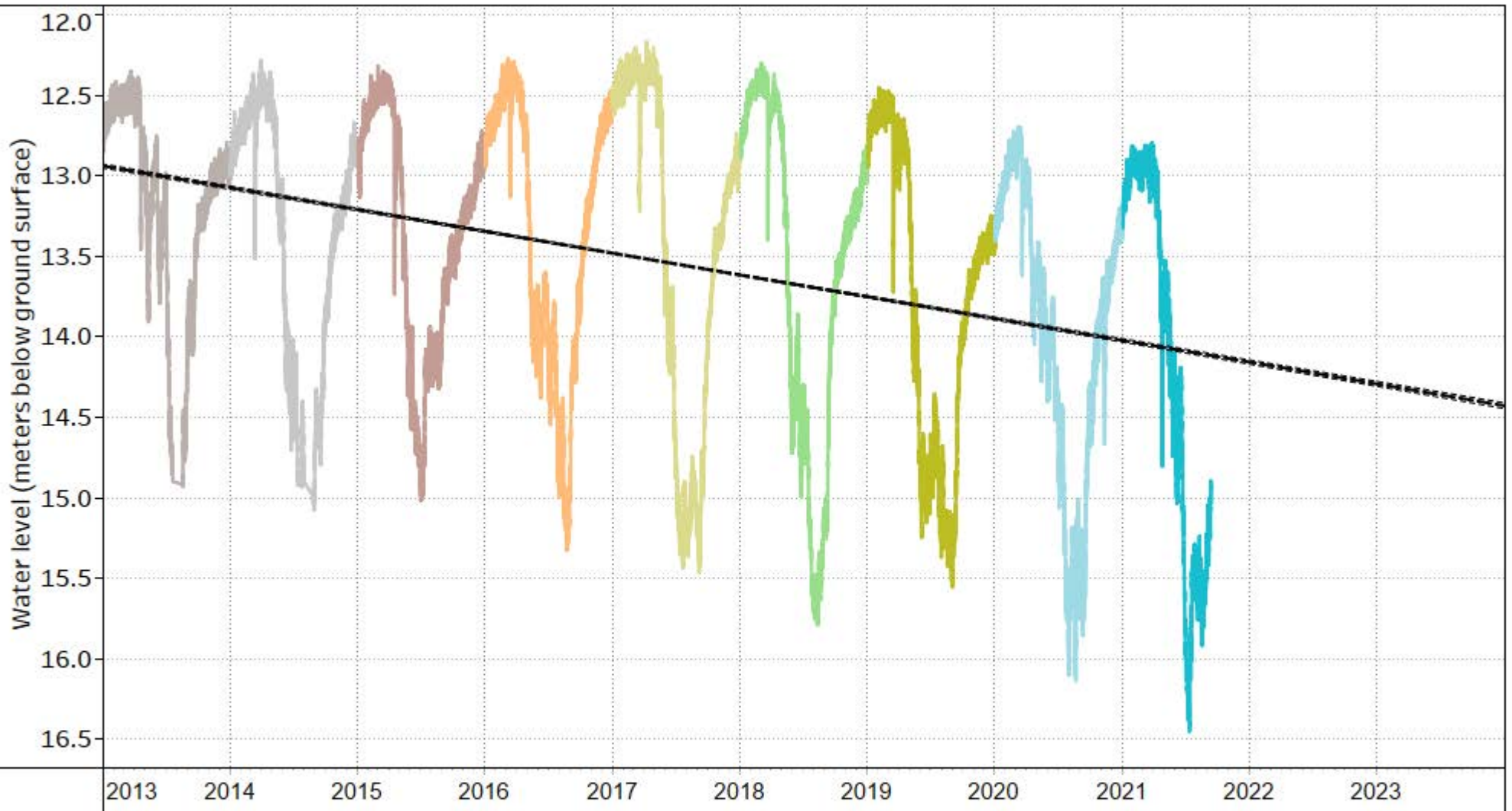
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 01 - Fourneau (WR4 - Englishman River)

FIGURE 18-B



OW 395 (WR4 - Englishman River) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|--|
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |
| ■ 2018 | ■ 2014 | |

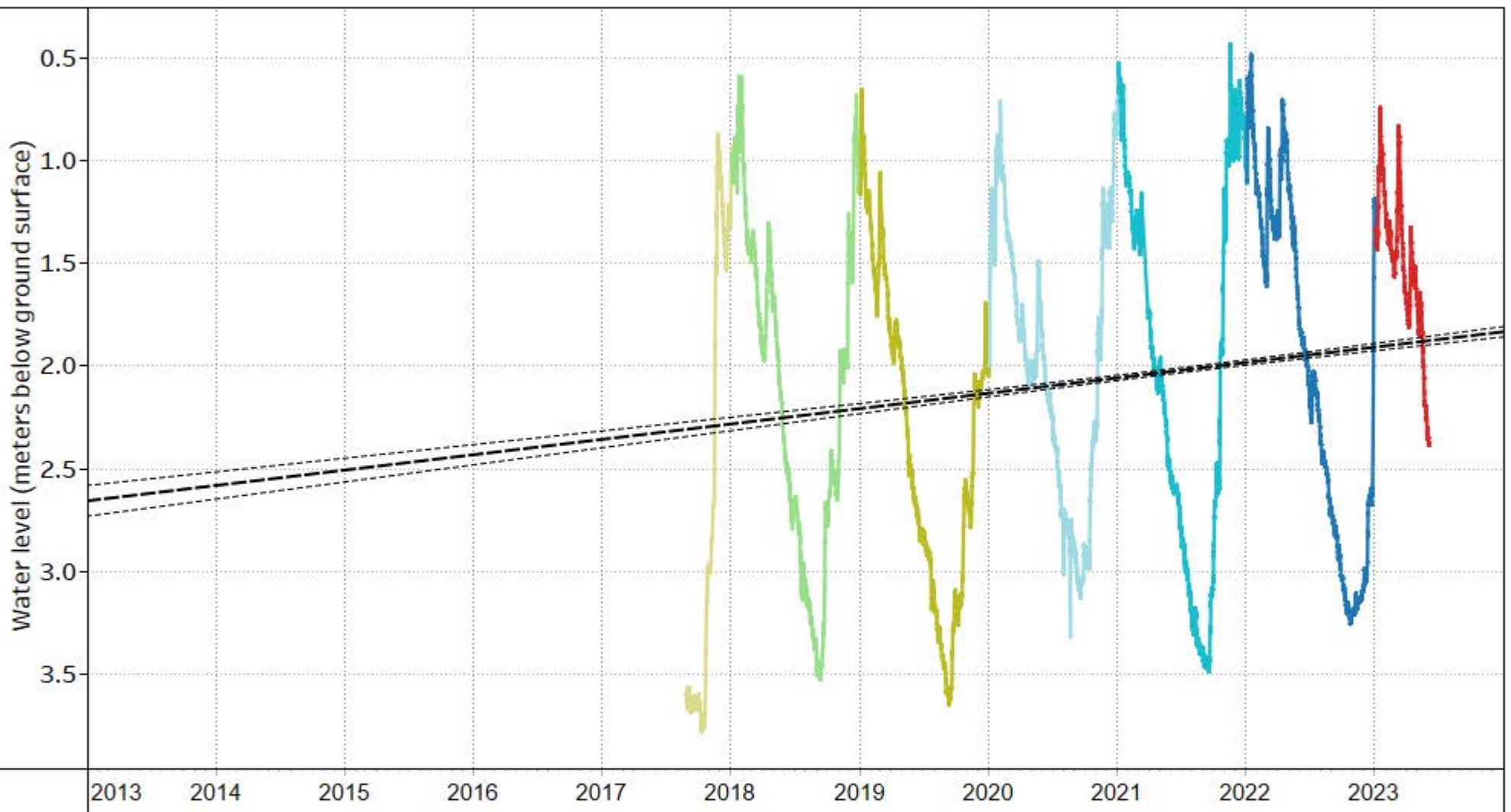
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 395 (WR4 - Englishman River)

FIGURE 19-B



VOW 18 - Middlegate (WR4 - Englishman River) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
220 (Fractured sedimentary
rock)

YEAR

- | | |
|--------|--------|
| ■ 2023 | ■ 2019 |
| ■ 2022 | ■ 2018 |
| ■ 2021 | ■ 2017 |
| ■ 2020 | |

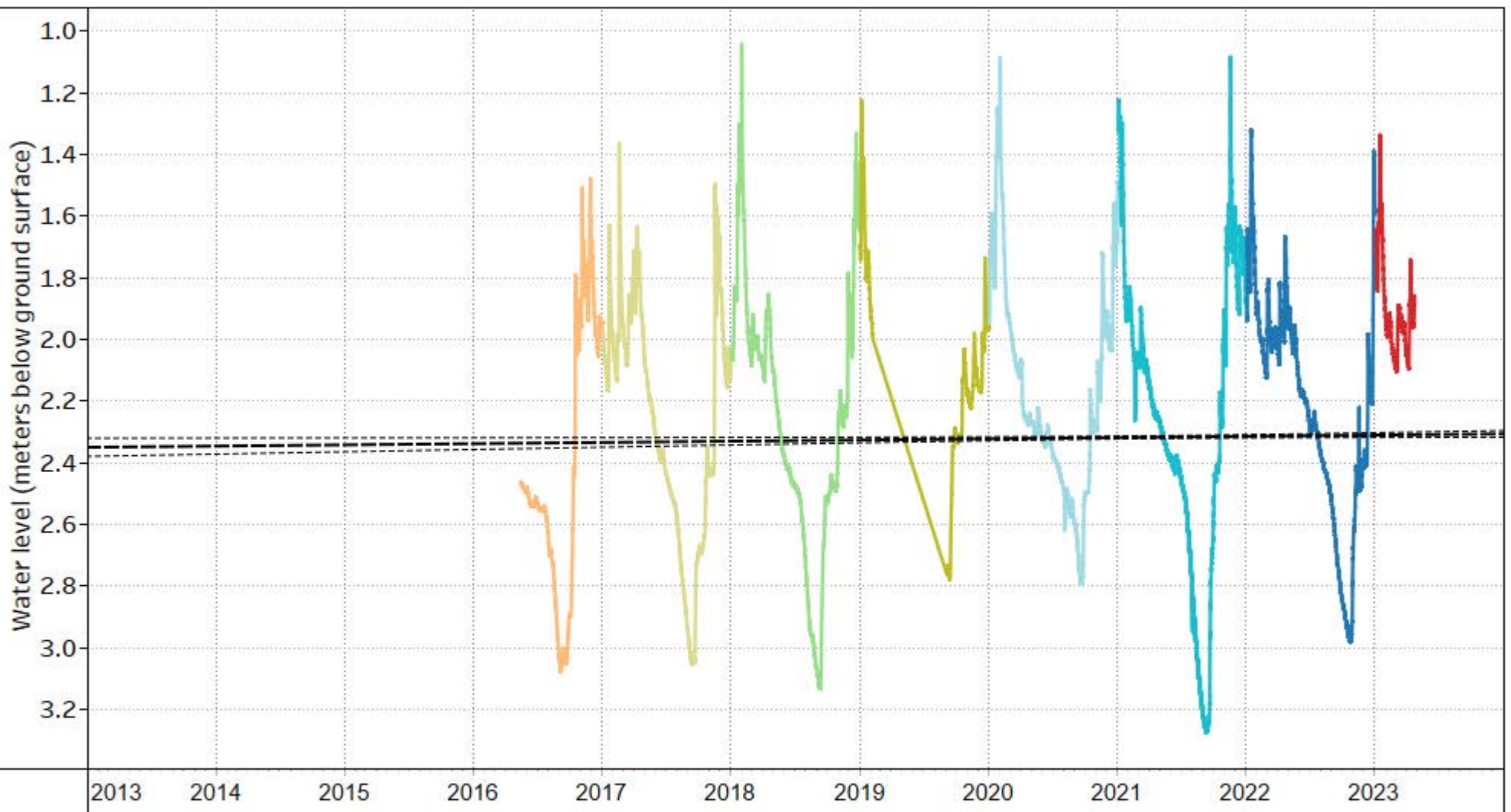
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 18 - Middlegate (WR4 - Englishman River)

FIGURE 20-B



VOW 12 - Biggs (WR5 - Nanoose to South Wellington) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
167 (Confined sand and
gravel - glacial)

YEAR

- | | |
|--------|--------|
| ■ 2023 | ■ 2019 |
| ■ 2022 | ■ 2018 |
| ■ 2021 | ■ 2017 |
| ■ 2020 | ■ 2016 |

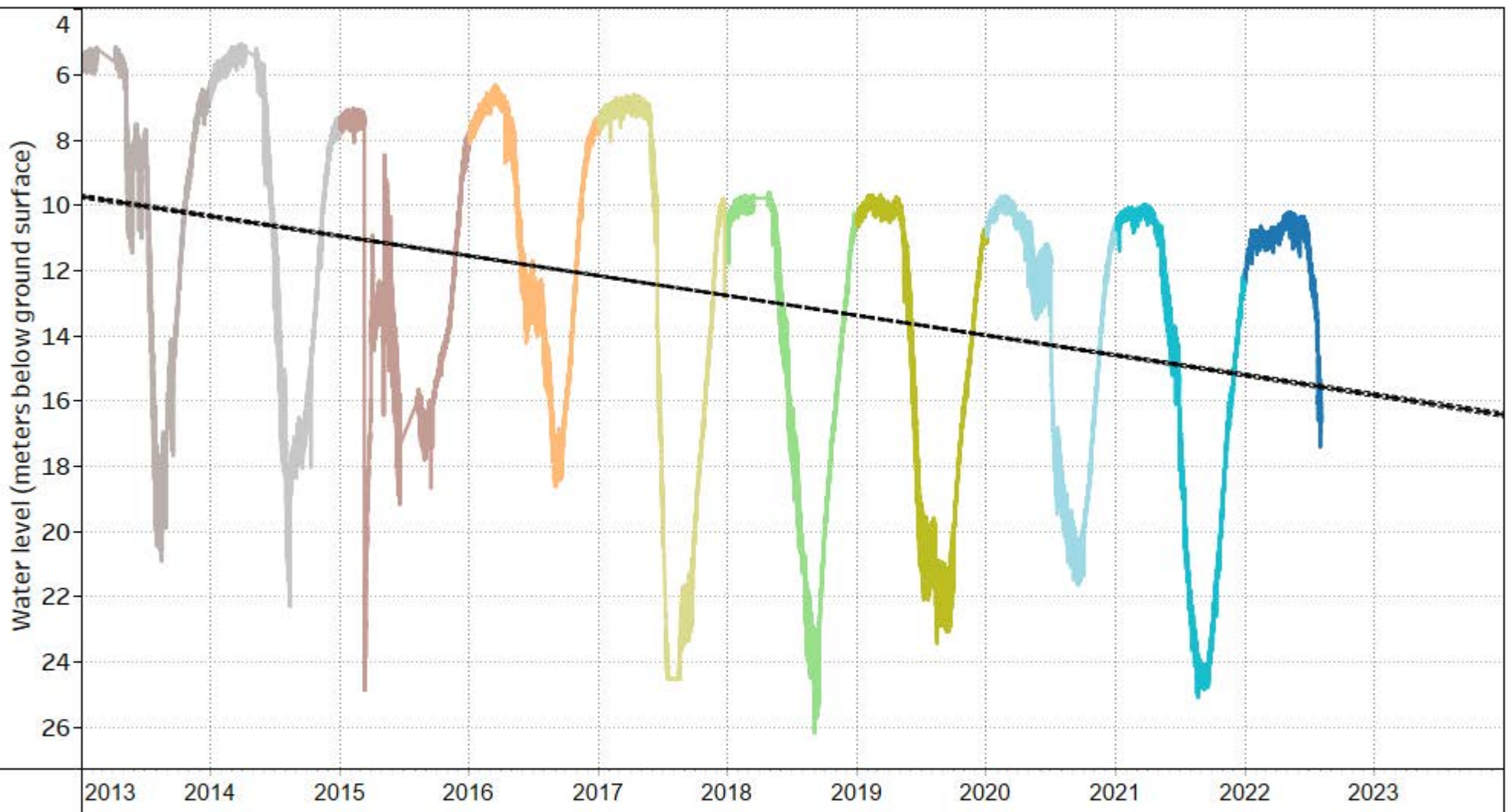
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 12 - Biggs (WR5 - Nanoose to South Wellington)

FIGURE 21-B



OW 388 (WR5 - Nanoose to South Wellington) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
211 (Fractured crystalline
bedrock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

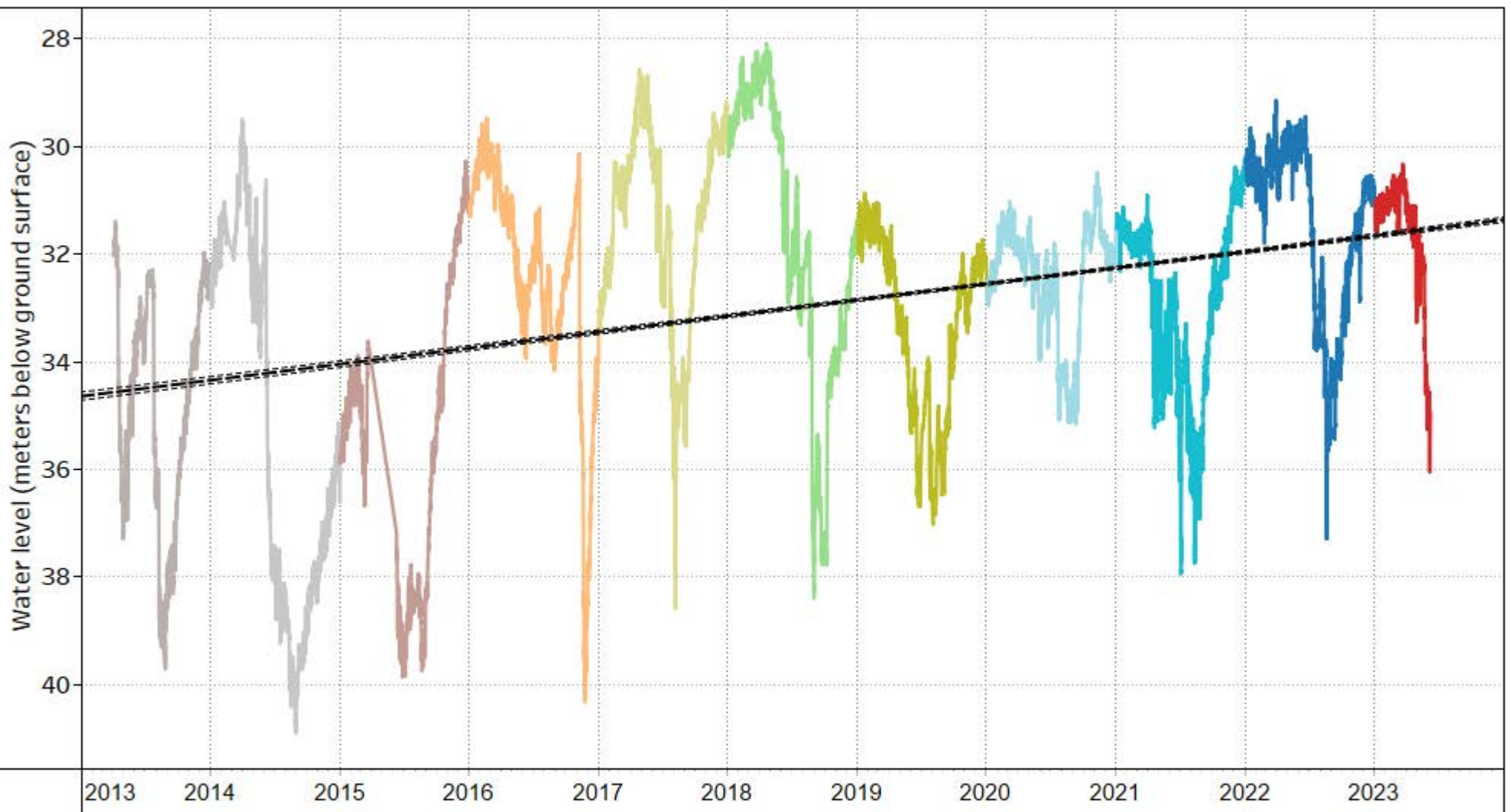
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 388 (WR5 - Nanoose to South Wellington)

FIGURE 22-B



VOW 02 - Northwind (WR5 - Nanoose to South Wellington) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

■ 2023	■ 2019	■ 2015
■ 2022	■ 2018	■ 2014
■ 2021	■ 2017	■ 2013
■ 2020	■ 2016	

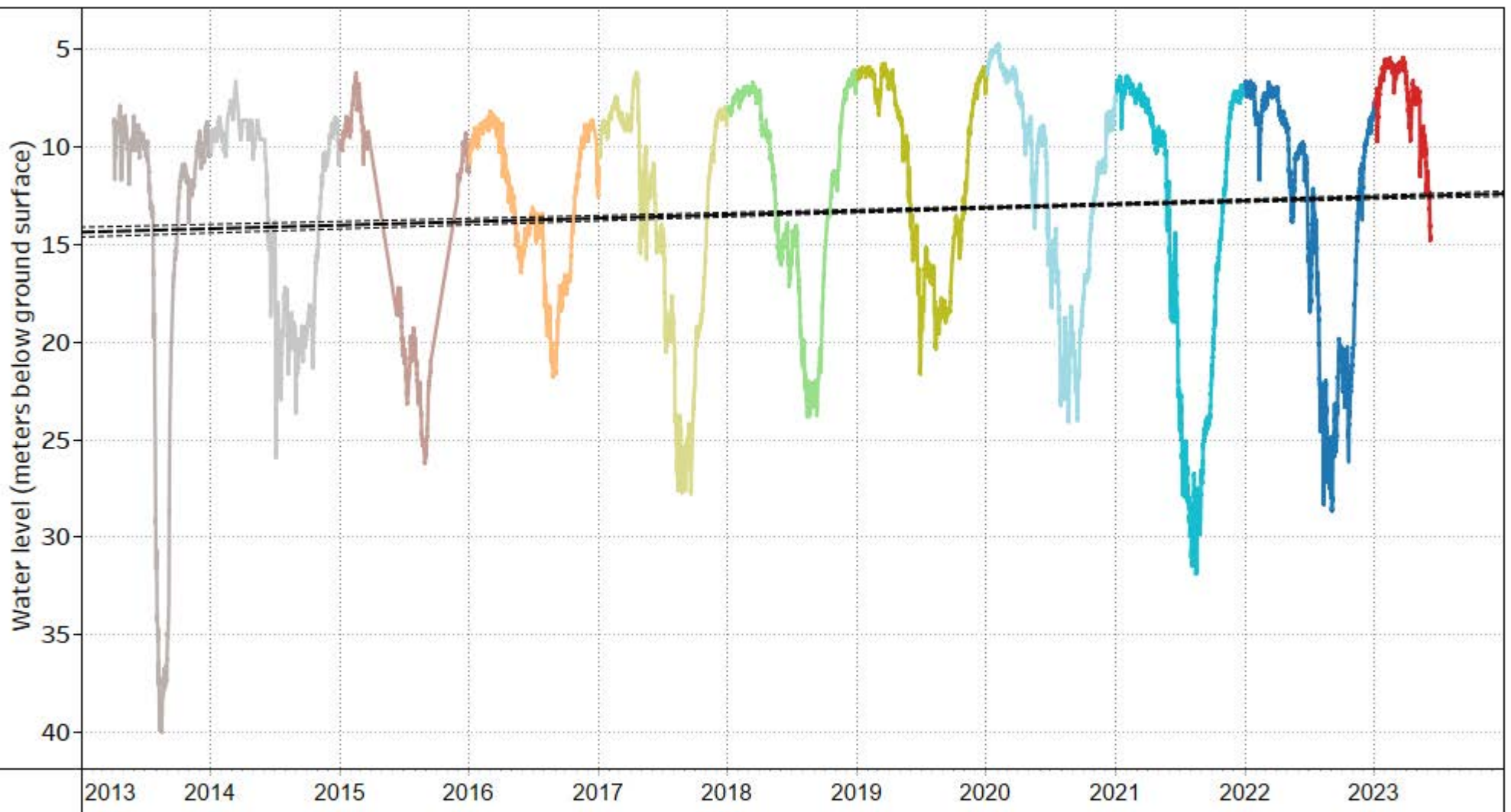
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 02 - Northwind (WR5 - Nanoose to South Wellington)

FIGURE 23-B



VOW 03 - Elm (WR5 - Nanoose to South Wellington) Linear Trend Static Water Level



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

2023	2019	2015
2022	2018	2014
2021	2017	2013
2020	2016	

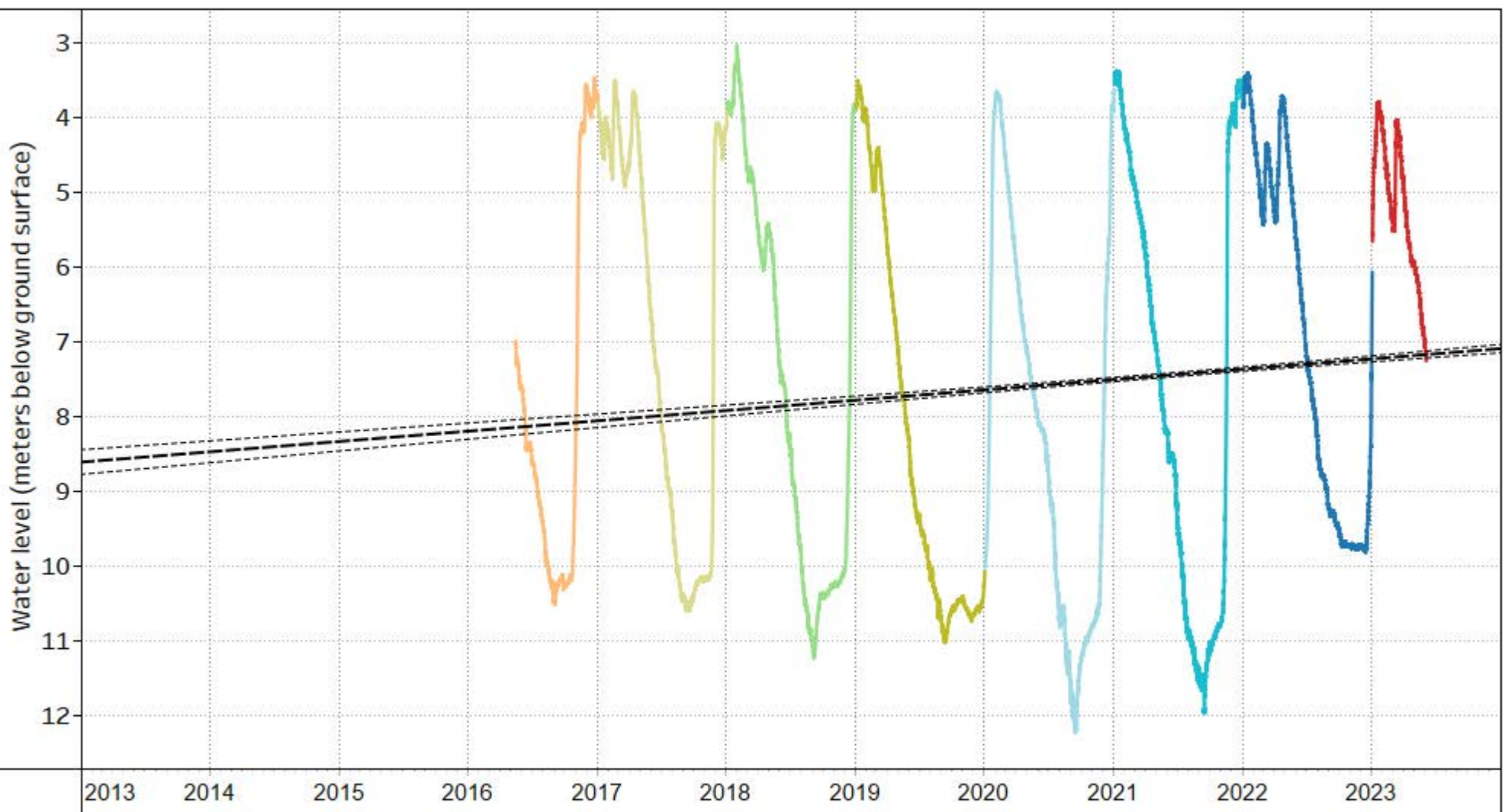
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 03 - Elm (WR5 - Nanoose to South Wellington)

FIGURE 24-B



VOW 13 - Sea Blush (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | 2016 |

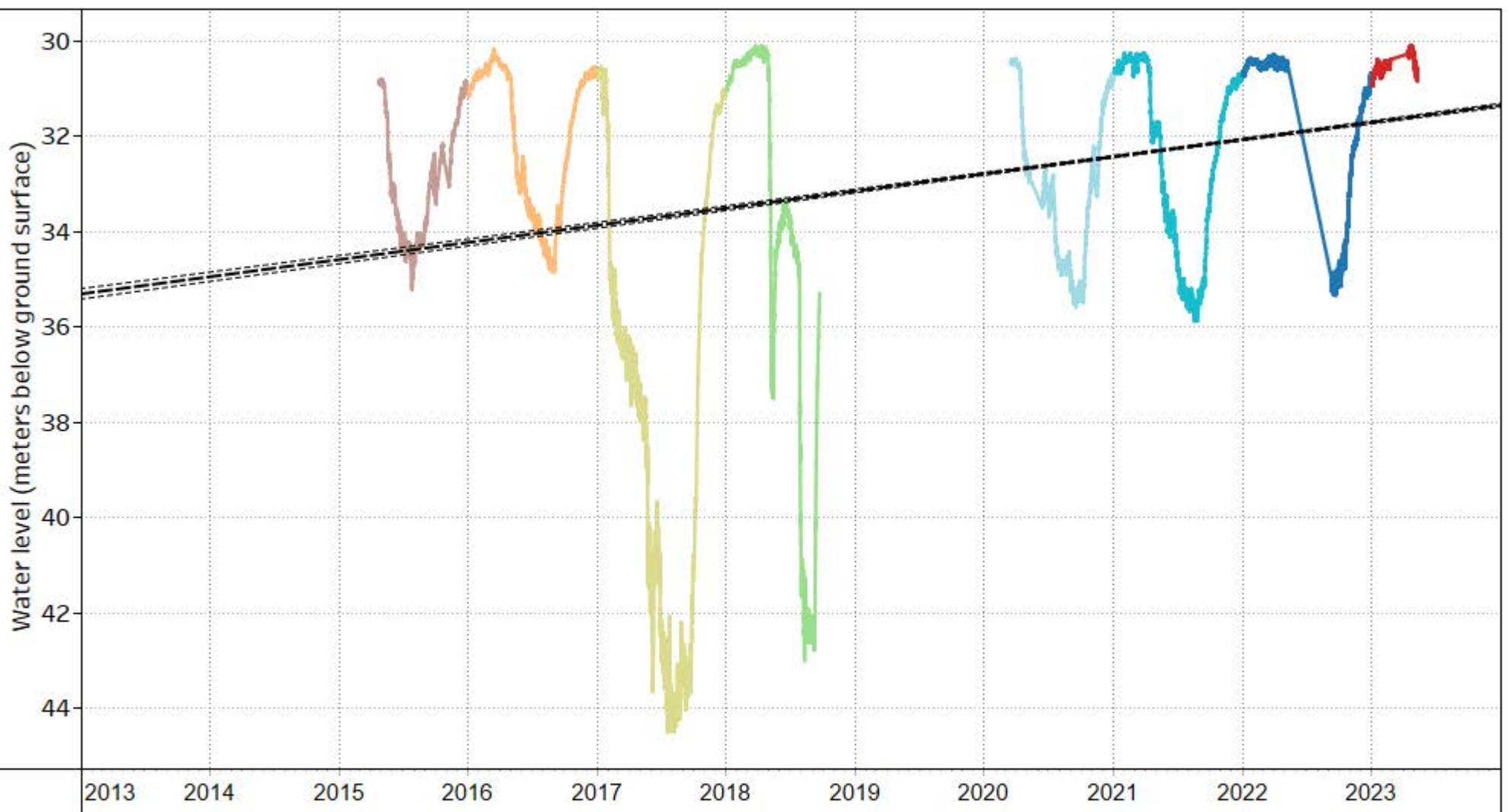
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 13 - Sea Blush (WR5 - Nanoose to South Wellington)

FIGURE 25-B



VOW 30 - B2 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | |
|------|------|
| 2023 | 2018 |
| 2022 | 2017 |
| 2021 | 2016 |
| 2020 | 2015 |

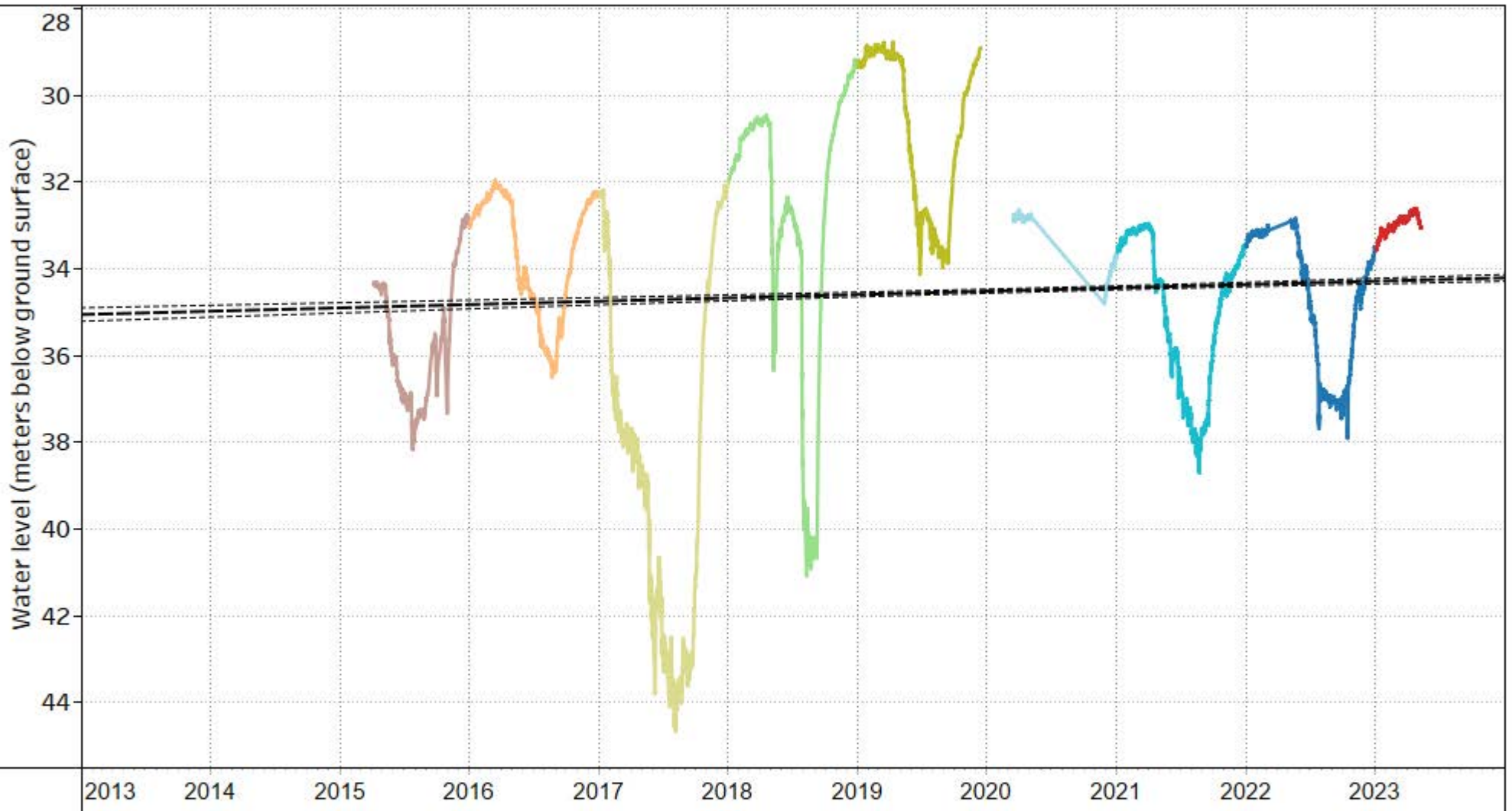
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 30 - B2 (WR5 - Nanoose to South Wellington)

FIGURE 26-B



VOW 31 - B3 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

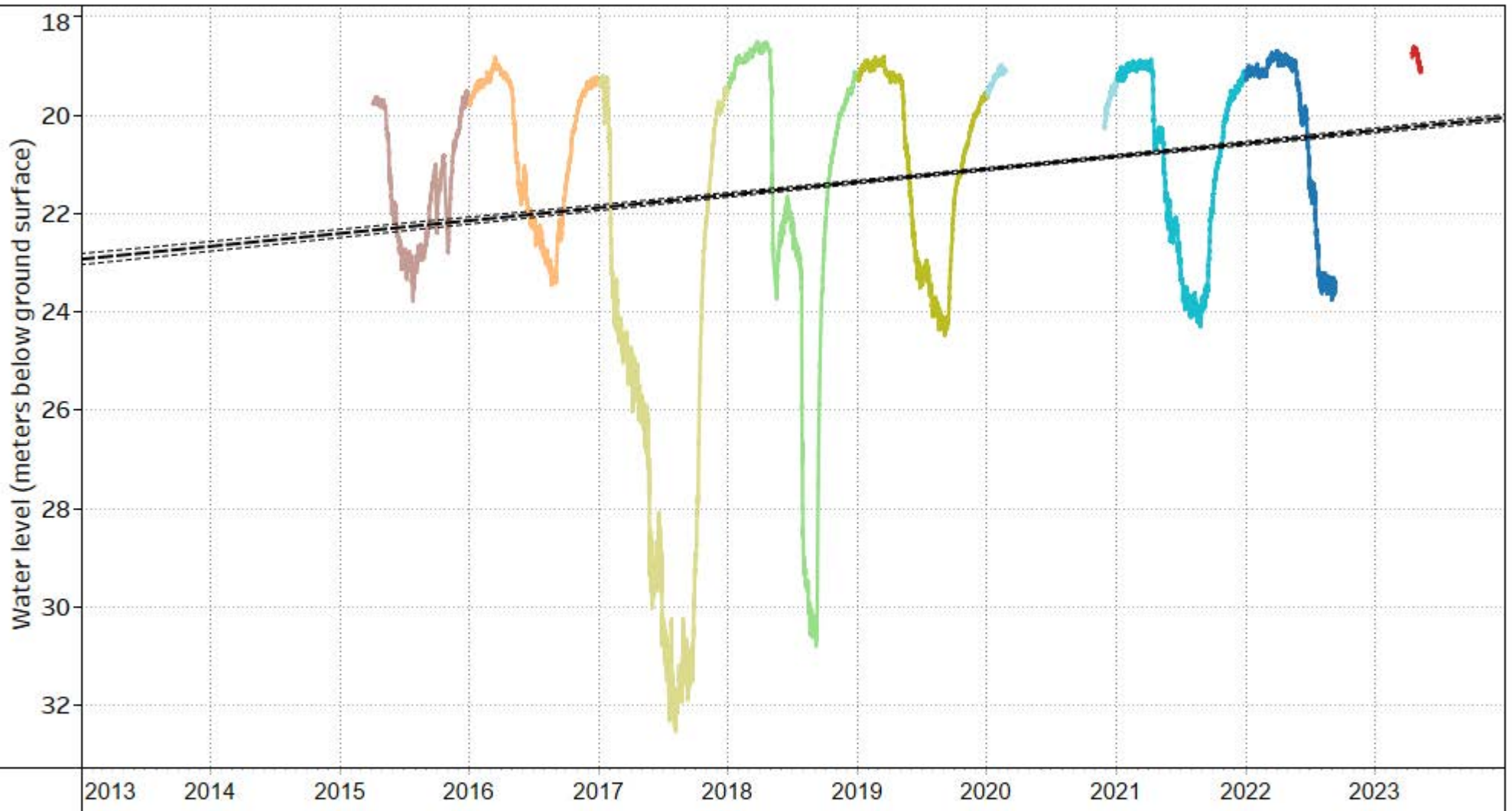
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 31 - B3 (WR5 - Nanoose to South Wellington)

FIGURE 27-B



VOW 32 - B4 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

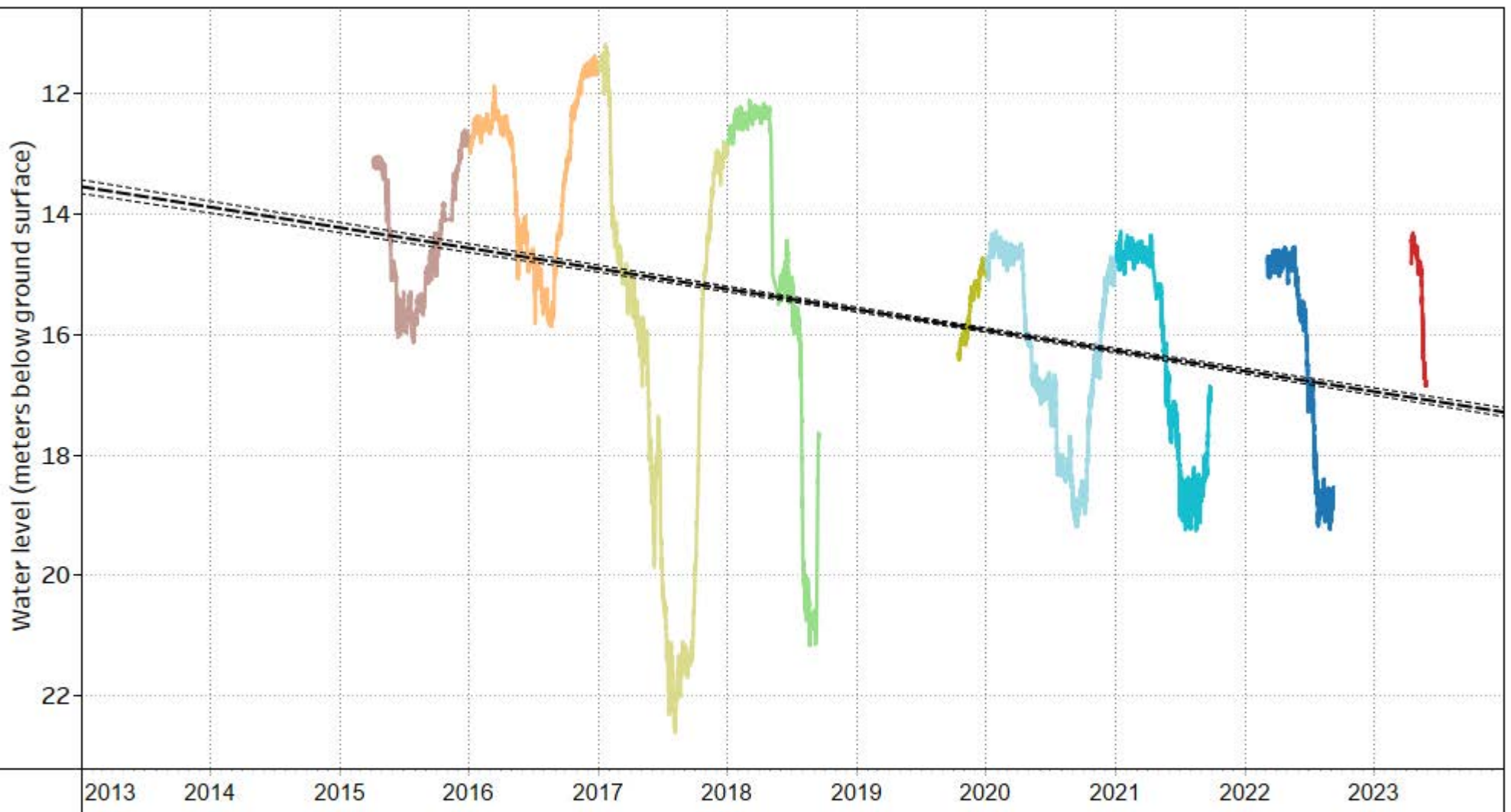
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 32 - B4 (WR5 - Nanoose to South Wellington)

FIGURE 28-B



VOW 33 - B7 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

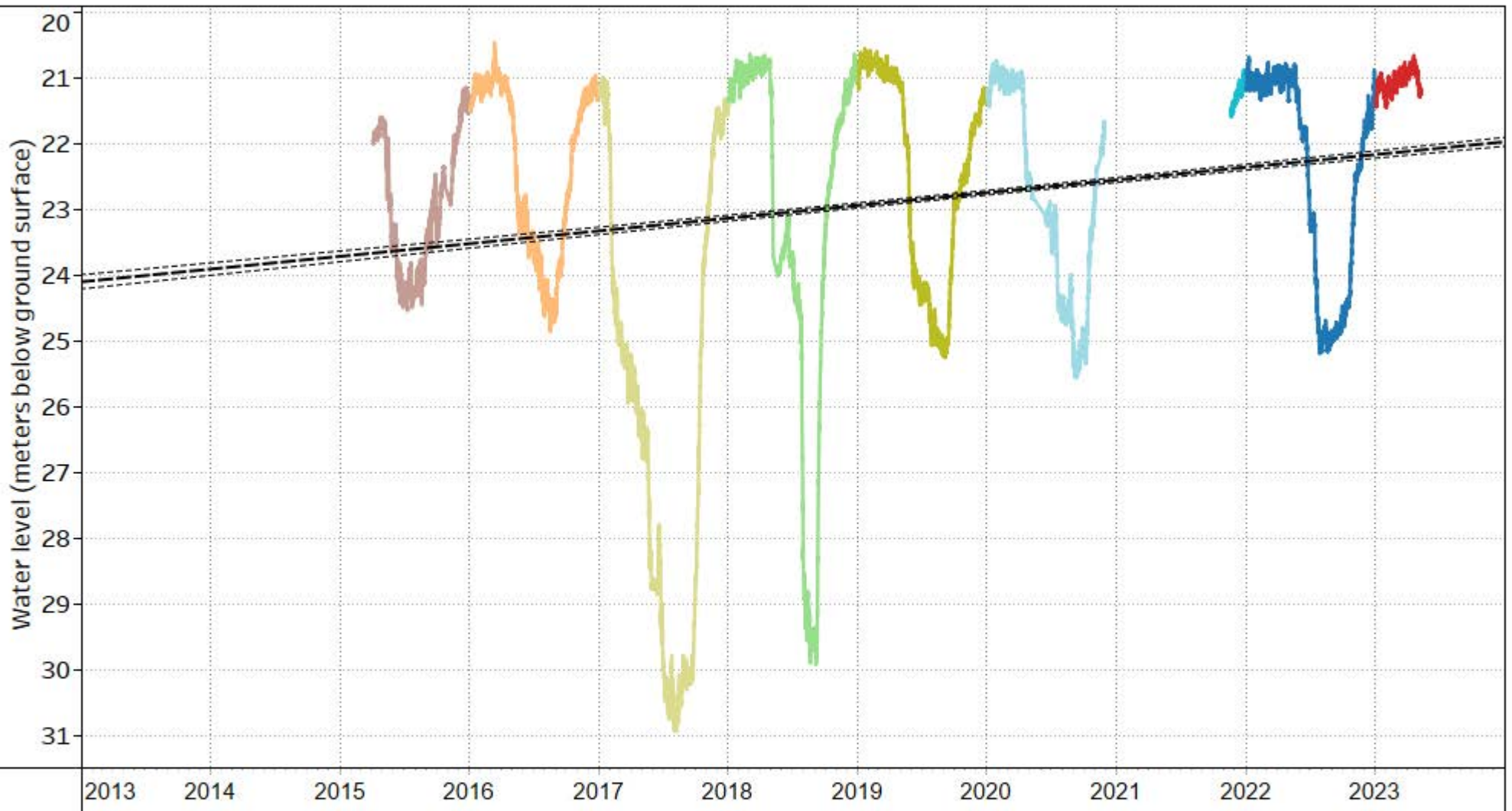
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 33 - B7 (WR5 - Nanoose to South Wellington)

FIGURE 29-B



VOW 34 - B9 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

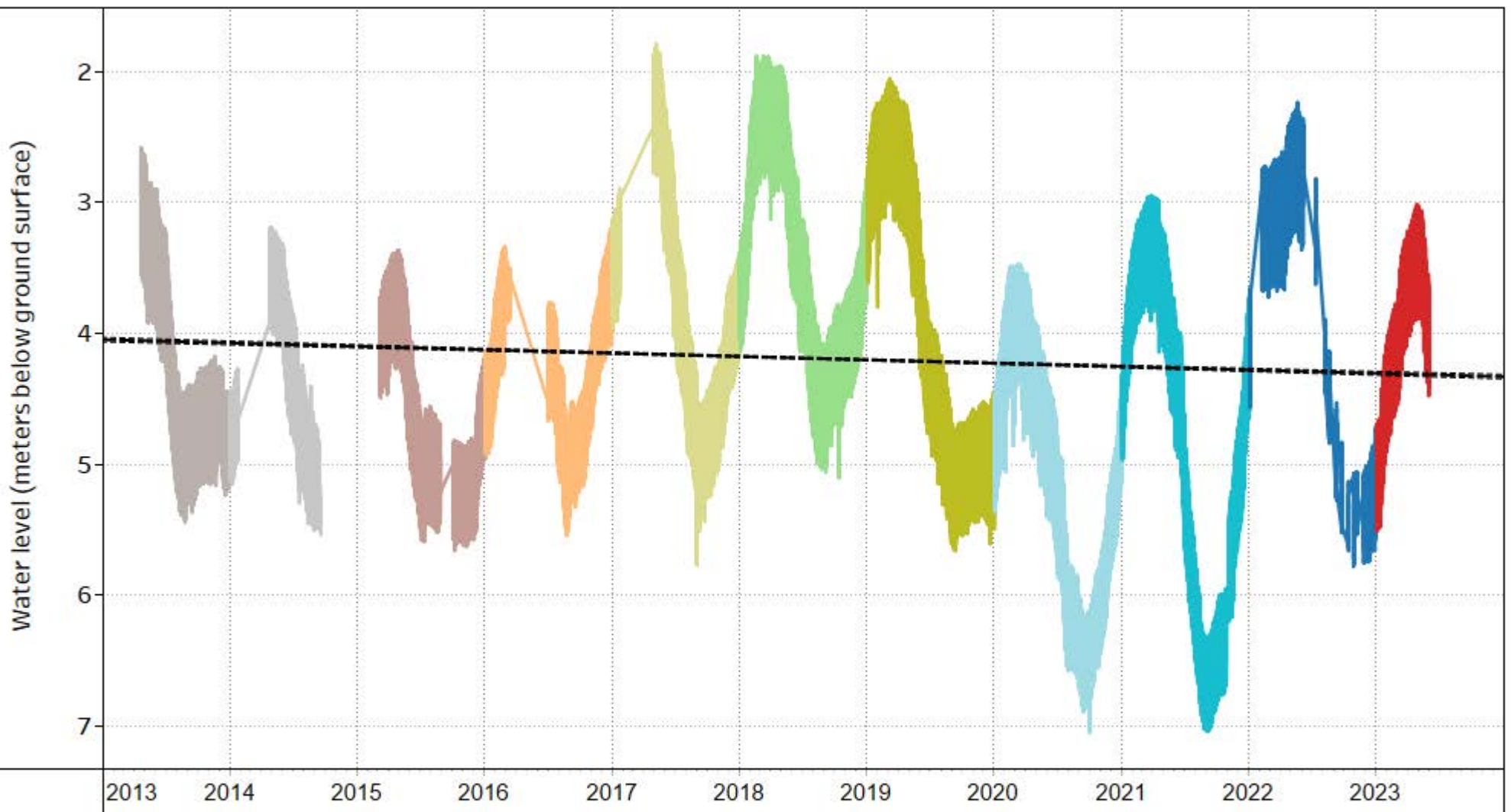
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 34 - B9 (WR5 - Nanoose to South Wellington)

FIGURE 30-B



OW 232 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

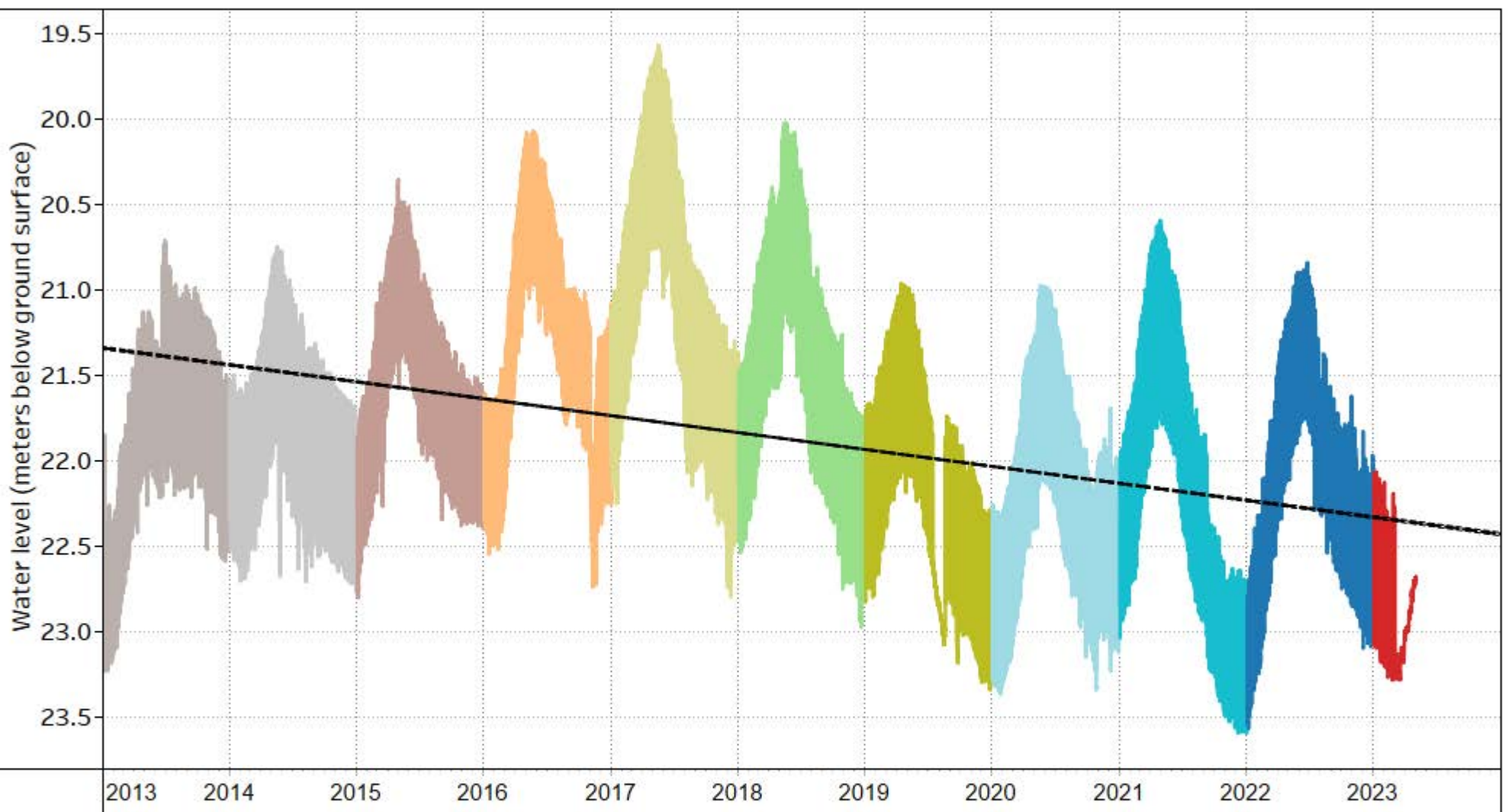
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 232 (WR5 - Nanoose to South Wellington)

FIGURE 31-B



OW 340 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

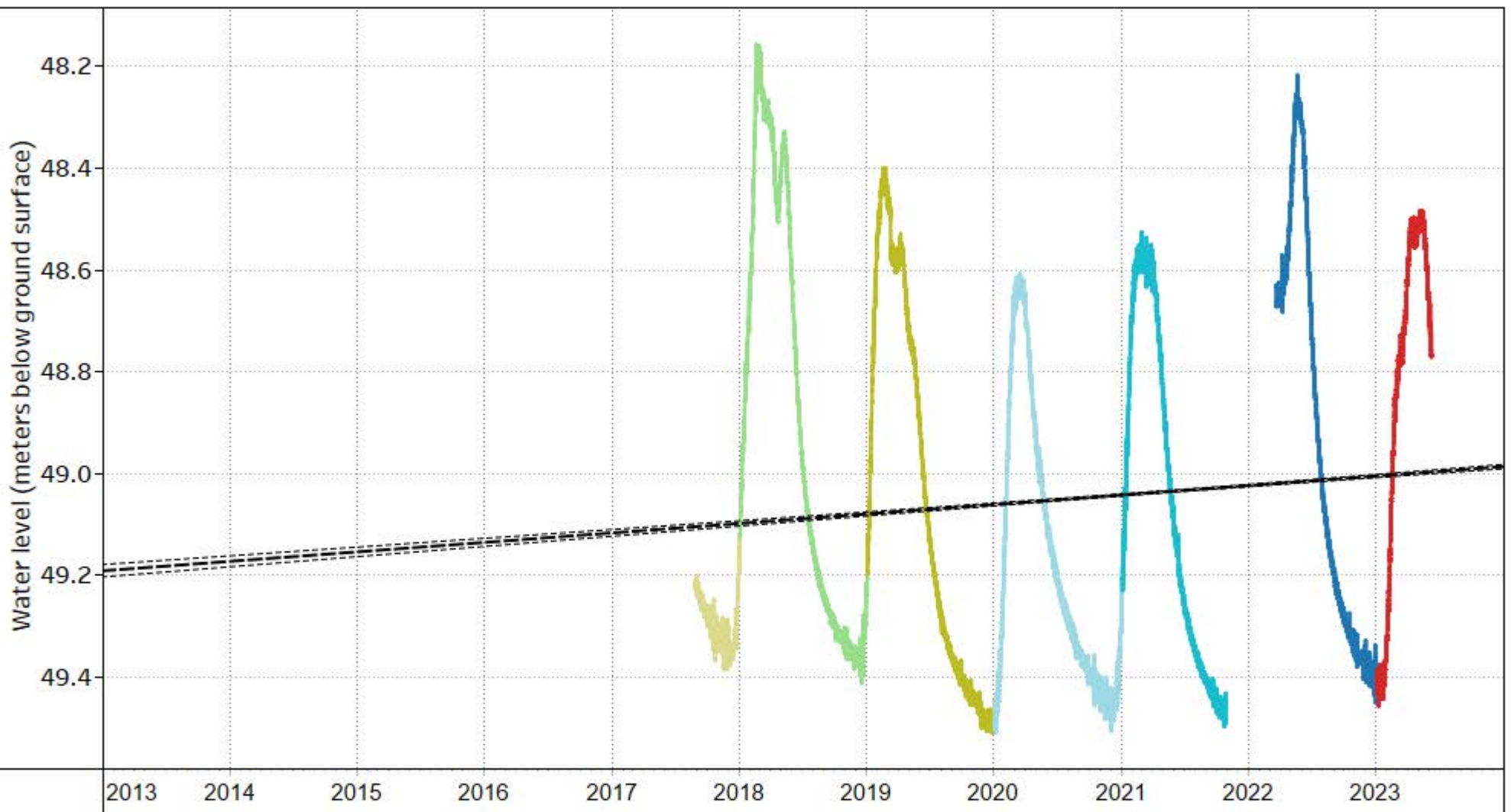
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 340 (WR5 - Nanoose to South Wellington)

FIGURE 32-B



VOW 28 - Southwind (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | |

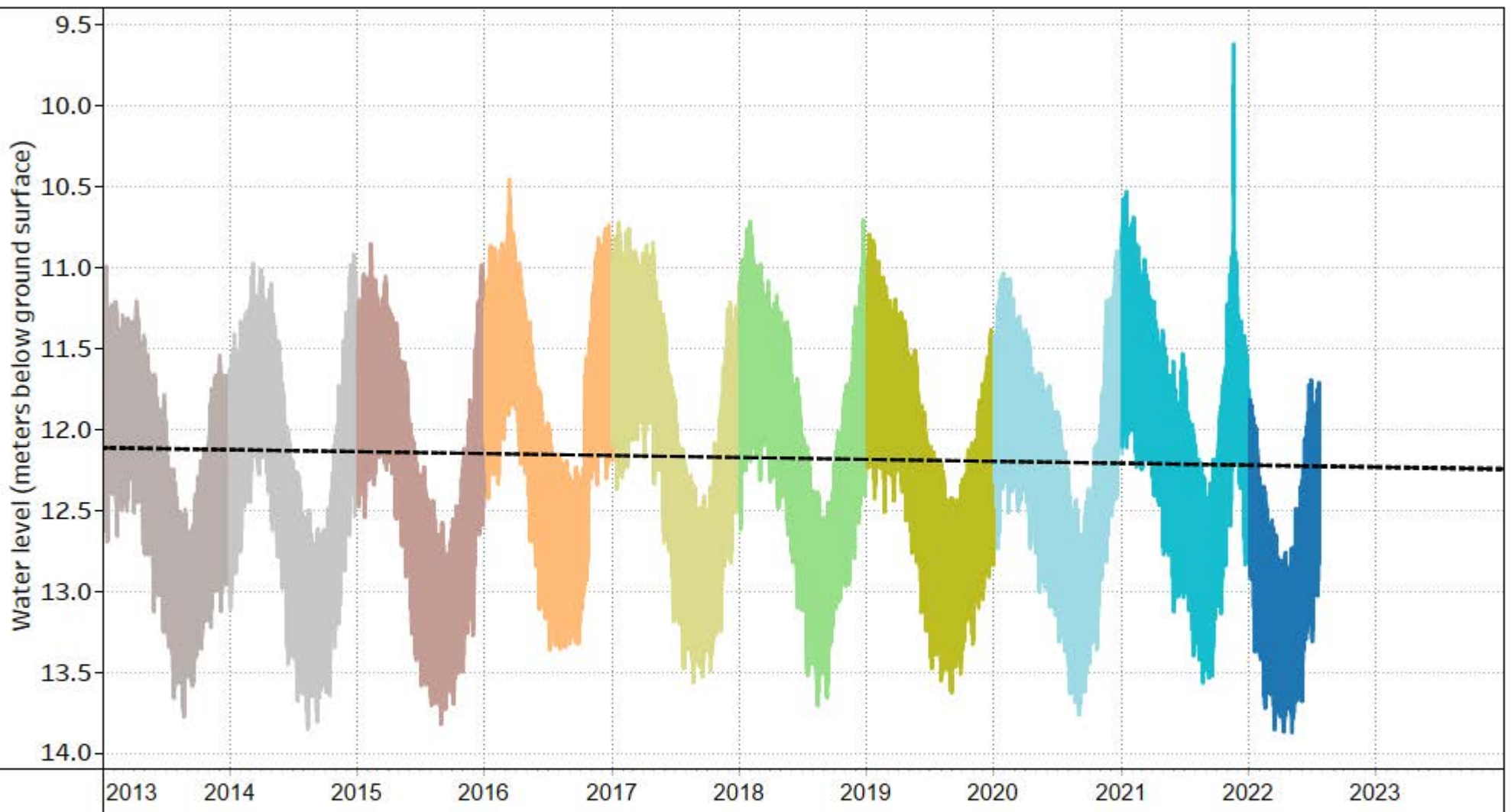
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 28 - Southwind (WR5 - Nanoose to South Wellington)

FIGURE 33-B



OW 394 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

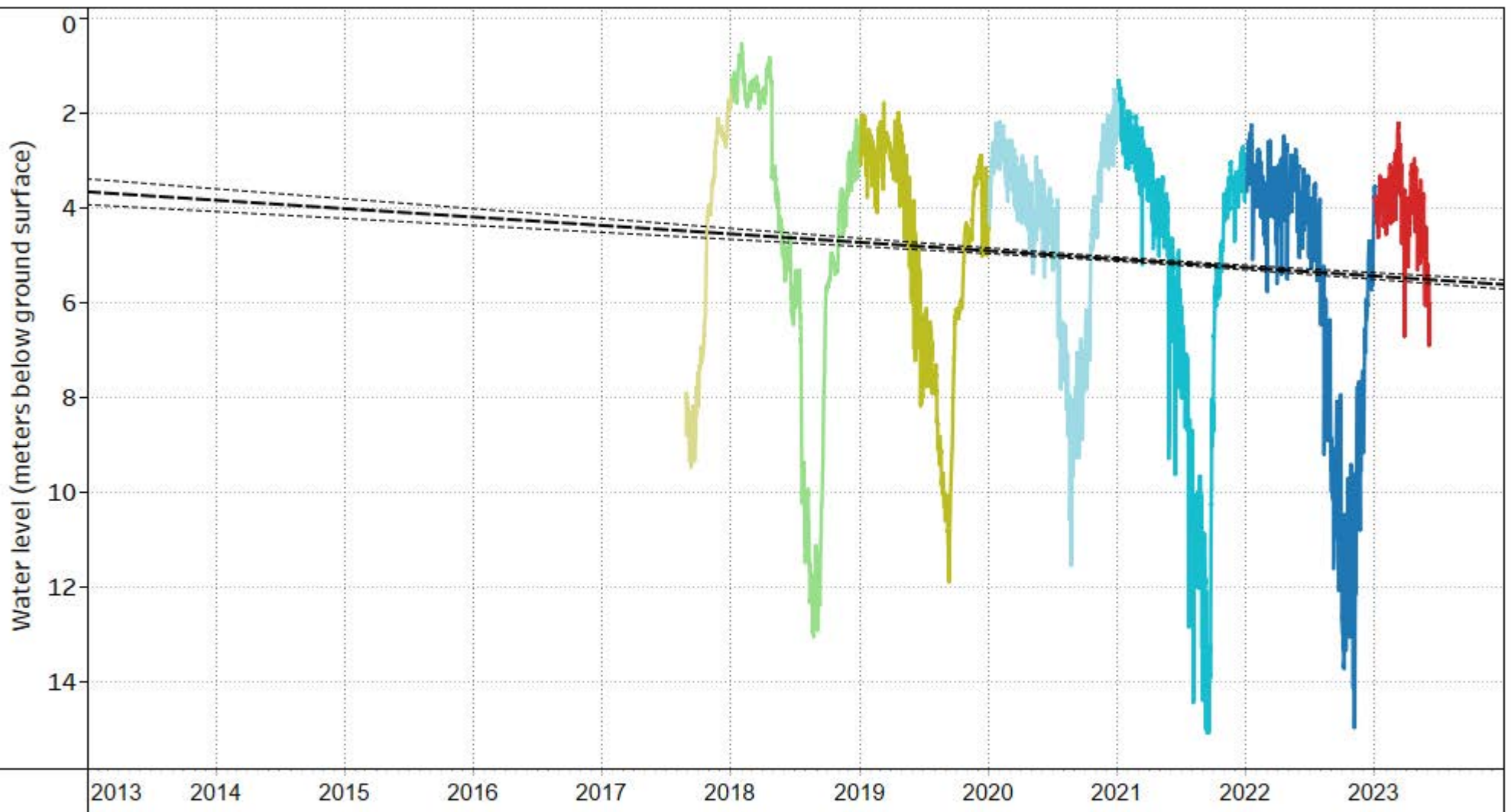
**DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023**

**HISTORICAL GROUNDWATER LEVEL CHART
OW 394 (WR5 - Nanoose to South Wellington)**

FIGURE 34-B



VOW 26 - Florence (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | |

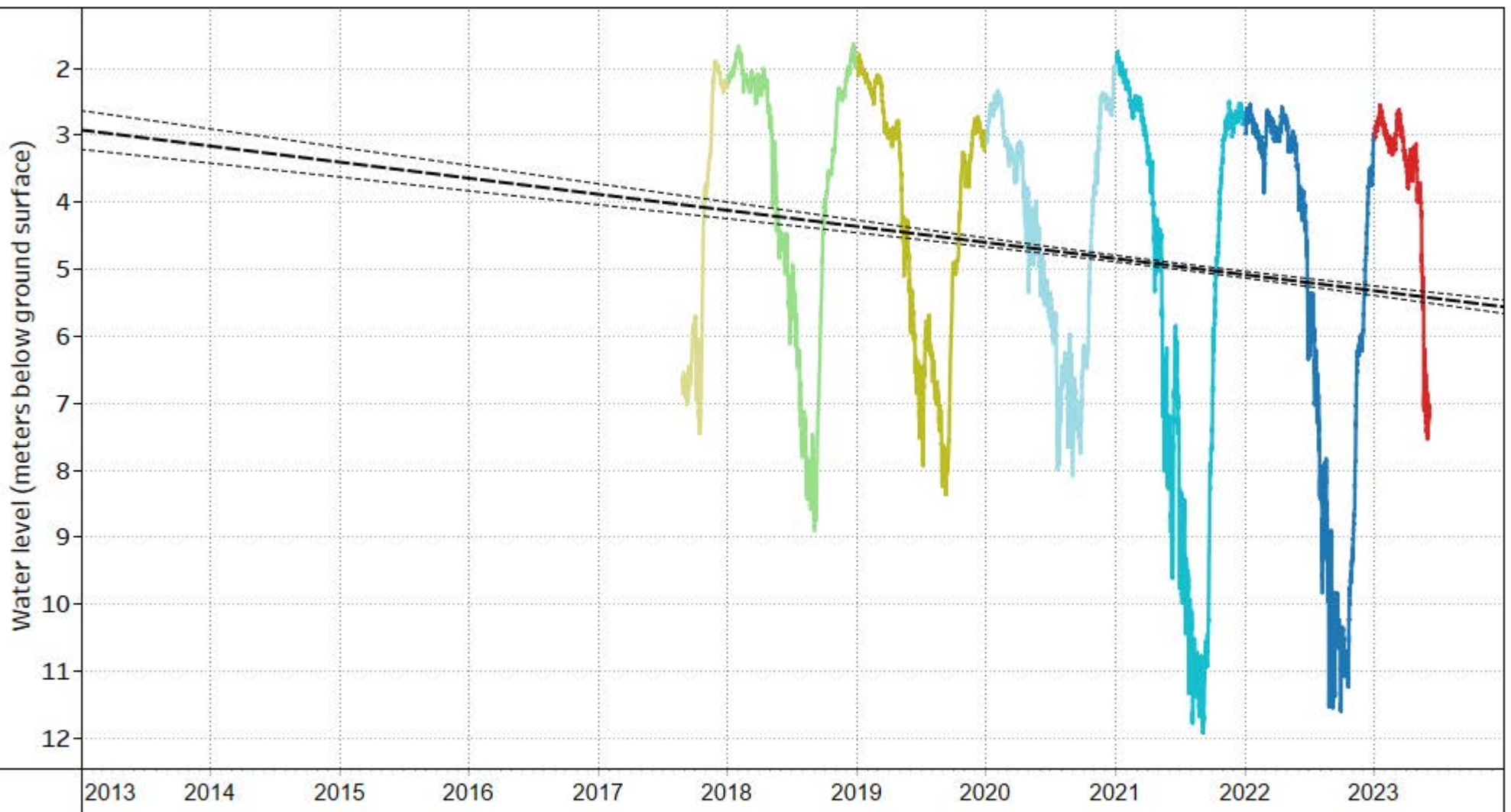
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 26 - Florence (WR5 - Nanoose to South Wellington)

FIGURE 35-B



VOW 27 - NWB (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | |

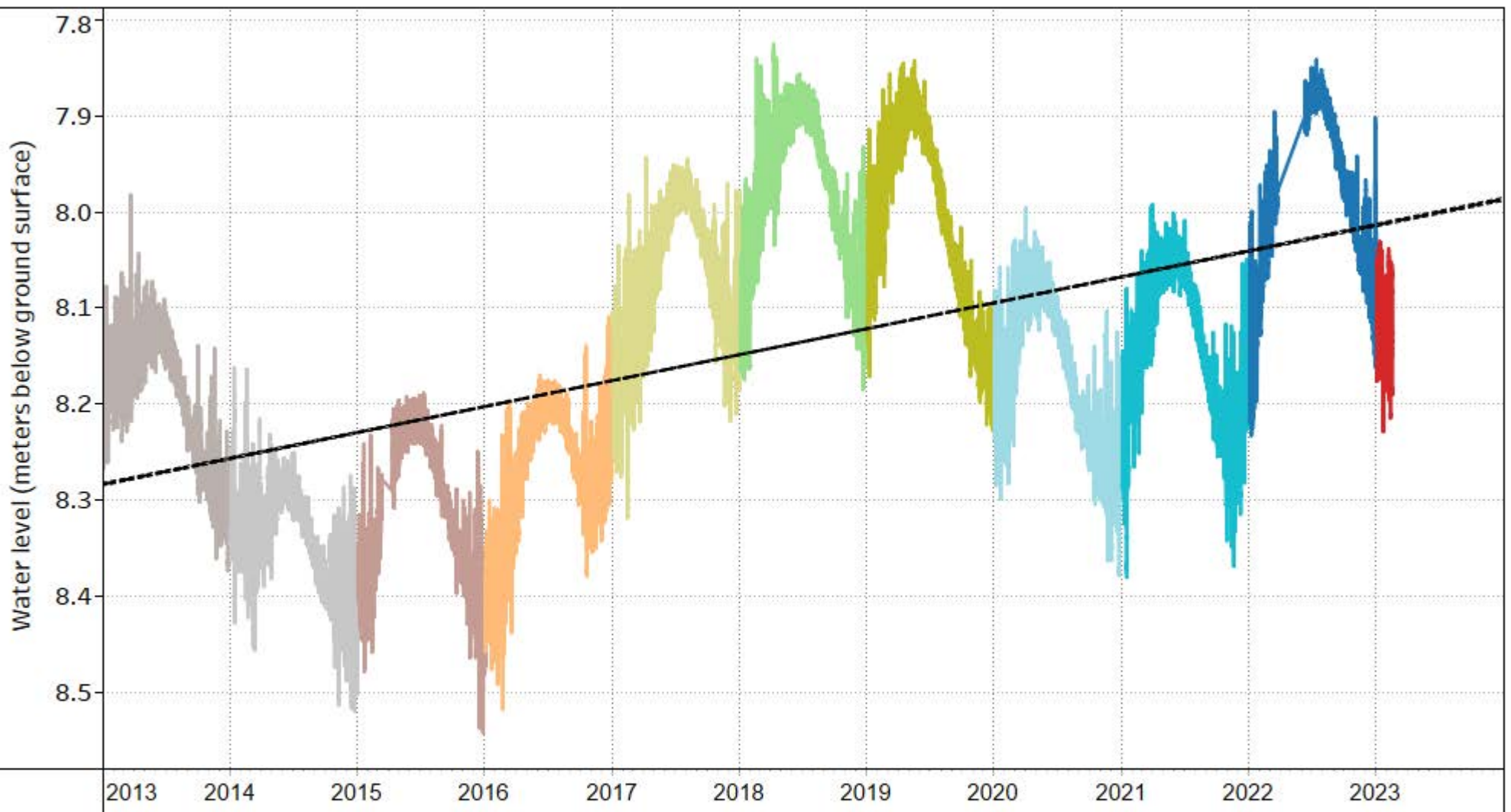
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 27 - NWB (WR5 - Nanoose to South Wellington)

FIGURE 36-B



OW 393 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

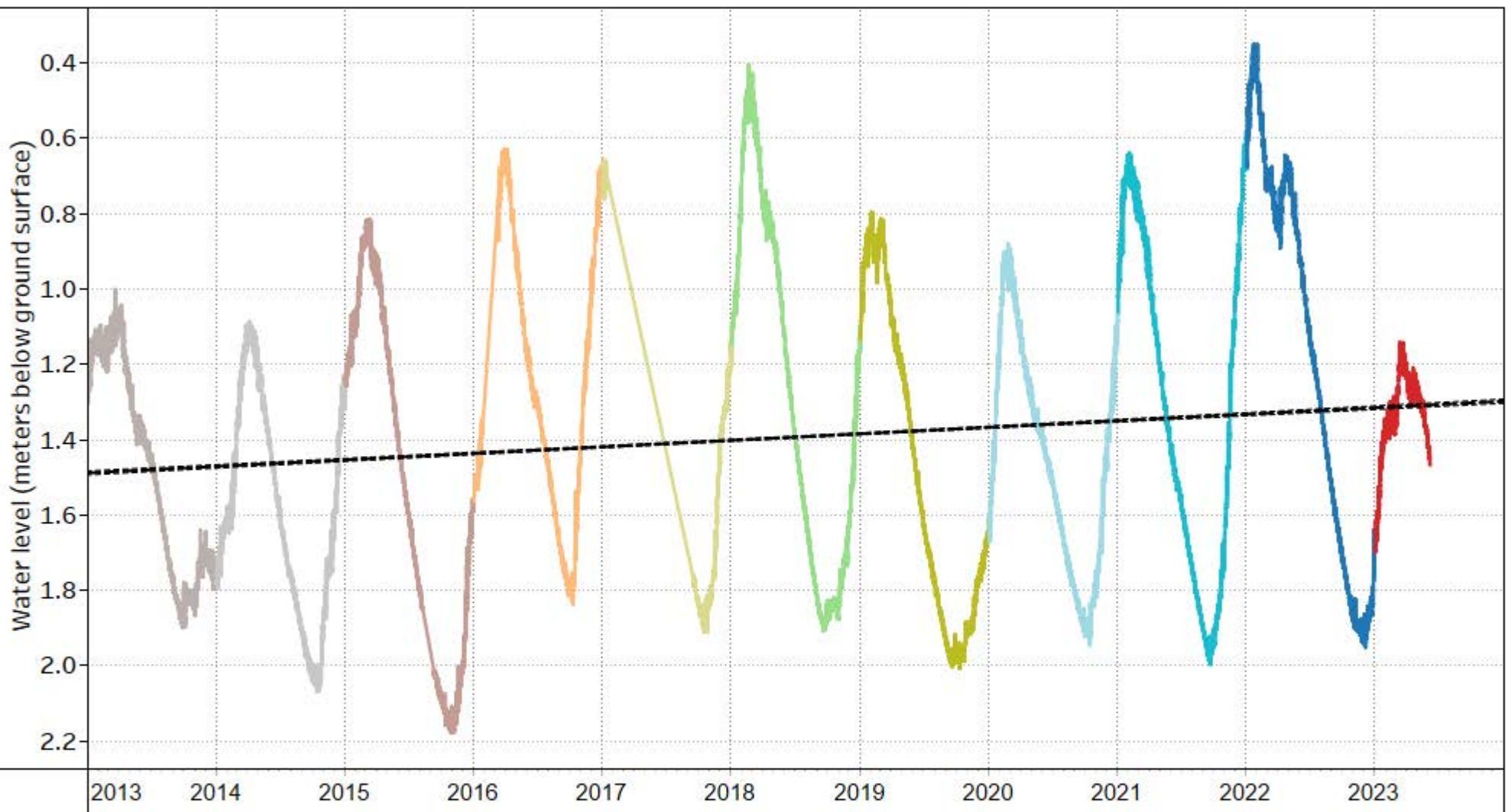
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 393 (WR5 - Nanoose to South Wellington)

FIGURE 37-B



OW 396 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

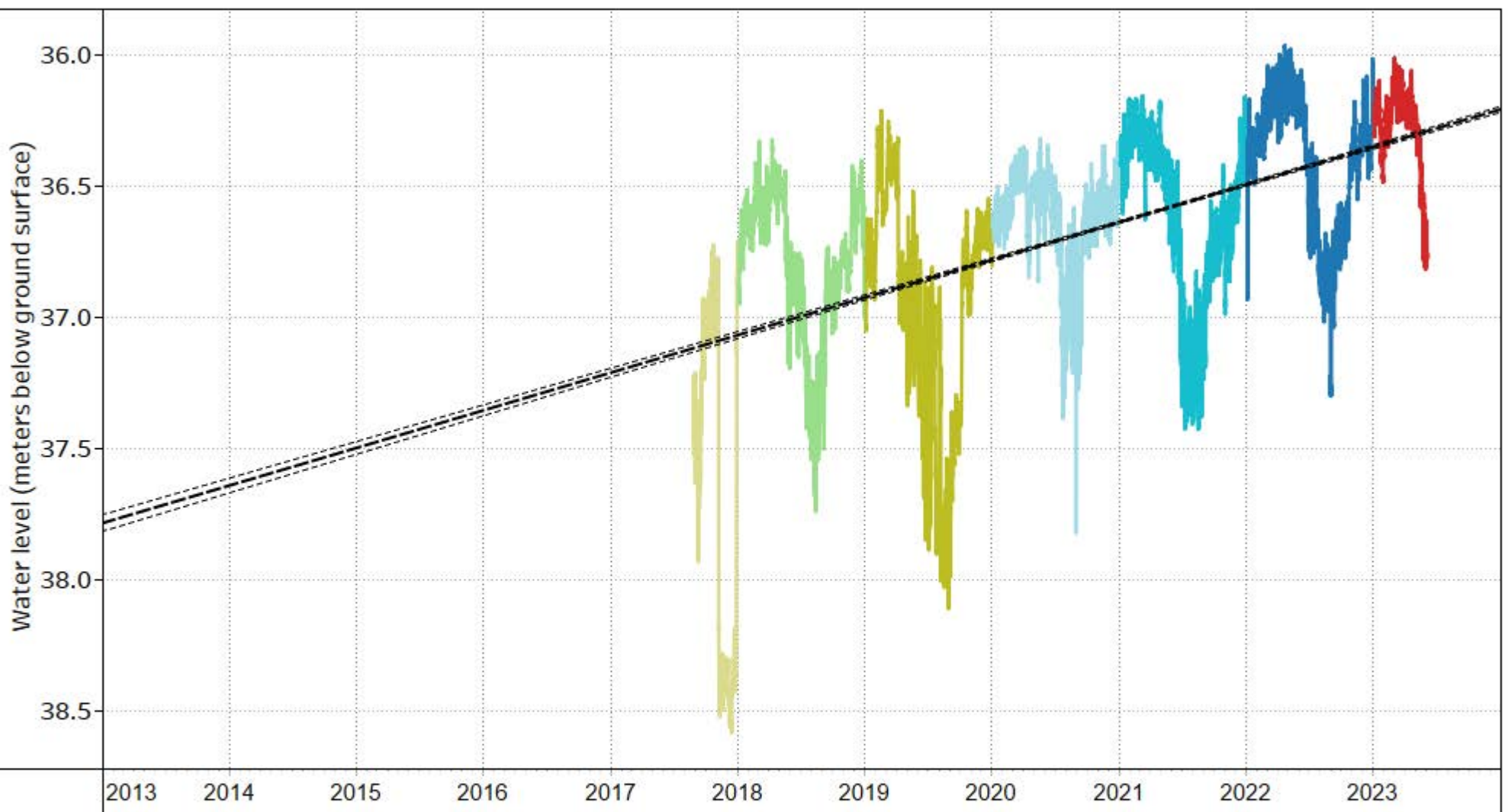
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 396 (WR5 - Nanoose to South Wellington)

FIGURE 38-B



VOW 25 - Sanders (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

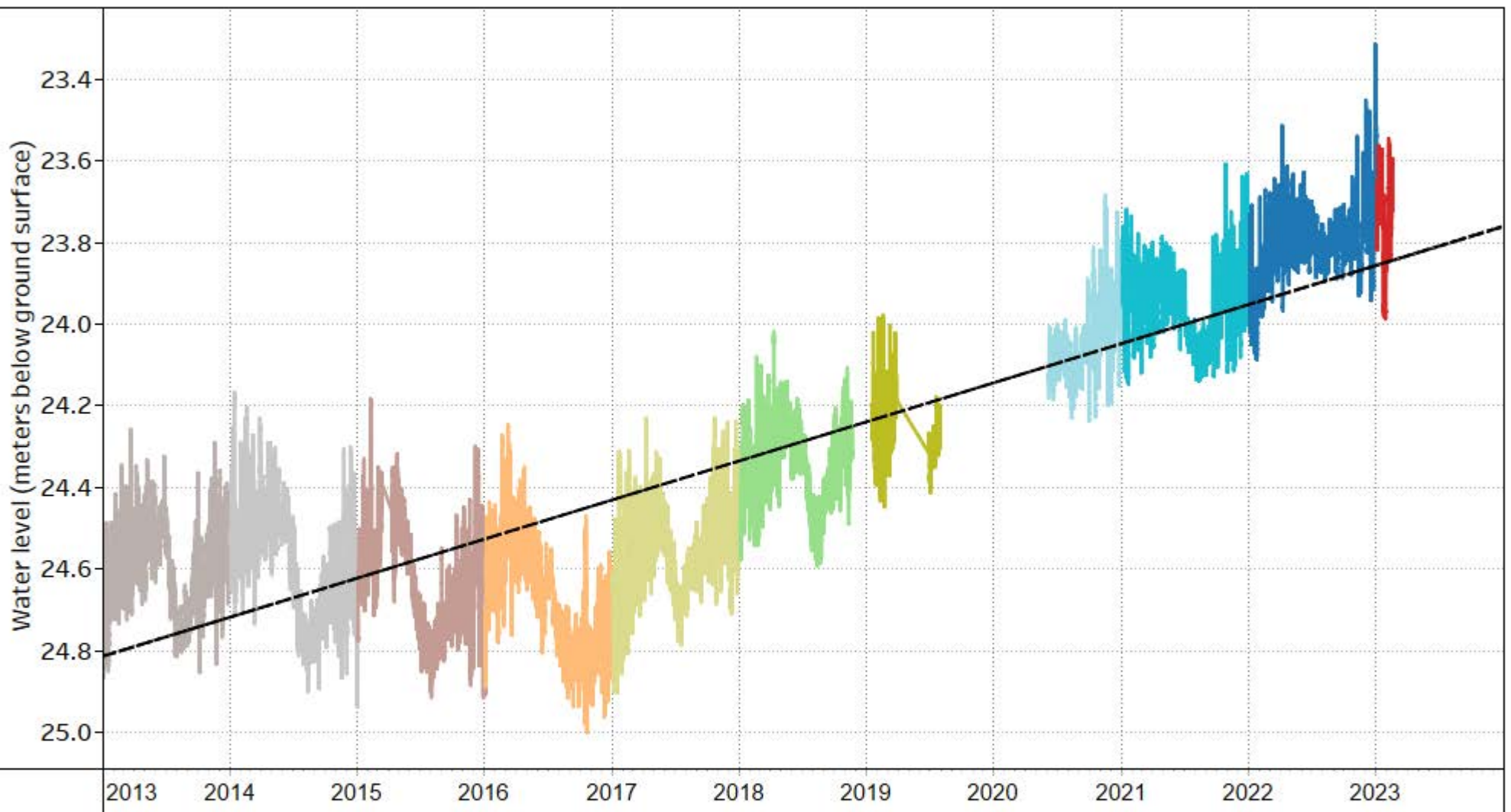
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 25 - Sanders (WR5 - Nanoose to South Wellington)

FIGURE 39-B



OW 392 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

■ 2023	■ 2019	■ 2015
■ 2022	■ 2018	■ 2014
■ 2021	■ 2017	■ 2013
■ 2020	■ 2016	

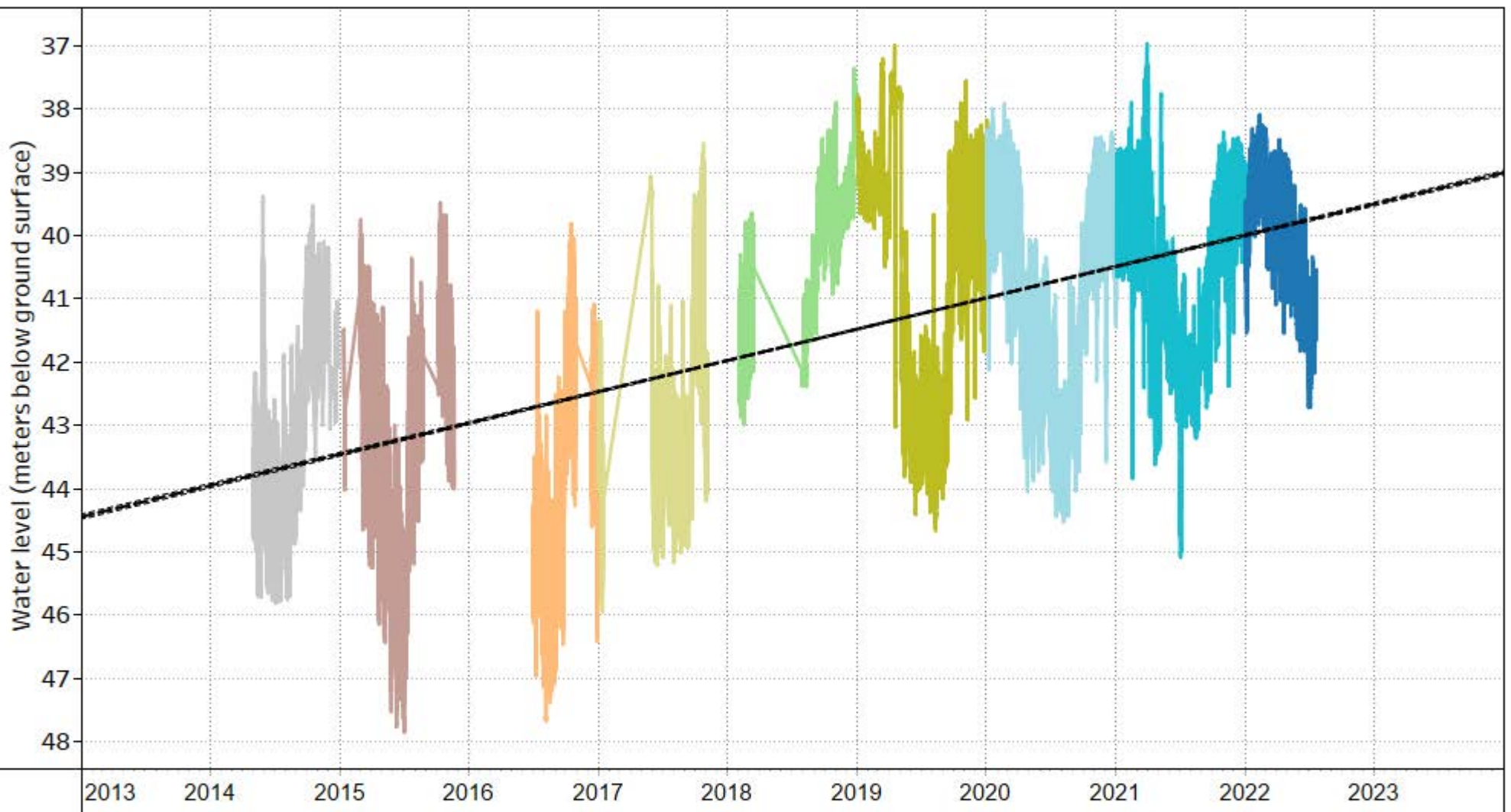
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 392 (WR5 - Nanoose to South Wellington)

FIGURE 40-B



OW 397 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

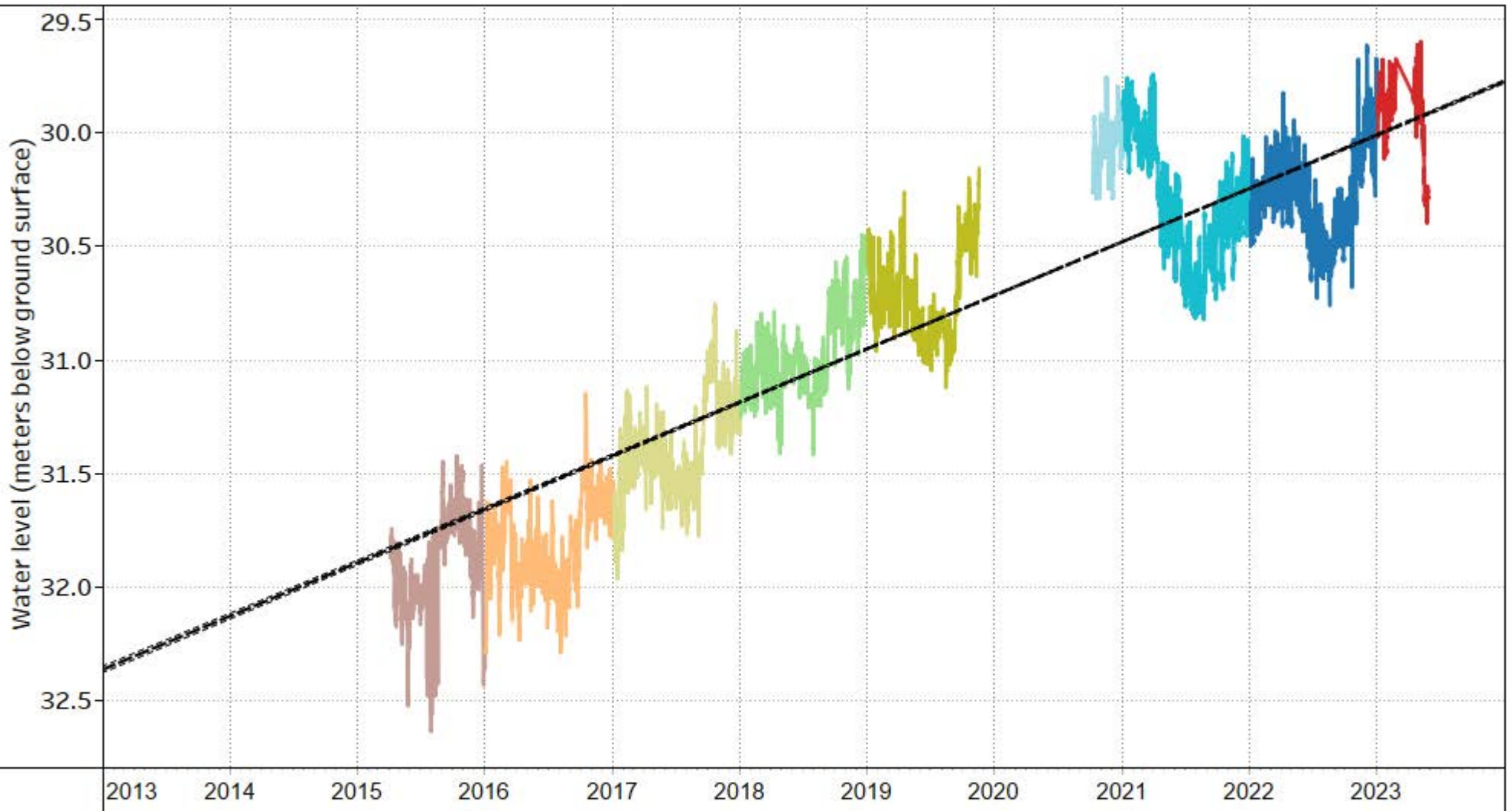
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 397 (WR5 - Nanoose to South Wellington)

FIGURE 41-B



VOW 17 - O7 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | |
| 2021 | 2017 | |
| 2020 | 2016 | |

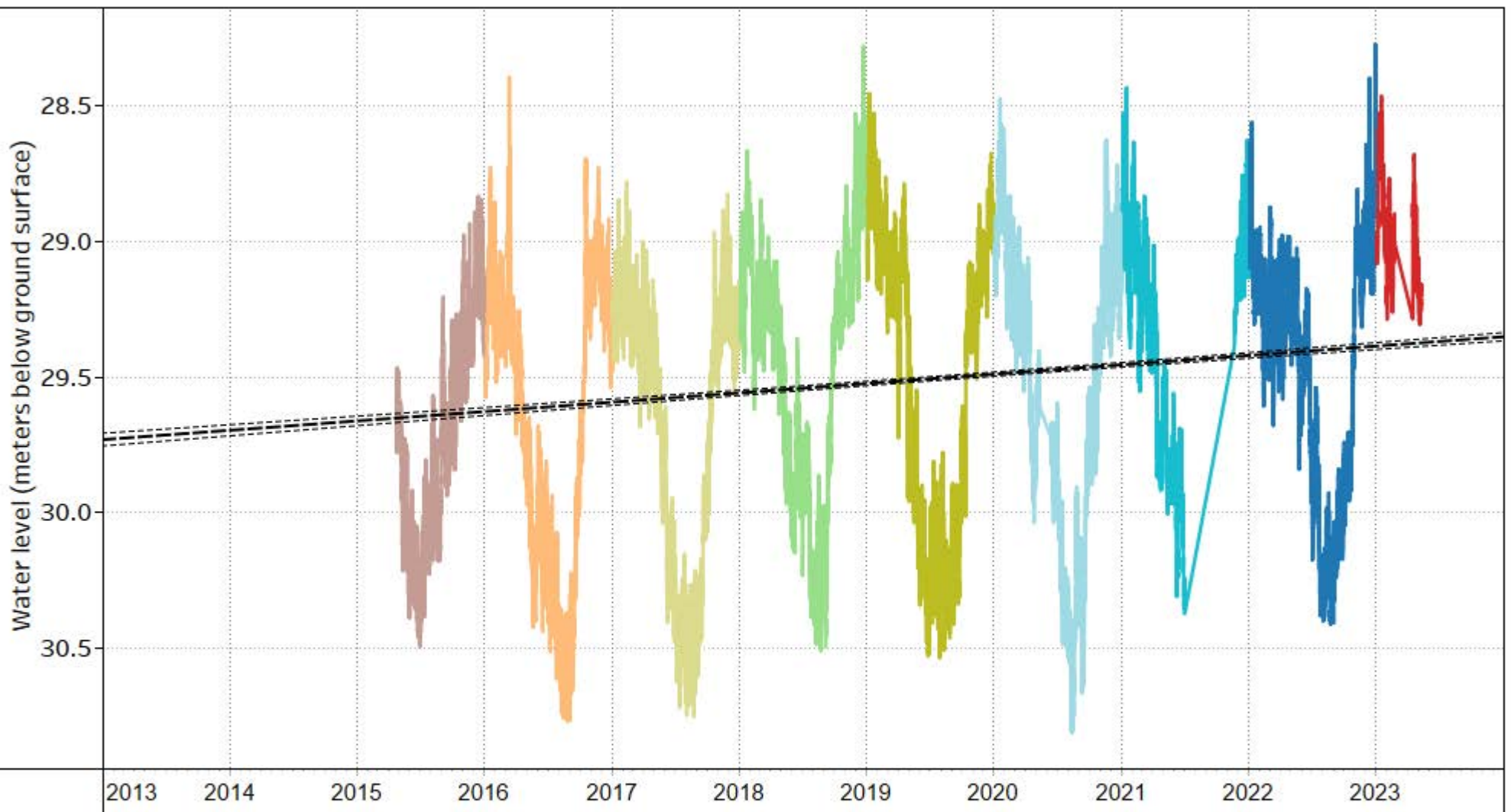
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 17 - O7 (WR5 - Nanoose to South Wellington)

FIGURE 42-B



VOW 29 - O3 (WR5 - Nanoose to South Wellington) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

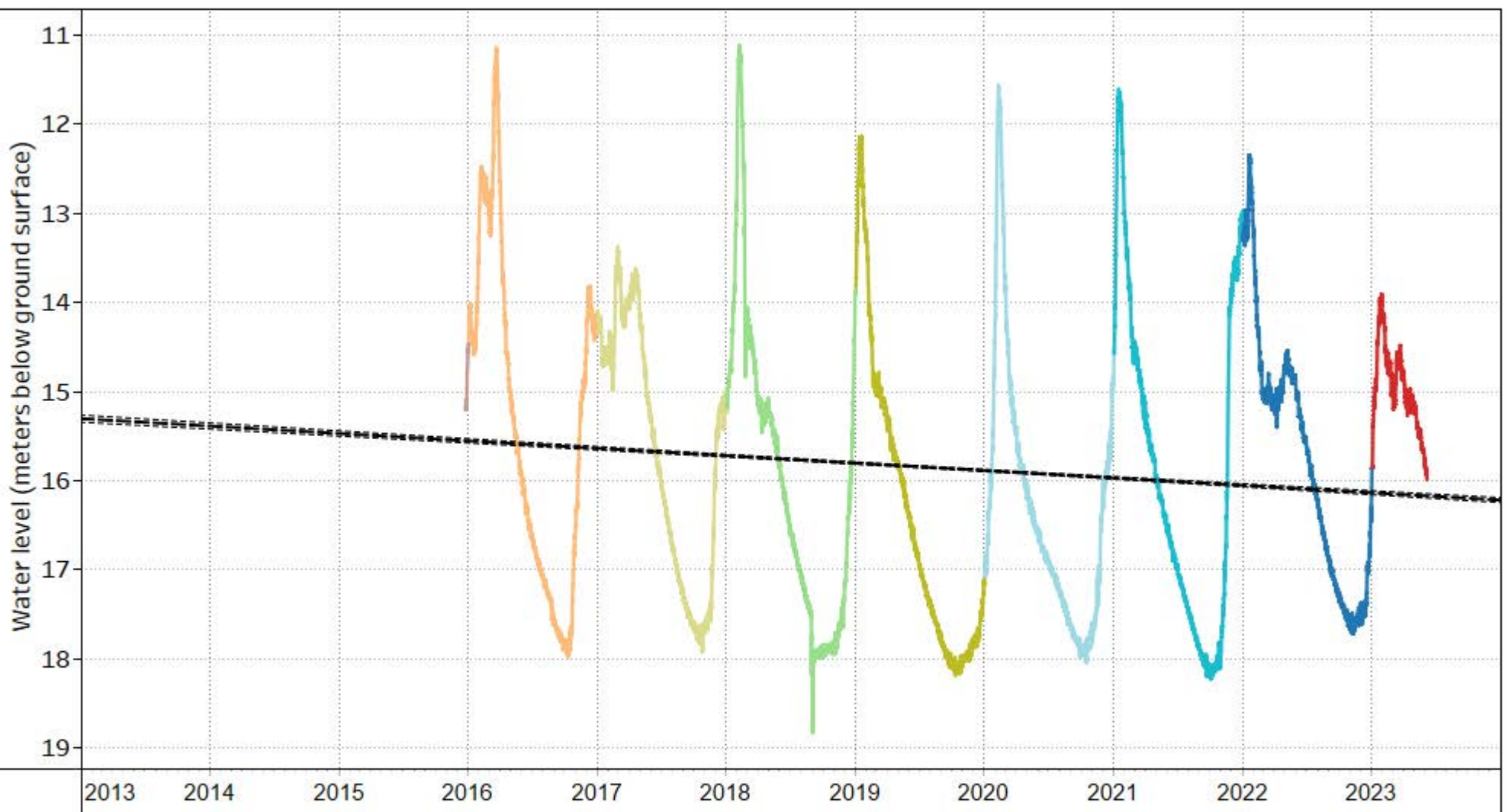
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 29 - O3 (WR5 - Nanoose to South Wellington)

FIGURE 43-B



OW 436 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
160 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

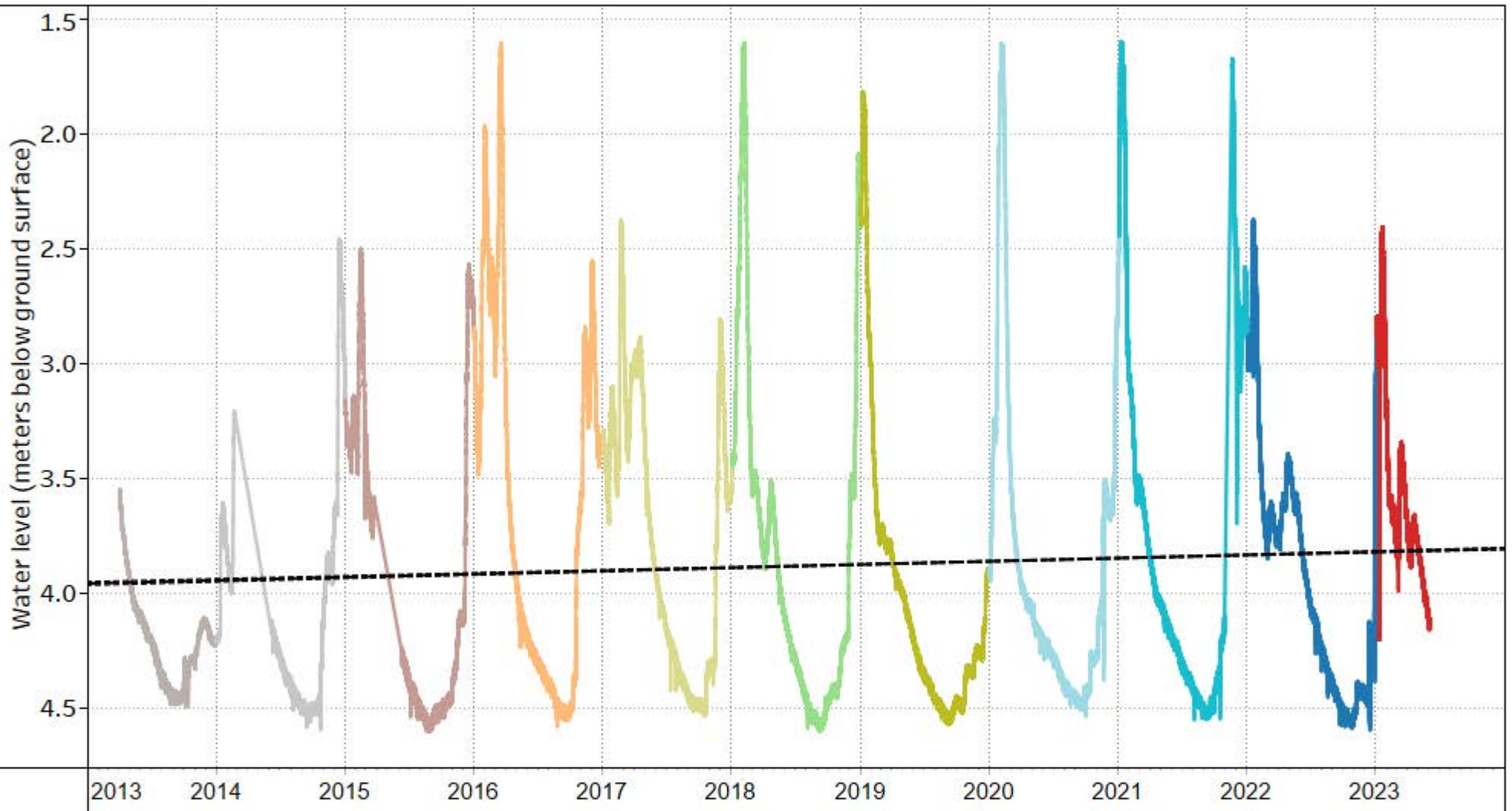
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 436 (WR6 - Nanaimo River)

FIGURE 44-B



VOW 04 - Hallberg (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
160 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

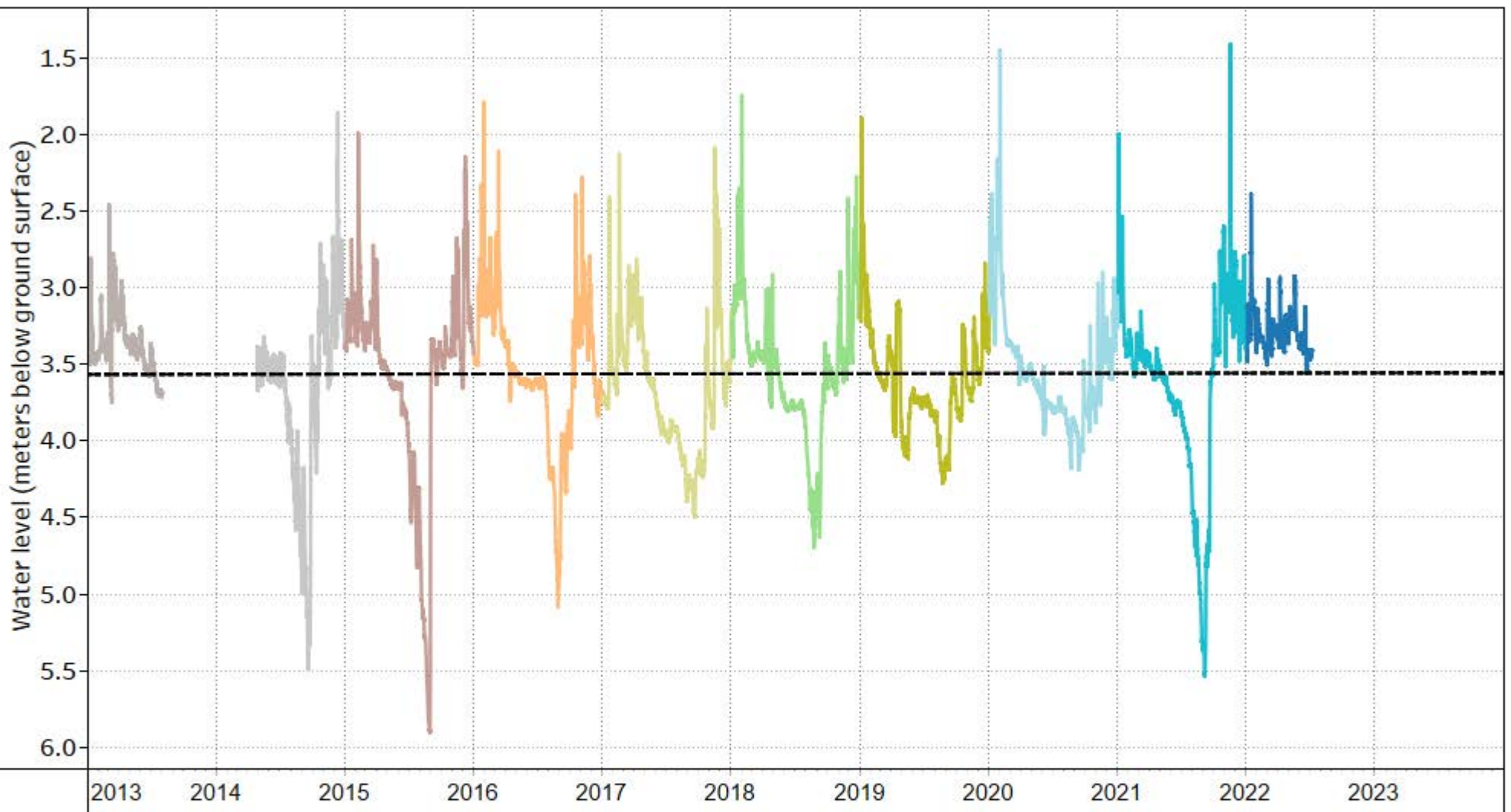
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 04 - Hallberg (WR6 - Nanaimo River)

FIGURE 45-B



OW 312 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
161 (Unconfined sand and
gravel aquifer - medium
stream system)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

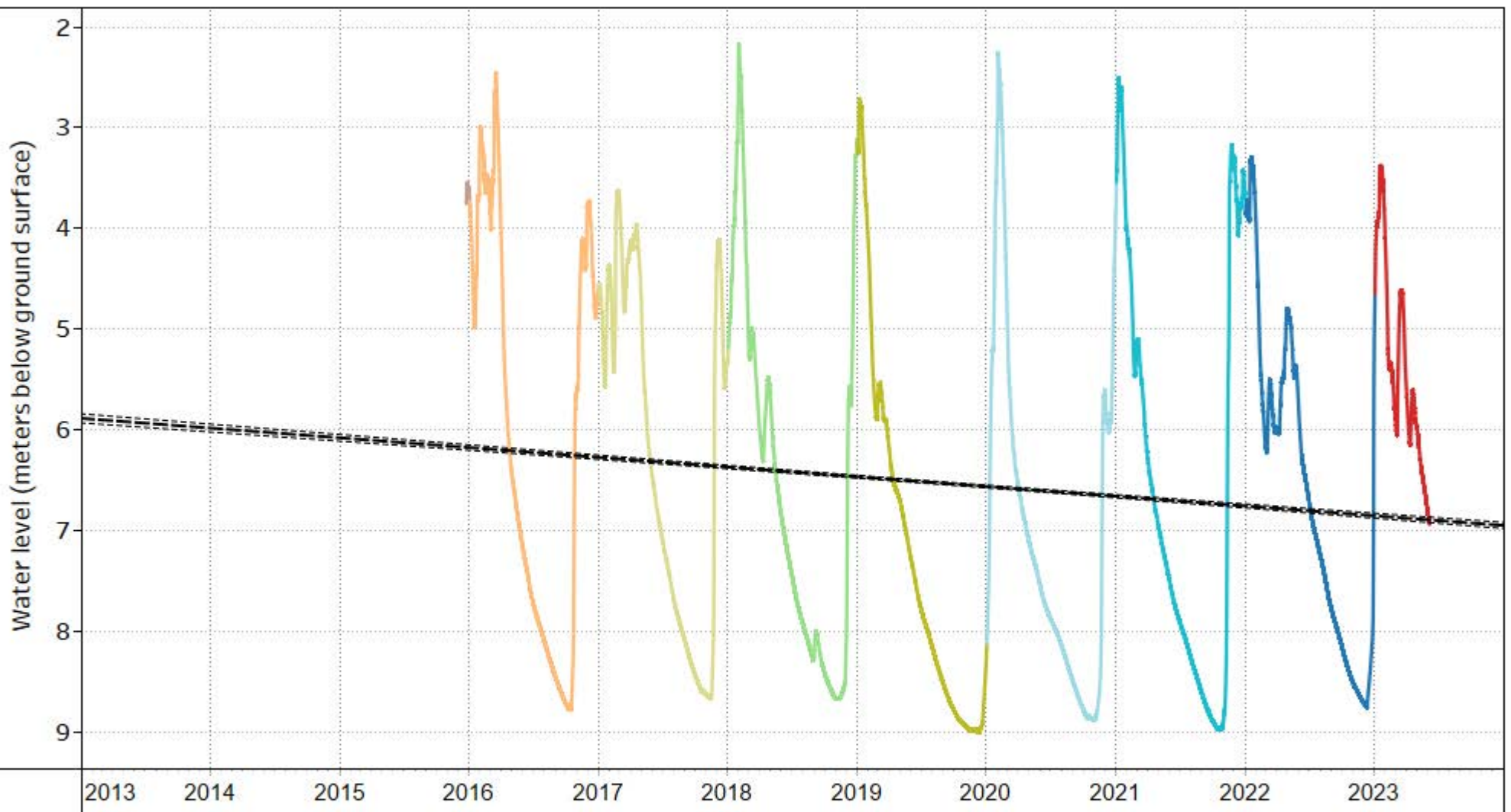
**DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023**

**HISTORICAL GROUNDWATER LEVEL CHART
OW 312 (WR6 - Nanaimo River)**

FIGURE 46-B



OW 437 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
161 (Unconfined sand and
gravel aquifer - medium
stream system)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

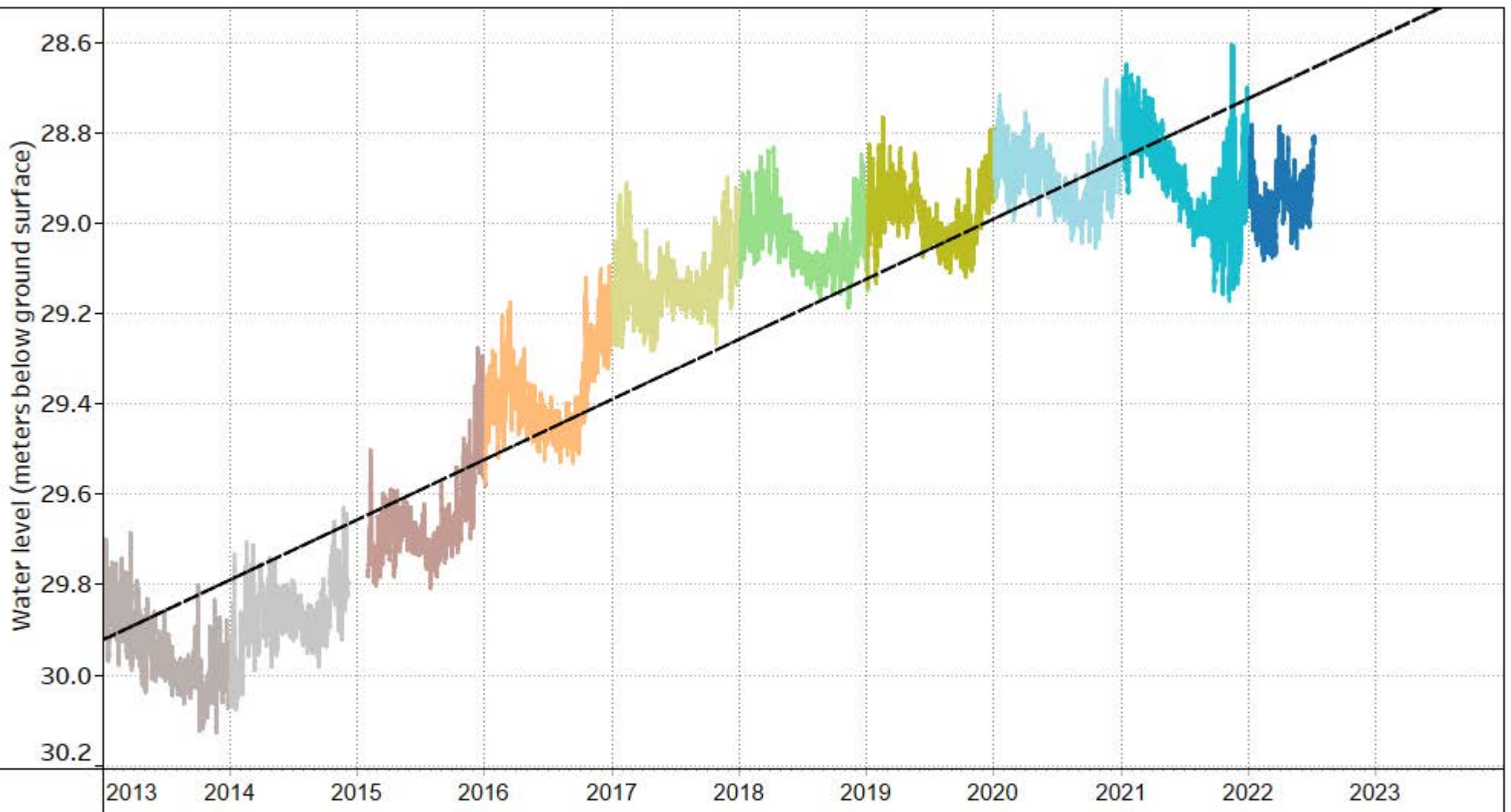
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 437 (WR6 - Nanaimo River)

FIGURE 47-B



OW 390 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

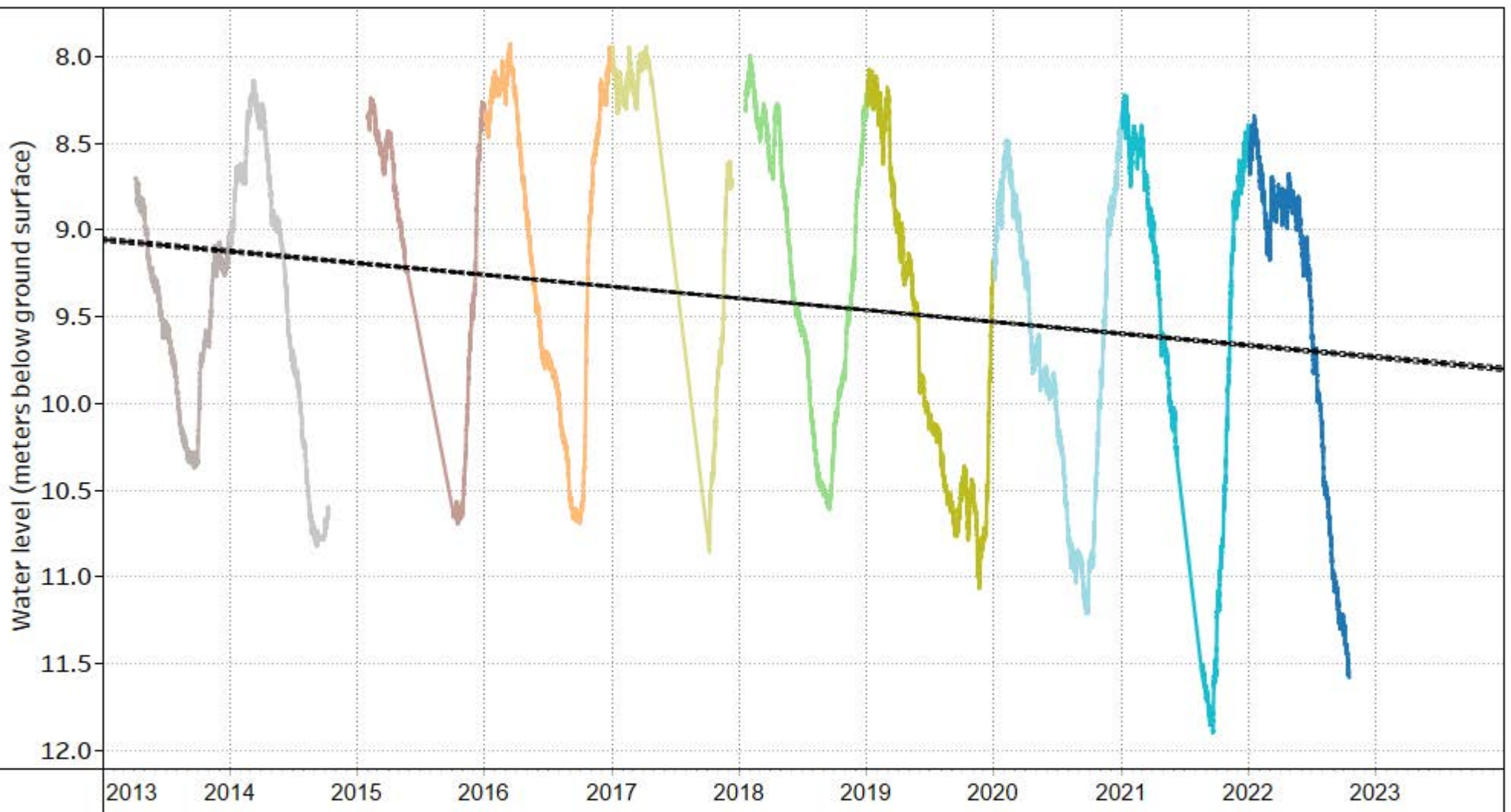
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 390 (WR6 - Nanaimo River)

FIGURE 48-B



OW 432 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

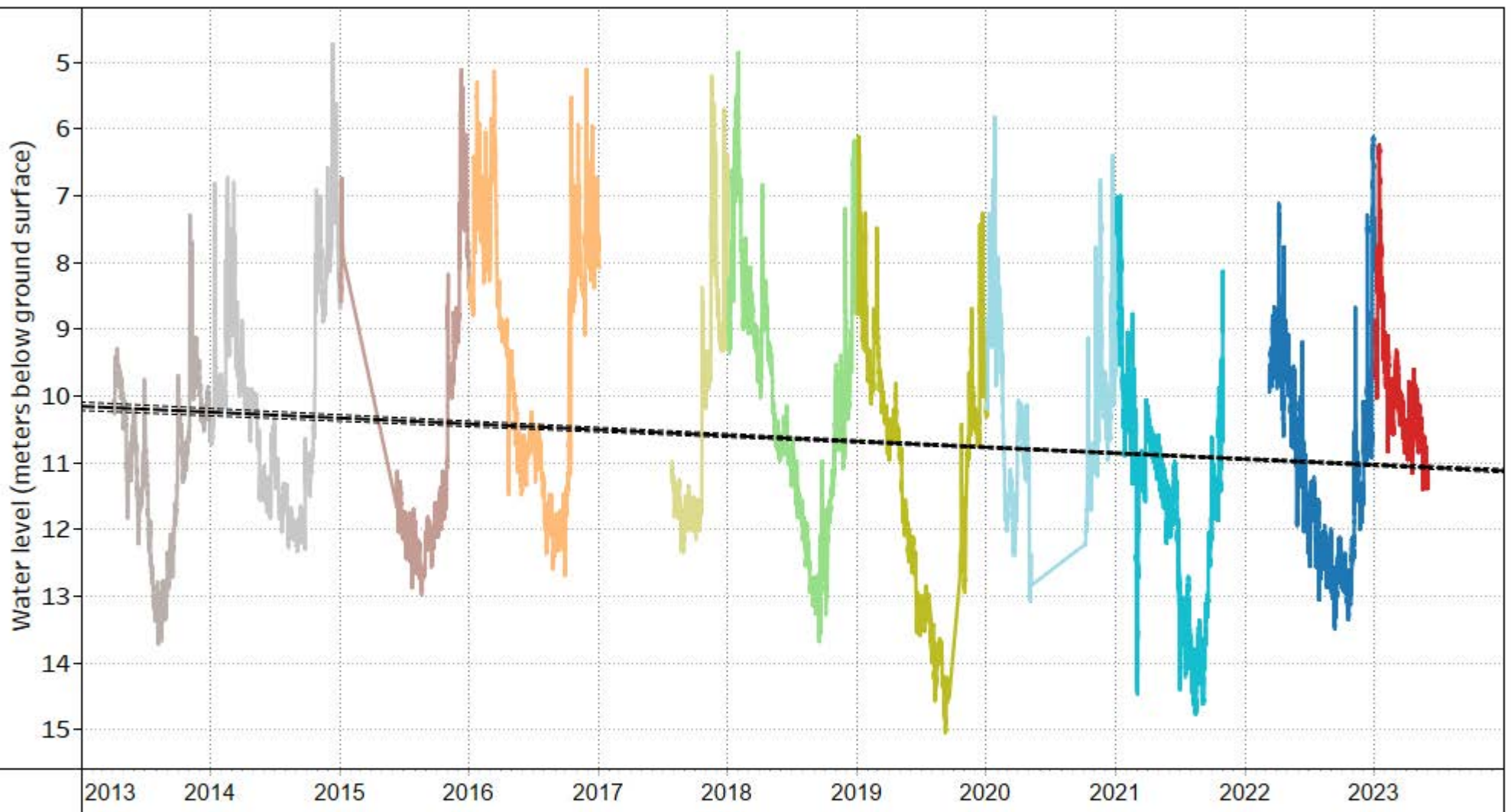
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 432 (WR6 - Nanaimo River)

FIGURE 49-B



VOW 06 - Pylades (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

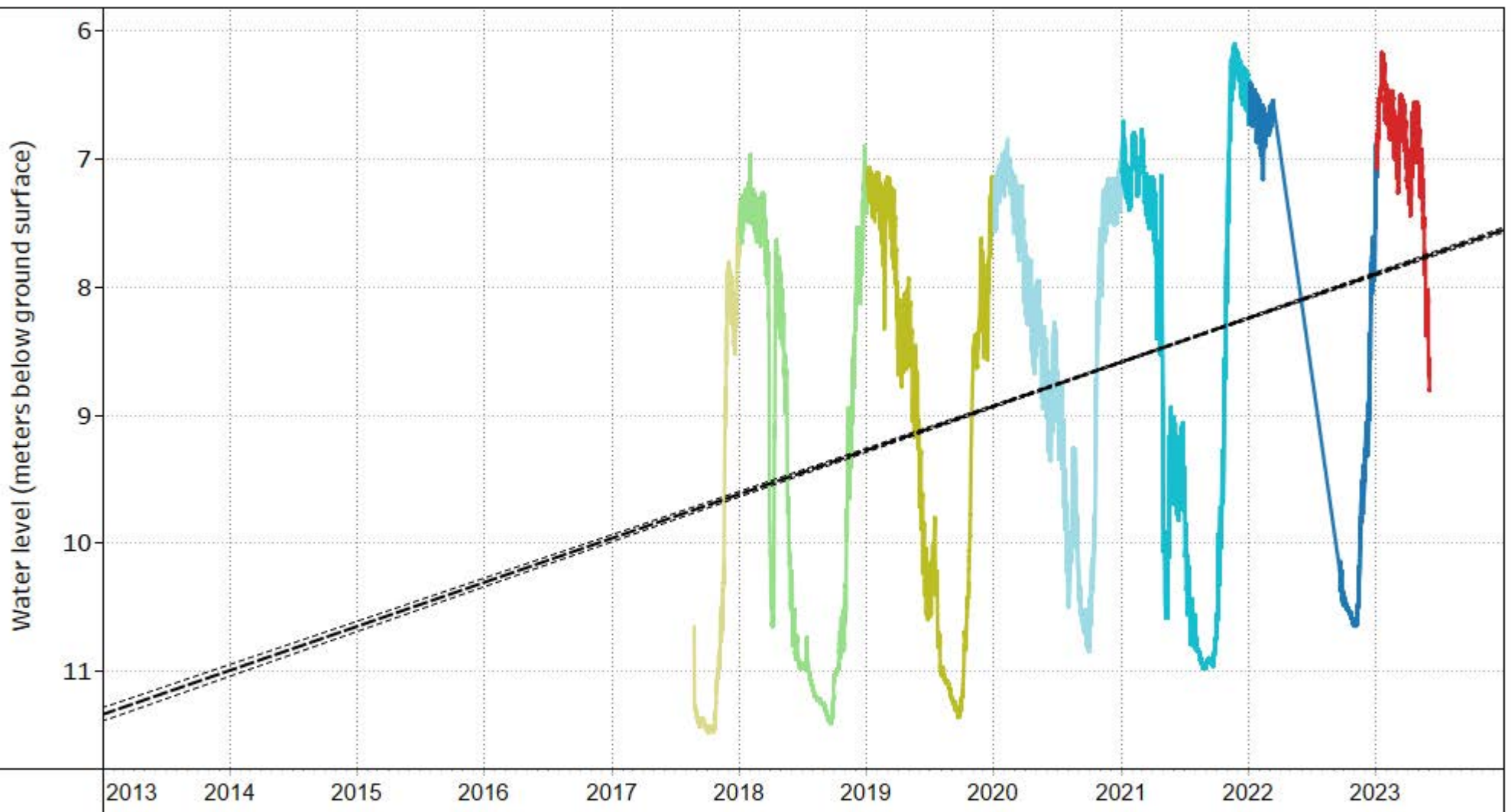
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 06 - Pylades (WR6 - Nanaimo River)

FIGURE 50-B



VOW 19 - DeCourcy (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | |
|--------|--------|
| ■ 2023 | ■ 2019 |
| ■ 2022 | ■ 2018 |
| ■ 2021 | ■ 2017 |
| ■ 2020 | |

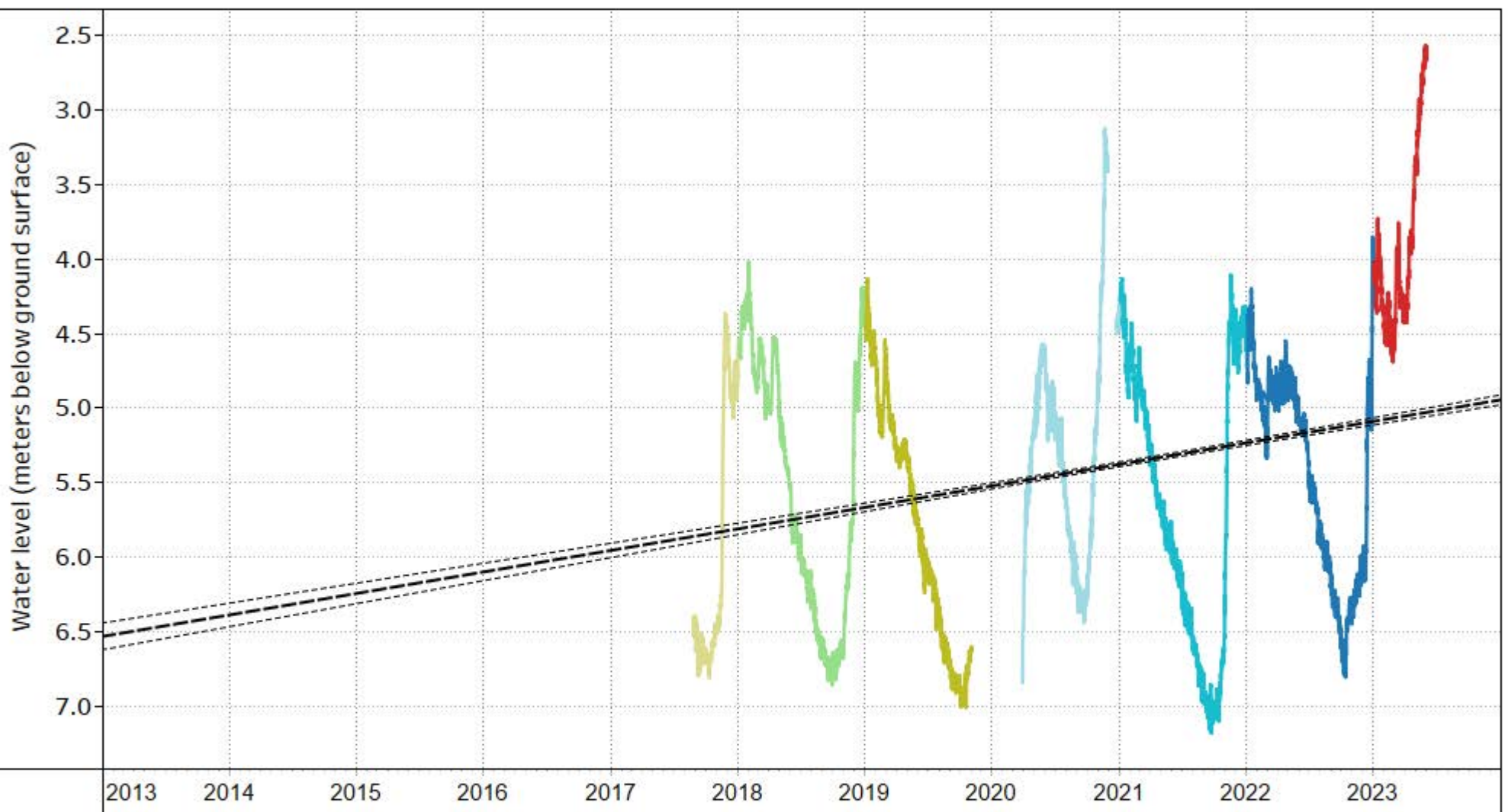
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 19 - DeCourcy (WR6 - Nanaimo River)

FIGURE 51-B



VOW 21 - Rosalie (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

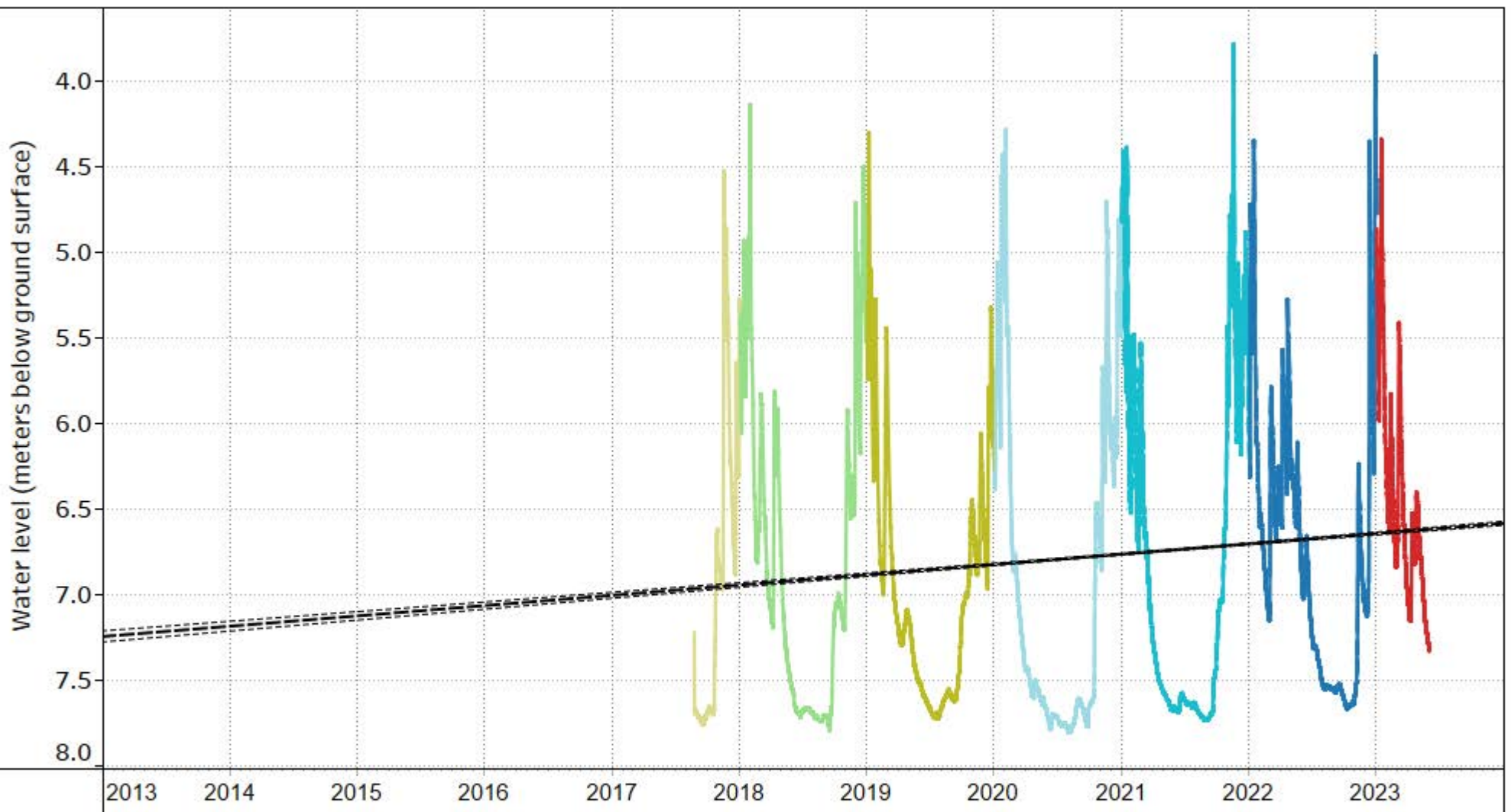
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 21 - Rosalie (WR6 - Nanaimo River)

FIGURE 52-B



VOW 22 - Gould (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

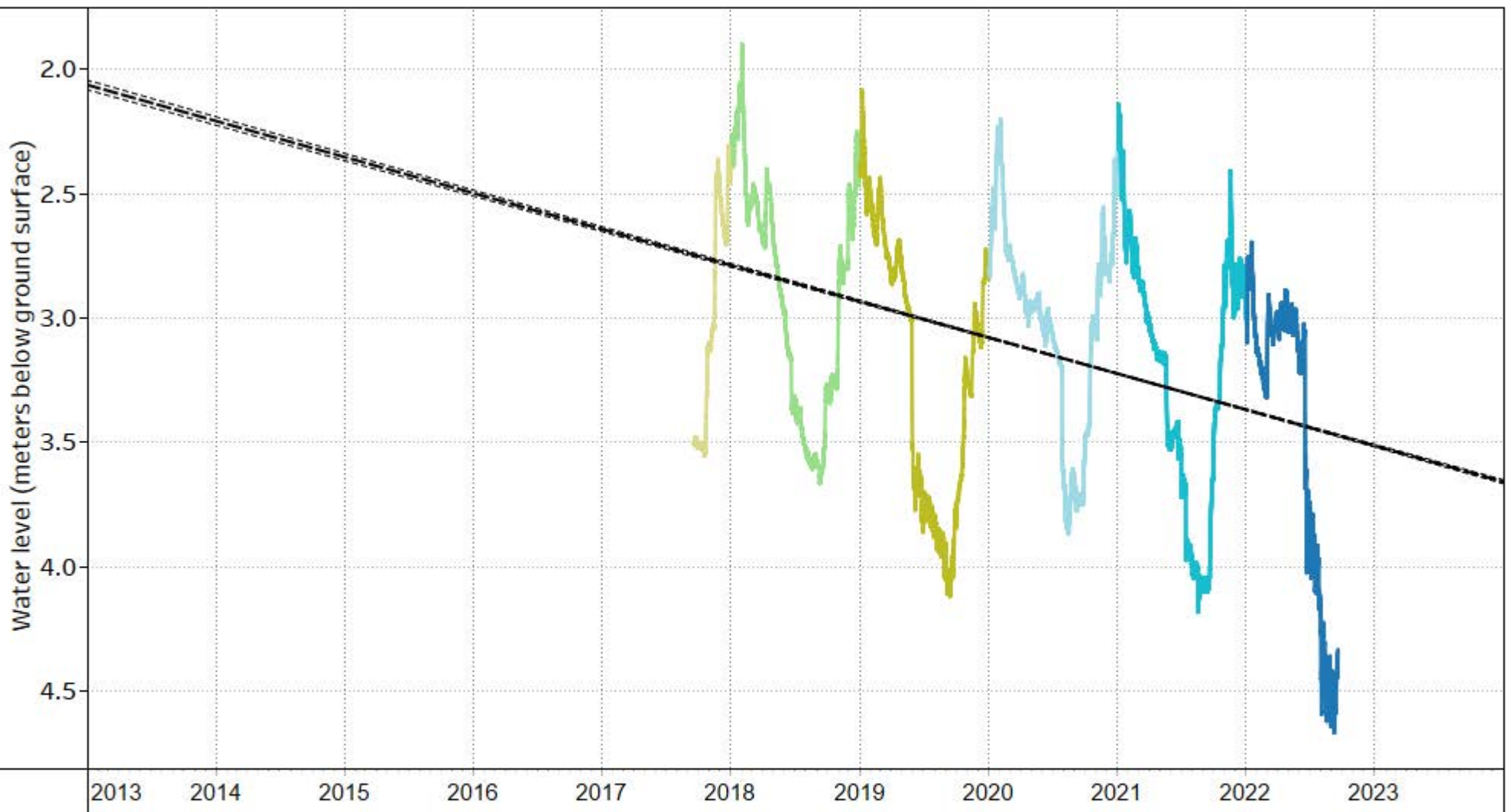
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 22 - Gould (WR6 - Nanaimo River)

FIGURE 53-B



VOW 23 - Haro (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

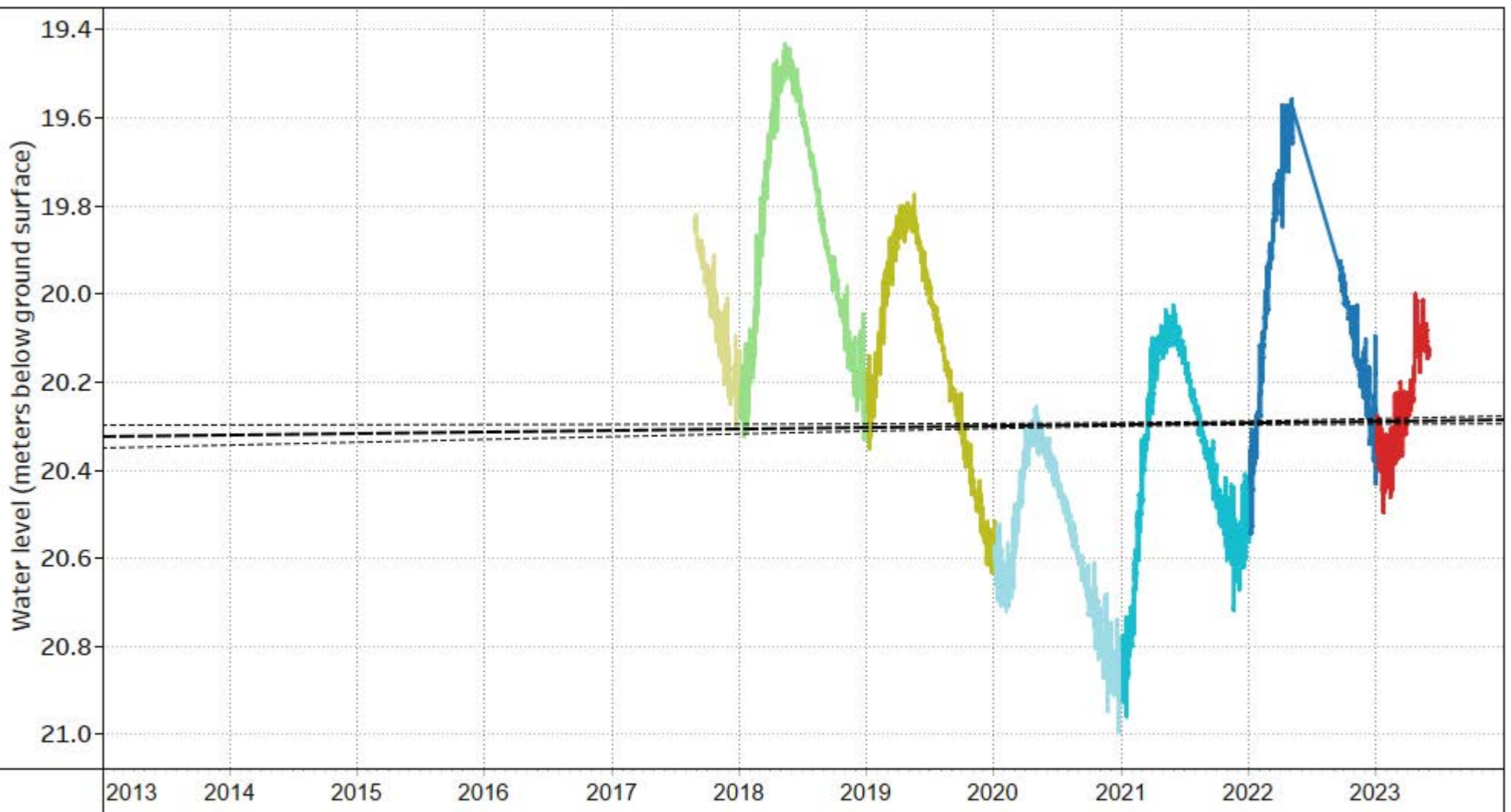
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 23 - Haro (WR6 - Nanaimo River)

FIGURE 54-B



VOW 24 - Brightman (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
163 (Confined sand and
gravel - glacial)

YEAR

- | | |
|------|------|
| 2023 | 2019 |
| 2022 | 2018 |
| 2021 | 2017 |
| 2020 | |

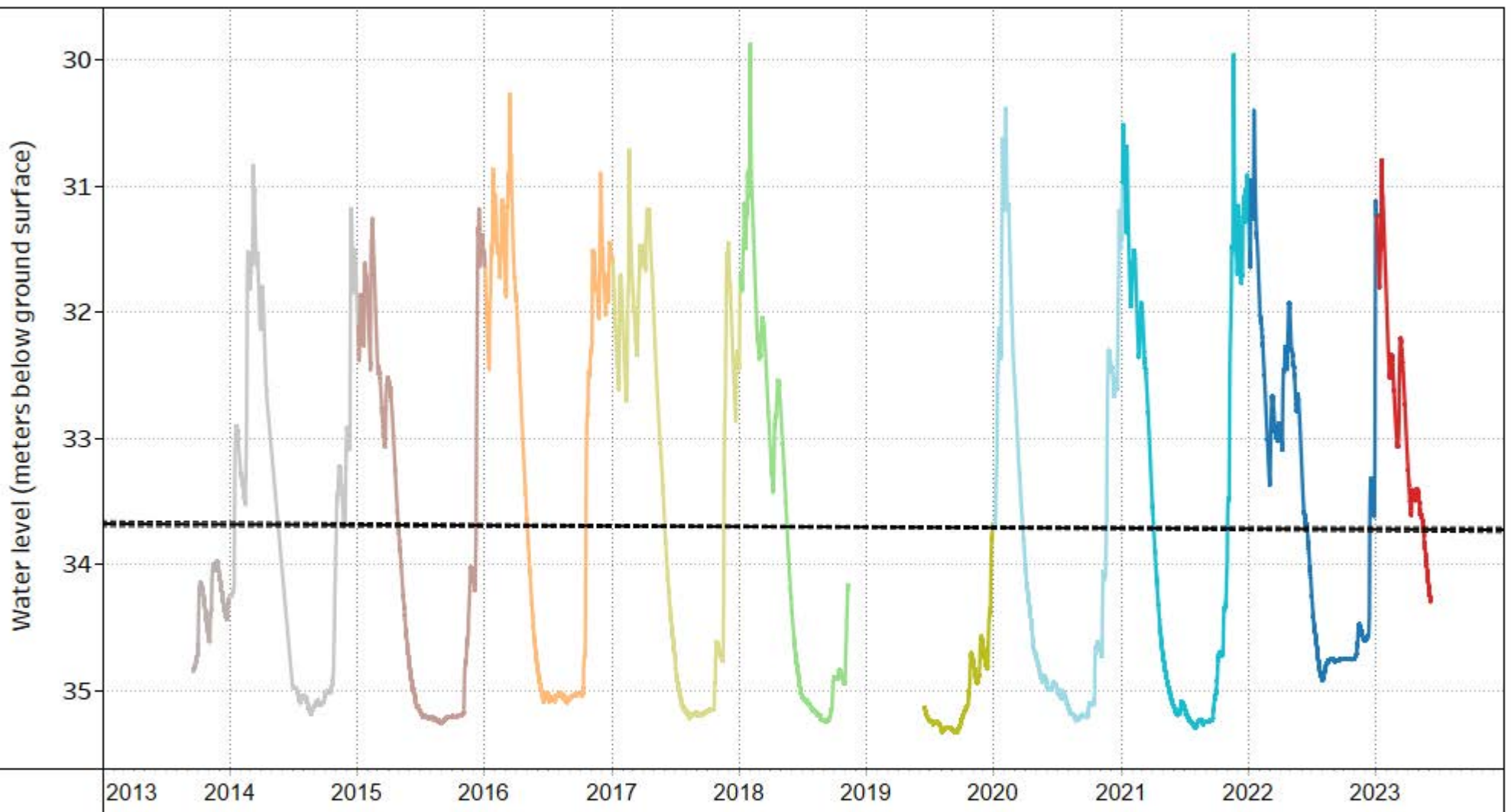
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 24 - Brightman (WR6 - Nanaimo River)

FIGURE 55-B



OW 435 (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
165 (Fractured sedimentary
rock)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

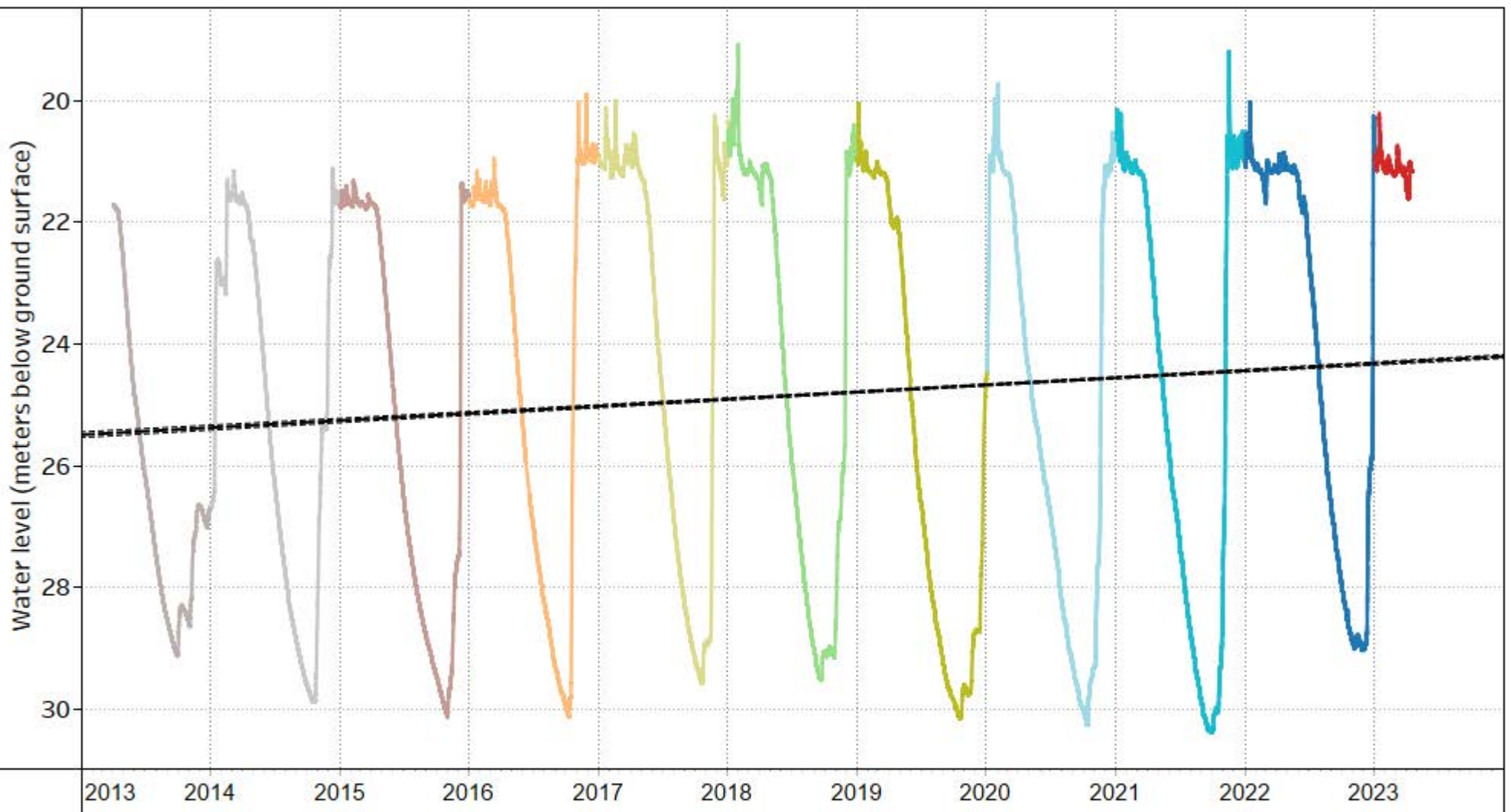
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 435 (WR6 - Nanaimo River)

FIGURE 56-B



VOW 05 - Grandom (WR6 - Nanaimo River) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
165 (Fractured sedimentary
rock)

YEAR

2023	2019	2015
2022	2018	2014
2021	2017	2013
2020	2016	

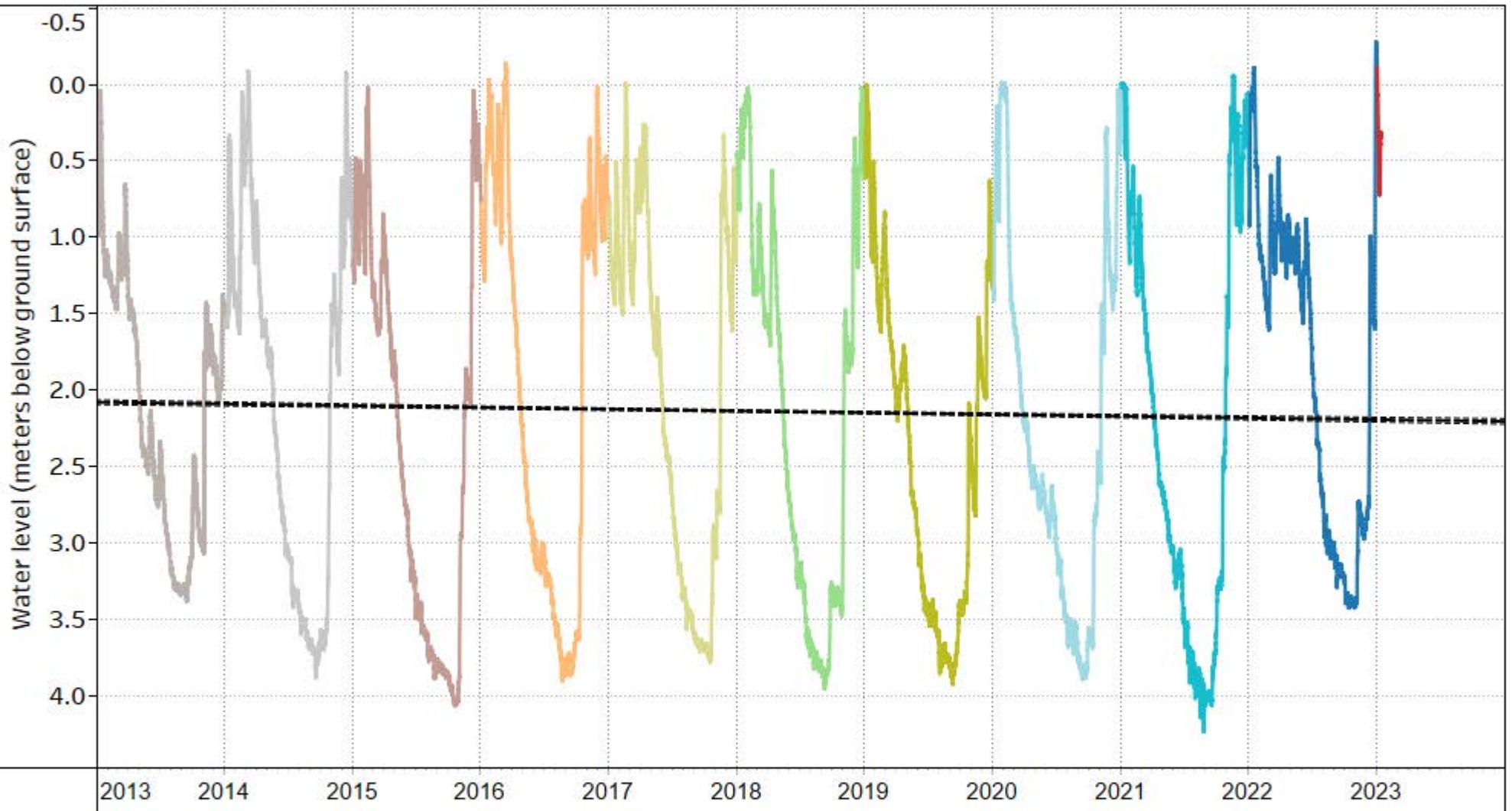
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 05 - Grandom (WR6 - Nanaimo River)

FIGURE 57-B



OW 196 (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ■ 2023 ■ 2022 ■ 2021 ■ 2020 | <ul style="list-style-type: none"> ■ 2019 ■ 2018 ■ 2017 ■ 2016 | <ul style="list-style-type: none"> ■ 2015 ■ 2014 ■ 2013 |
|--|--|--|

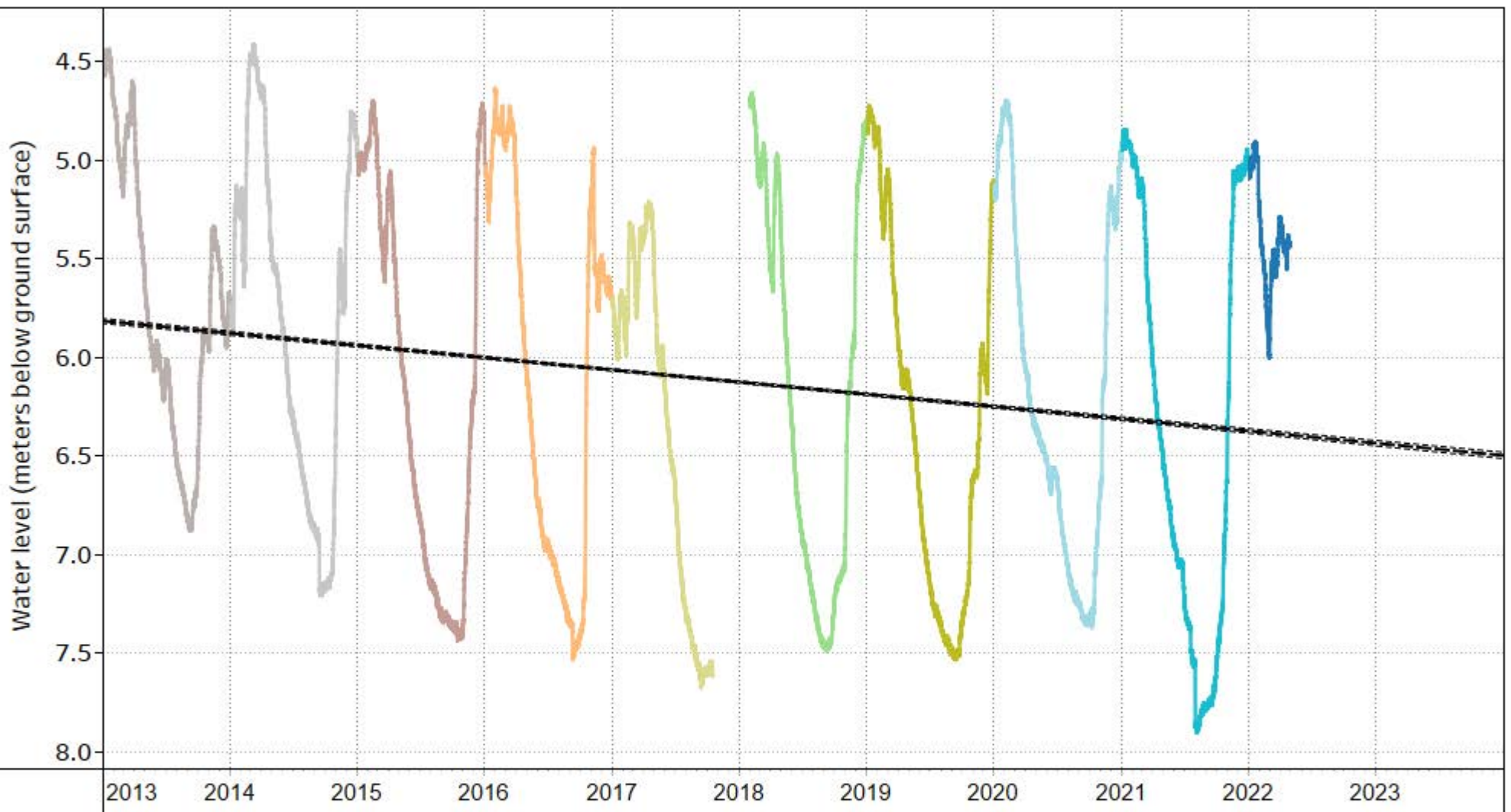
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 196 (WR7 - Gabriola Island)

FIGURE 58-B



OW 197 (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

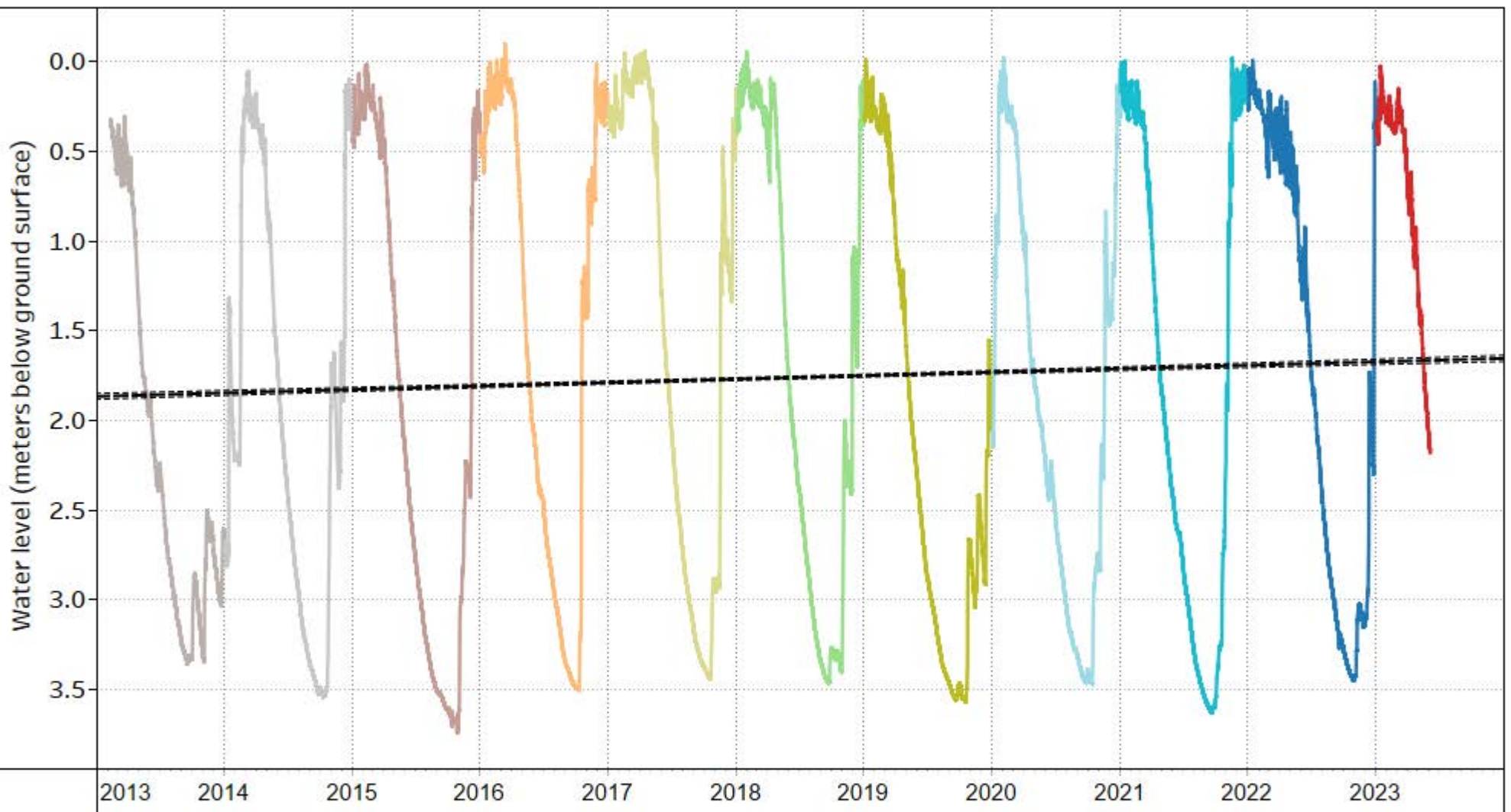
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 197 (WR7 - Gabriola Island)

FIGURE 59-B



OW 316 (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |

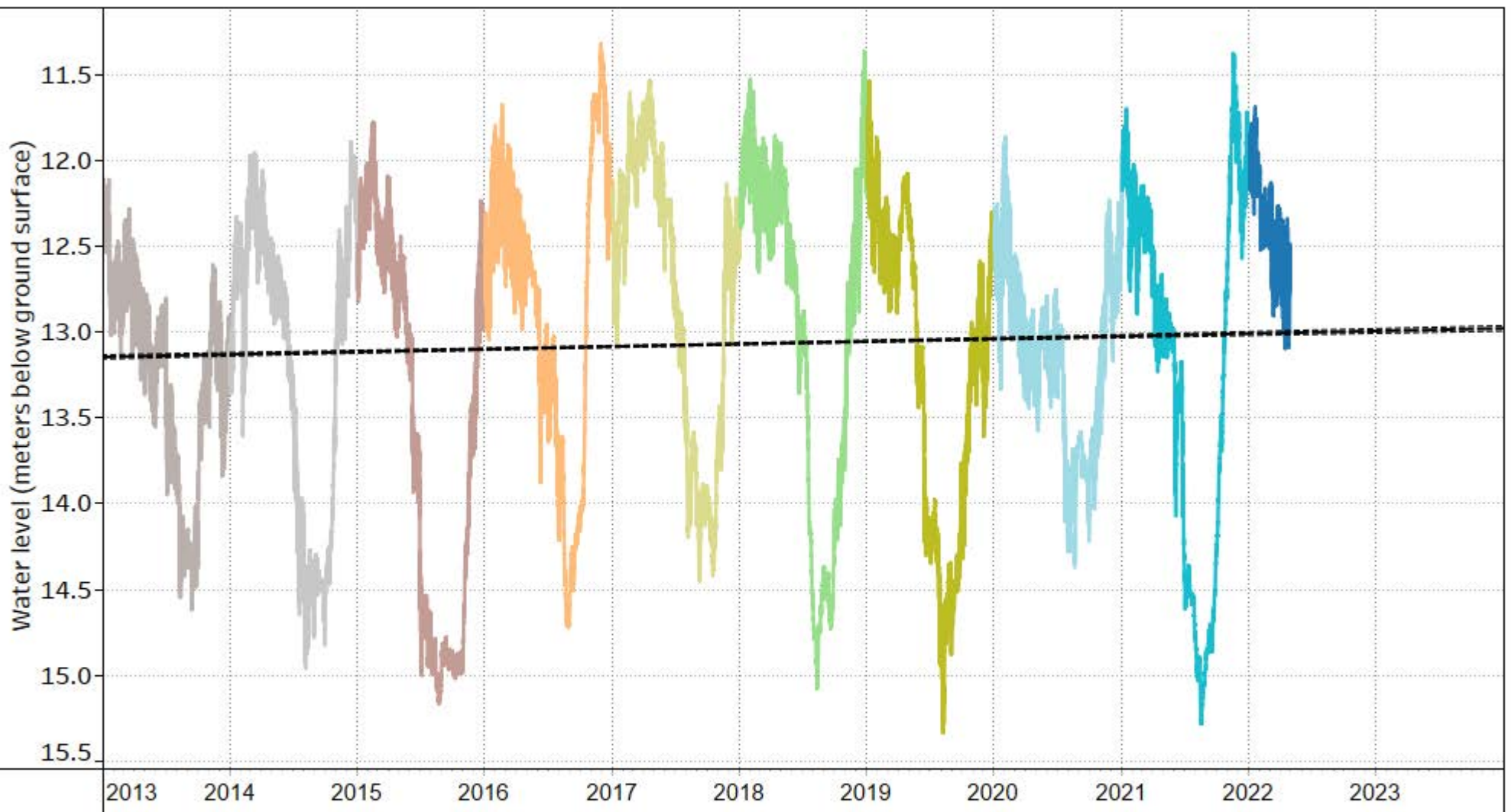
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 316 (WR7 - Gabriola Island)

FIGURE 60-B



OW 385 (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|------|------|------|
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |
| 2019 | 2015 | |

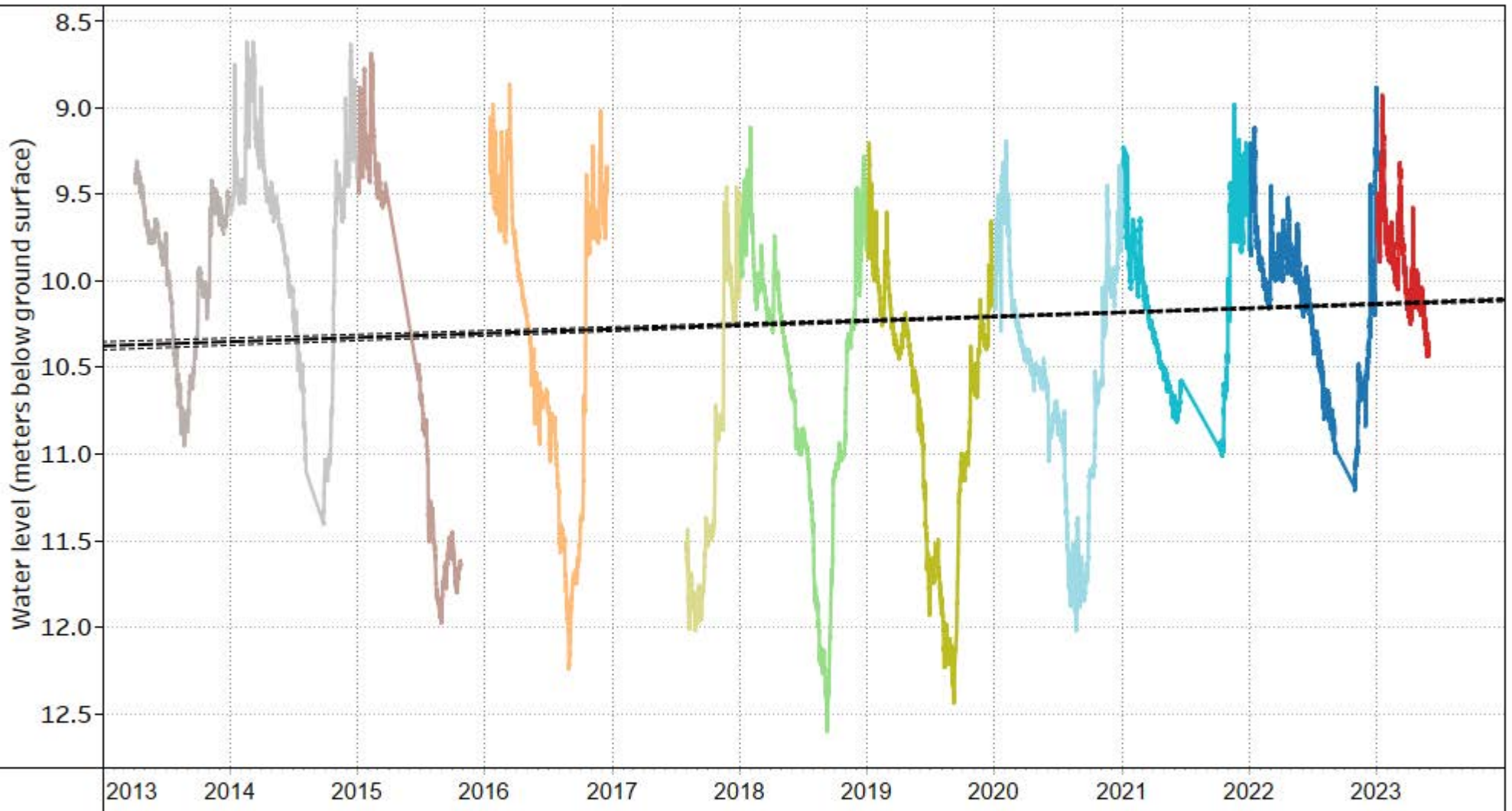
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
OW 385 (WR7 - Gabriola Island)

FIGURE 61-B



VOW 07 - Descanso (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

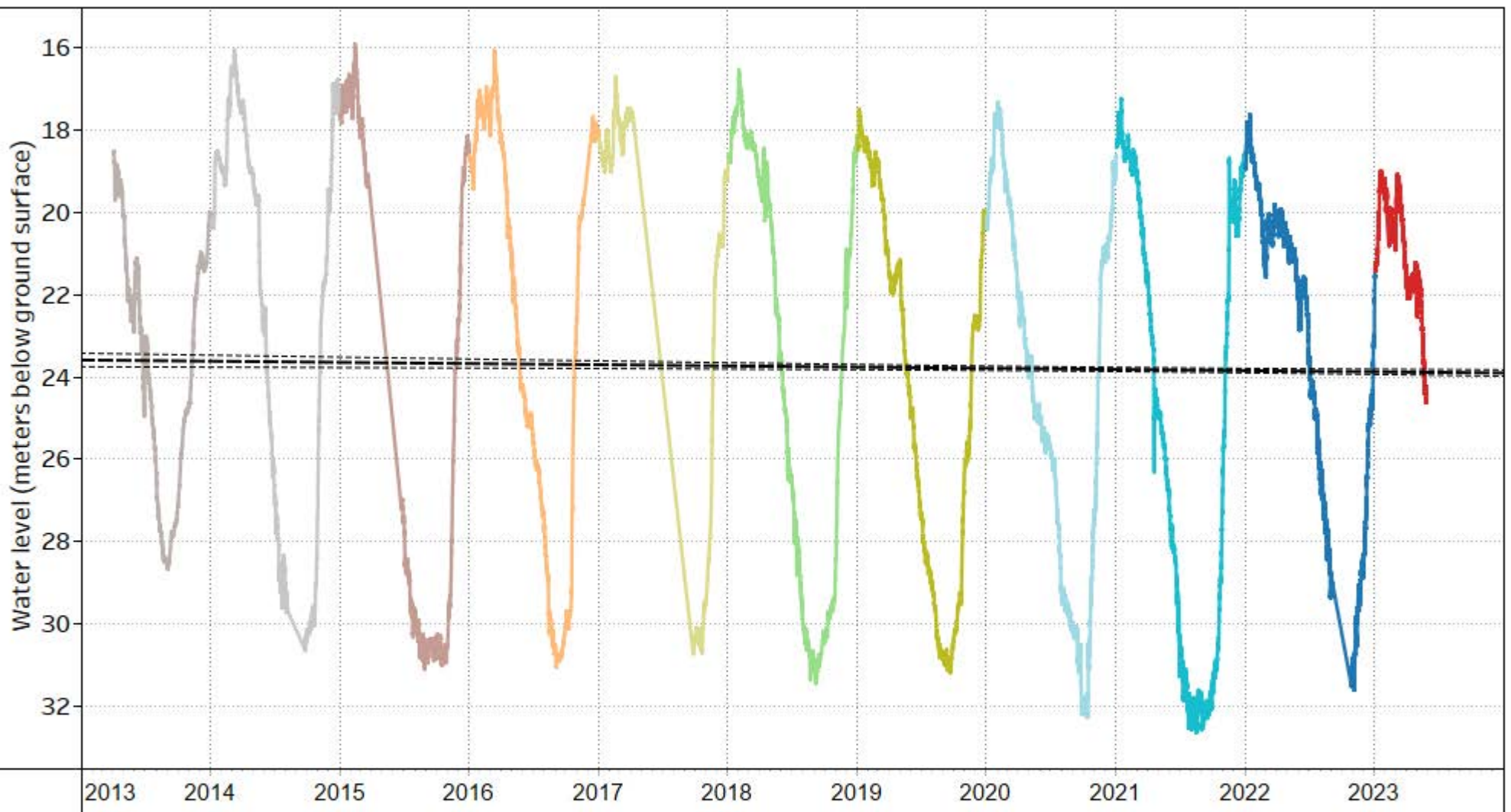
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 07 - Descanso (WR7 - Gabriola Island)

FIGURE 62-B



VOW 08 - Mander (WR7 - Gabriola Island) Historical Static Water Level Linear Trend



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|------|------|------|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | |

DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

HISTORICAL GROUNDWATER LEVEL CHART
VOW 08 - Mander (WR7 - Gabriola Island)

FIGURE 63-B



Appendix C - Seasonal Groundwater Level Results

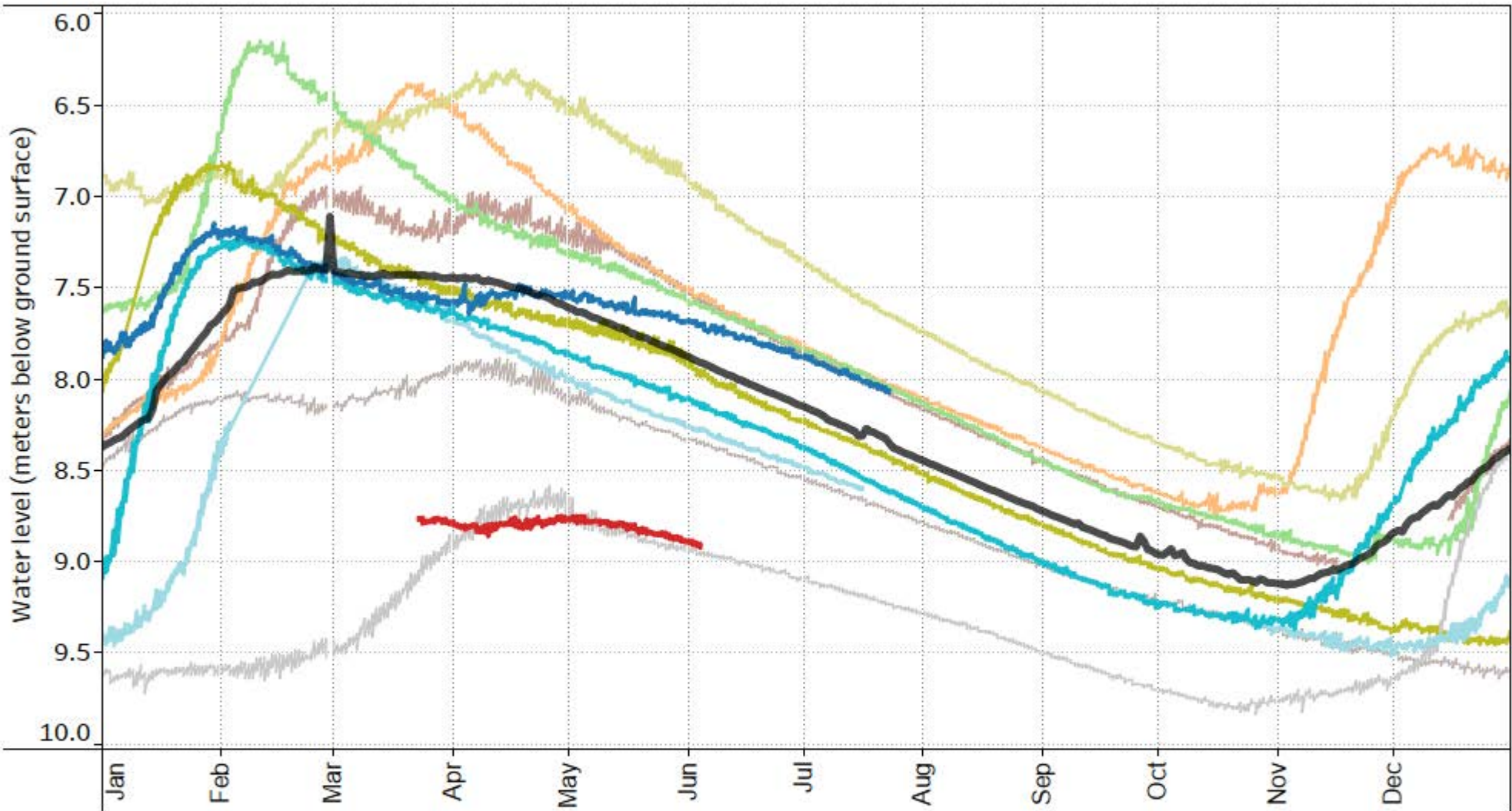


Table C1: Seasonal Groundwater Level Trench Results for the VOWN and PGOWN in 2023

RDN Water Region	Aquifer Number	Aquifer Type Material	Observation Well Number	Data Range (dataset)	RDN Figure Number (Seasonal)	Groundwater Level Trend*
WR1 - Big Qualicum	416	Surficial	OW 310	2013 - 2023	FIGURE 1-C	Below
	662	Surficial	OW 426	2013 - 2022	FIGURE 2-C	
	Unmapped	Surficial	OW 427	2013 - 2022	FIGURE 3-C	
WR2 - Little Qualicum	662	Surficial	OW 391	2013 - 2022	FIGURE 4-C	
	664	Surficial	OW 389	2013 - 2023	FIGURE 5-C	Below
WR3 - French Creek	212	Bedrock	VOW 15	2017 - 2023	FIGURE 6-C	Average
	216	Surficial	OW 304	2013 - 2023	FIGURE 7-C	Above
			OW 314	2013 - 2023	FIGURE 8-C	Above
			OW 398	2013 - 2023	FIGURE 9-C	Above
			OW 424	2013 - 2023	FIGURE 10-C	Below
			VOW 14	2017 - 2023	FIGURE 11-C	Above
	217	Surficial	OW 295	2013 - 2023	FIGURE 12-C	Below
			OW 303	2013 - 2022	FIGURE 13-C	
			OW 433	2013 - 2022	FIGURE 14-C	
			OW 434	2013 - 2022	FIGURE 15-C	
	VOW 16	2017 - 2023	FIGURE 16-C	Below		
220	Bedrock	OW 287	2013 - 2022	FIGURE 17-C		
WR4 - Englishman River	216	Surficial	VOW 01	2013 - 2023	FIGURE 18-C	Above
	219	Surficial	OW 395	2013 - 2021	FIGURE 19-C	
	220	Bedrock	VOW 18	2017 - 2023	FIGURE 20-C	Average to Below
WR5 - Nanoose to South Wellington	167	Surficial	VOW 12	2016 - 2023	FIGURE 21-C	Average to Above
	211	Bedrock	OW 388	2013 - 2022	FIGURE 22-C	
	213	Bedrock	VOW 02	2013 - 2023	FIGURE 23-C	Average to Below
			VOW 03	2013 - 2023	FIGURE 24-C	Average
			VOW 13	2016 - 2023	FIGURE 25-C	Average to Above
	214	Bedrock	VOW 30	2015 - 2023	FIGURE 26-C	Above
			VOW 31	2015 - 2023	FIGURE 27-C	Average to Above
			VOW 32	2015 - 2023	FIGURE 28-C	Above
			VOW 33	2015 - 2023	FIGURE 29-C	Average to Below
			VOW 34	2015 - 2023	FIGURE 30-C	Average to Above
	215	Surficial	OW 232	2013 - 2023	FIGURE 31-C	Below
			OW 340	2013 - 2023	FIGURE 32-C	Below
			VOW 28	2017 - 2023	FIGURE 33-C	Below to Above
	218	Bedrock	OW 394	2013 - 2022	FIGURE 34-C	
			VOW 26	2017 - 2023	FIGURE 35-C	Average
	VOW 27	2017 - 2023	FIGURE 36-C	Average to Below		
	219	Surficial	OW 393	2013 - 2023	FIGURE 37-C	Above
			OW 396	2013 - 2023	FIGURE 38-C	Below
			VOW 25	2017 - 2023	FIGURE 39-C	Average to Below
	1098	Surficial	OW 392	2013 - 2023	FIGURE 40-C	Above
OW 397			2014 - 2022	FIGURE 41-C		
VOW 17			2015 - 2023	FIGURE 42-C	Above	
VOW 29			2015 - 2023	FIGURE 43-C	Average to Above	
WR6 - Nanaimo River	160	Surficial	OW 436	2015 - 2023	FIGURE 44-C	Below to Average
			VOW 04	2013 - 2023	FIGURE 45-C	Average to Below
	161	Surficial	OW 312	2013 - 2022	FIGURE 46-C	
			OW 437	2015 - 2023	FIGURE 47-C	Average
	162	Bedrock	OW 390	2013 - 2022	FIGURE 48-C	
			OW 432	2013 - 2022	FIGURE 49-C	
			VOW 06	2013 - 2023	FIGURE 50-C	Average
			VOW 19	2017 - 2023	FIGURE 51-C	Above
			VOW 21	2017 - 2023	FIGURE 52-C	Above
			VOW 22	2017 - 2023	FIGURE 53-C	Average to Above
	VOW 23	2017 - 2022	FIGURE 54-C			
163	Surficial	VOW 24	2017 - 2023	FIGURE 55-C	Average	
165	Bedrock	OW 435	2013 - 2023	FIGURE 56-C	Average to Above	
		VOW 05	2013 - 2023	FIGURE 57-C	Average to Above	
WR7 - Gabriola Island	709	Bedrock	OW 196	2013 - 2023	FIGURE 58-C	Above
			OW 197	2013 - 2022	FIGURE 59-C	
			OW 316	2013 - 2023	FIGURE 60-C	Average to Below
			OW 385	2013 - 2022	FIGURE 61-C	
			VOW 07	2013 - 2023	FIGURE 62-C	Average to Below
VOW 08	2013 - 2023	FIGURE 63-C	Below			

Note: Groundwater level trends are intentionally left blank for sites that do not have 2023 data.

OW 310 (WR1 - Big Qualicum) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
416 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

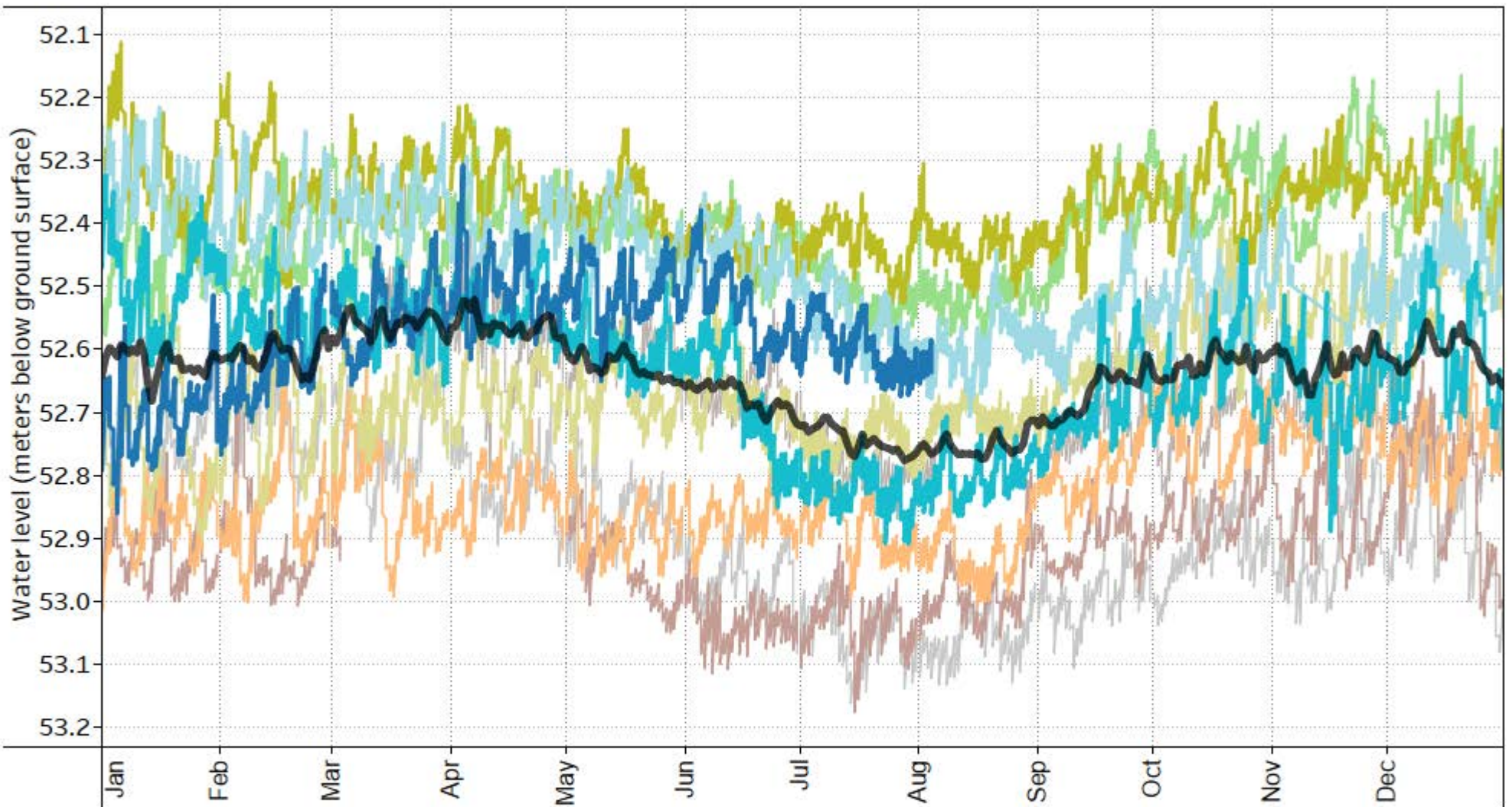
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 310 (WR1 - Big Qualicum)

FIGURE 1-C



OW 426 (WR1 - Big Qualicum) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
662 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--|--|---|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |
| ■ 2019 | ■ 2015 | |

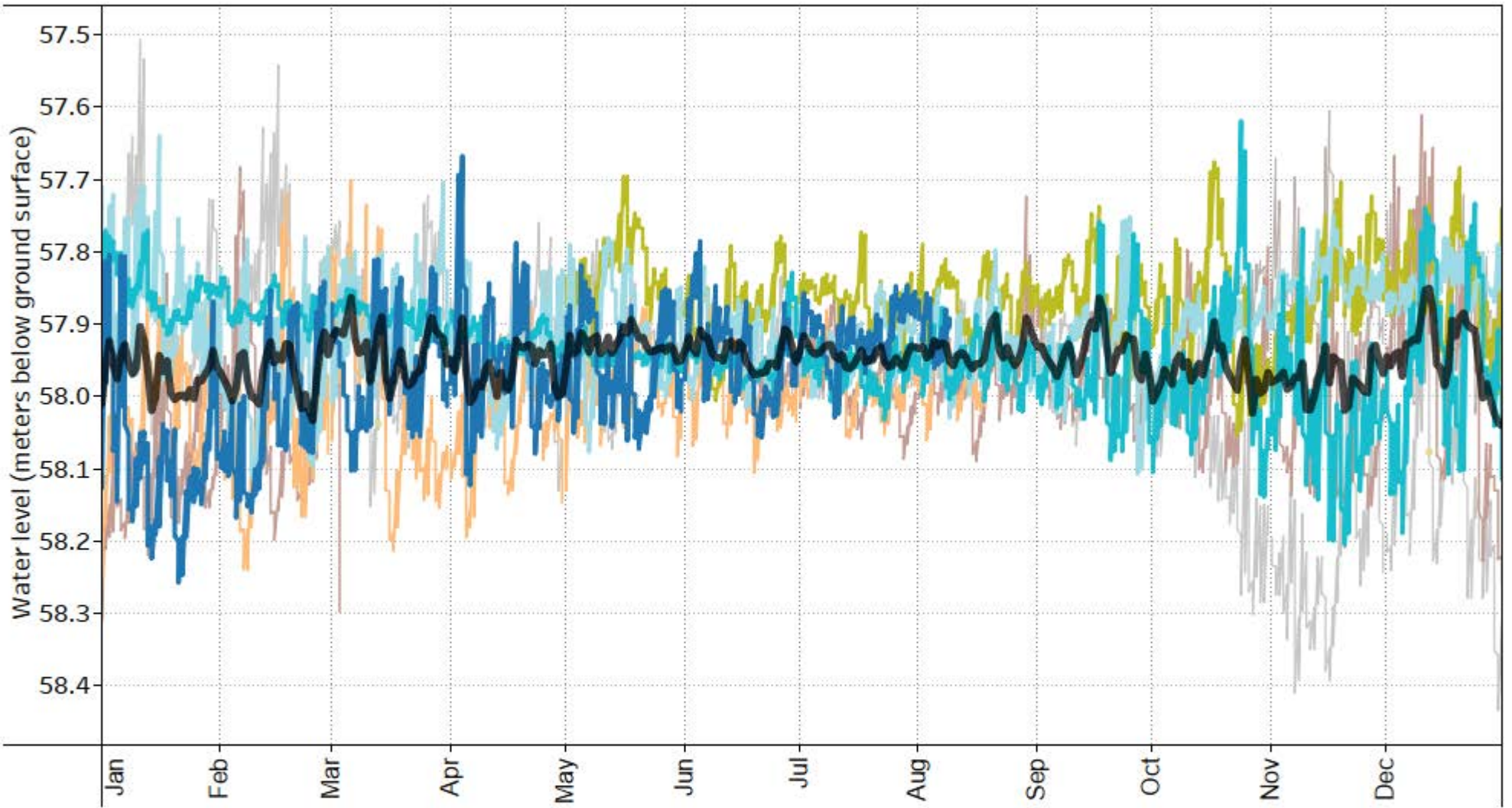
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 426 (WR1 - Big Qualicum)

FIGURE 2-C



OW 427 (WR1 - Big Qualicum) Seasonal Static Water Level



NOTES:

YEAR

- 2022
 - 2021
 - 2020
 - 2019
- 2018
 - 2017
 - 2016
 - 2015
- 2014
 - 2013
 - Average Groundwater Level (2013-2022)

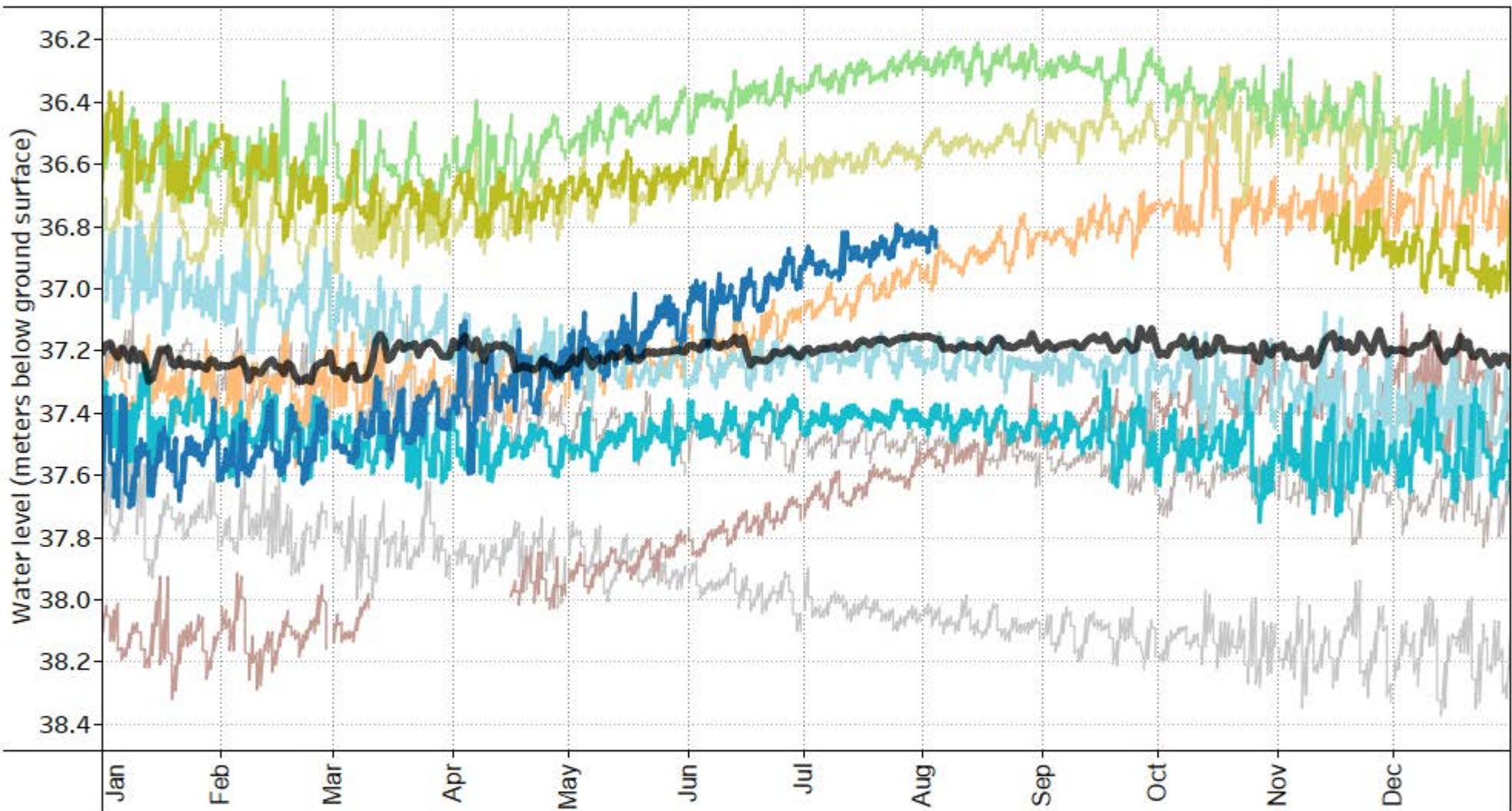
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 427 (WR1 - Big Qualicum)

FIGURE 3-C



OW 391 (WR2 - Little Qualicum) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
662 (Confined sand and
gravel - glacial)

YEAR

- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- Average Groundwater Level (2013-2022)

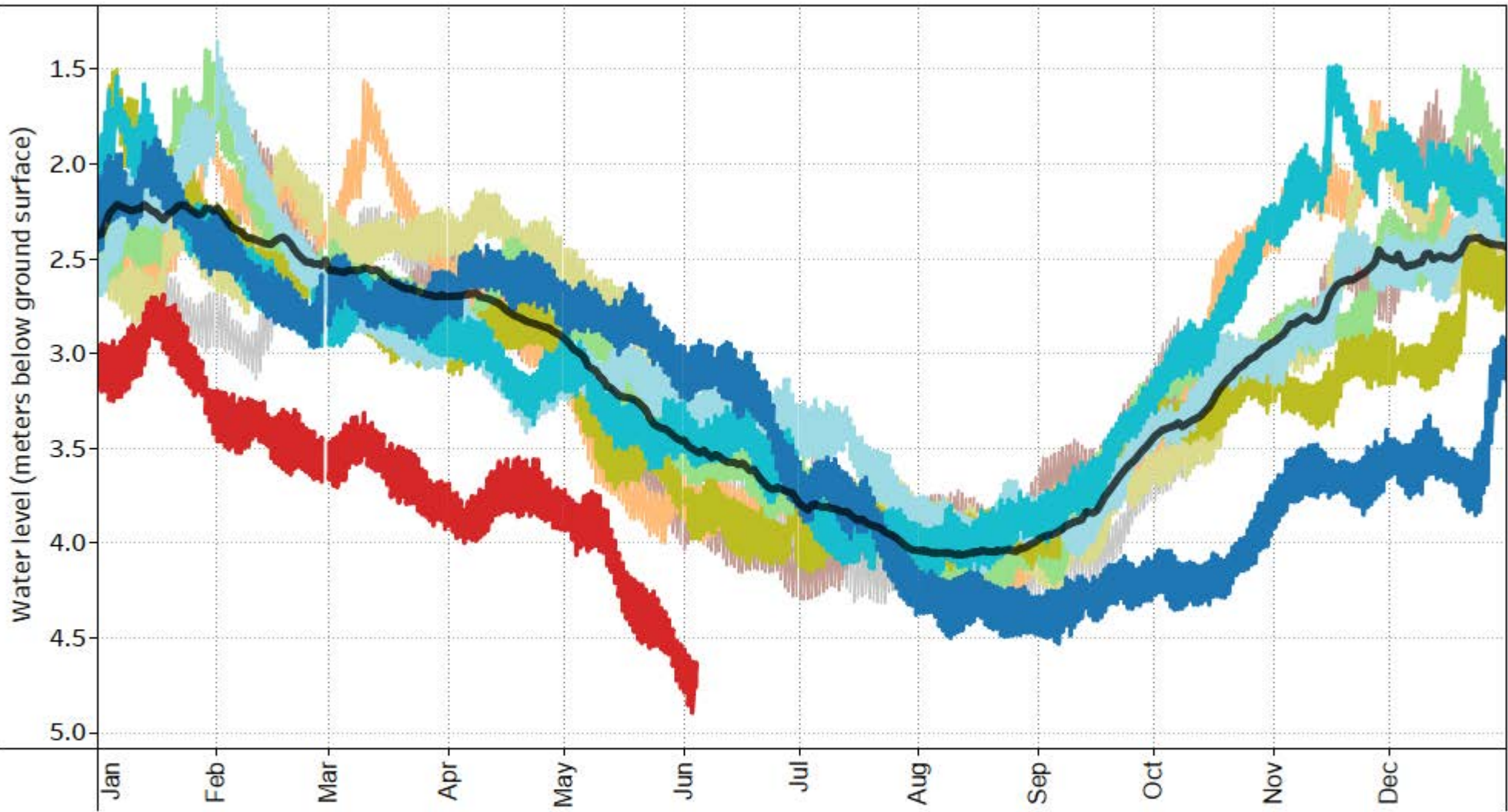
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 391 (WR2 - Little Qualicum)

FIGURE 4-C



OW 389 (WR2 - Little Qualicum) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
664 (Unconfined sand and
gravel aquifer - small
stream system)

YEAR

- 2023
- 2019
- 2015
- 2022
- 2018
- 2014
- 2021
- 2017
- 2013
- 2020
- 2016
- Average Groundwater Level (2013-2022)

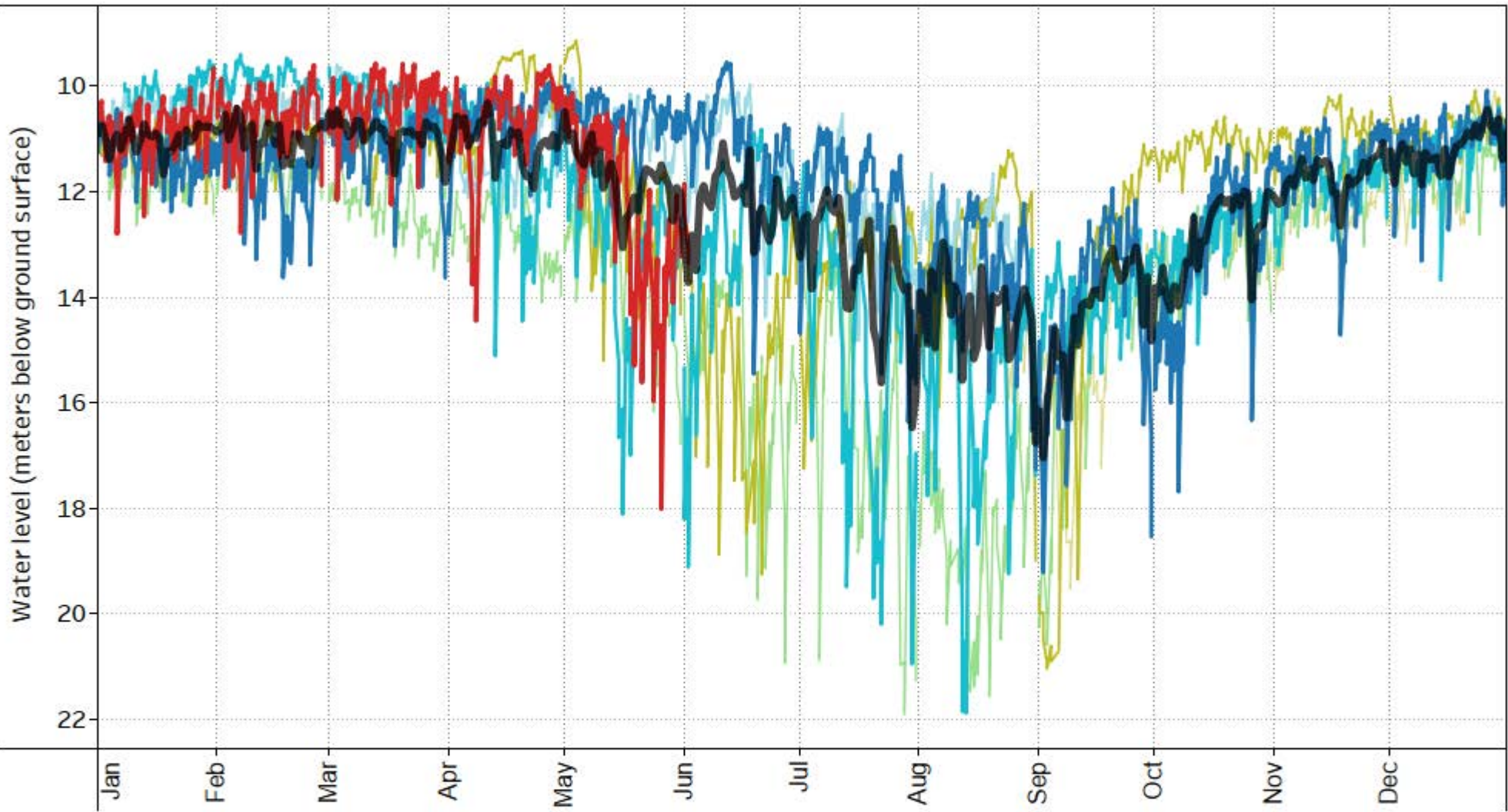
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 389 (WR2 - Little Qualicum)

FIGURE 5-C



VOW 15 - Lowry's (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
212 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

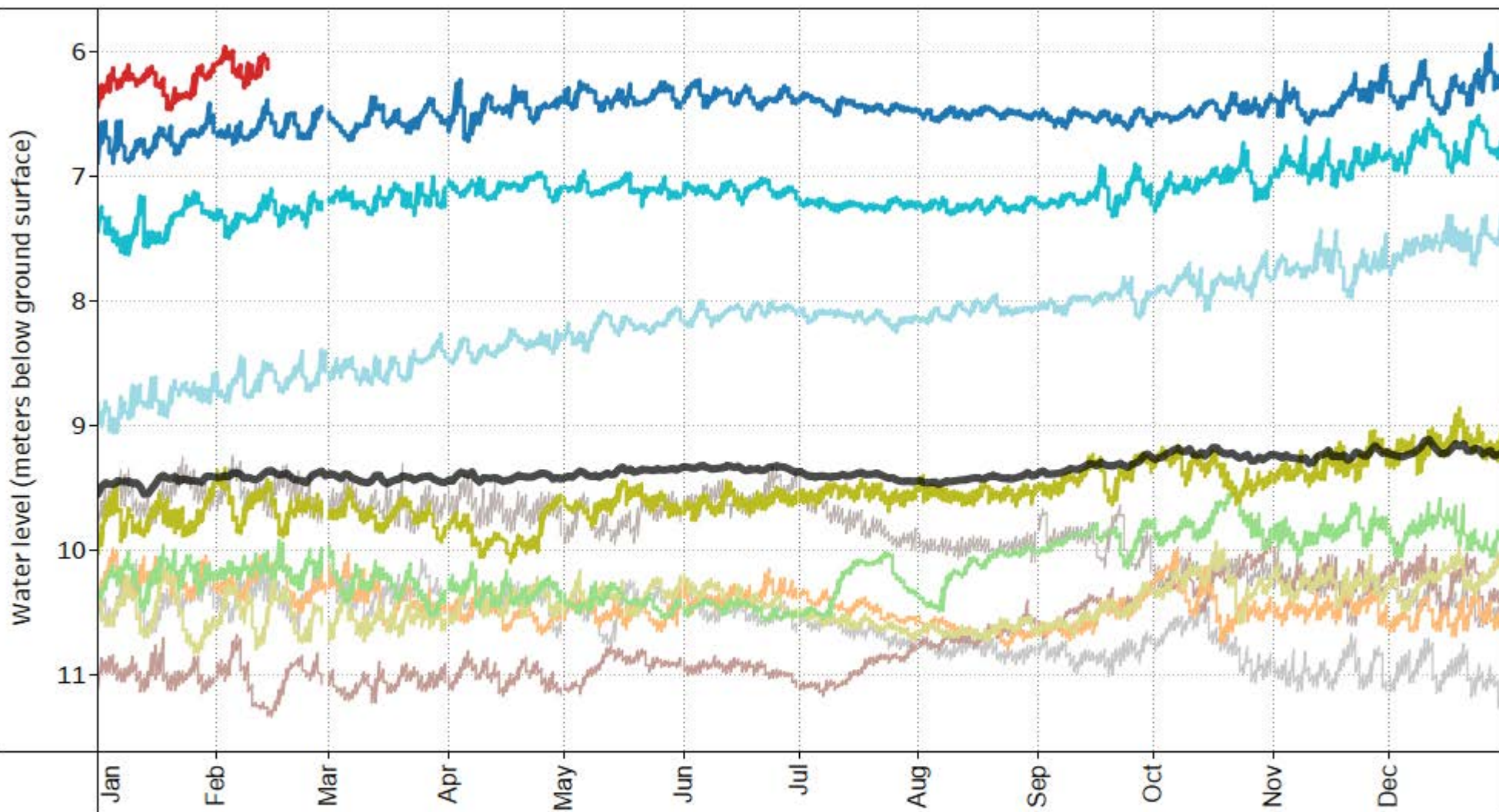
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 15 - Lowry's (WR3 - French Creek)

FIGURE 6-C



OW 304 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

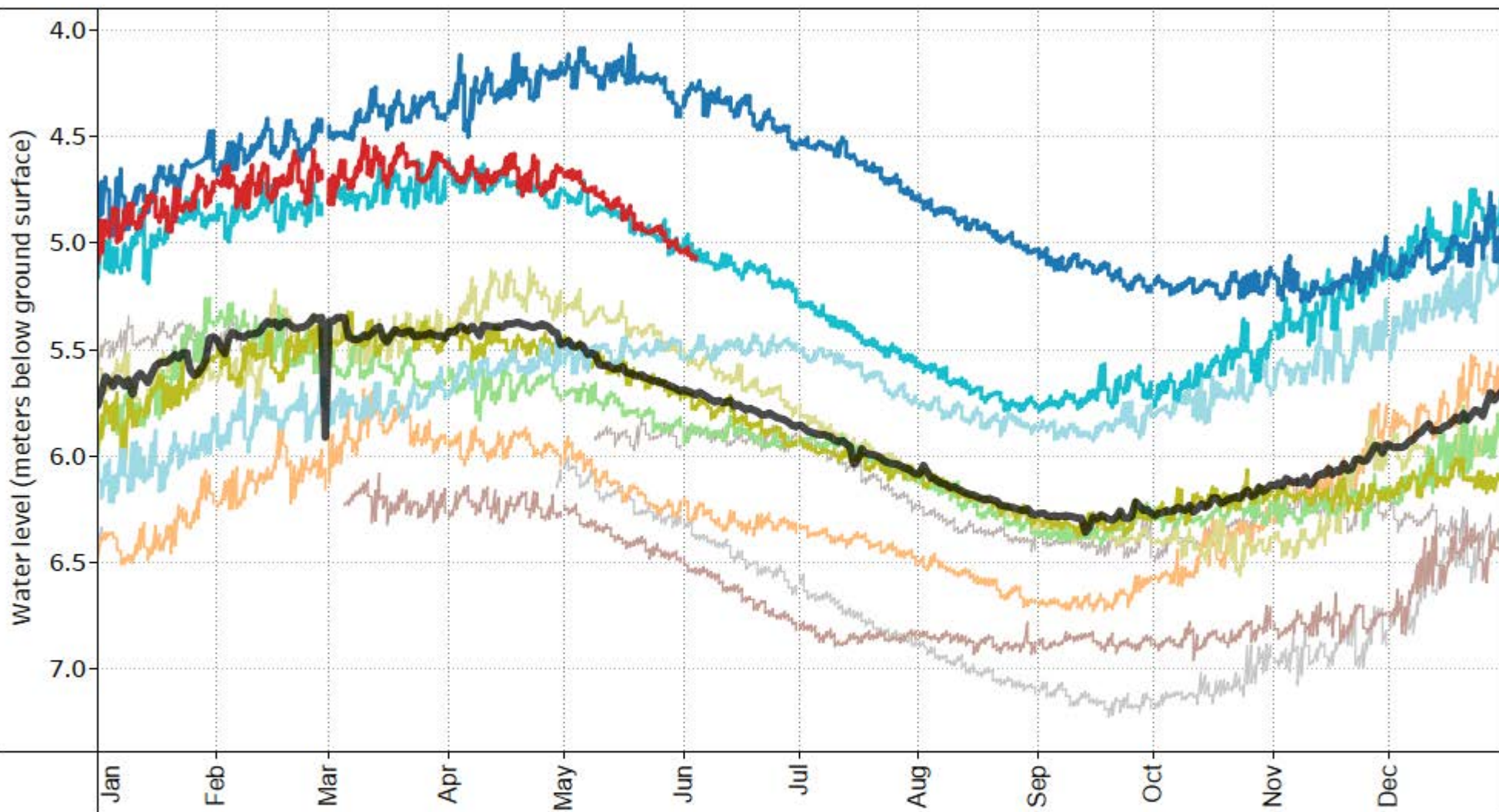
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 304 (WR3 - French Creek)

FIGURE 7-C



OW 314 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> ■ 2023 ■ 2022 ■ 2021 ■ 2020 | <ul style="list-style-type: none"> ■ 2019 ■ 2018 ■ 2017 ■ 2016 | <ul style="list-style-type: none"> ■ 2015 ■ 2014 ■ 2013 ■ Average Groundwater Level (2013-2022) |
|--|--|---|

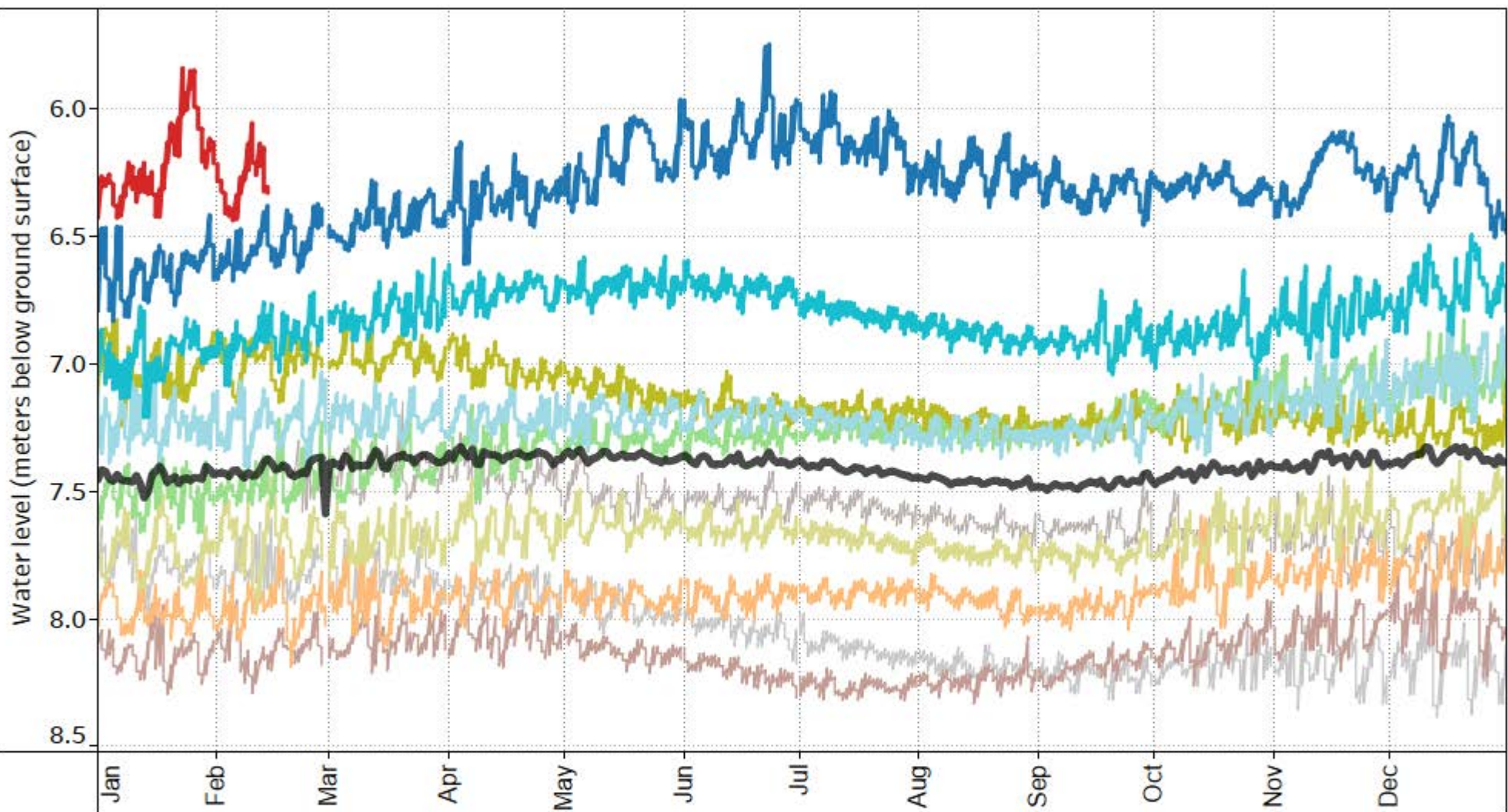
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 314 (WR3 - French Creek)

FIGURE 8-C



OW 398 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

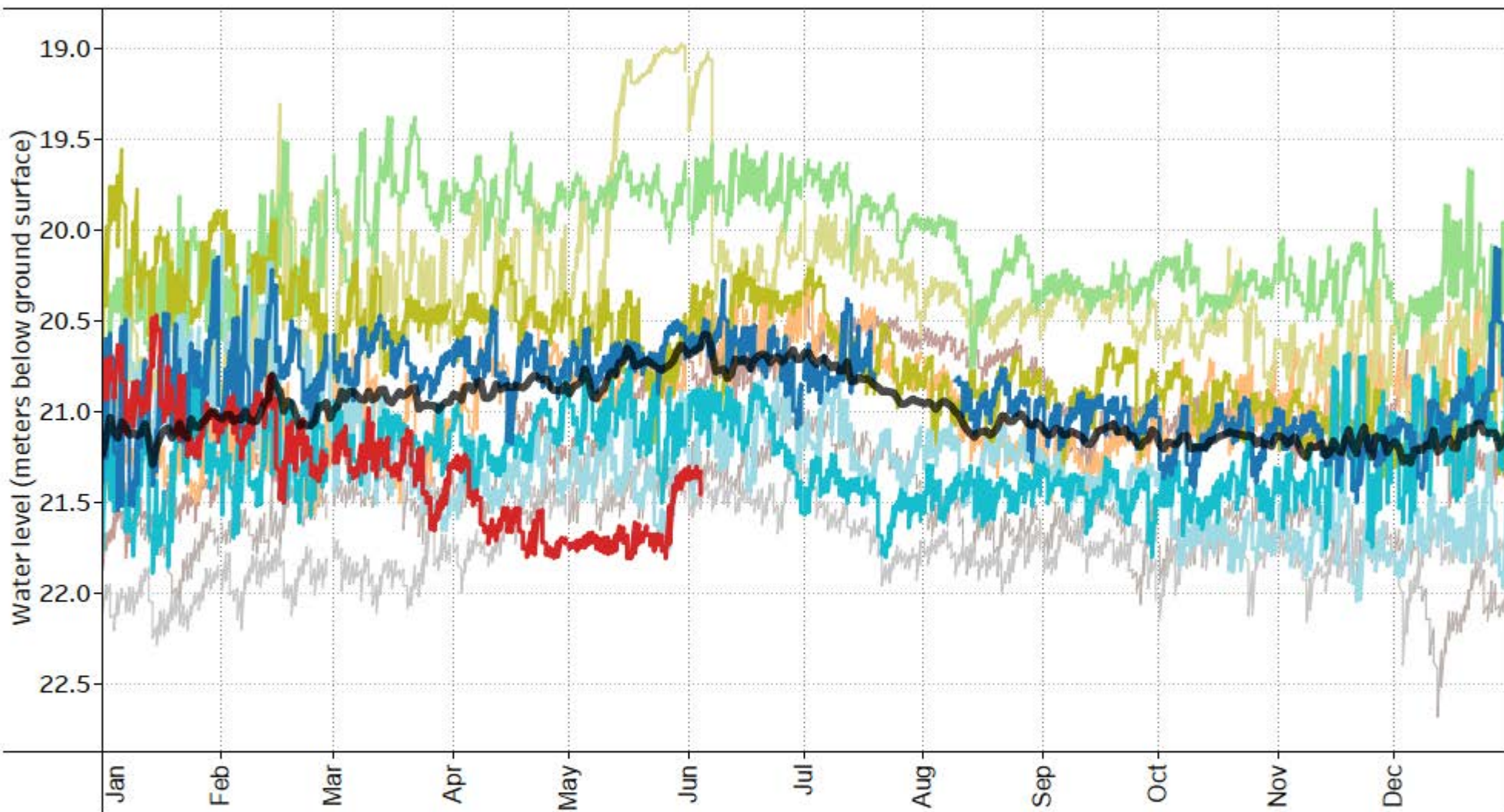
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 398 (WR3 - French Creek)

FIGURE 9-C



OW 424 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

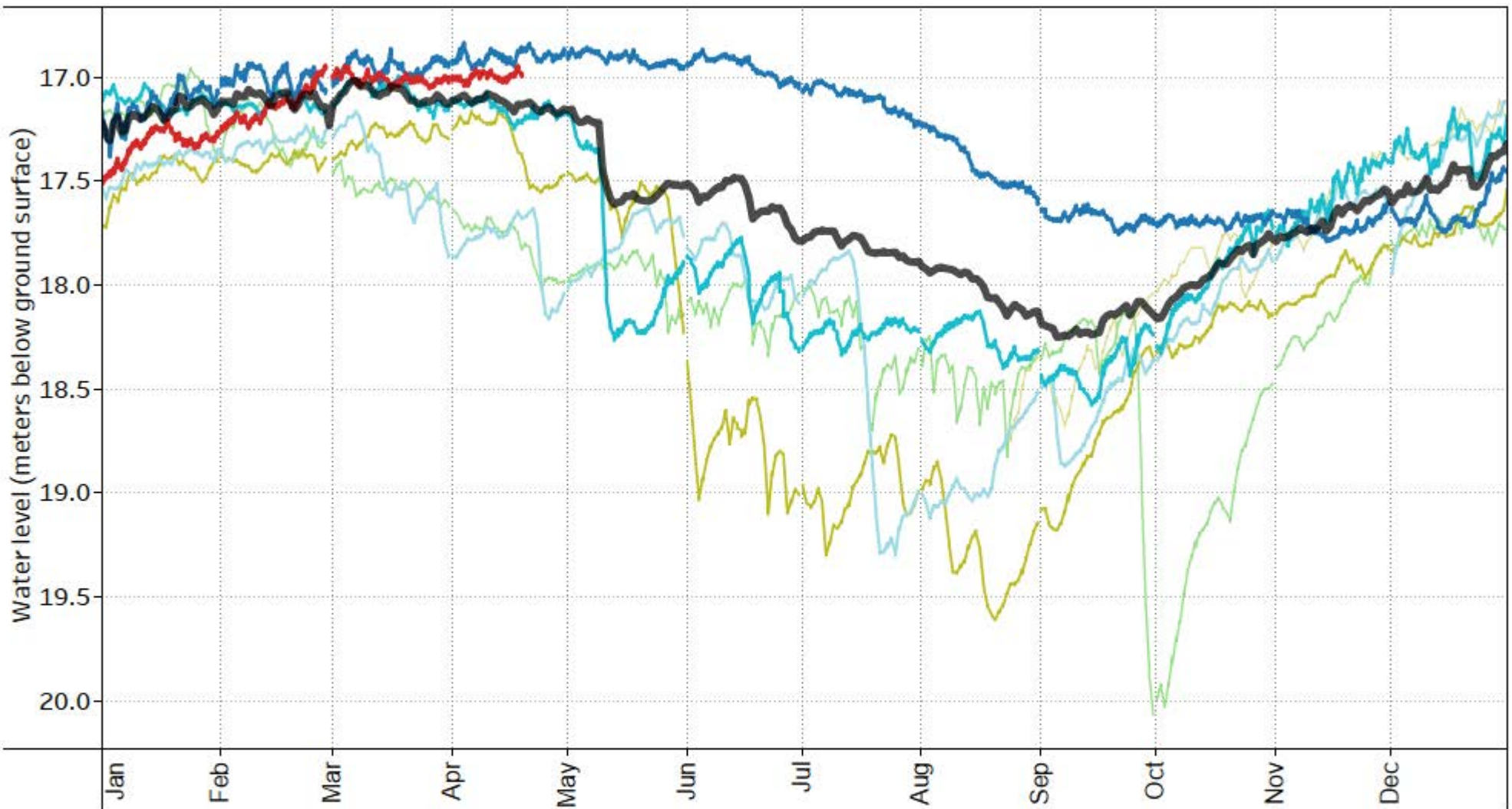
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 424 (WR3 - French Creek)

FIGURE 10-C



VOW 14 - Hodges (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

-
 2023
 -
 2019
-
 2022
 -
 2018
-
 2021
 -
 2017
-
 2020

— Average Groundwater Level
(2013-2022)

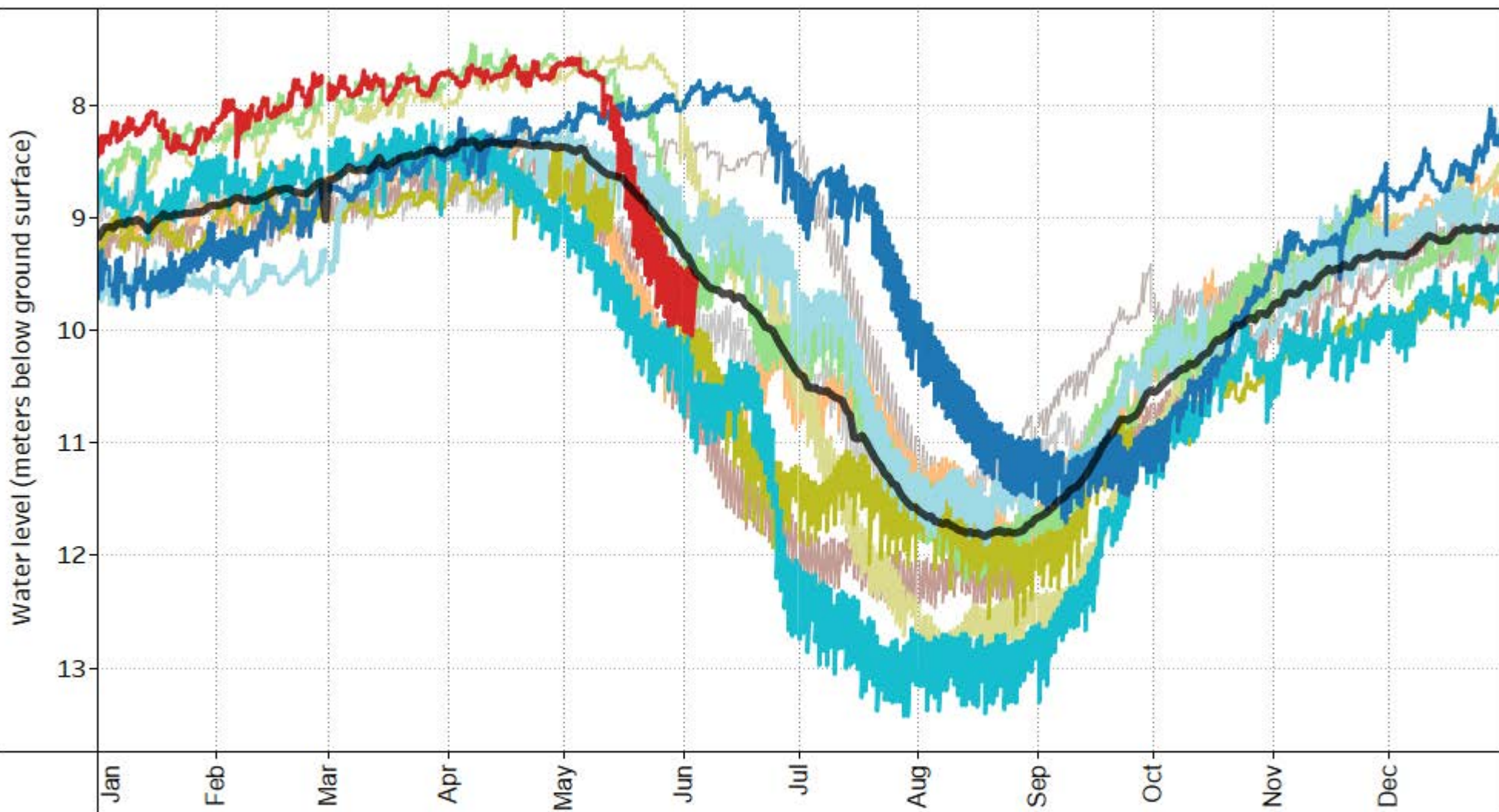
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 14 - Hodges (WR3 - French Creek)

FIGURE 11-C



OW 295 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR		
■ 2023	■ 2019	■ 2015
■ 2022	■ 2018	■ 2014
■ 2021	■ 2017	■ 2013
■ 2020	■ 2016	— Average Groundwater Level (2013-2022)

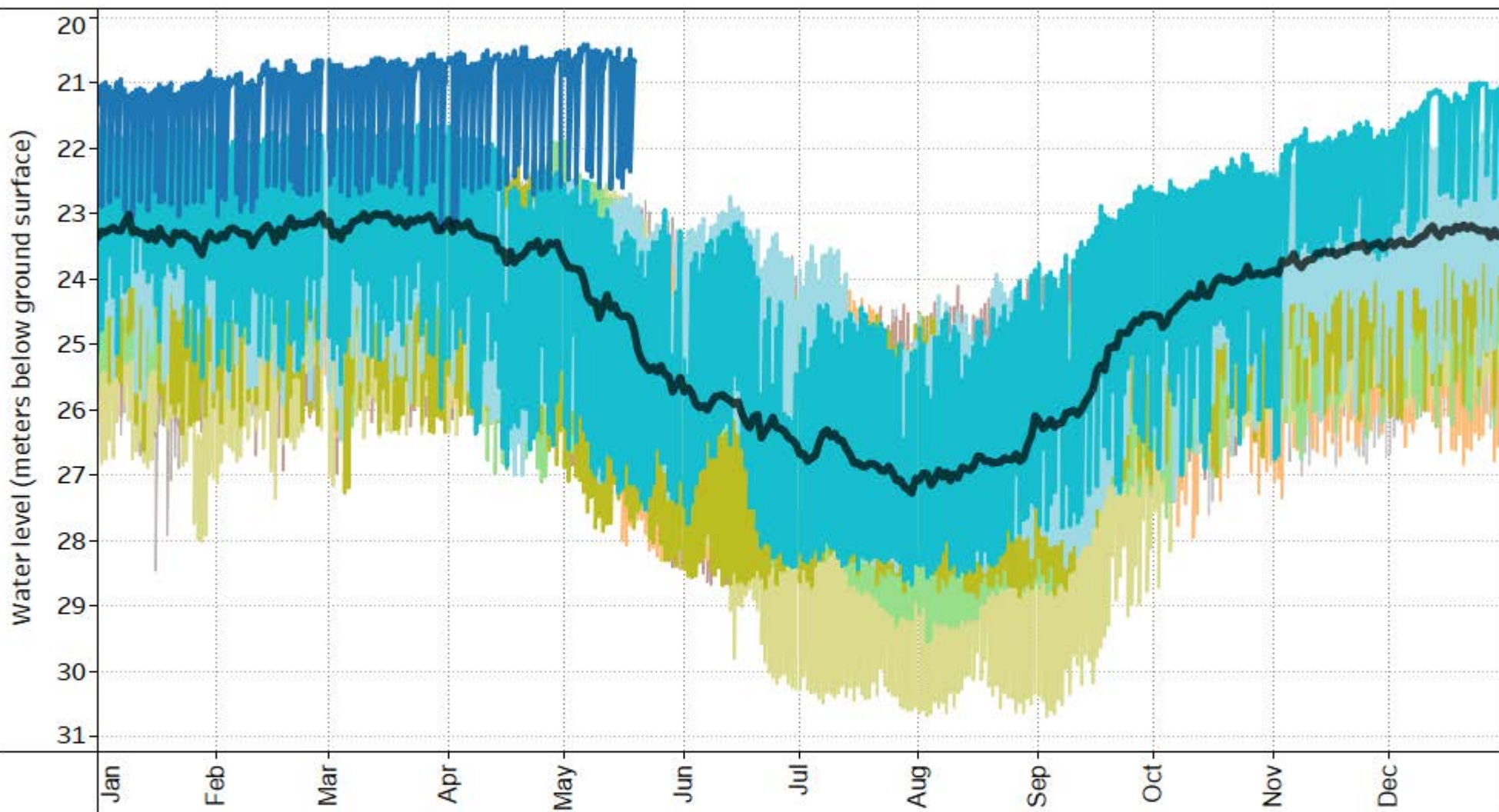
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 295 (WR3 - French Creek)

FIGURE 12-C



OW 303 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

— Average Groundwater Level
(2013-2022)

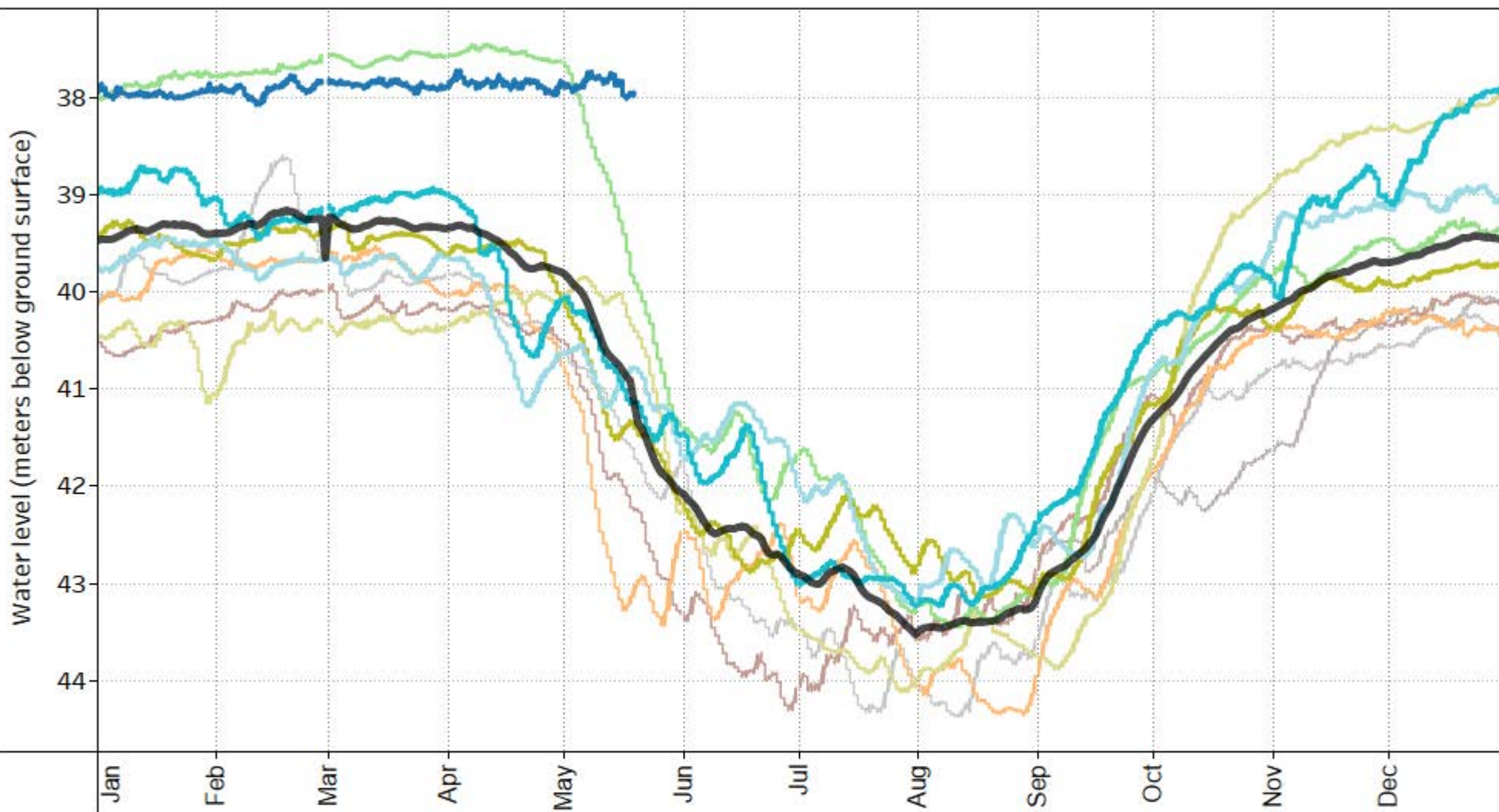
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 303 (WR3 - French Creek)

FIGURE 13-C



OW 433 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- 2022
 - 2021
 - 2020
 - 2019
- 2018
 - 2017
 - 2016
 - 2015
- 2014
 - 2013
 - Average Groundwater Level (2013-2022)

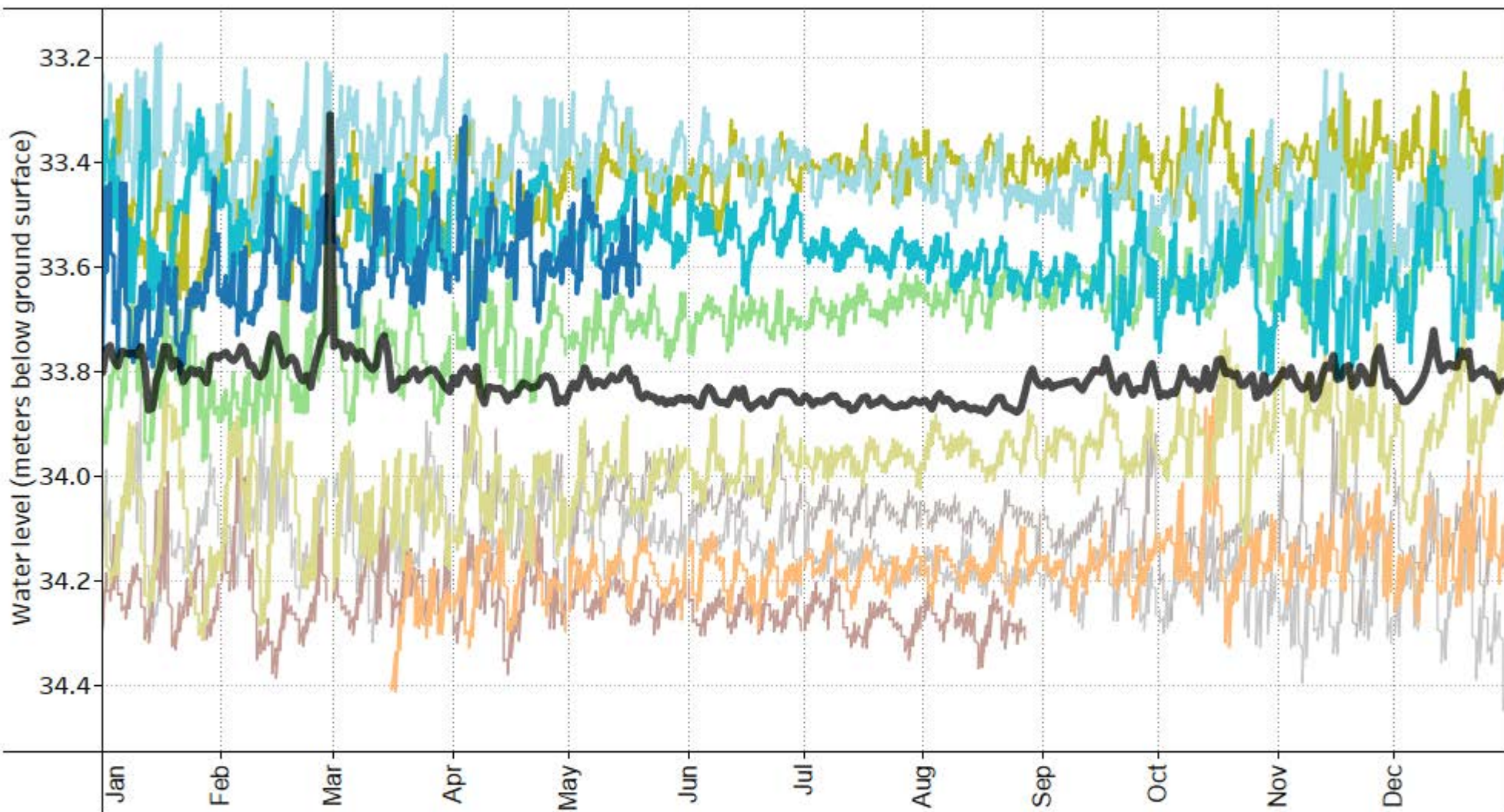
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 433 (WR3 - French Creek)

FIGURE 14-C



OW 434 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |
| ■ 2019 | ■ 2015 | |

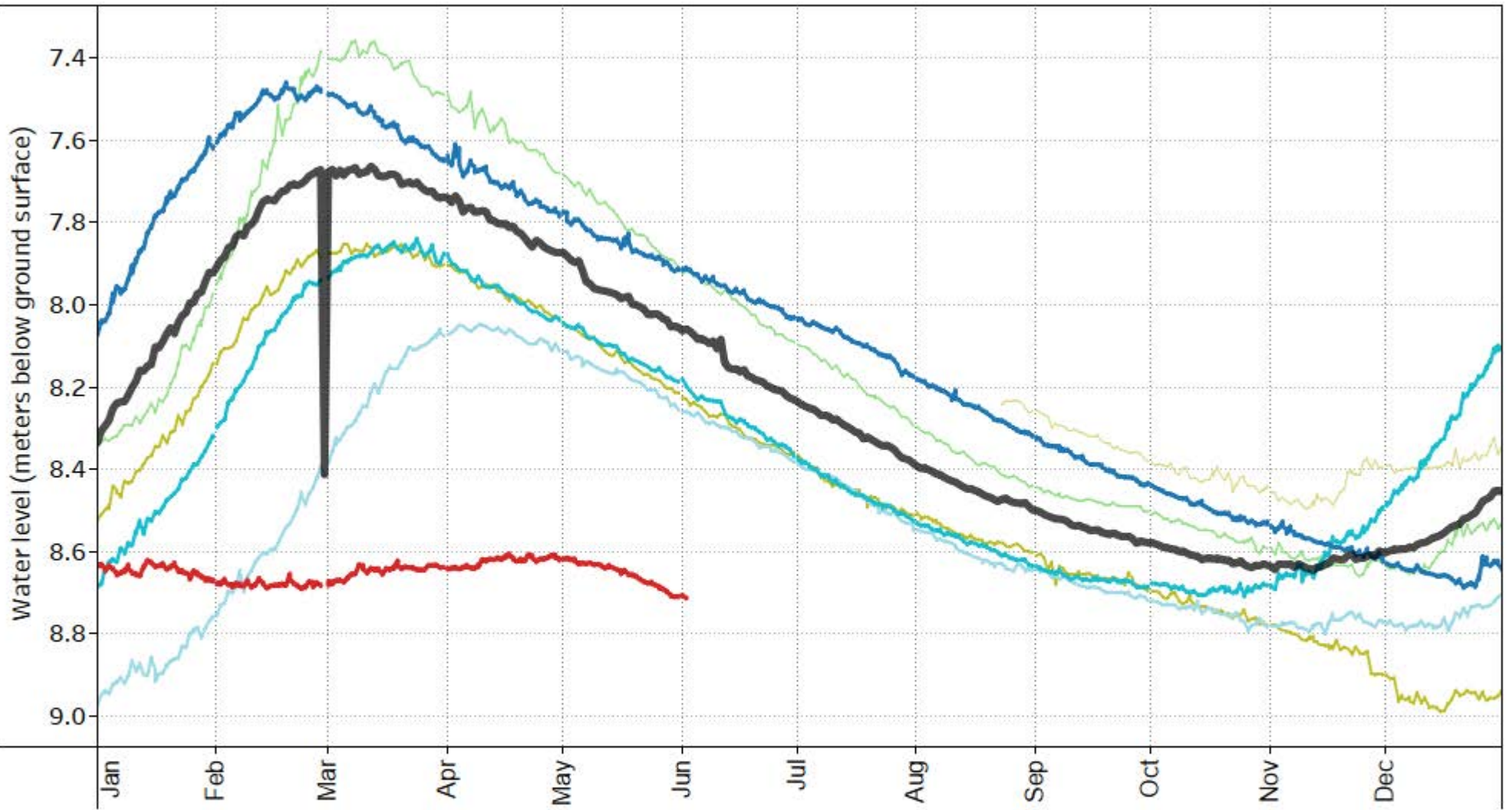
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 434 (WR3 - French Creek)

FIGURE 15-C



VOW 16 - Rinvold (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
217 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

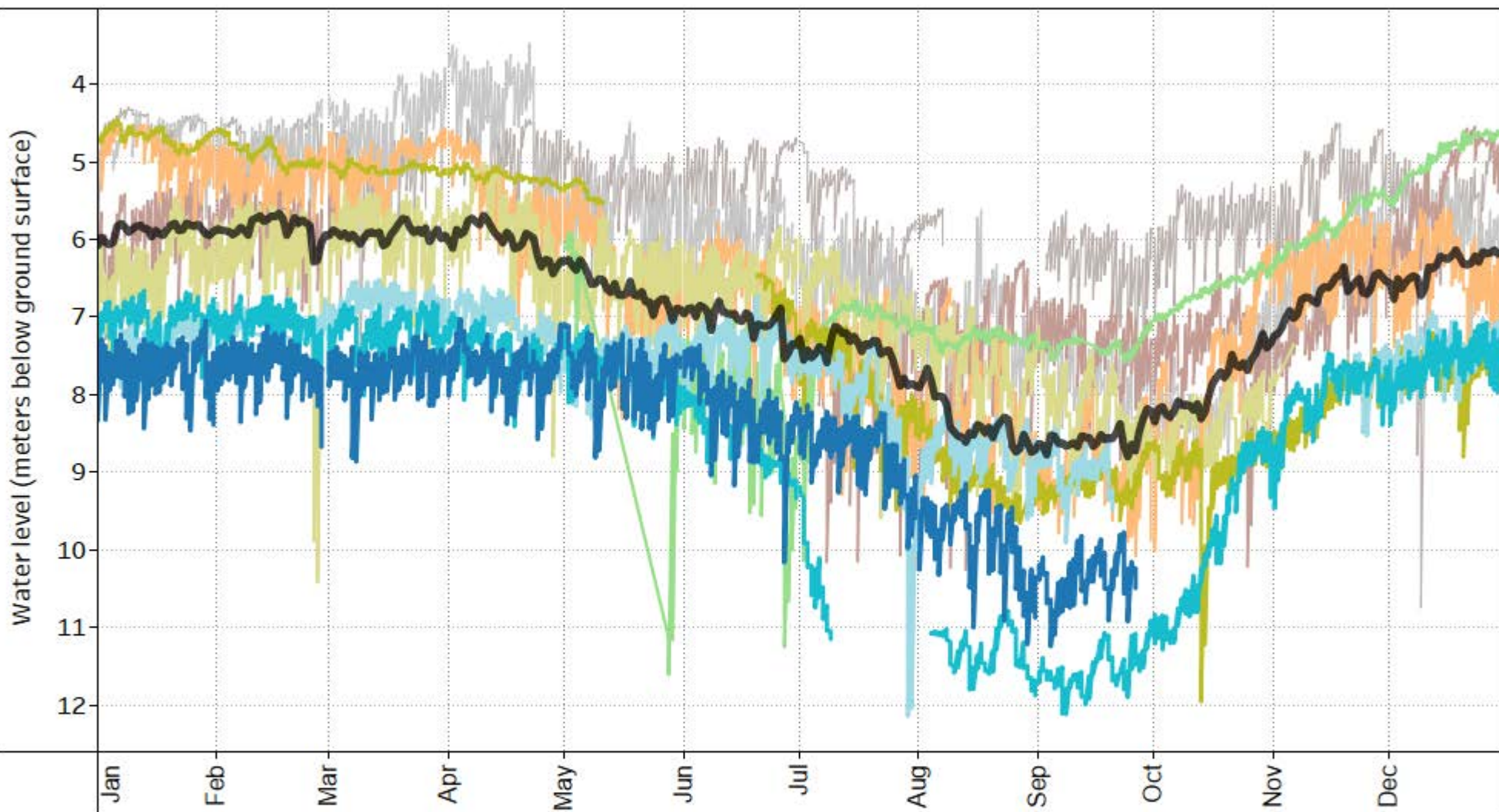
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 16 - Rinvold (WR3 - French Creek)

FIGURE 16-C



OW 287 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
220 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | — Average Groundwater Level
(2013-2022) |

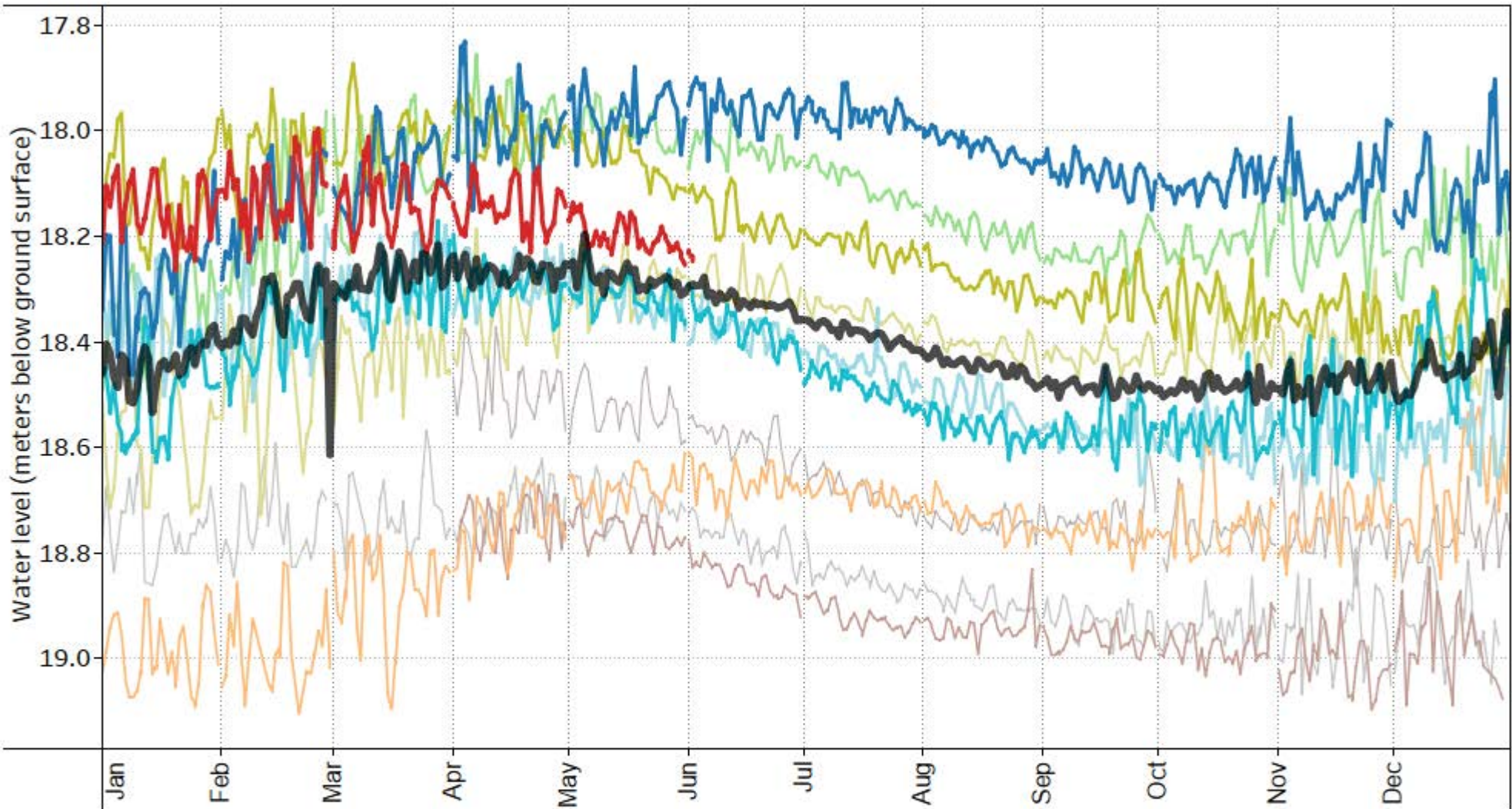
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 287 (WR3 - French Creek)

FIGURE 17-C



VOW 01 - Fourneau (WR4 - Englishman River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
216 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

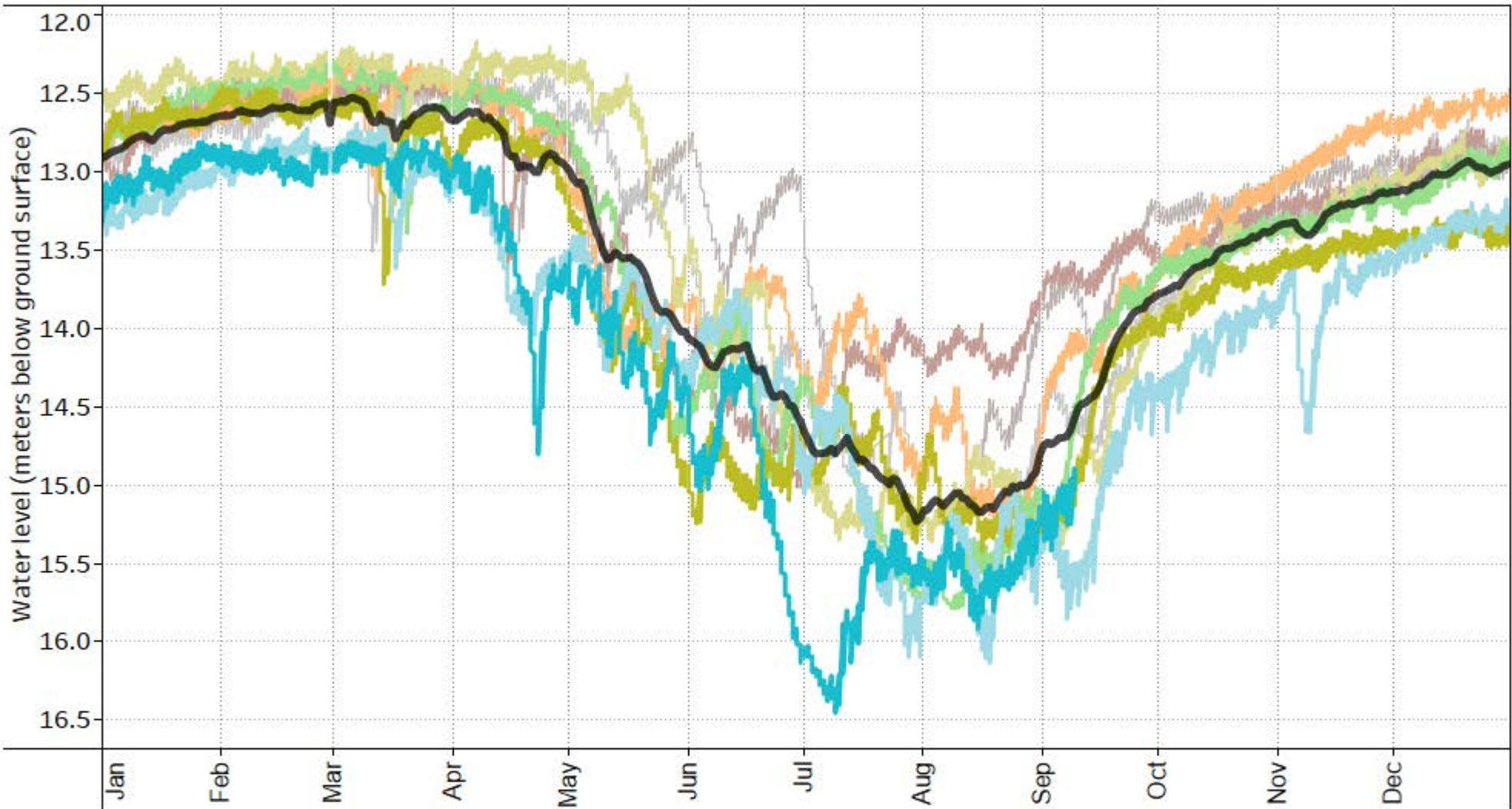
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 01 - Fourneau (WR4 - Englishman River)

FIGURE 18-C



OW 395 (WR4 - Englishman River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|--|--|--|
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |
| ■ 2018 | ■ 2014 | |
- Average Groundwater Level
(2013-2022)

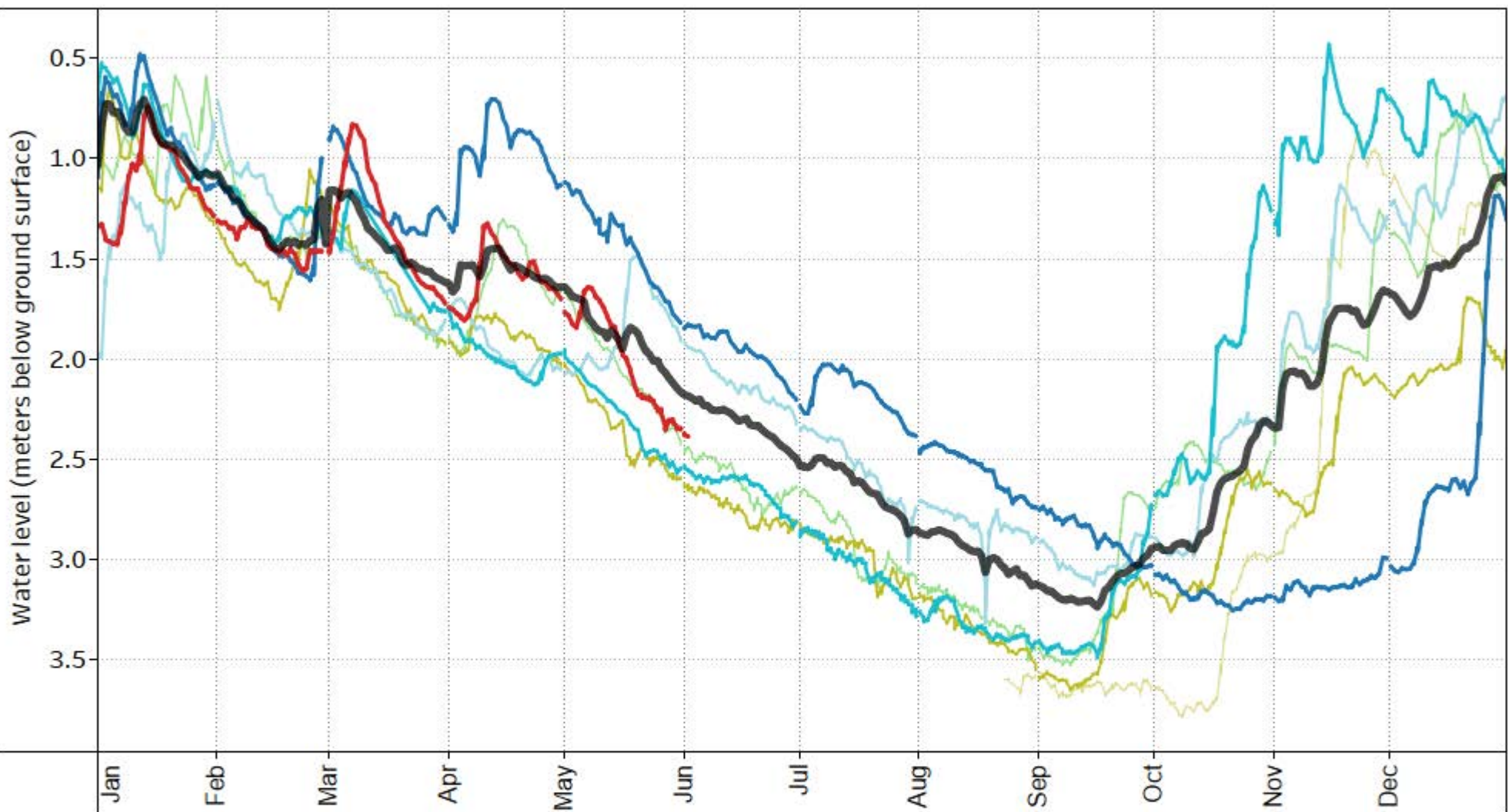
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 395 (WR4 - Englishman River)

FIGURE 19-C



VOW 18 - Middlegate (WR4 - Englishman River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
220 (Fractured sedimentary
rock)

YEAR

- 2023
 ■ 2019
- 2022
 ■ 2018
- 2021
 ■ 2017
- 2020

— Average Groundwater Level
(2013-2022)

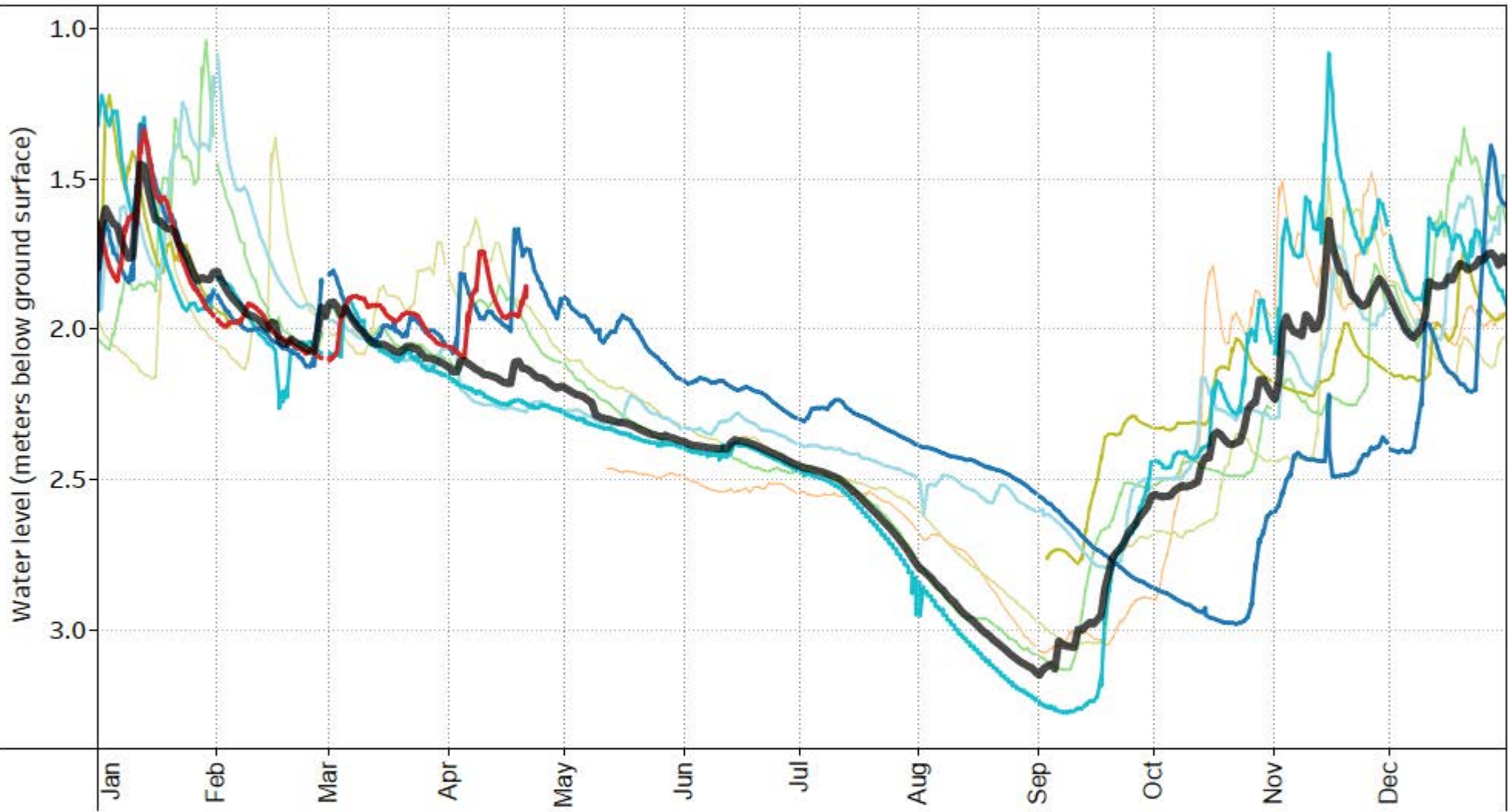
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 18 - Middlegate (WR4 - Englishman River)

FIGURE 20-C



VOW 12 - Biggs (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
167 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

— Average Groundwater Level
(2013-2022)

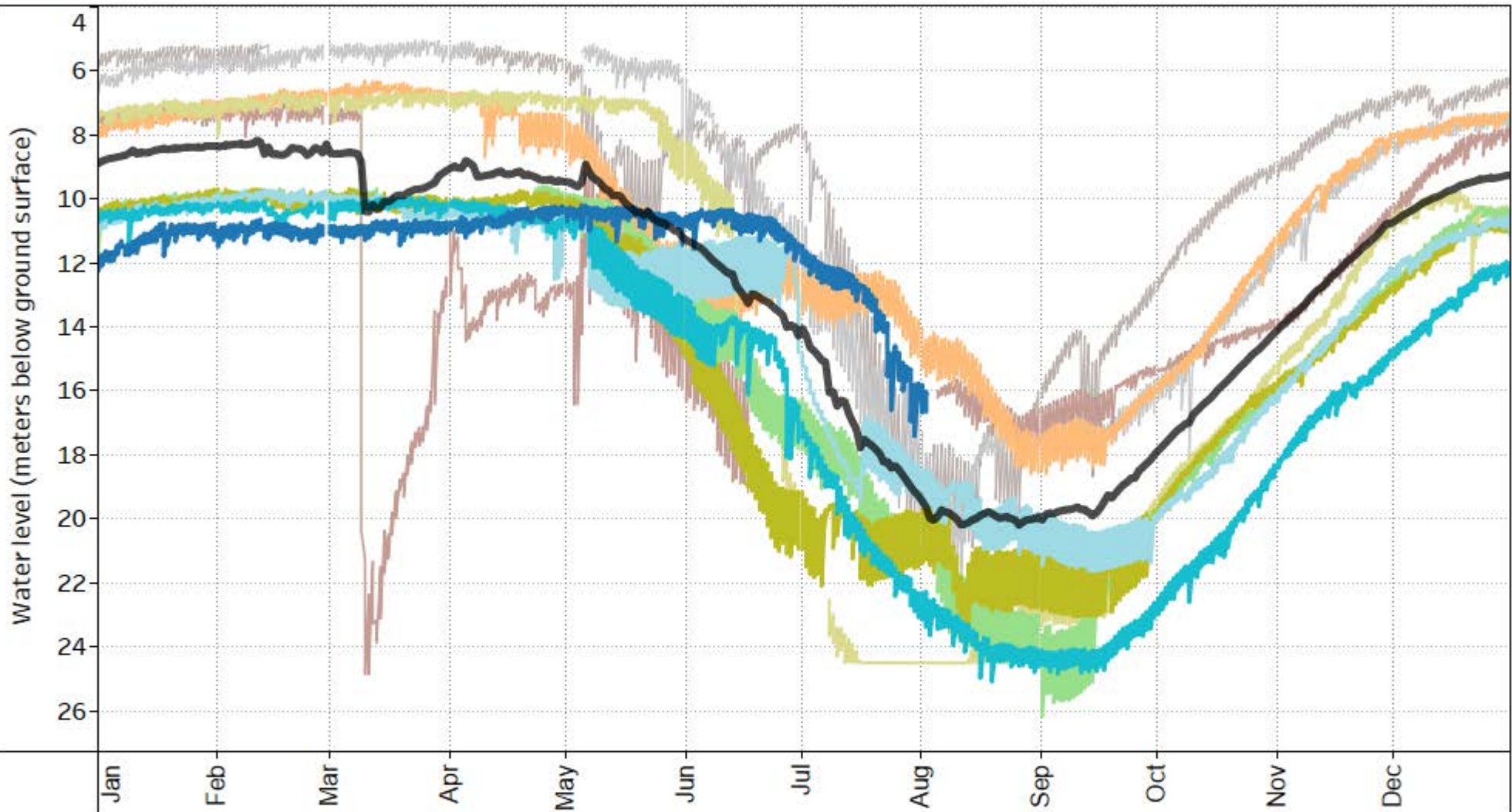
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 12 - Biggs (WR5 - Nanoose to South Wellington)

FIGURE 21-C



OW 388 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
211 (Fractured crystalline
bedrock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |
- Average Groundwater Level
(2013-2022)

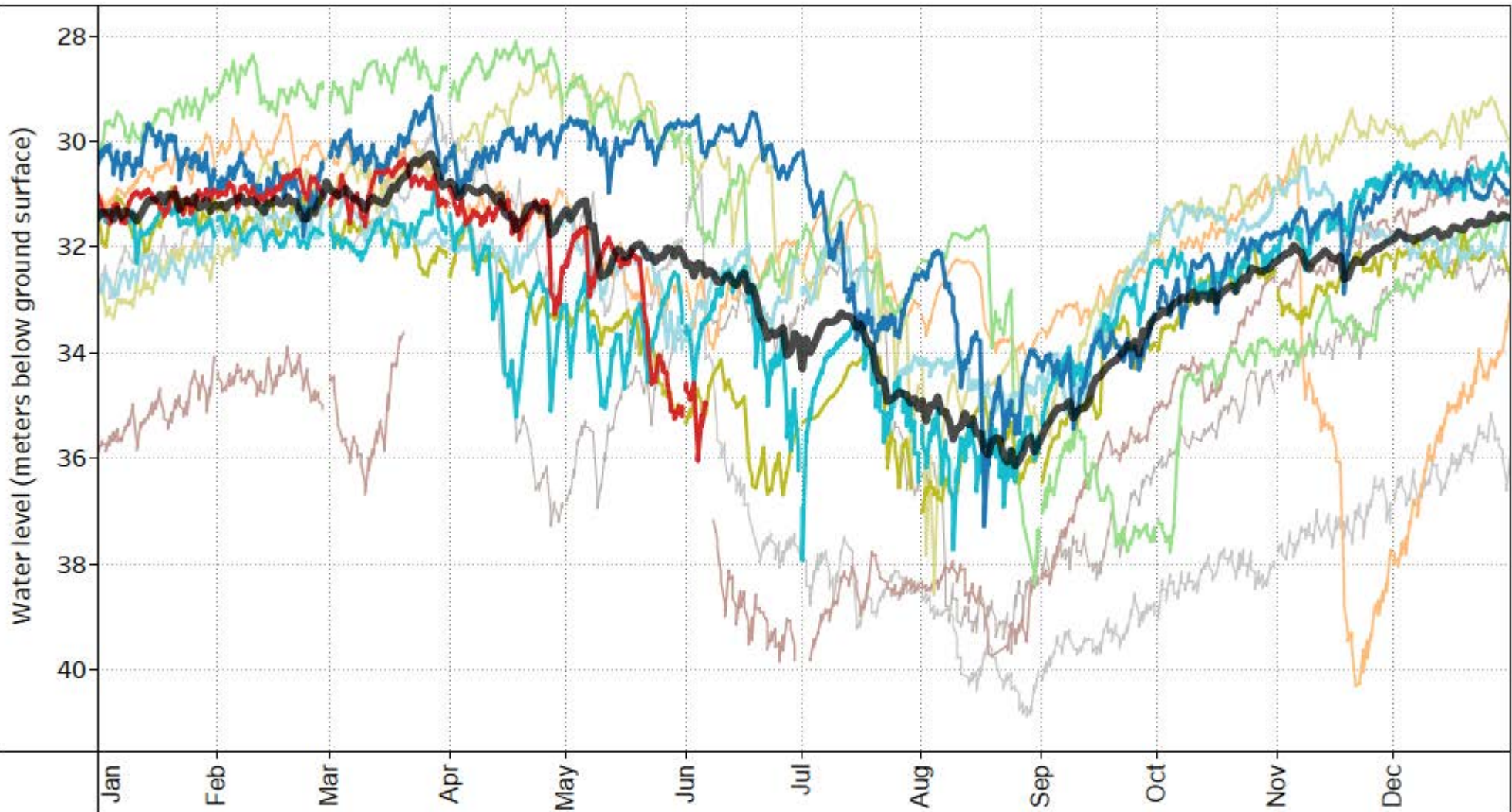
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 388 (WR5 - Nanoose to South Wellington)

FIGURE 22-C



VOW 02 - Northwind (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

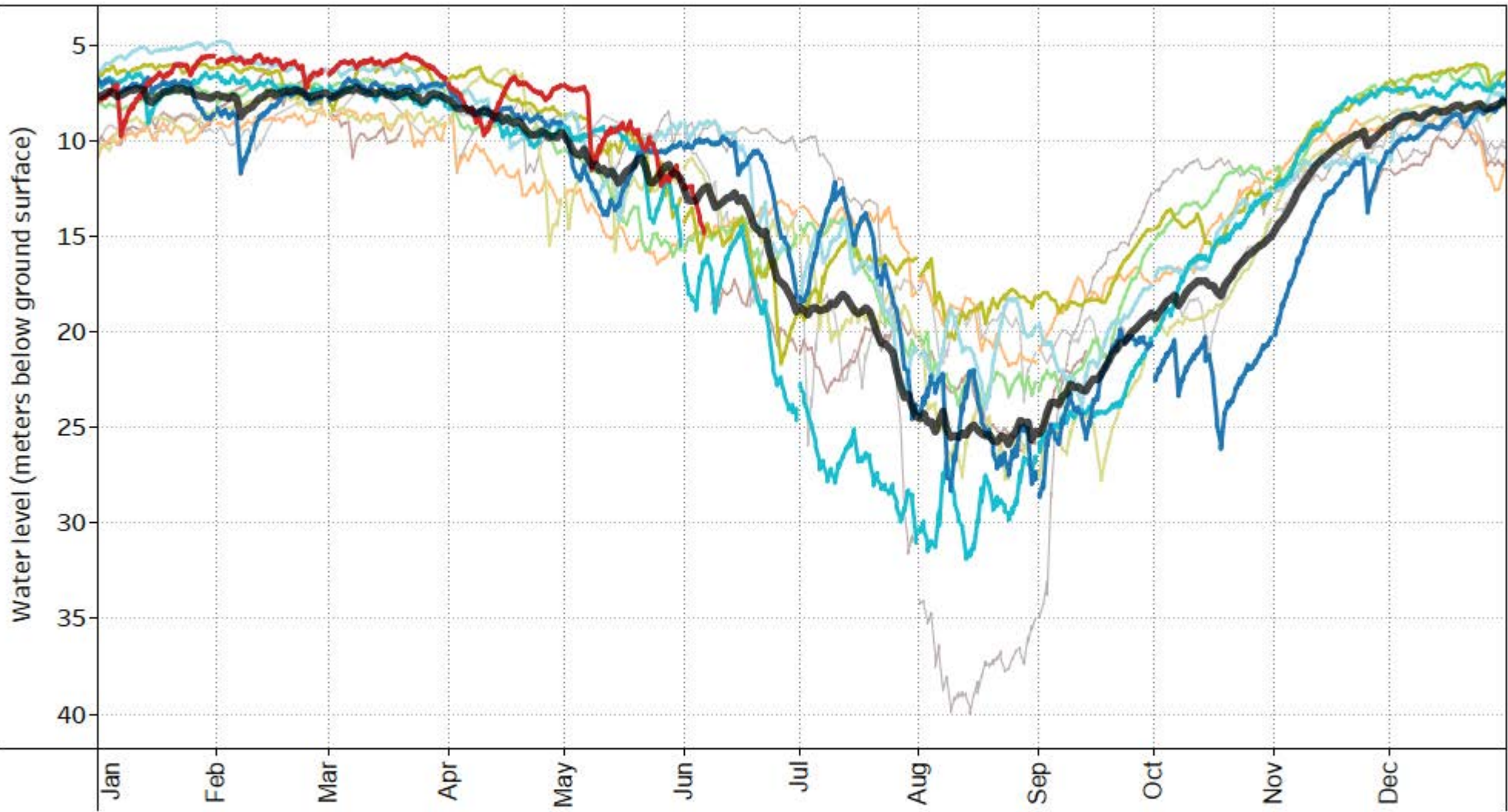
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 02 - Northwind (WR5 - Nanoose to South Wellington)

FIGURE 23-C



VOW 03 - Elm (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

- | | | |
|--------|--------|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level (2013-2022) |

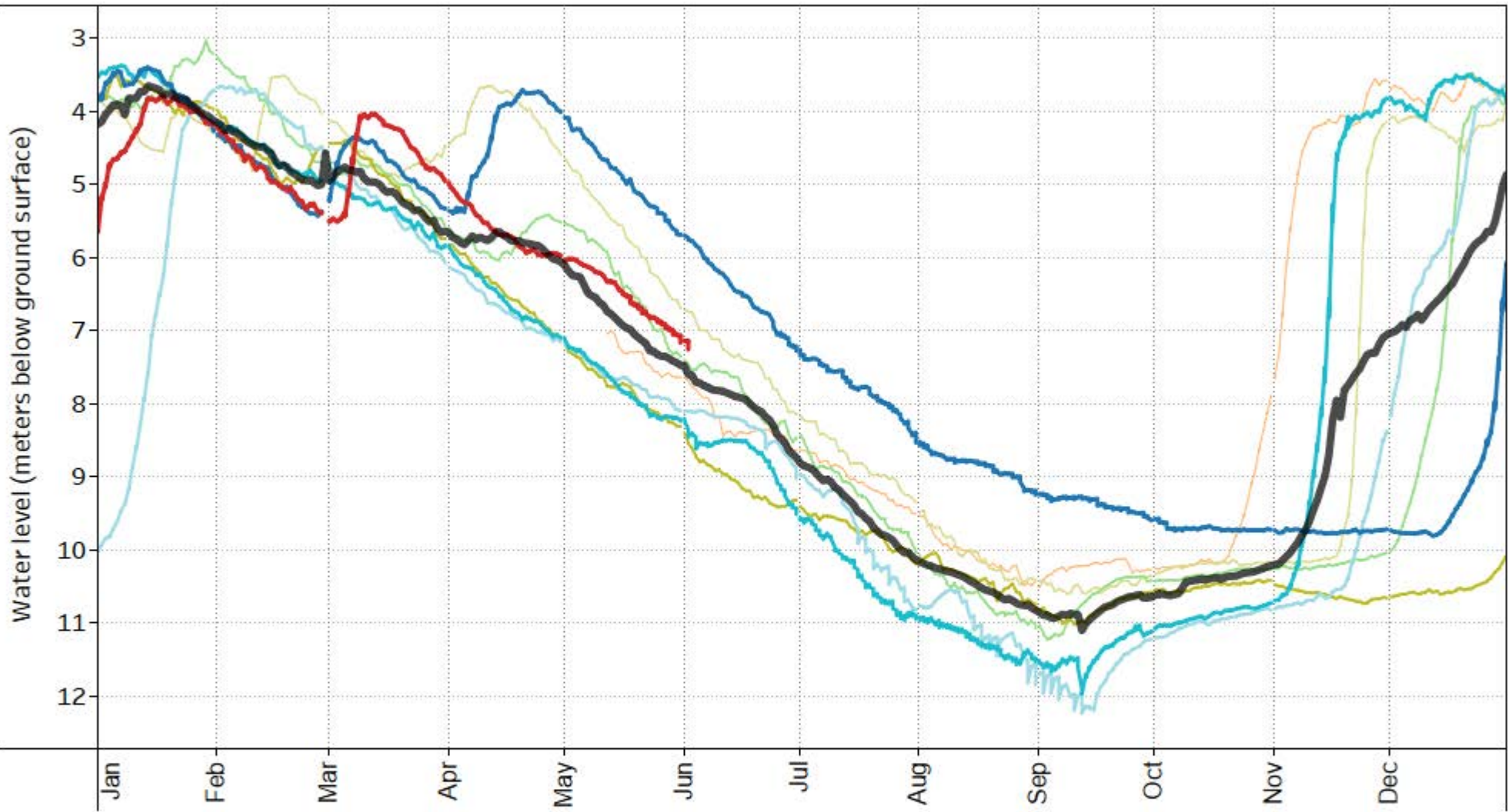
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 03 - Elm (WR5 - Nanoose to South Wellington)

FIGURE 24-C



VOW 13 - Sea Blush (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
213 (Fractured crystalline
bedrock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

— Average Groundwater Level
(2013-2022)

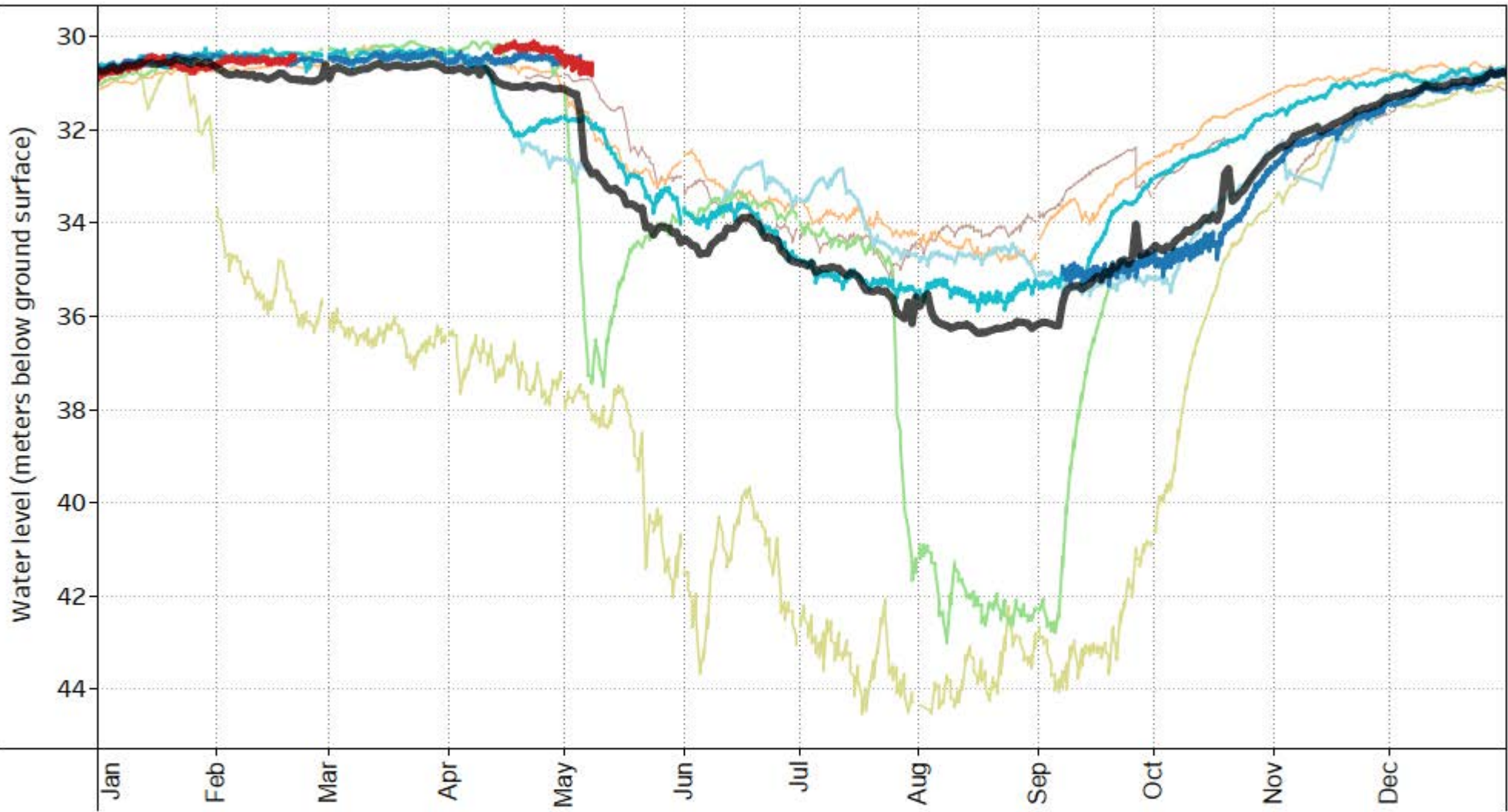
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 13 - Sea Blush (WR5 - Nanoose to South Wellington)

FIGURE 25-C



VOW 30 - B2 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | |
|---|--|
| ■ 2023 | ■ 2018 |
| ■ 2022 | ■ 2017 |
| ■ 2021 | ■ 2016 |
| ■ 2020 | ■ 2015 |

— Average Groundwater Level
(2013-2022)

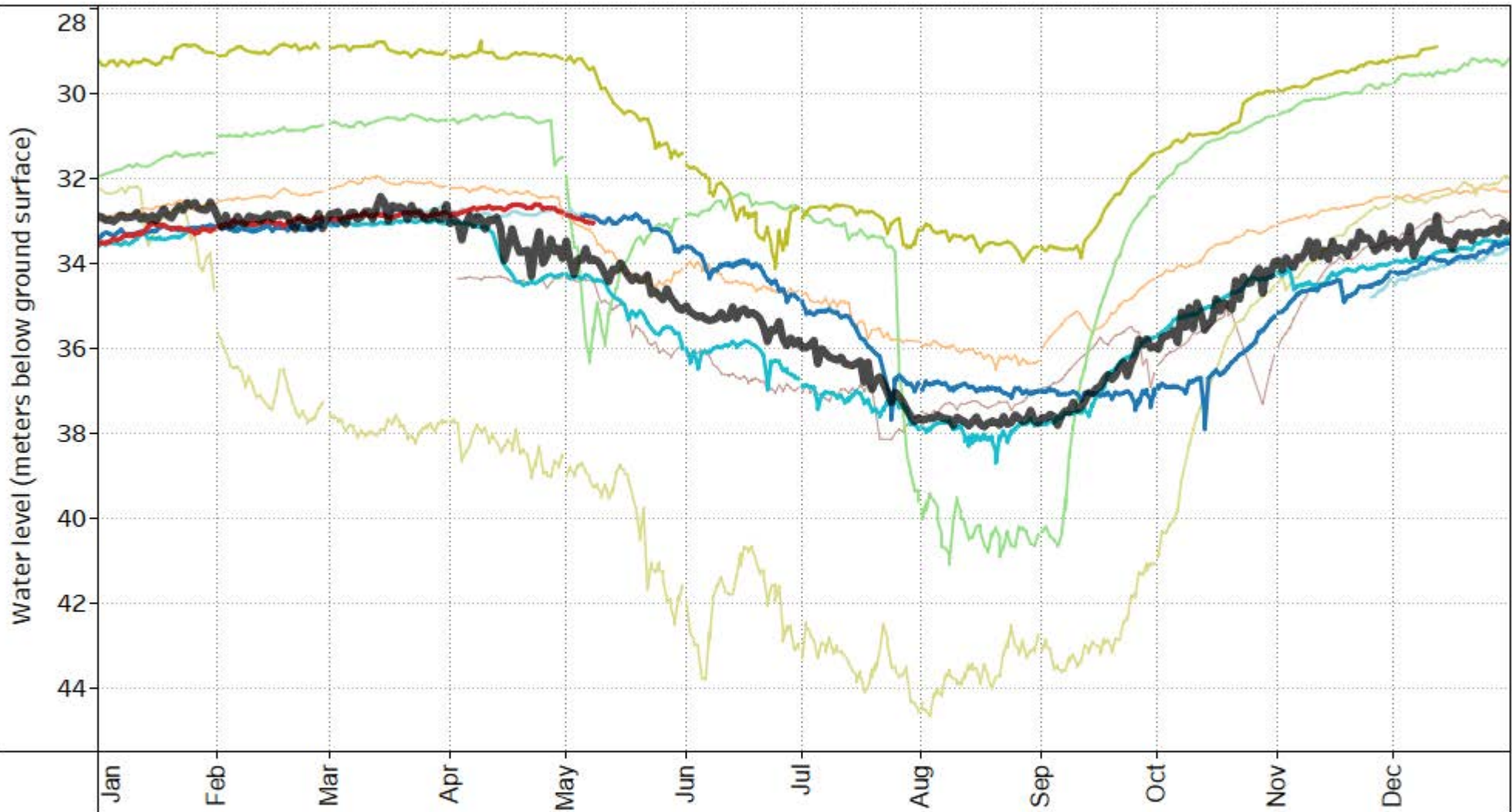
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 30 - B2 (WR5 - Nanoose to South Wellington)

FIGURE 26-C



VOW 31 - B3 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|--|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |
| | — Average Groundwater Level
(2013-2022) | |

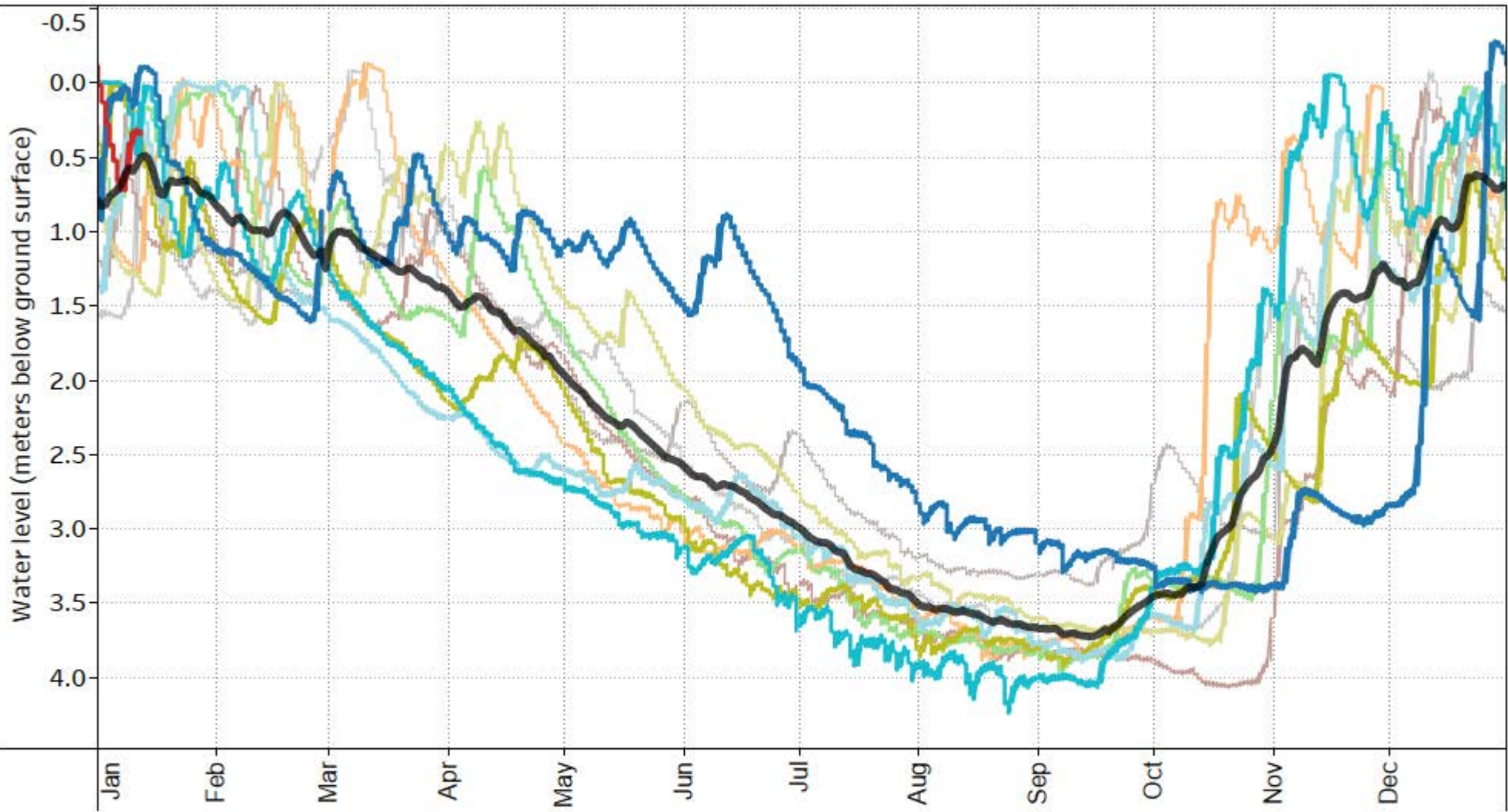
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 31 - B3 (WR5 - Nanoose to South Wellington)

FIGURE 27-C



OW 196 (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|------|------|--|
| 2023 | 2019 | 2015 |
| 2022 | 2018 | 2014 |
| 2021 | 2017 | 2013 |
| 2020 | 2016 | Average Groundwater Level
(2013-2022) |

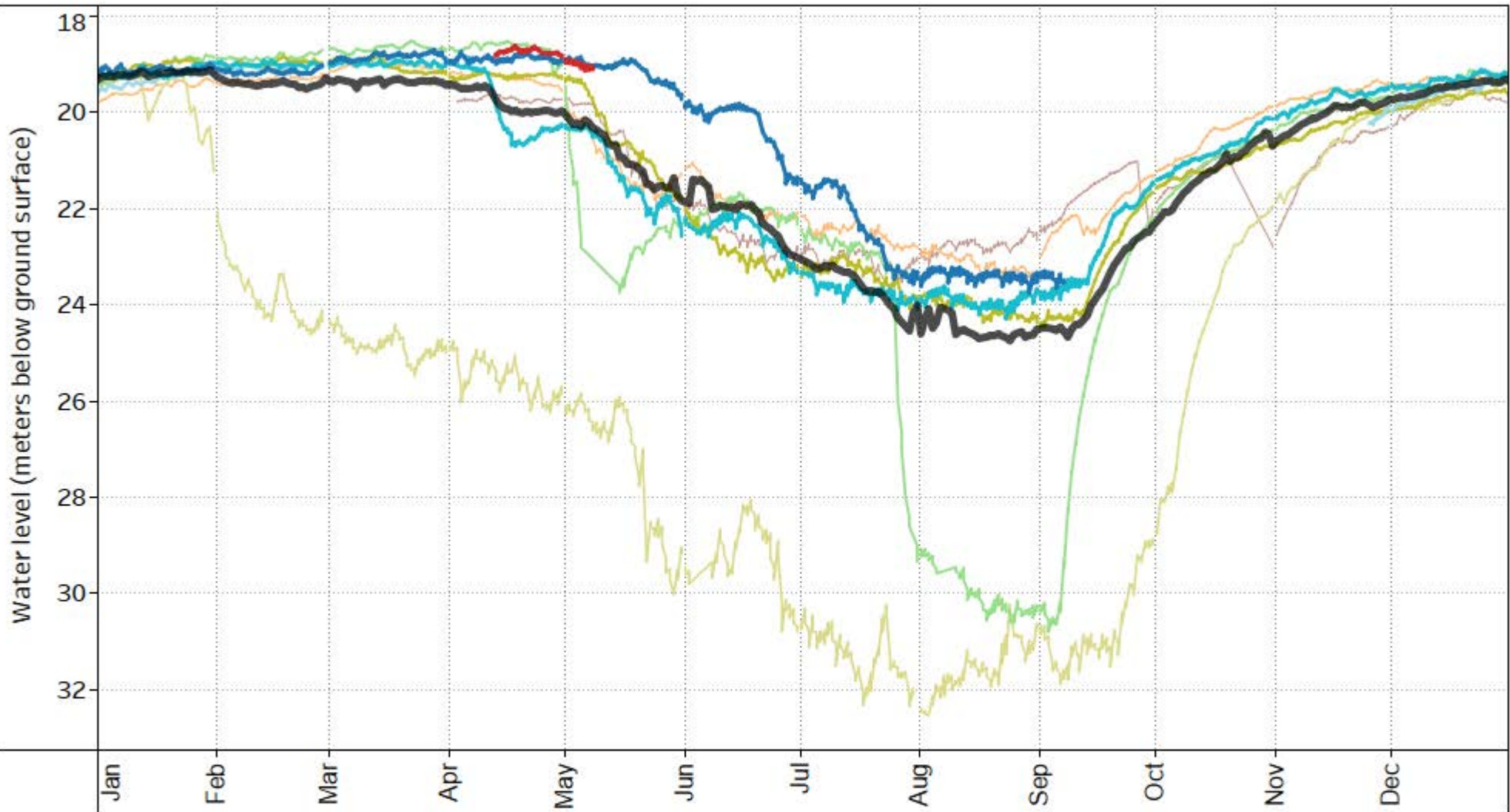
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 196 (WR7 - Gabriola Island)

FIGURE 58-C



VOW 32 - B4 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ Average Groundwater Level
(2013-2022) |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

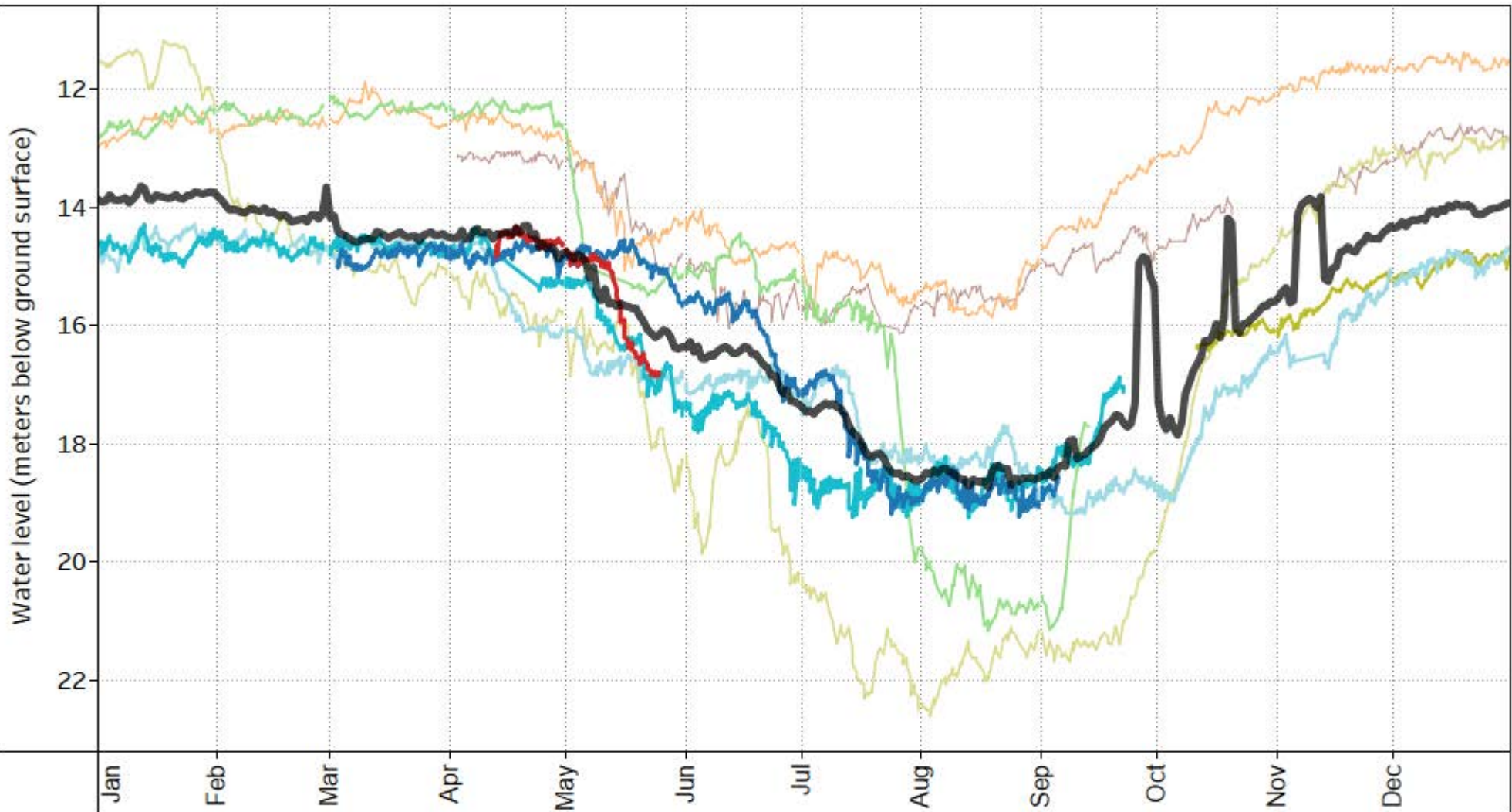
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 32 - B4 (WR5 - Nanoose to South Wellington)

FIGURE 28-C



VOW 33 - B7 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | |
| ■ 2021 | ■ 2017 | — Average Groundwater Level
(2013-2022) |
| ■ 2020 | ■ 2016 | |

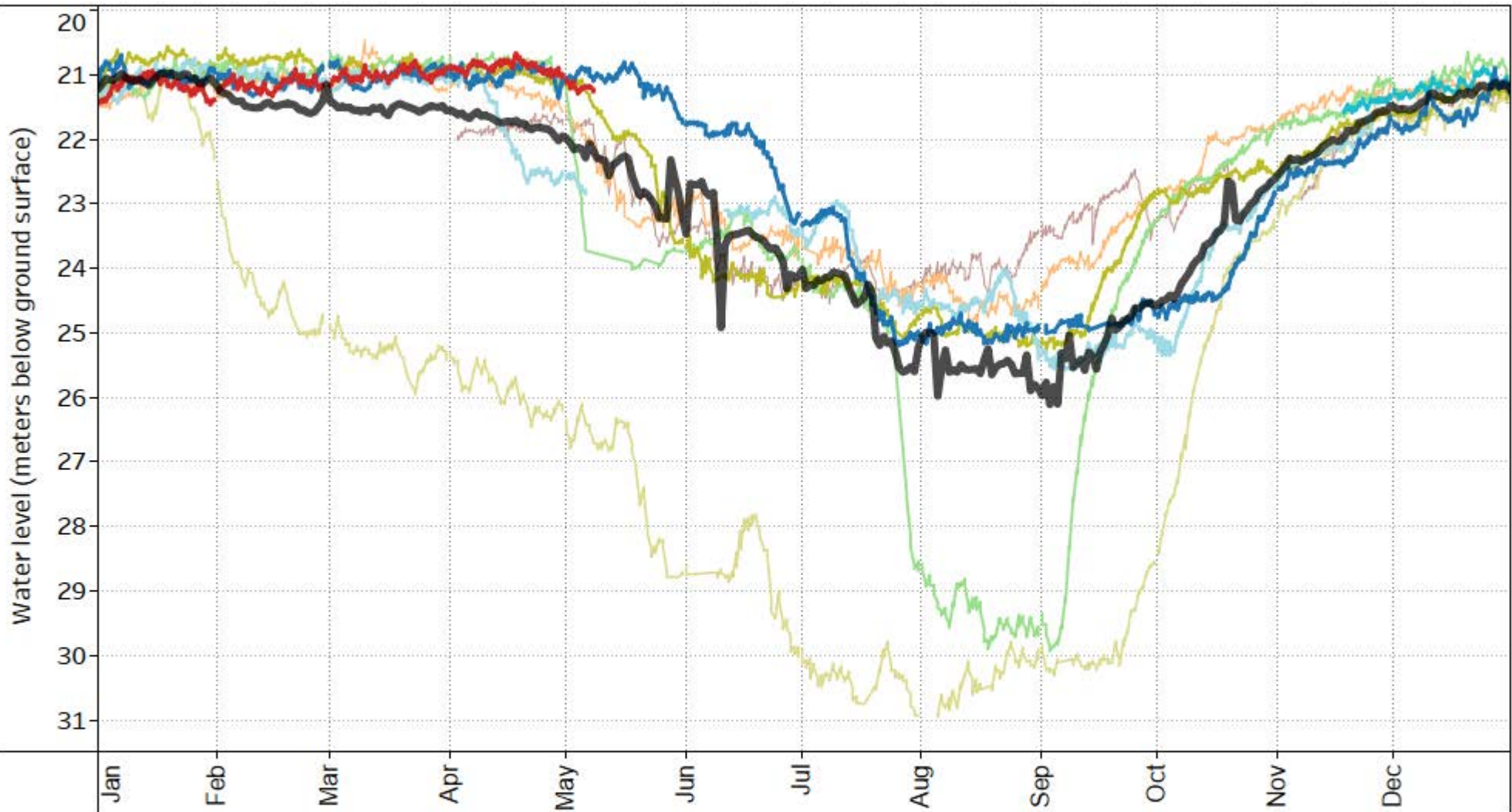
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 33 - B7 (WR5 - Nanoose to South Wellington)

FIGURE 29-C



VOW 34 - B9 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
214 (Fractured sedimentary
rock)

YEAR

- | | | |
|---|--|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | — Average Groundwater Level
(2013-2022) |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

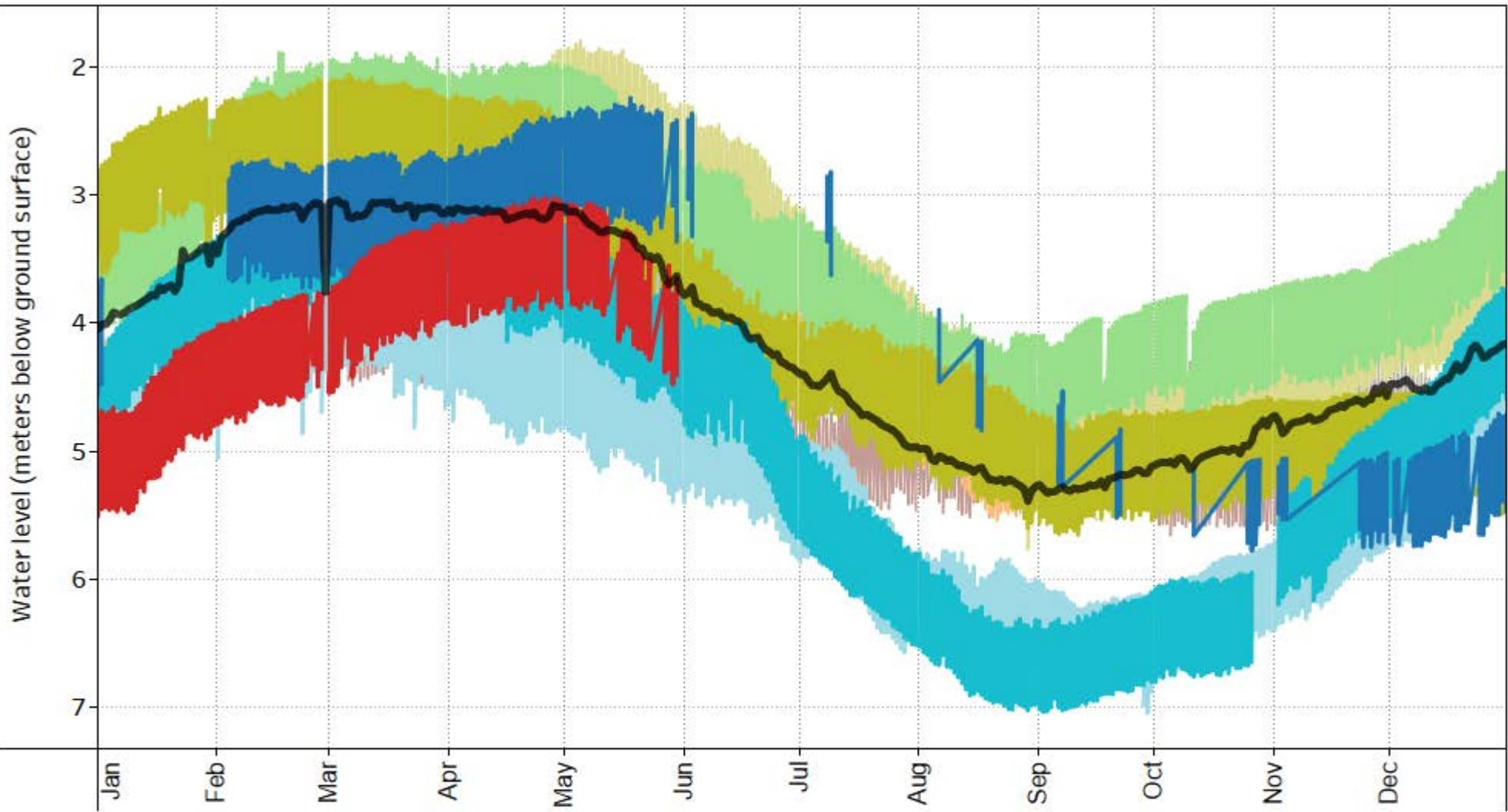
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 34 - B9 (WR5 - Nanoose to South Wellington)

FIGURE 30-C



OW 232 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

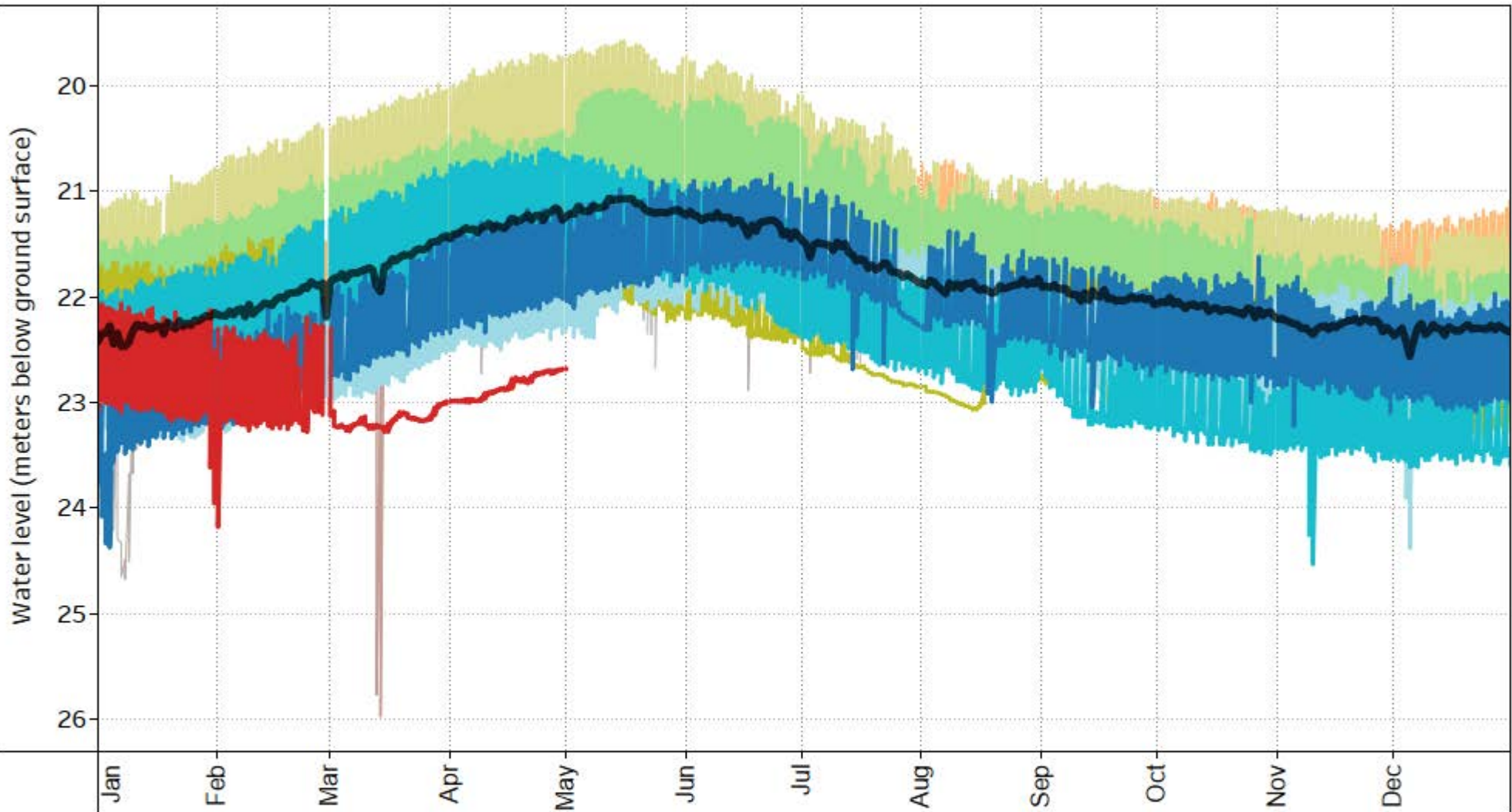
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 232 (WR5 - Nanoose to South Wellington)

FIGURE 31-C



OW 340 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

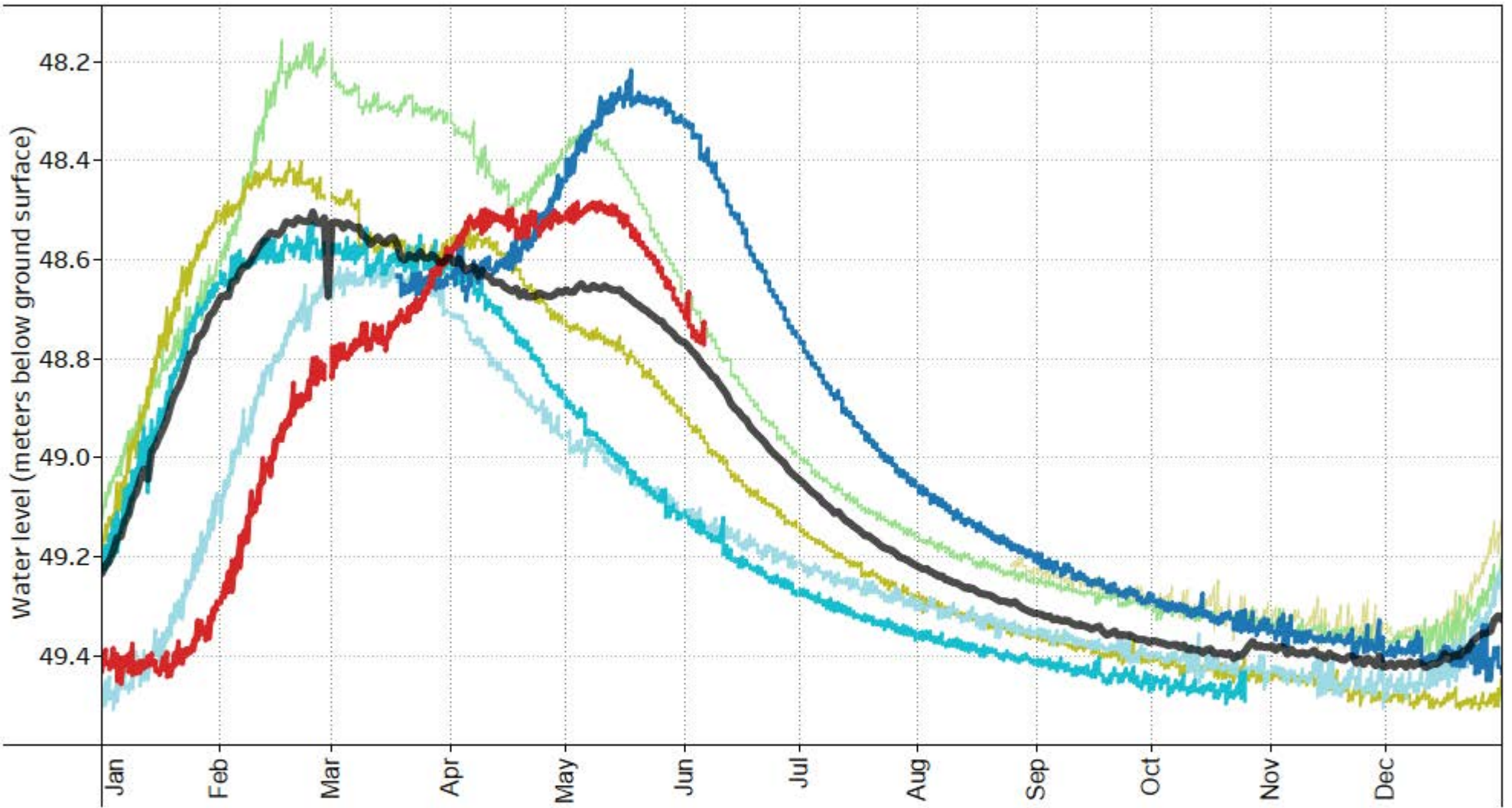
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 340 (WR5 - Nanoose to South Wellington)

FIGURE 32-C



VOW 28 - Southwind (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
215 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level
(2013-2022)

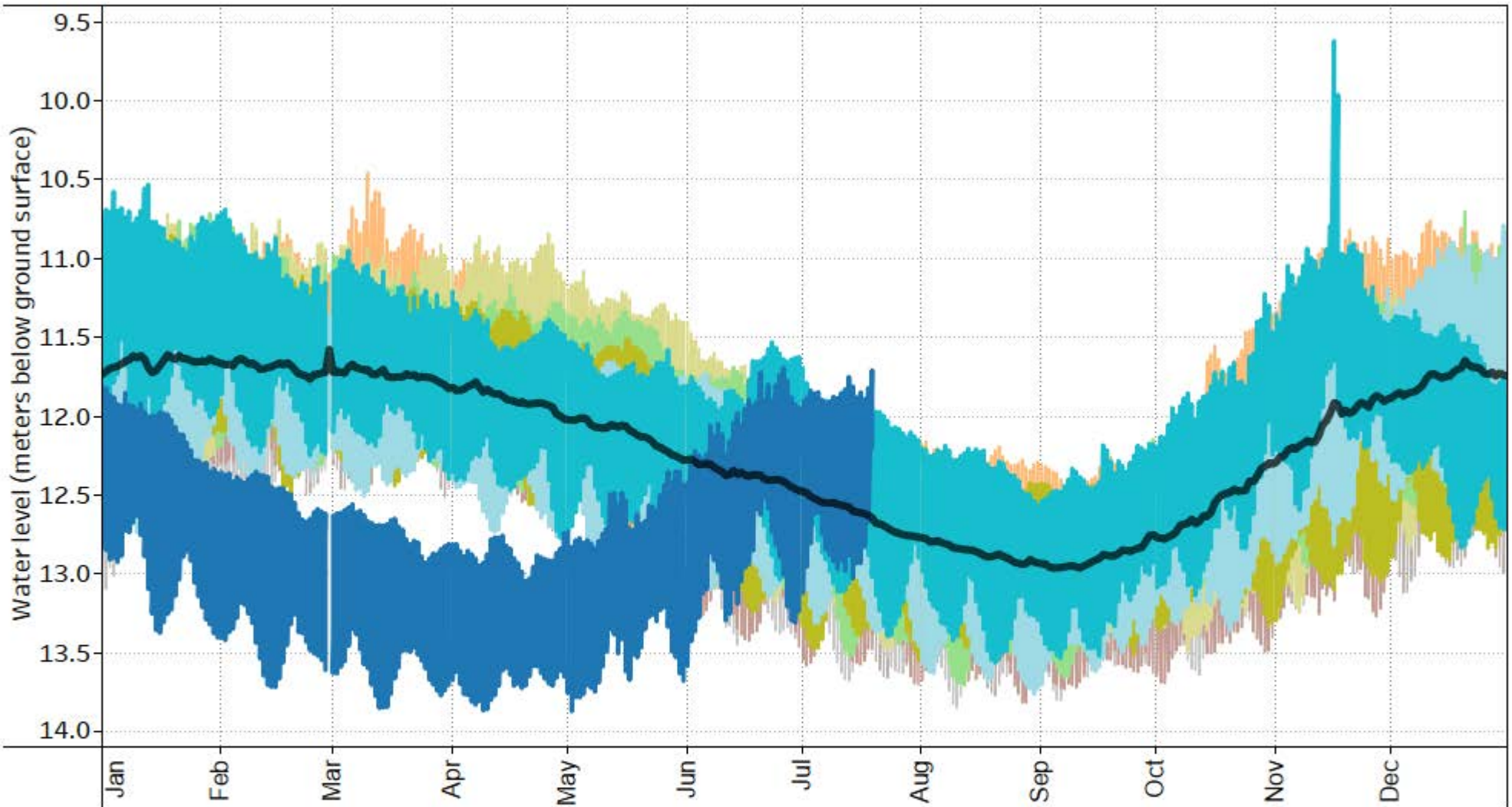
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 28 - Southwind (WR5 - Nanoose to South Wellington)

FIGURE 33-C



OW 394 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--------|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |

— Average Groundwater Level
(2013-2022)

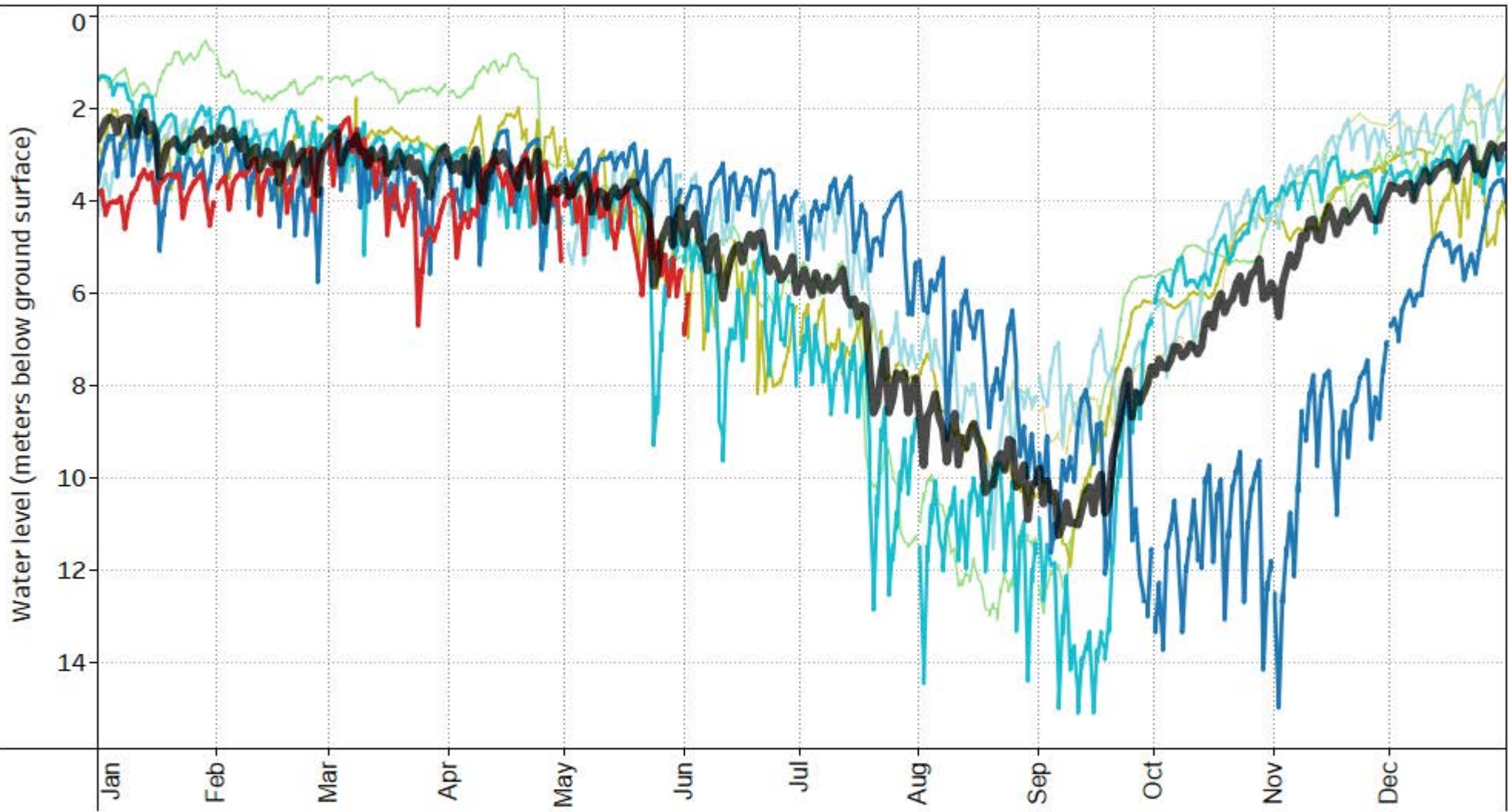
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 394 (WR5 - Nanoose to South Wellington)

FIGURE 34-C



VOW 26 - Florence (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

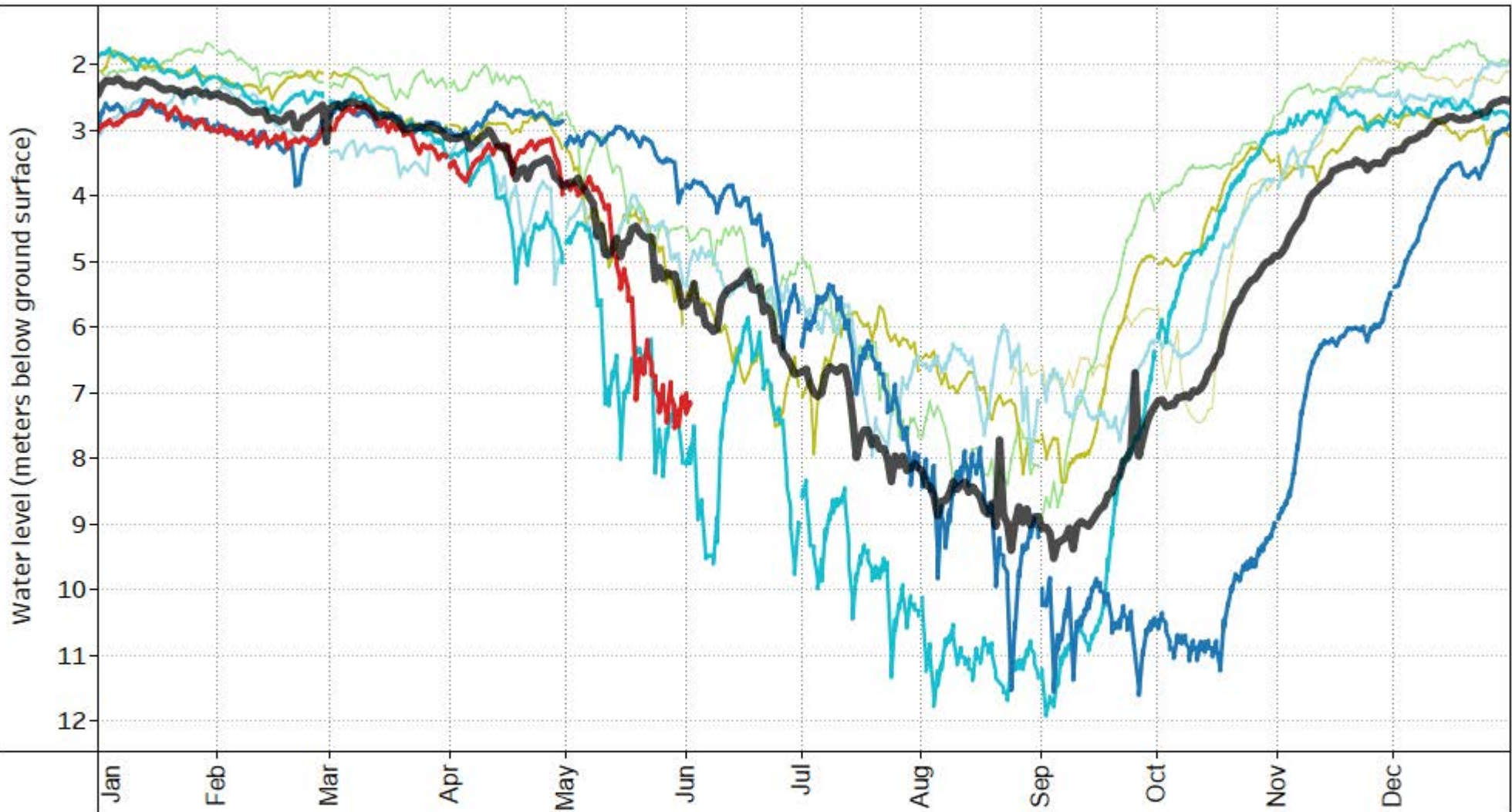
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 26 - Florence (WR5 - Nanoose to South Wellington)

FIGURE 35-C



VOW 27 - NWB (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
218 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

■ Average Groundwater Level
(2013-2022)

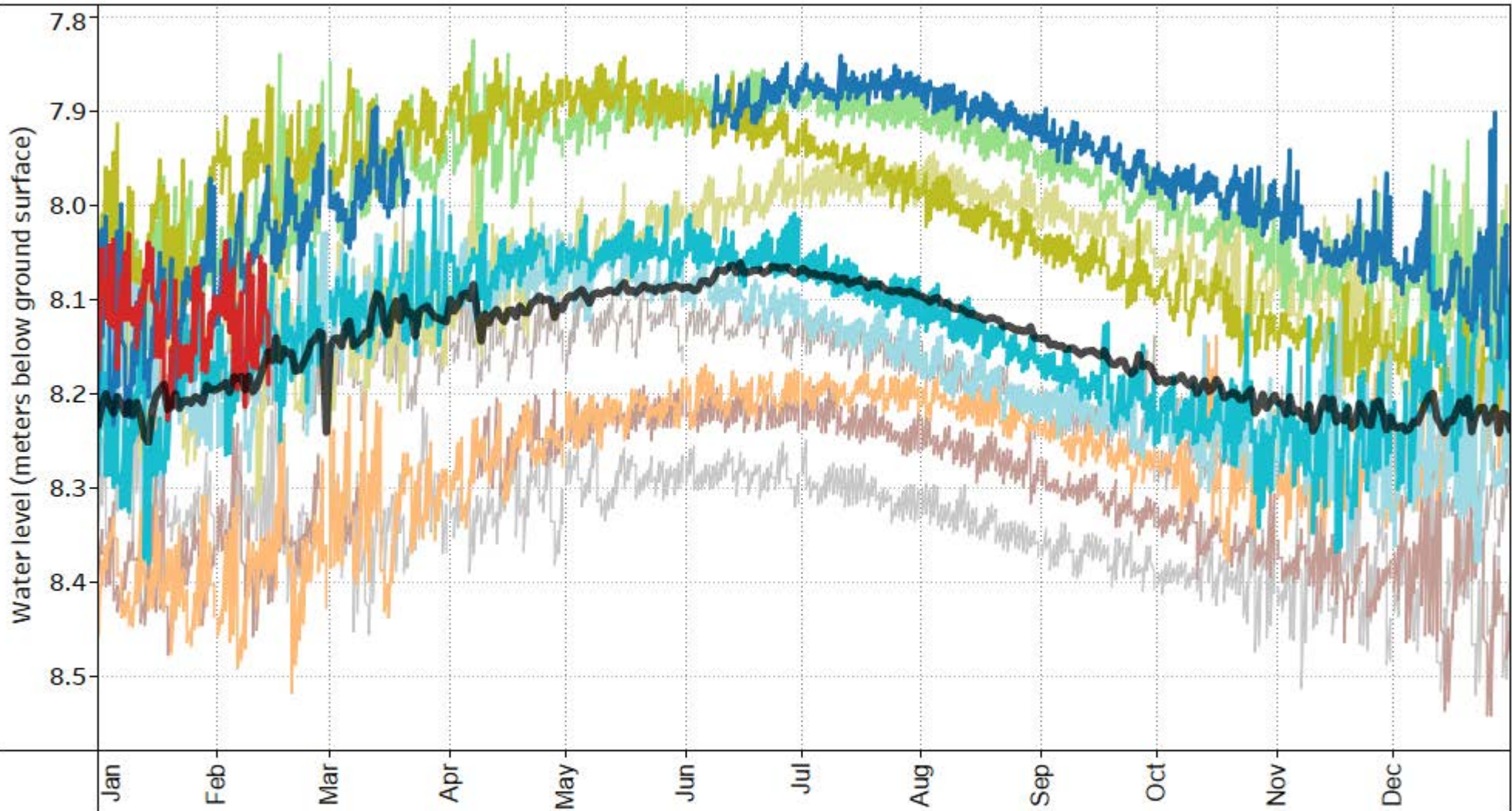
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 27 - NWB (WR5 - Nanoose to South Wellington)

FIGURE 36-C



OW 393 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

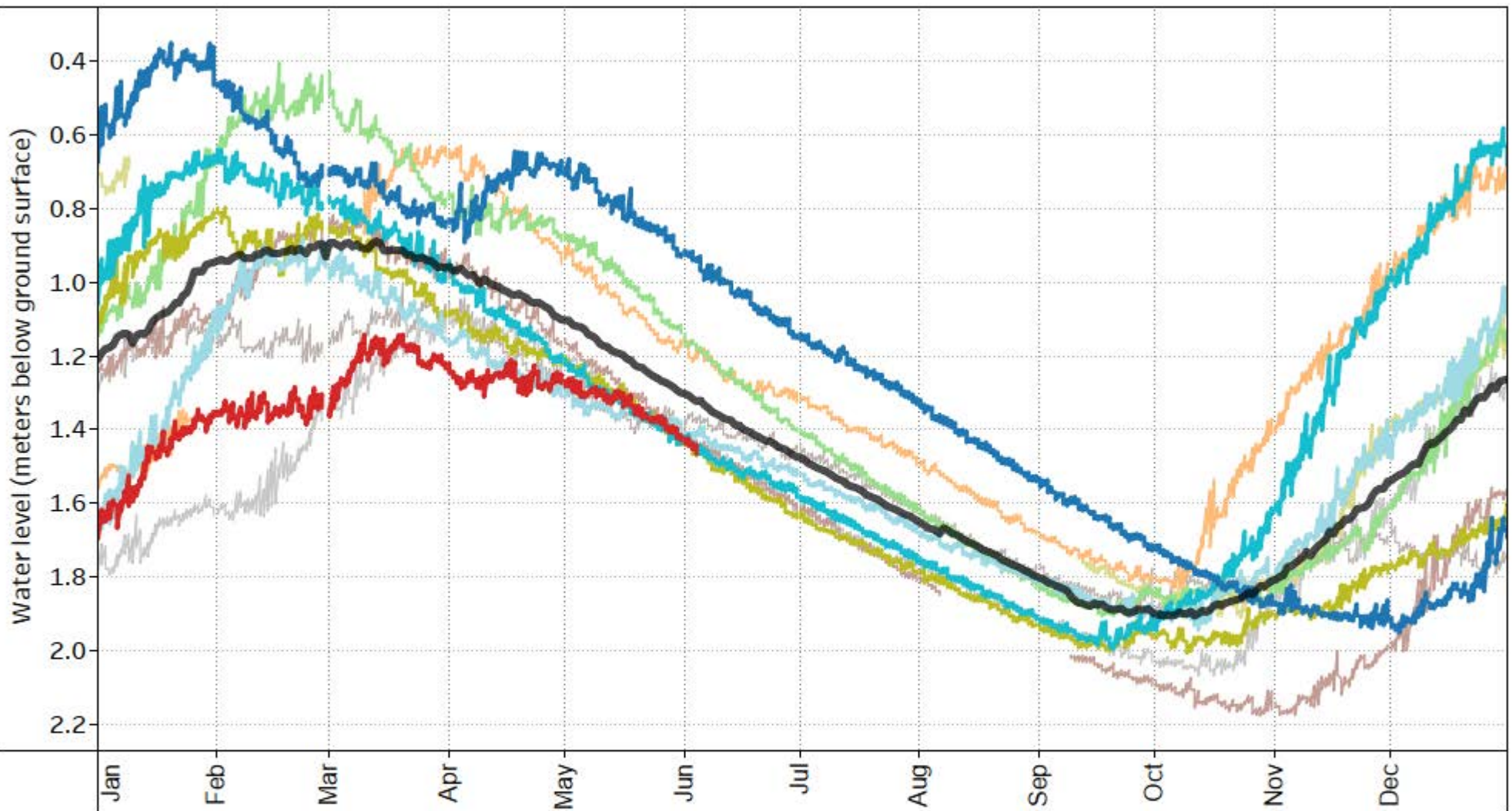
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 393 (WR5 - Nanoose to South Wellington)

FIGURE 37-C



OW 396 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

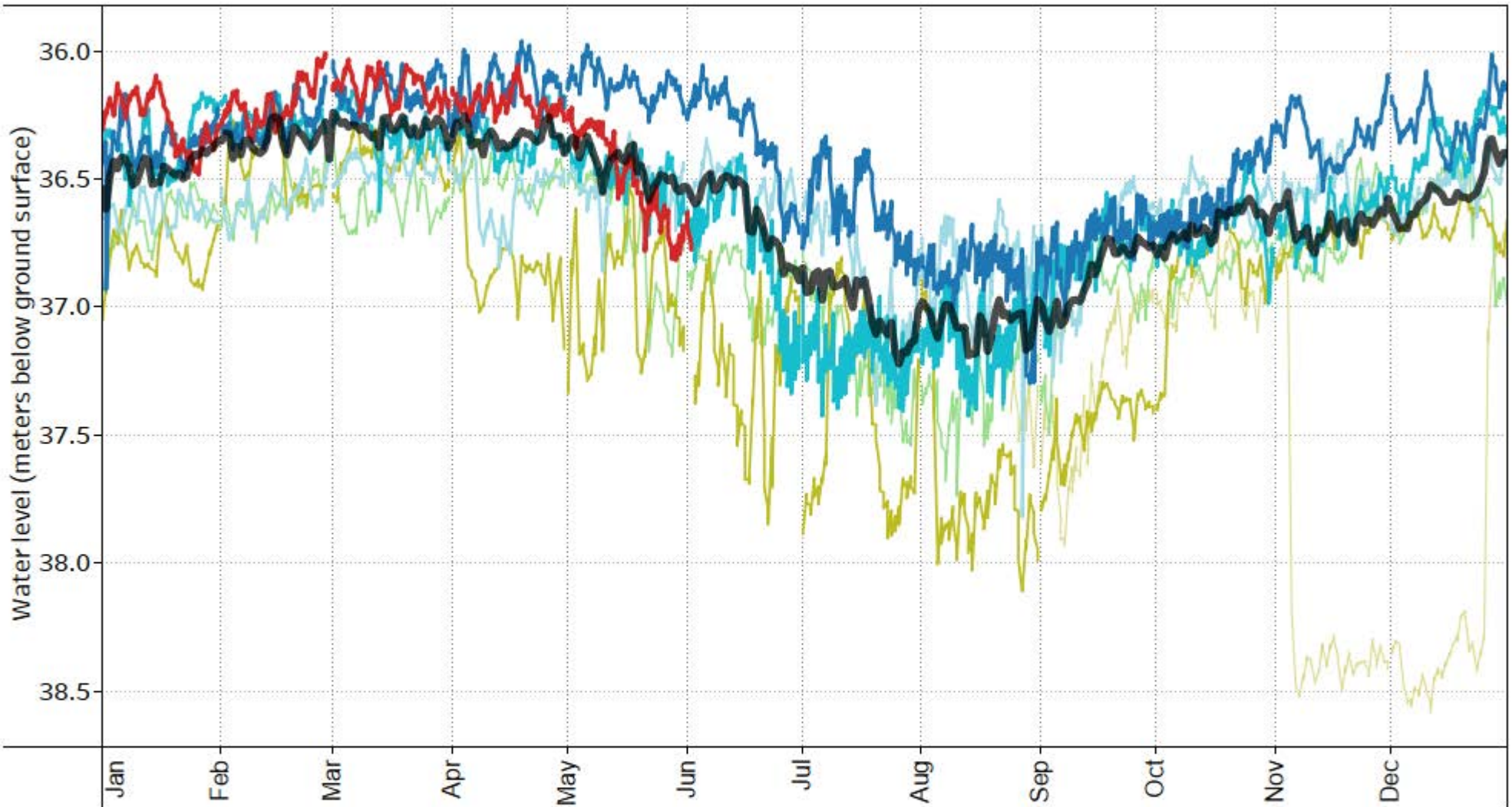
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 396 (WR5 - Nanoose to South Wellington)

FIGURE 38-C



VOW 25 - Sanders (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
219 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

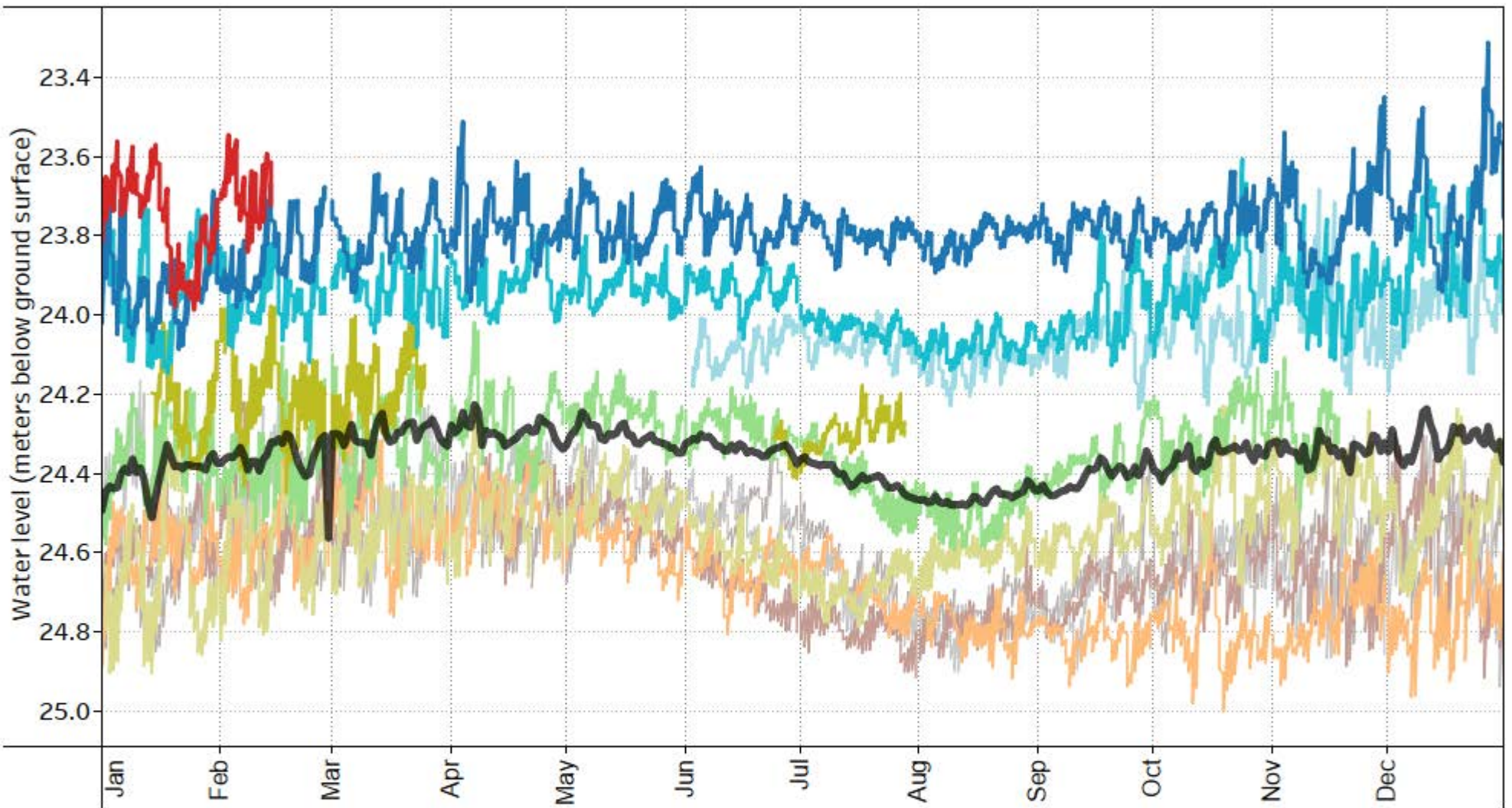
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 25 - Sanders (WR5 - Nanoose to South Wellington)

FIGURE 39-C



OW 392 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

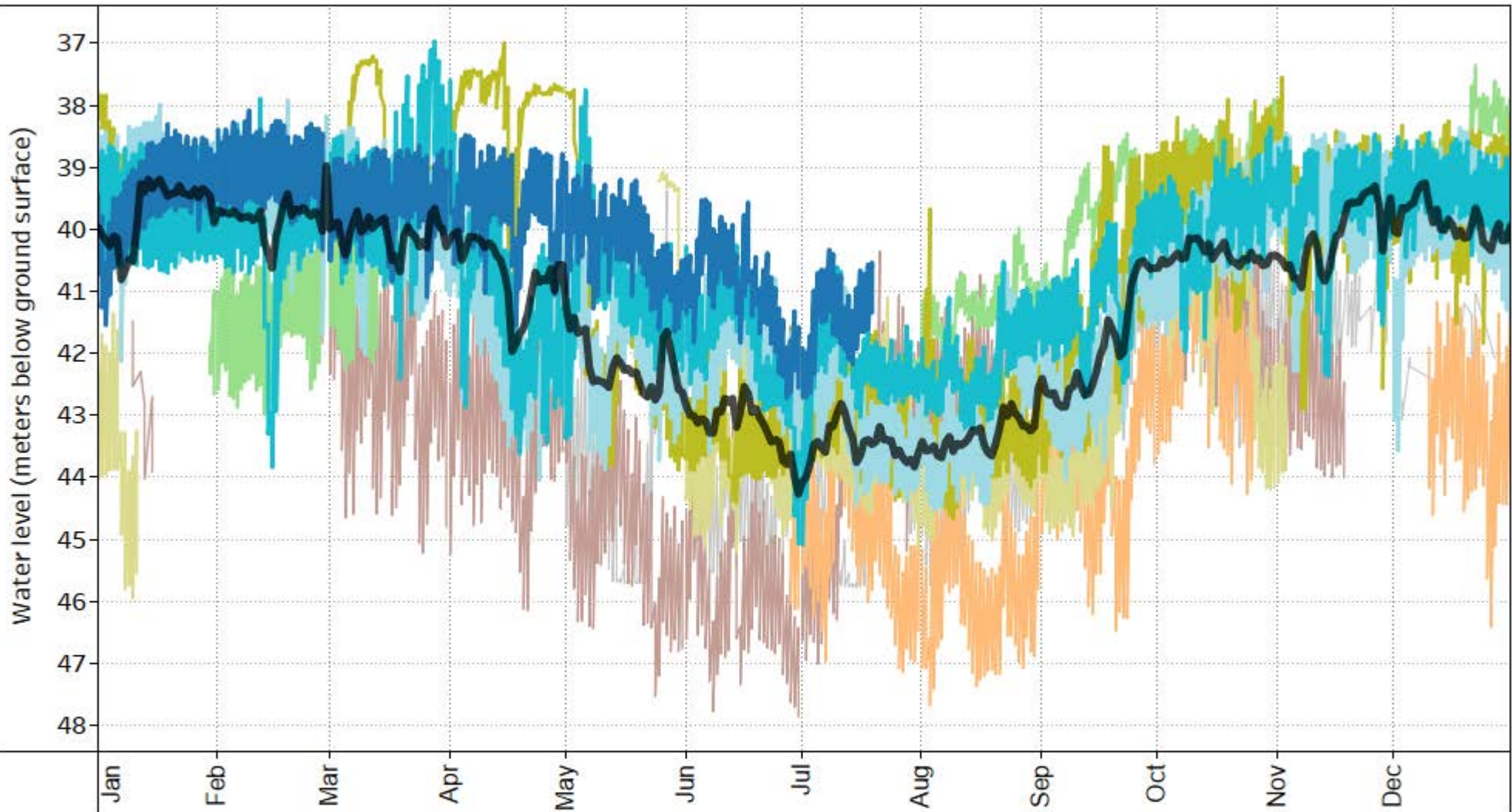
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 392 (WR5 - Nanoose to South Wellington)

FIGURE 40-C



OW 397 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|--|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |
| ■ 2019 | ■ 2015 | |
| | — Average Groundwater Level
(2013-2022) | |

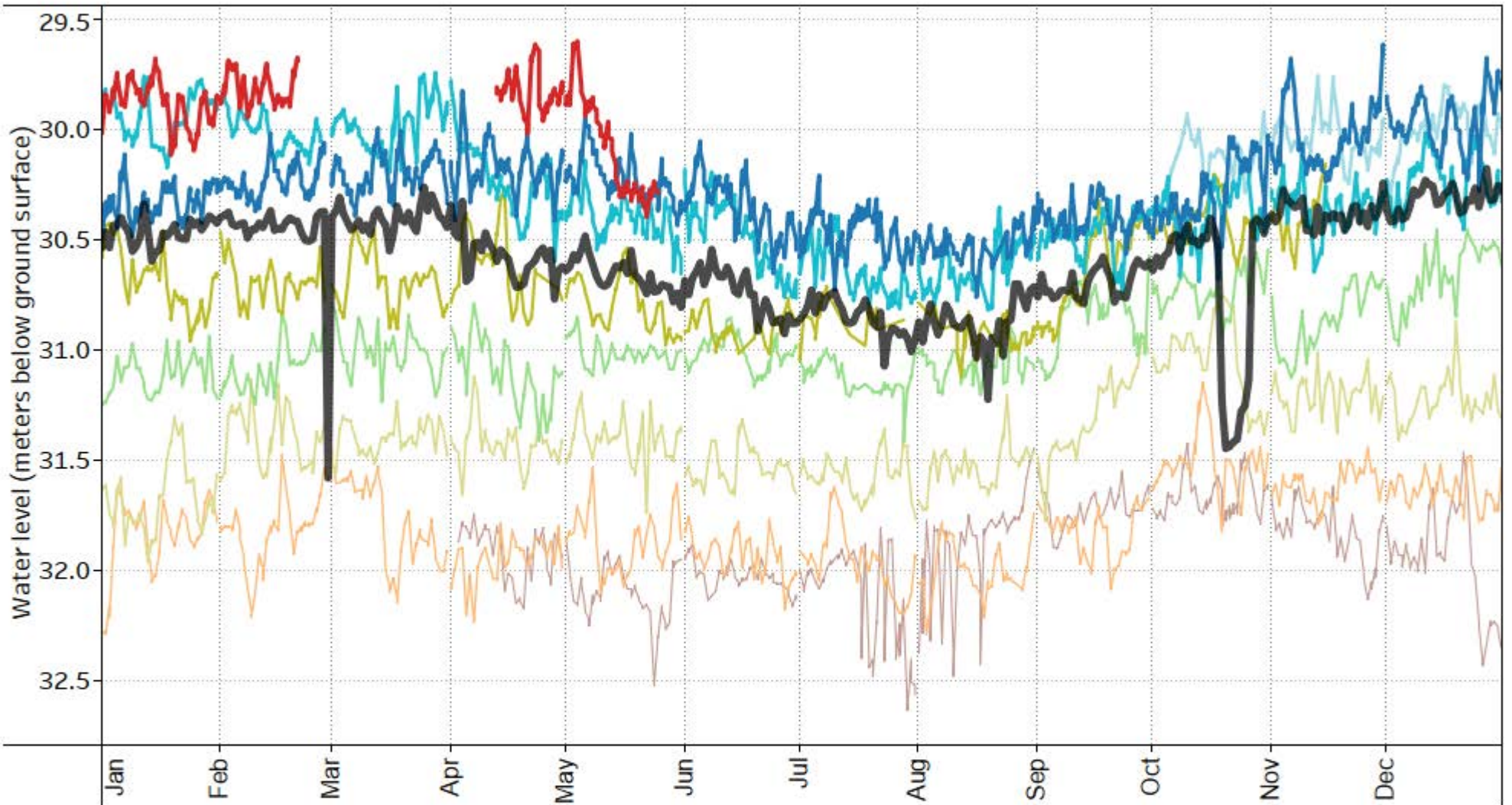
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 397 (WR5 - Nanoose to South Wellington)

FIGURE 41-C



VOW 17 - O7 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- Average Groundwater Level
(2013-2022)

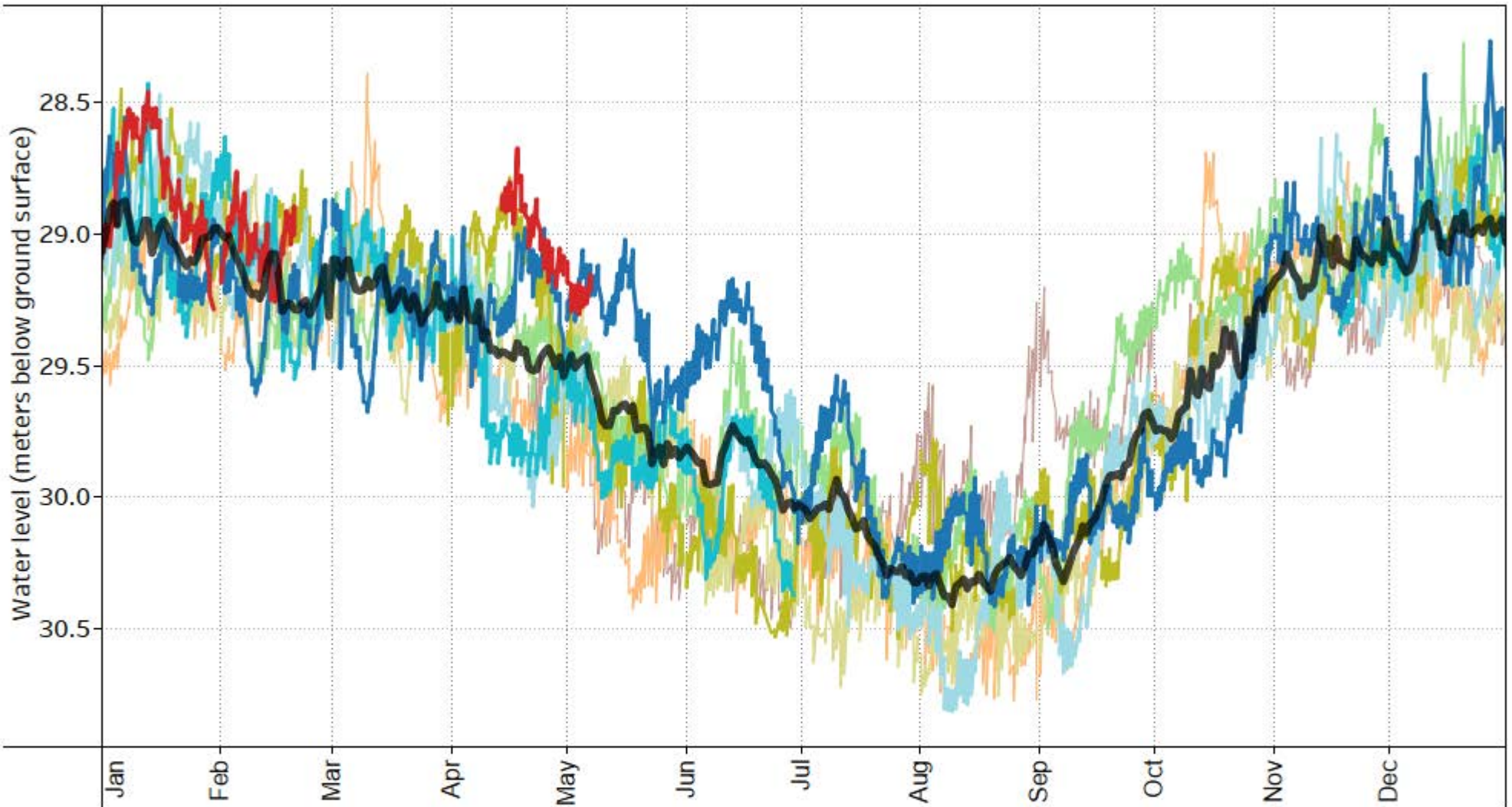
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 17 - O7 (WR5 - Nanoose to South Wellington)

FIGURE 42-C



VOW 29 - O3 (WR5 - Nanoose to South Wellington) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
1098 (Confined sand and
gravel - glacial)

YEAR

- | | | |
|---|---|---|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | — Average Groundwater Level
(2013-2022) |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

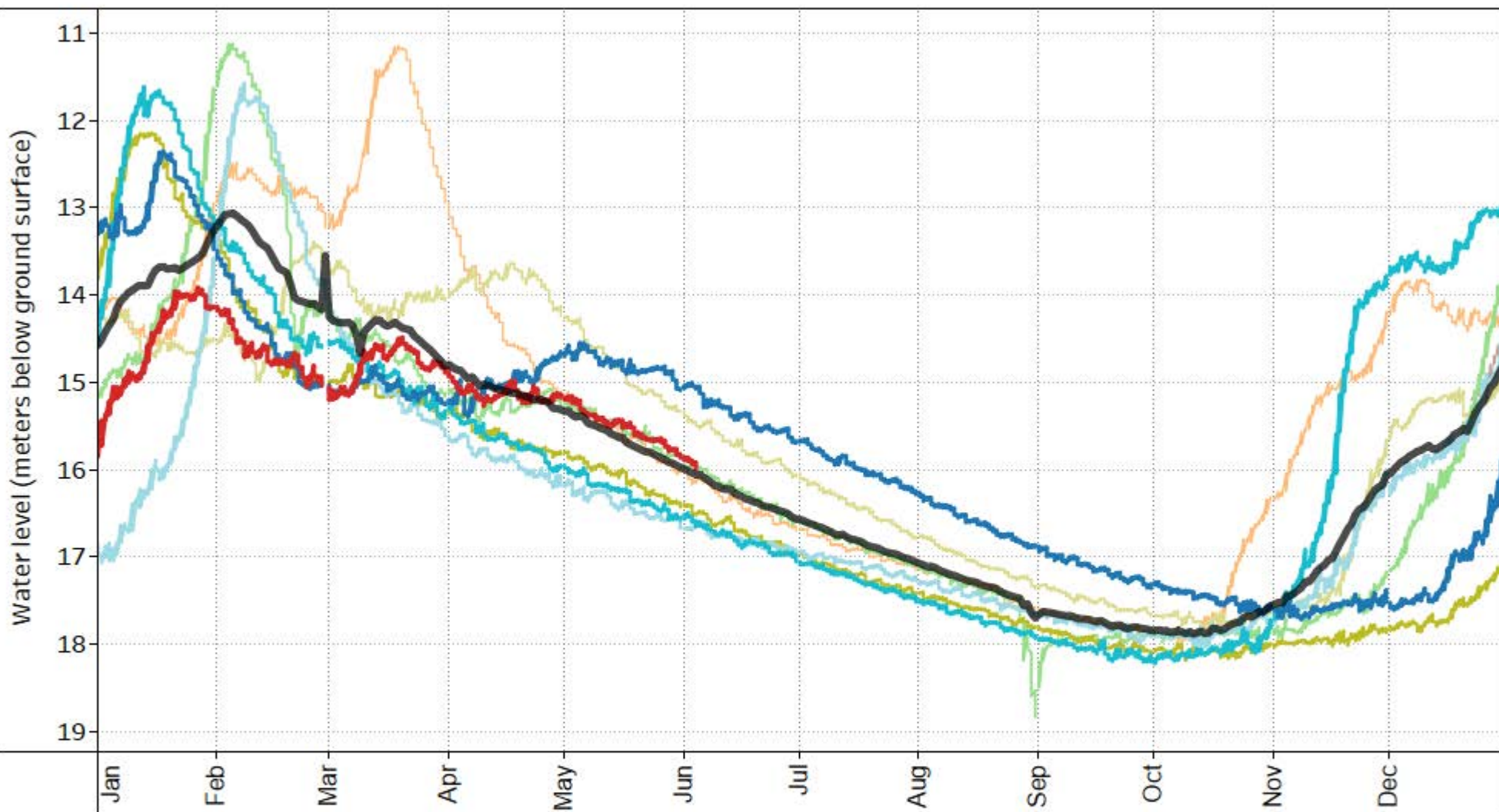
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 29 - O3 (WR5 - Nanoose to South Wellington)

FIGURE 43-C



OW 436 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
160 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2019
- 2015
- 2022
- 2018
- Average Groundwater Level (2013-2022)
- 2021
- 2017
-
- 2020
- 2016
-

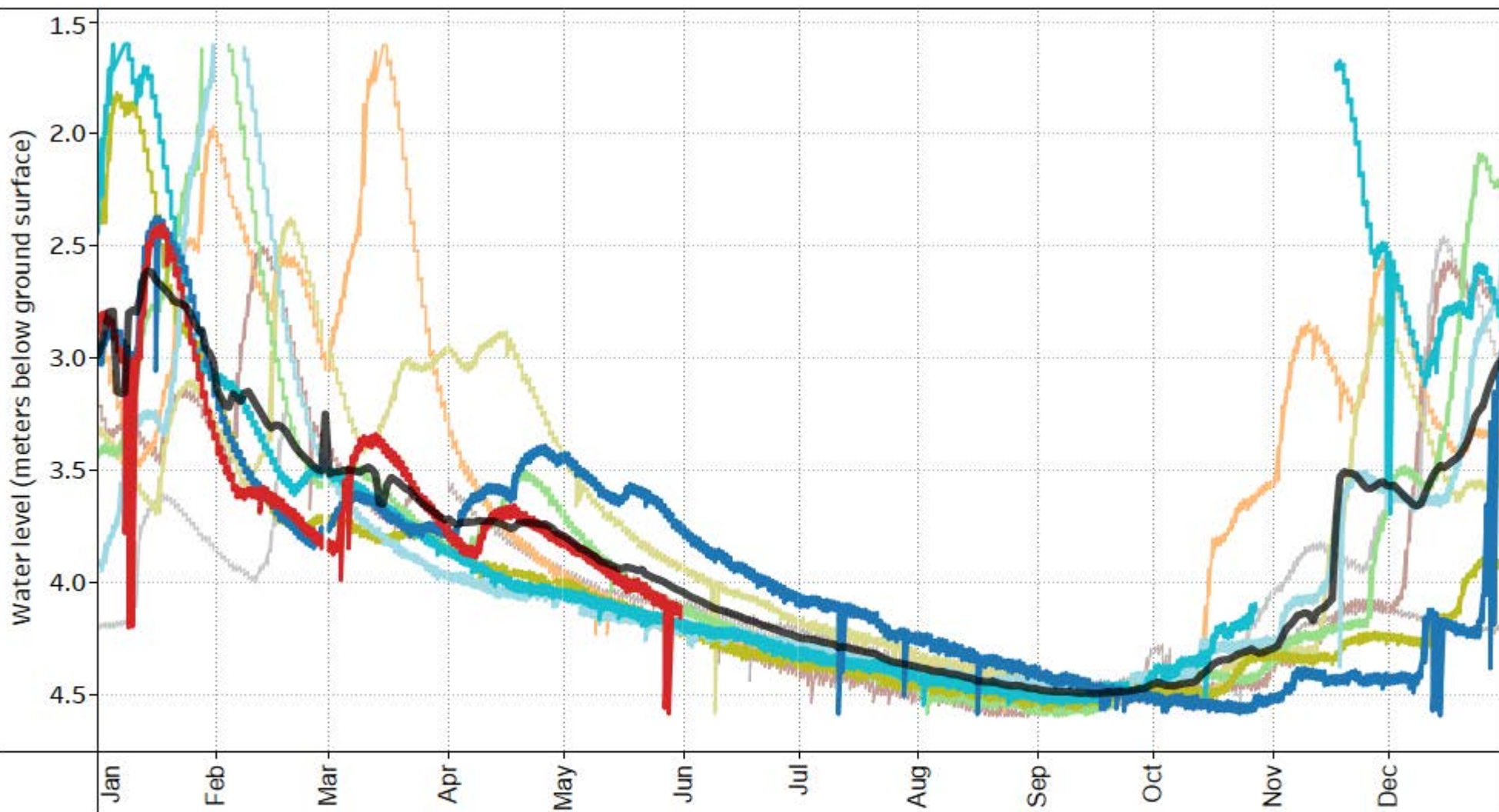
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 436 (WR6 - Nanaimo River)

FIGURE 44-C



VOW 04 - Hallberg (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
160 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2019
- 2015
- 2022
- 2018
- 2014
- 2021
- 2017
- 2013
- 2020
- 2016
- Average Groundwater Level
(2013-2022)

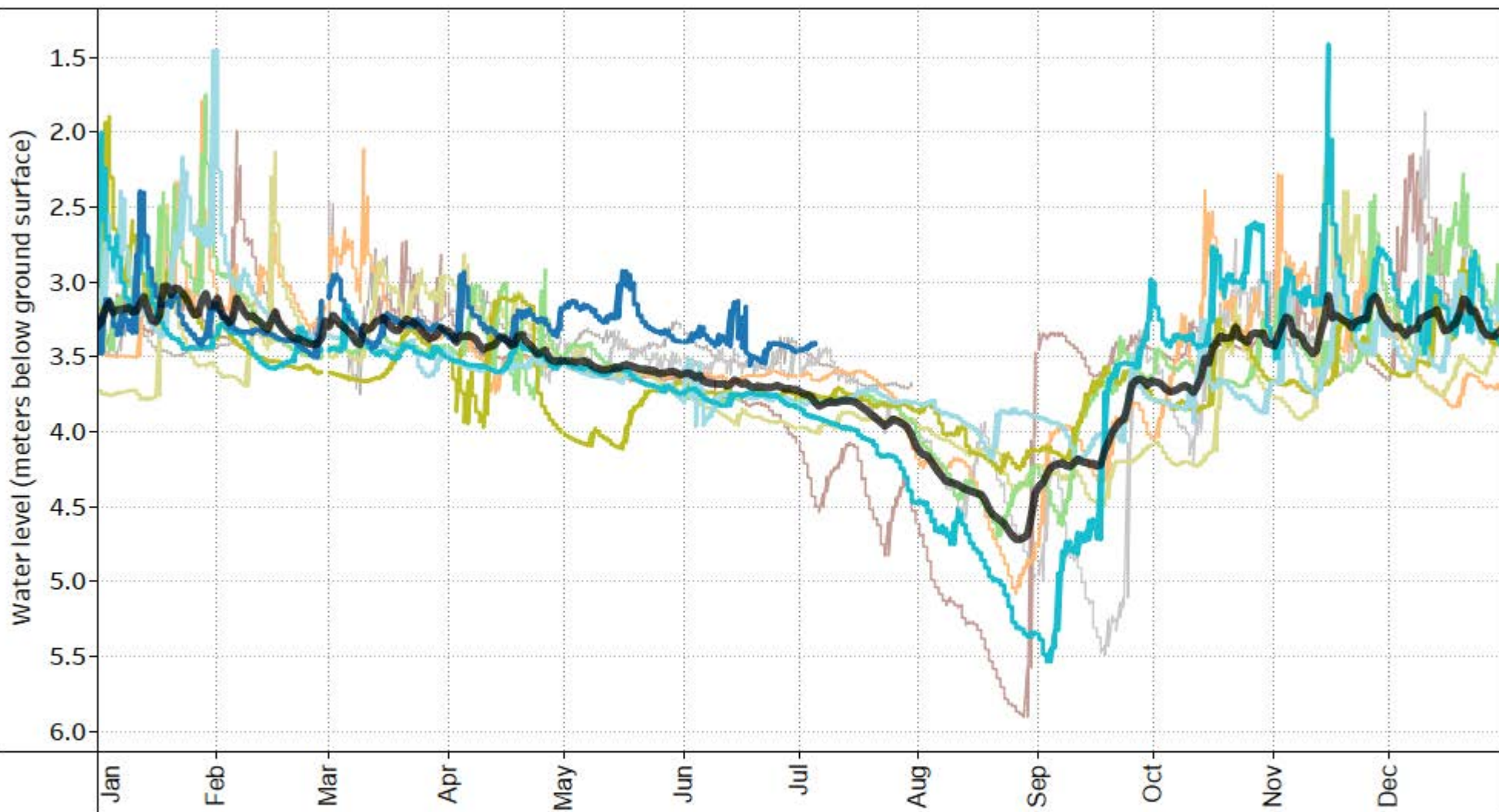
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 04 - Hallberg (WR6 - Nanaimo River)

FIGURE 45-C



OW 312 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
161 (Unconfined sand and
gravel aquifer - medium
stream system)

YEAR

- 2022
 - 2021
 - 2020
 - 2019
- 2018
 - 2017
 - 2016
 - 2015
- 2014
 - 2013
 - Average Groundwater Level (2013-2022)

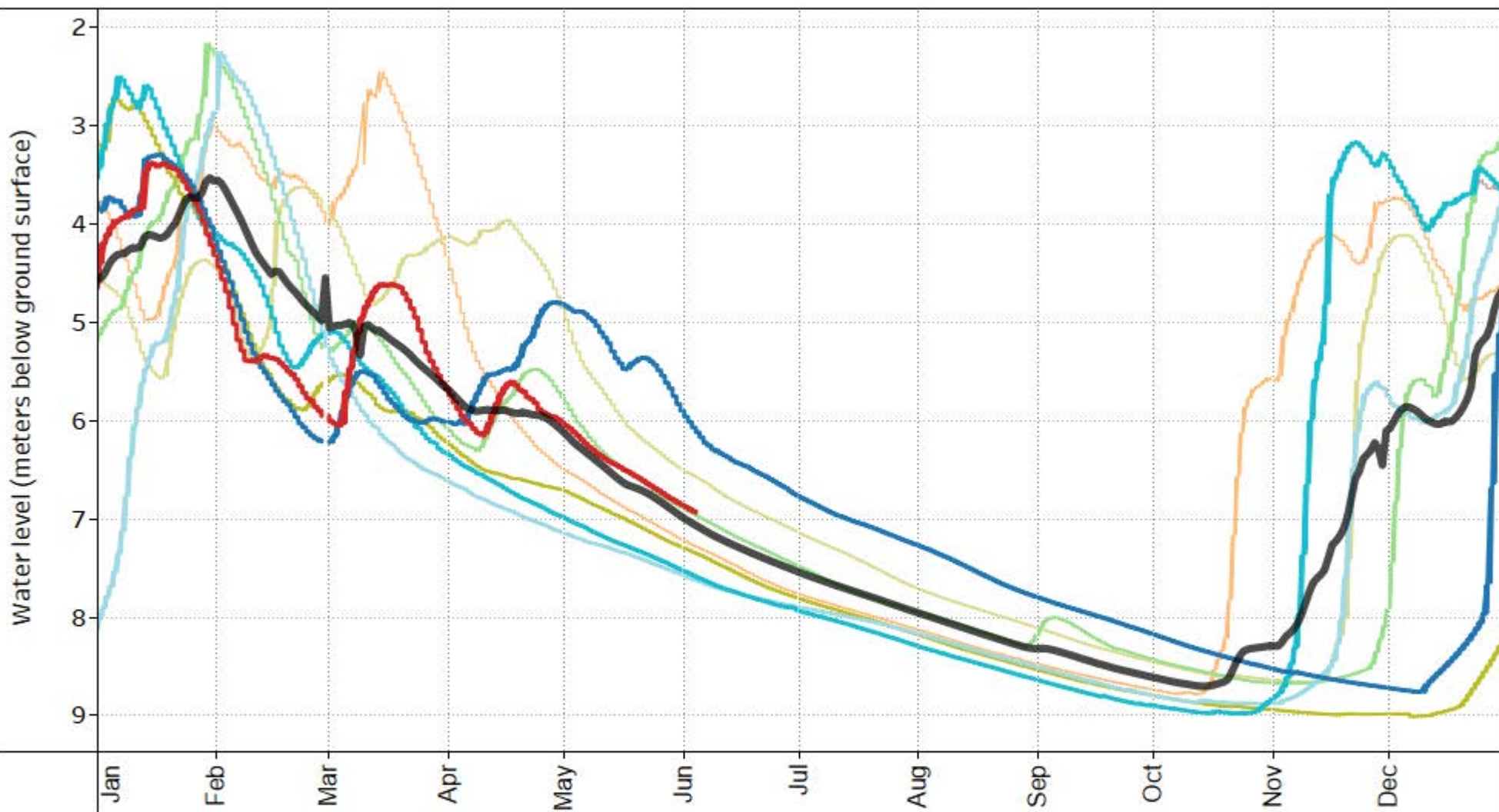
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 312 (WR6 - Nanaimo River)

FIGURE 46-C



OW 437 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
161 (Unconfined sand and
gravel aquifer - medium
stream system)

- | YEAR | | |
|---|---|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | — Average Groundwater Level (2013-2022) |
| ■ 2021 | ■ 2017 | |
| ■ 2020 | ■ 2016 | |

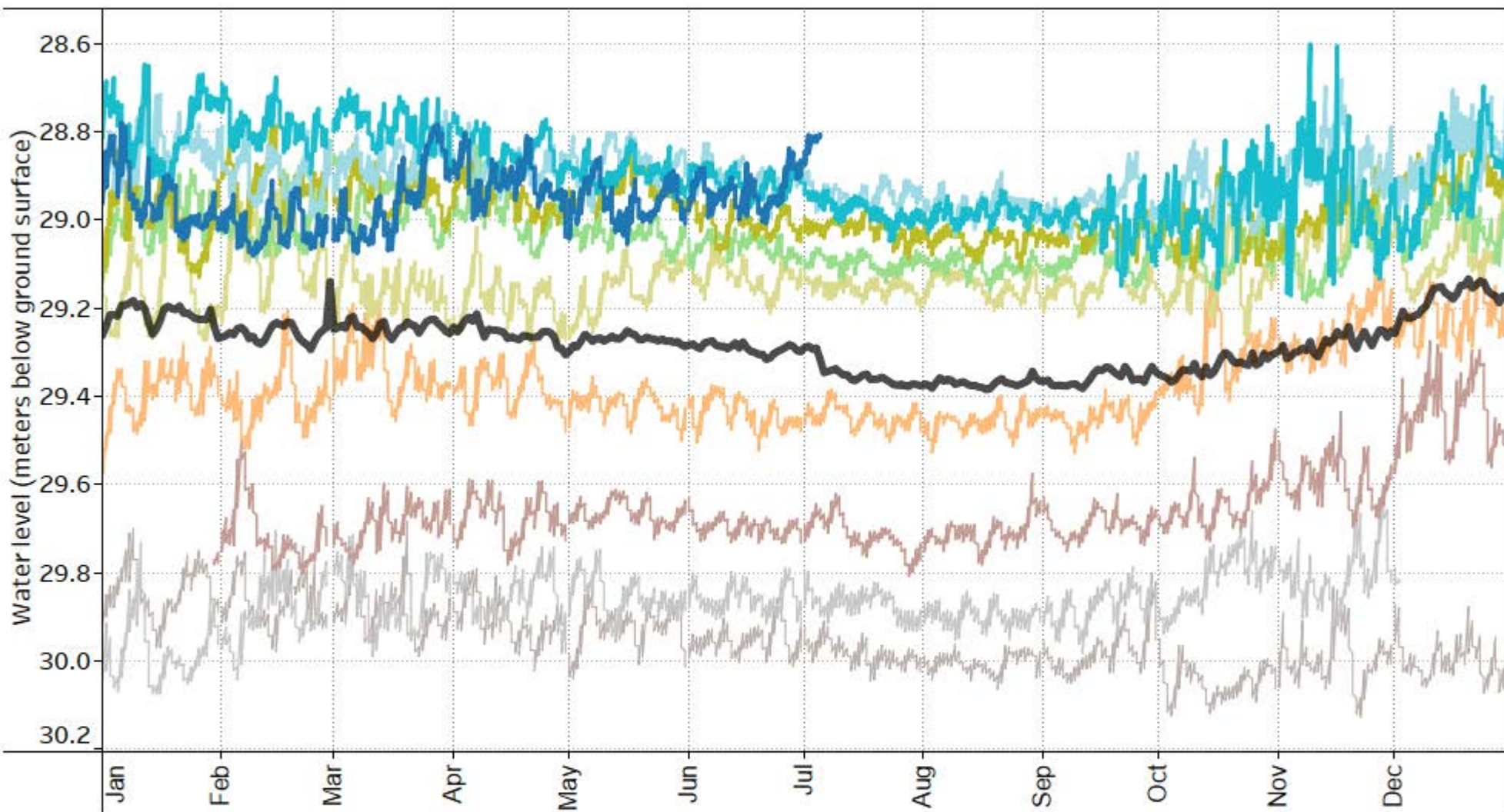
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 437 (WR6 - Nanaimo River)

FIGURE 47-C



OW 390 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | | |
|---|---|---|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |
| ■ 2019 | ■ 2015 | |

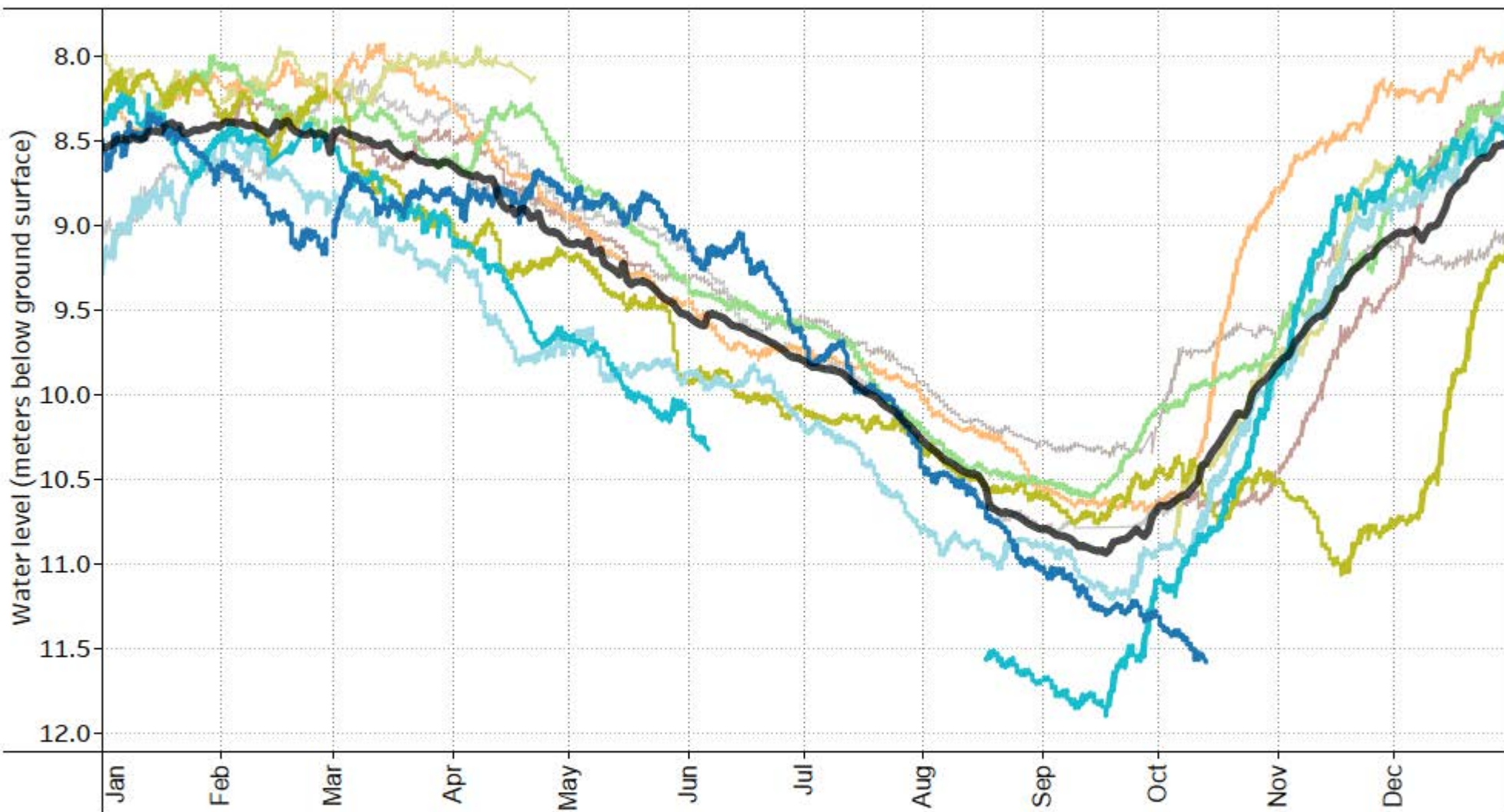
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 390 (WR6 - Nanaimo River)

FIGURE 48-C



OW 432 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- Average Groundwater Level (2013-2022)

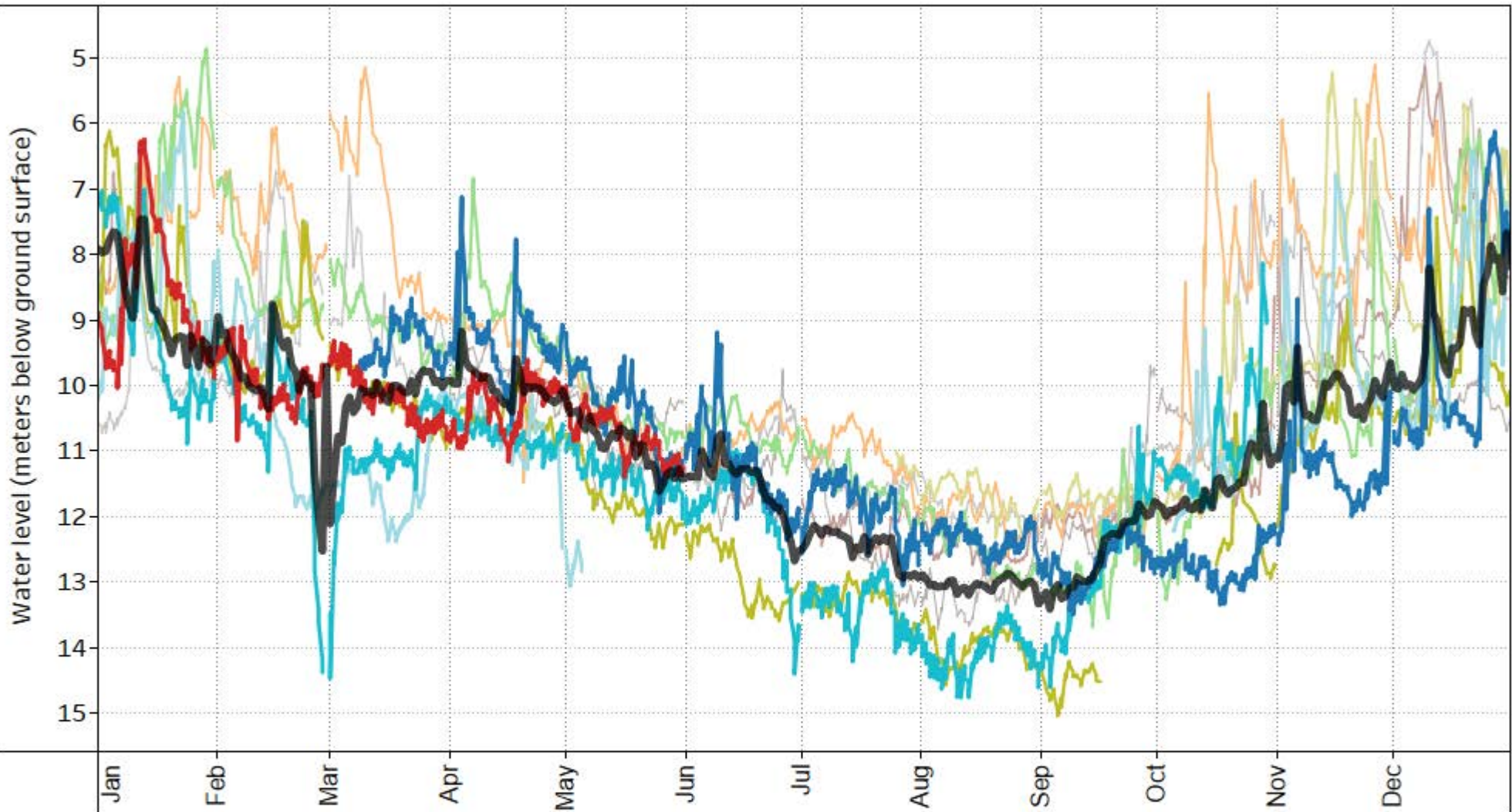
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 432 (WR6 - Nanaimo River)

FIGURE 49-C



VOW 06 - Pylades (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level
(2013-2022) |

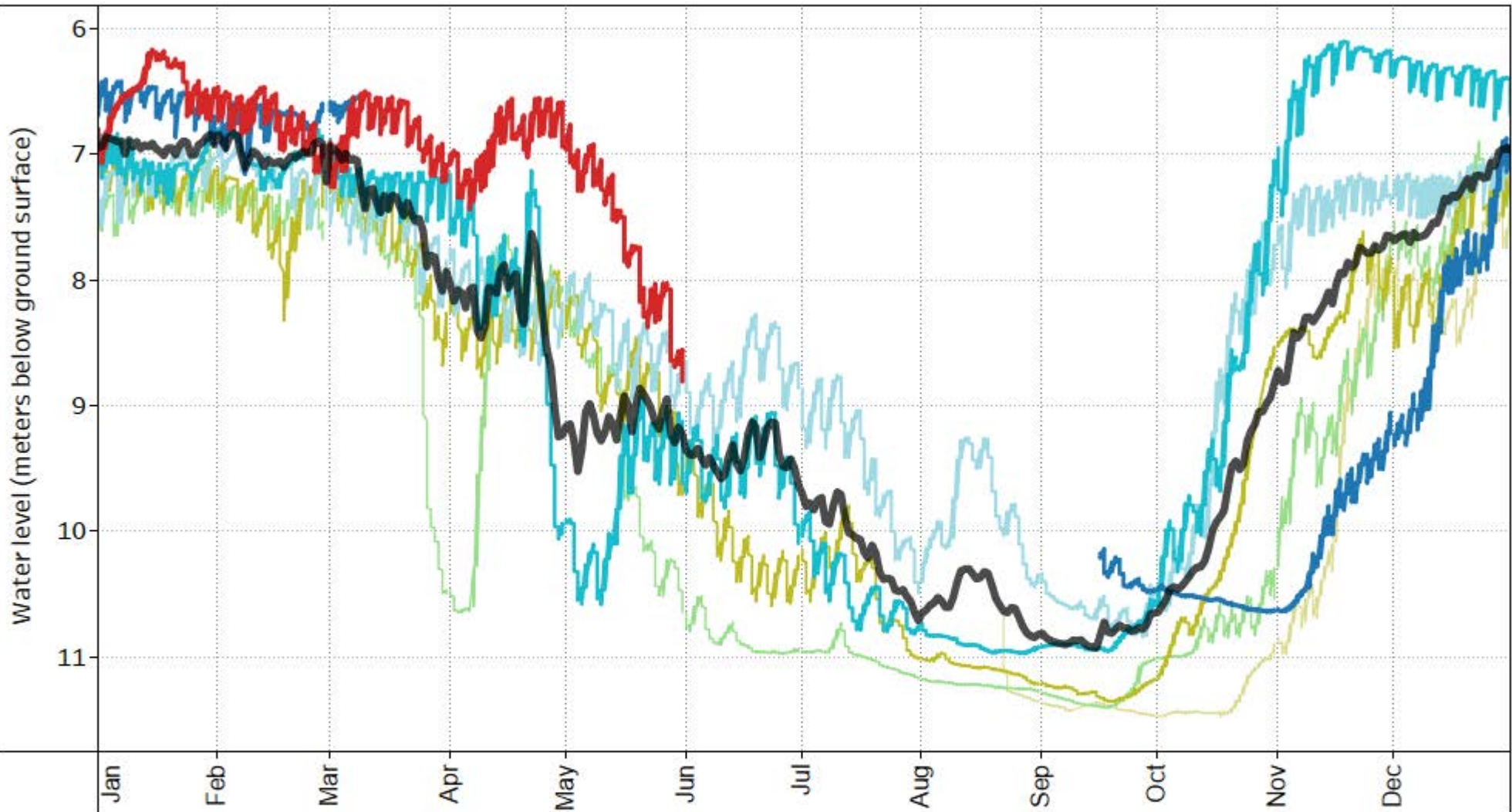
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 06 - Pylades (WR6 - Nanaimo River)

FIGURE 50-C



VOW 19 - DeCourcy (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2023
 ■ 2019
- 2022
 ■ 2018
- 2021
 ■ 2017
- 2020

— Average Groundwater Level
(2013-2022)

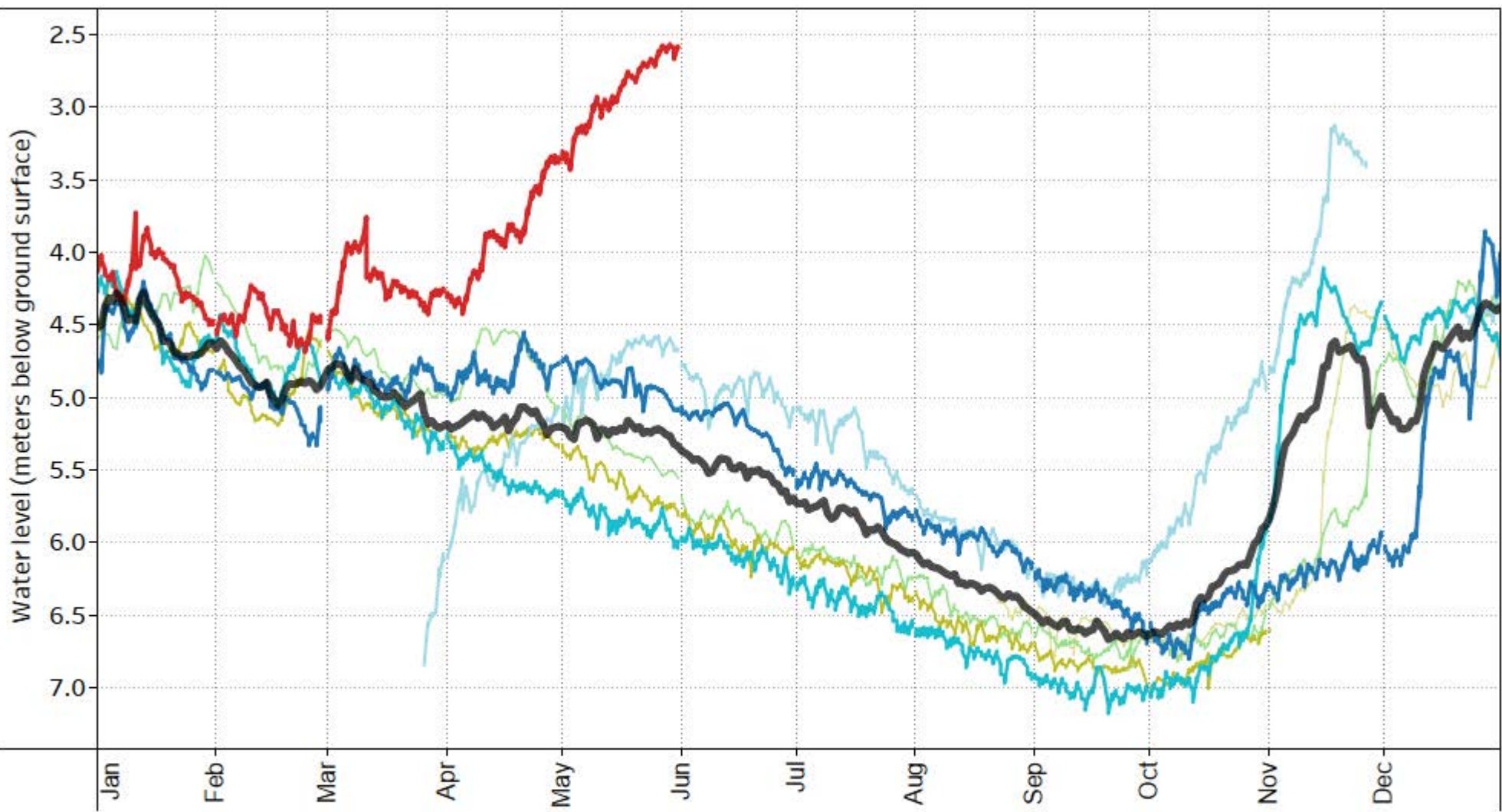
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 19 - DeCourcy (WR6 - Nanaimo River)

FIGURE 51-C



VOW 21 - Rosalie (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

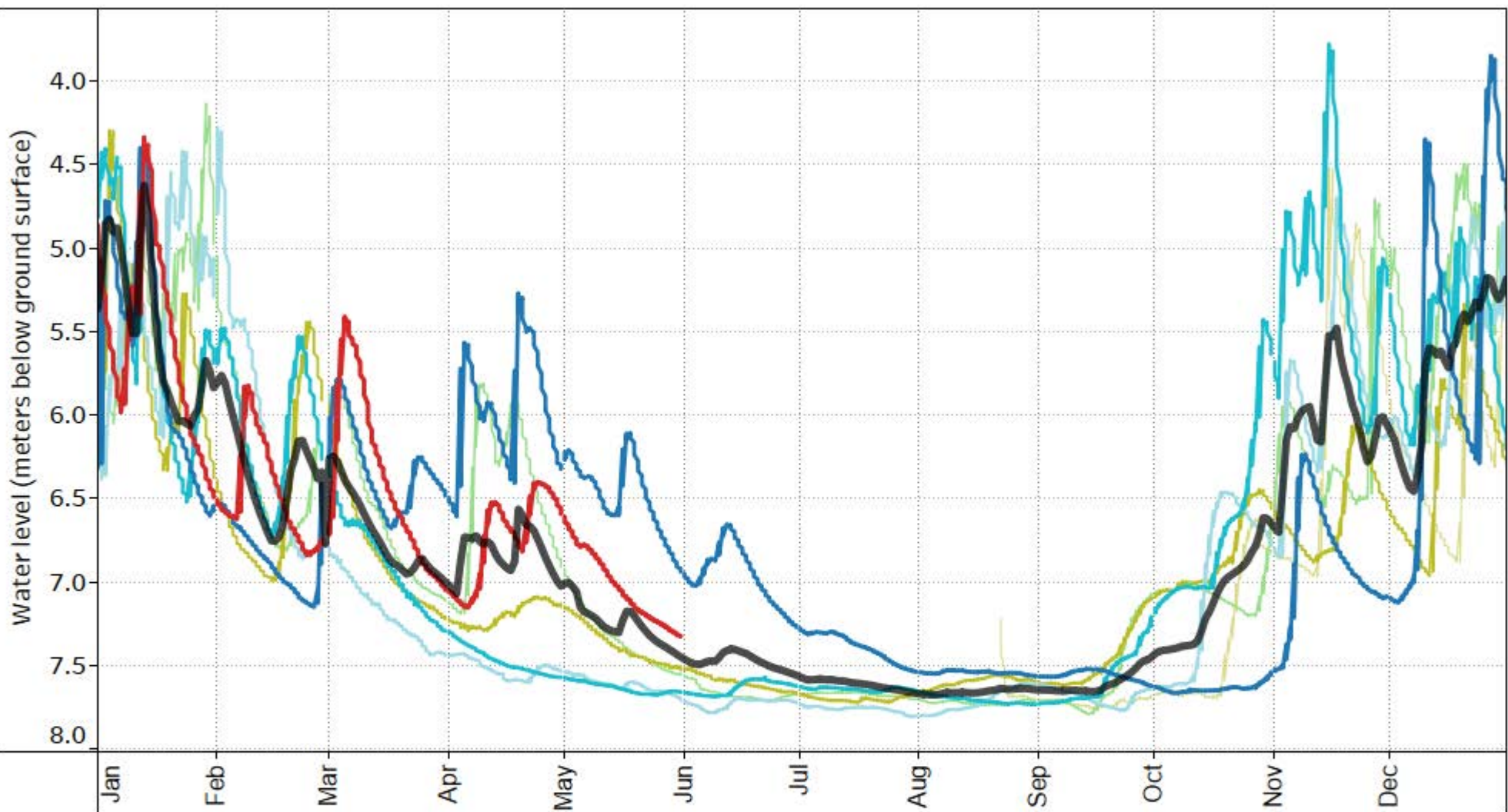
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 21 - Rosalie (WR6 - Nanaimo River)

FIGURE 52-C



VOW 22 - Gould (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

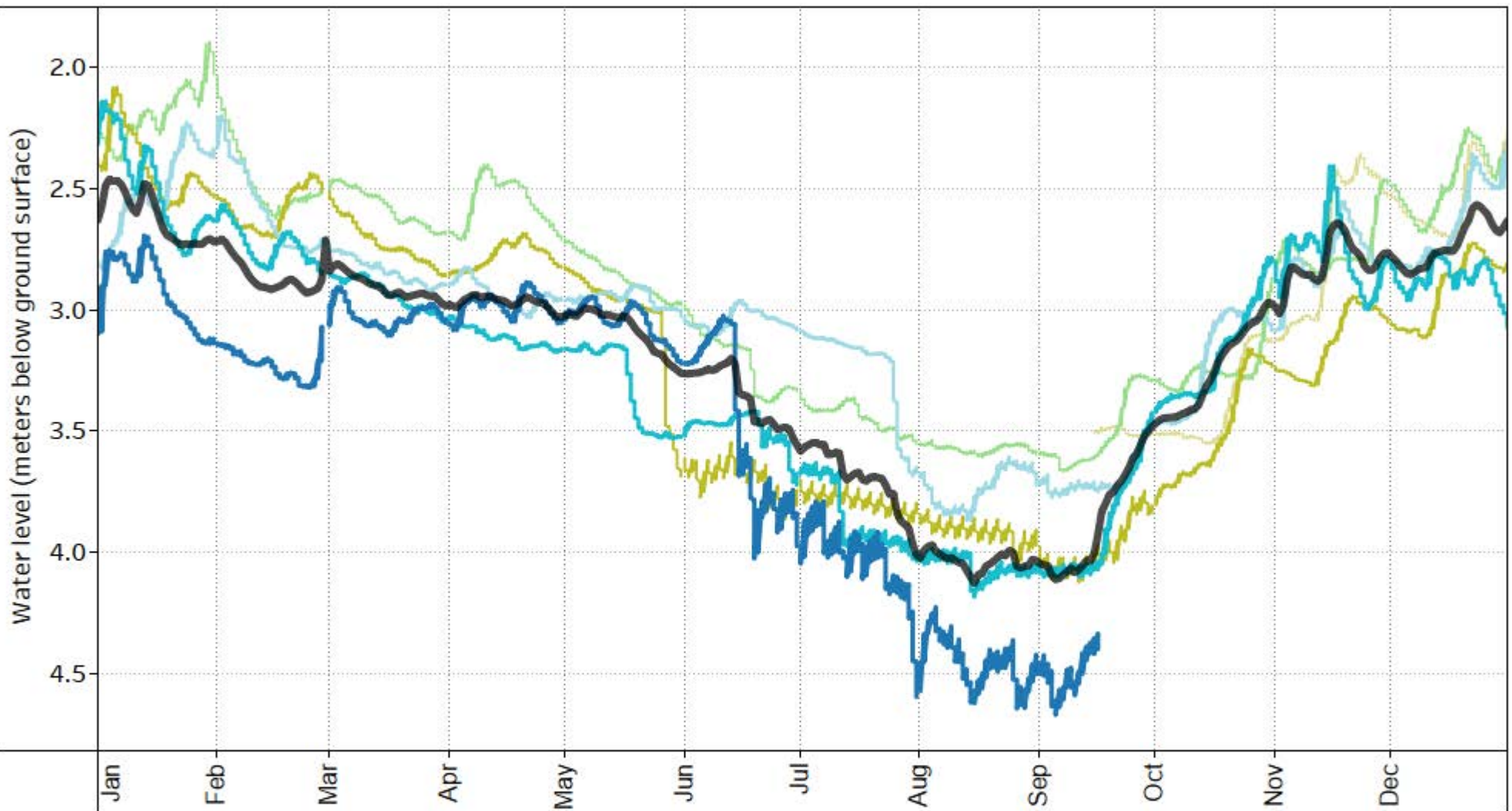
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 22 - Gould (WR6 - Nanaimo River)

FIGURE 53-C



VOW 23 - Haro (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
162 (Fractured sedimentary
rock)

YEAR

- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

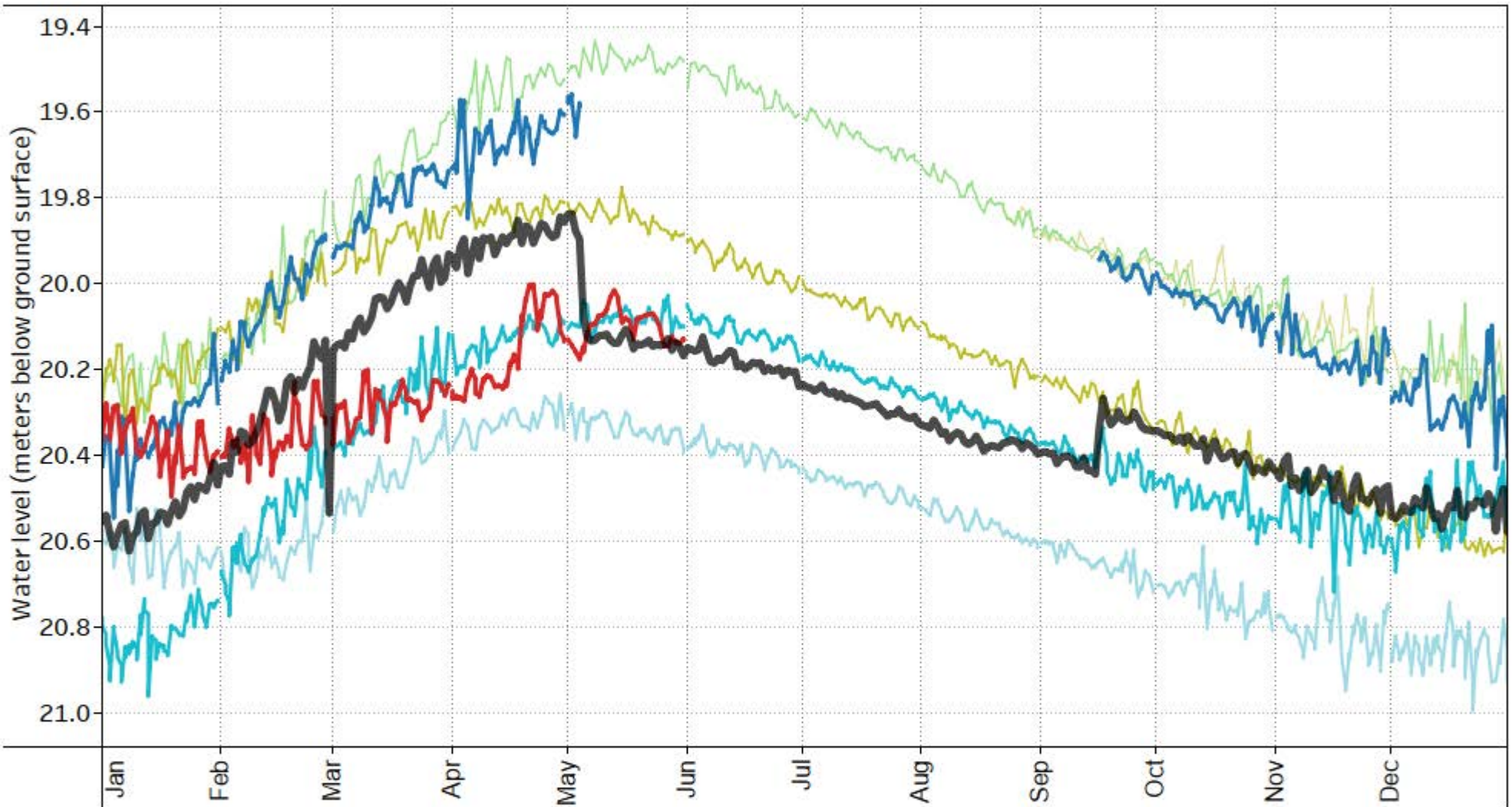
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 23 - Haro (WR6 - Nanaimo River)

FIGURE 54-C



VOW 24 - Brightman (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
163 (Confined sand and
gravel - glacial)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

— Average Groundwater Level
(2013-2022)

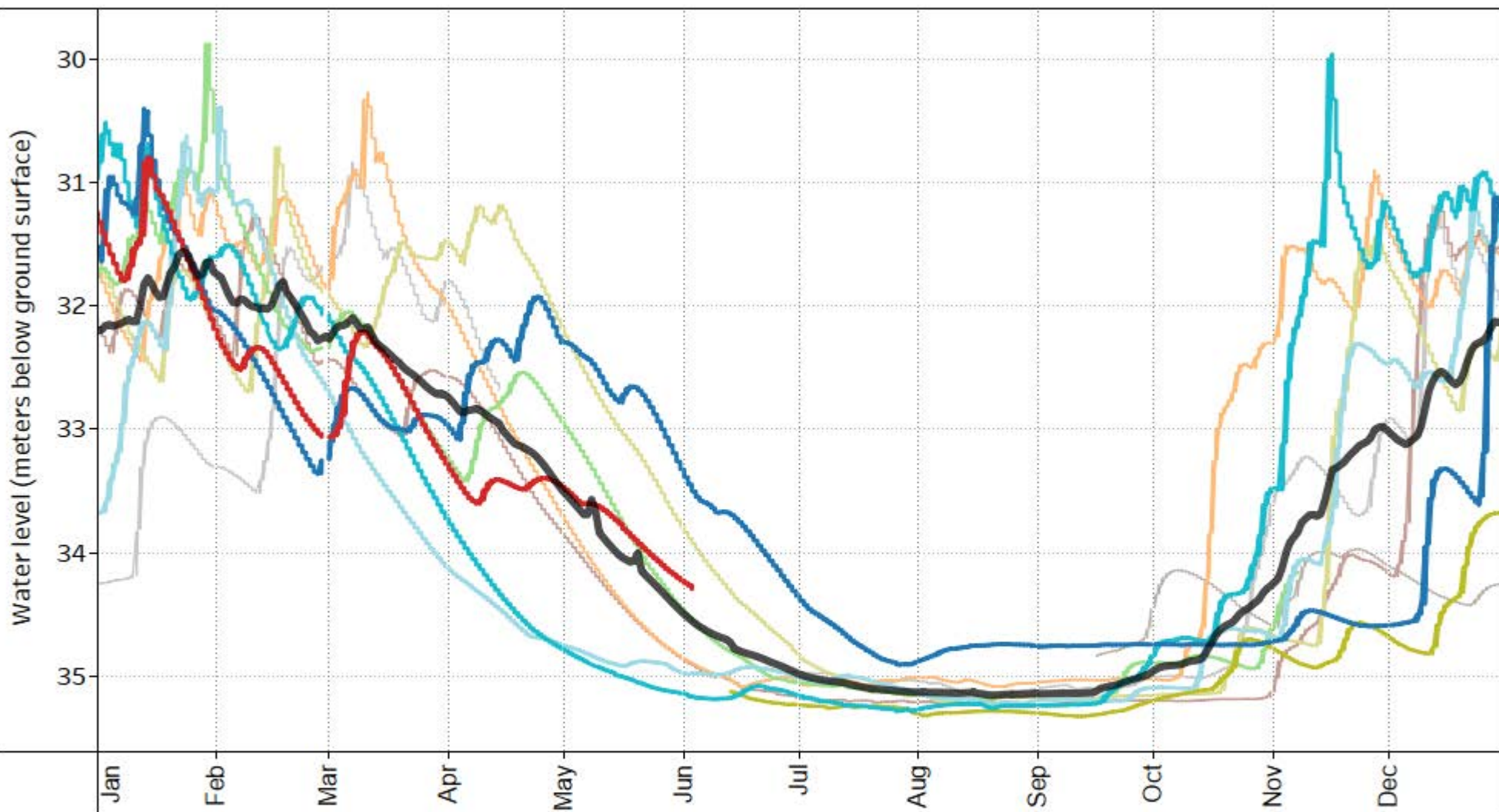
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 24 - Brightman (WR6 - Nanaimo River)

FIGURE 55-C



OW 435 (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
165 (Fractured sedimentary
rock)

YEAR

- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- Average Groundwater Level (2013-2022)

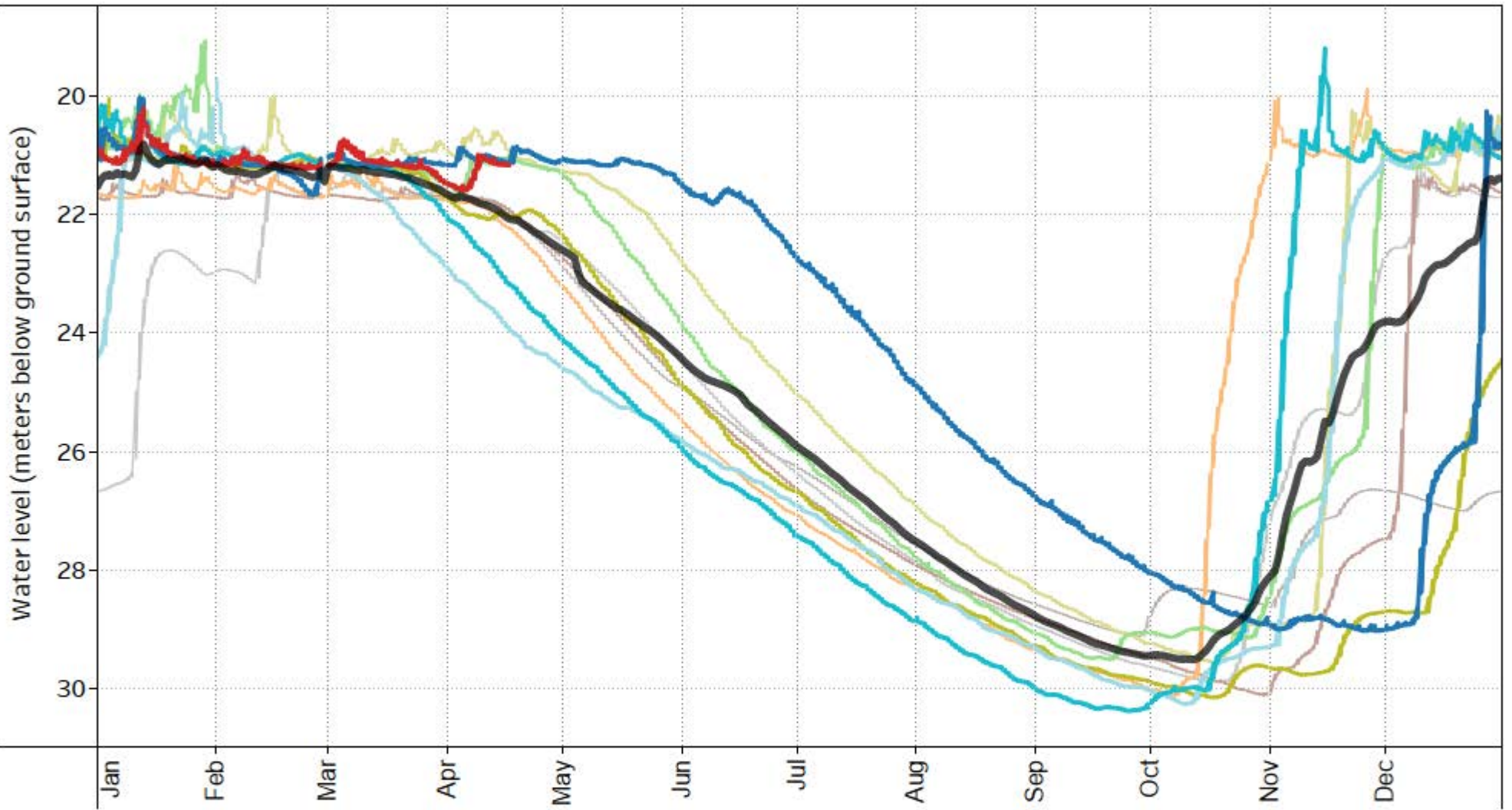
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 435 (WR6 - Nanaimo River)

FIGURE 56-C



VOW 05 - Grandom (WR6 - Nanaimo River) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
165 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

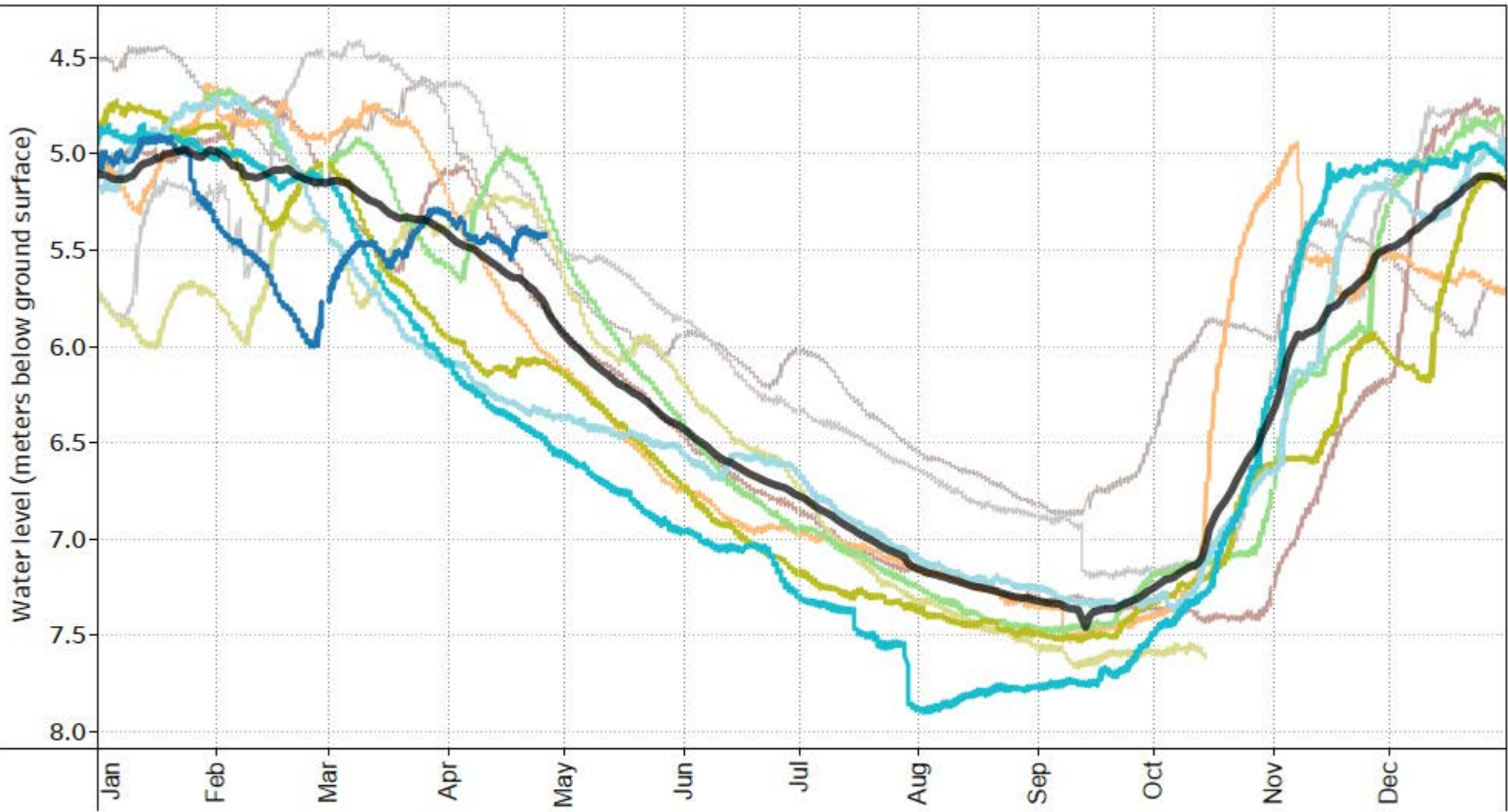
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 05 - Grandom (WR6 - Nanaimo River)

FIGURE 57-C



OW 197 (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- Average Groundwater Level (2013-2022)

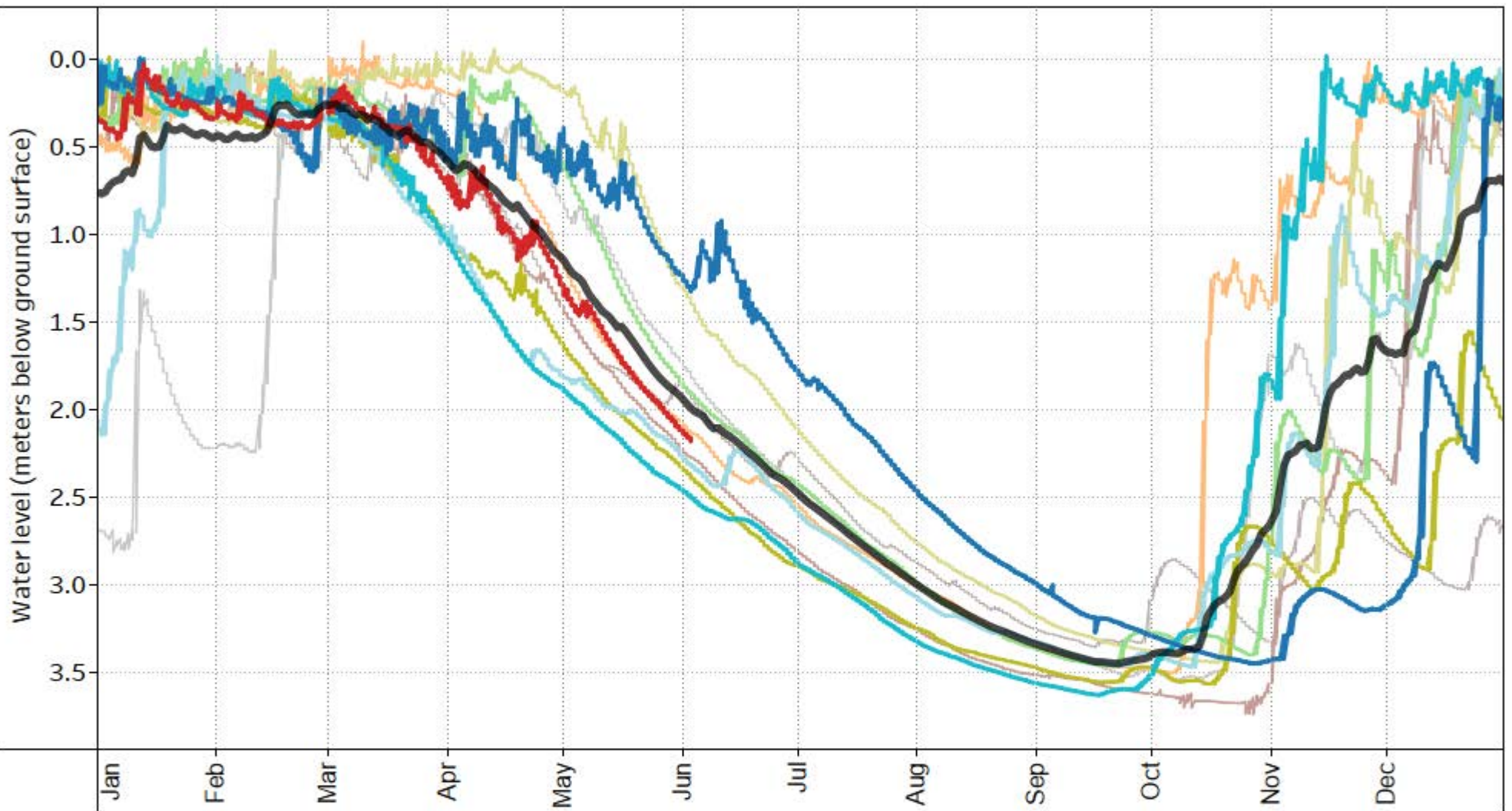
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 197 (WR7 - Gabriola Island)

FIGURE 59-C



OW 316 (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> ■ 2023 ■ 2022 ■ 2021 ■ 2020 | <ul style="list-style-type: none"> ■ 2019 ■ 2018 ■ 2017 ■ 2016 | <ul style="list-style-type: none"> ■ 2015 ■ 2014 ■ 2013 ■ Average Groundwater Level (2013-2022) |
|--|--|---|

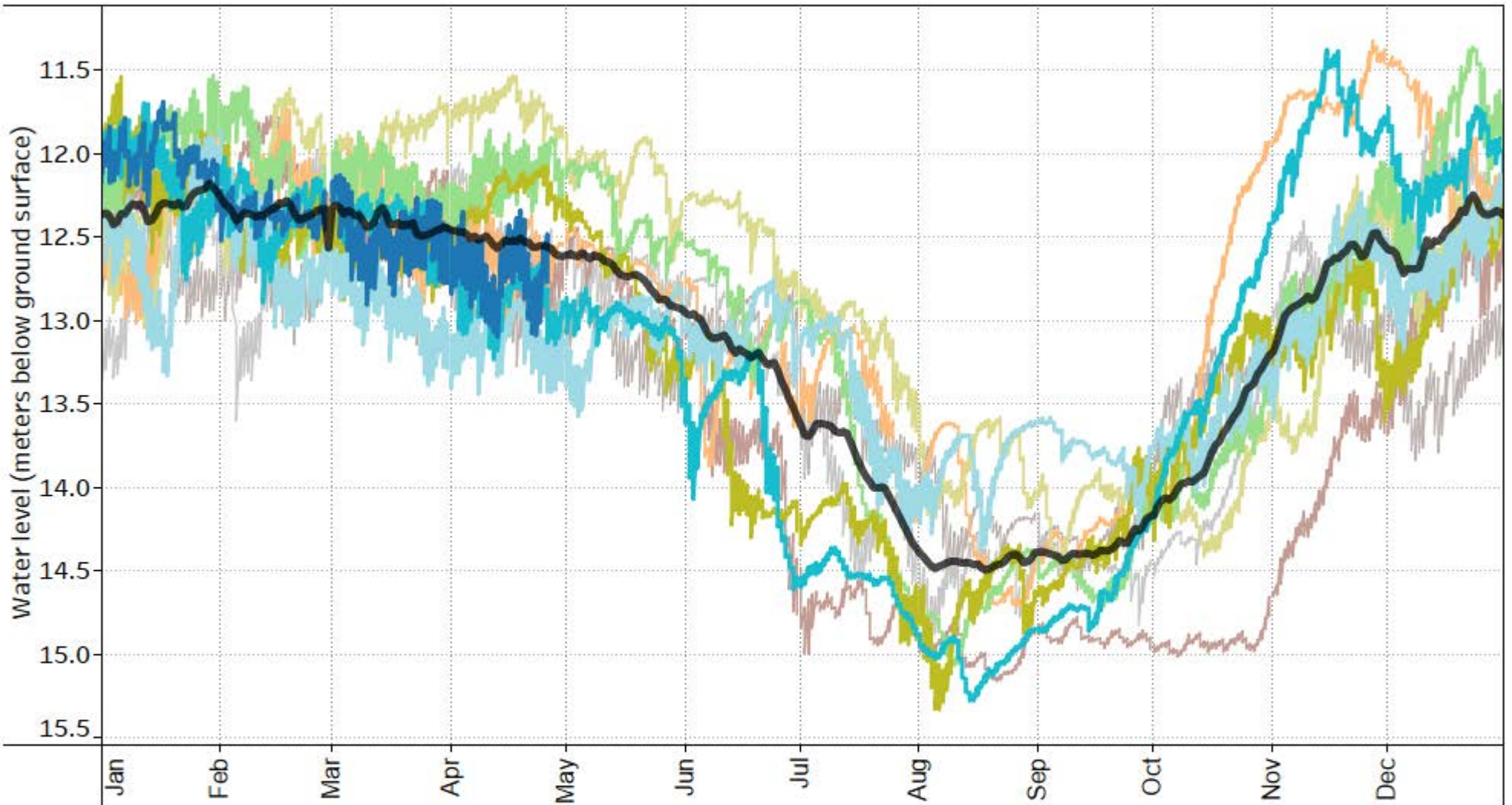
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 316 (WR7 - Gabriola Island)

FIGURE 60-C



OW 385 (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|---|
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | — Average Groundwater Level (2013-2022) |
| ■ 2019 | ■ 2015 | |

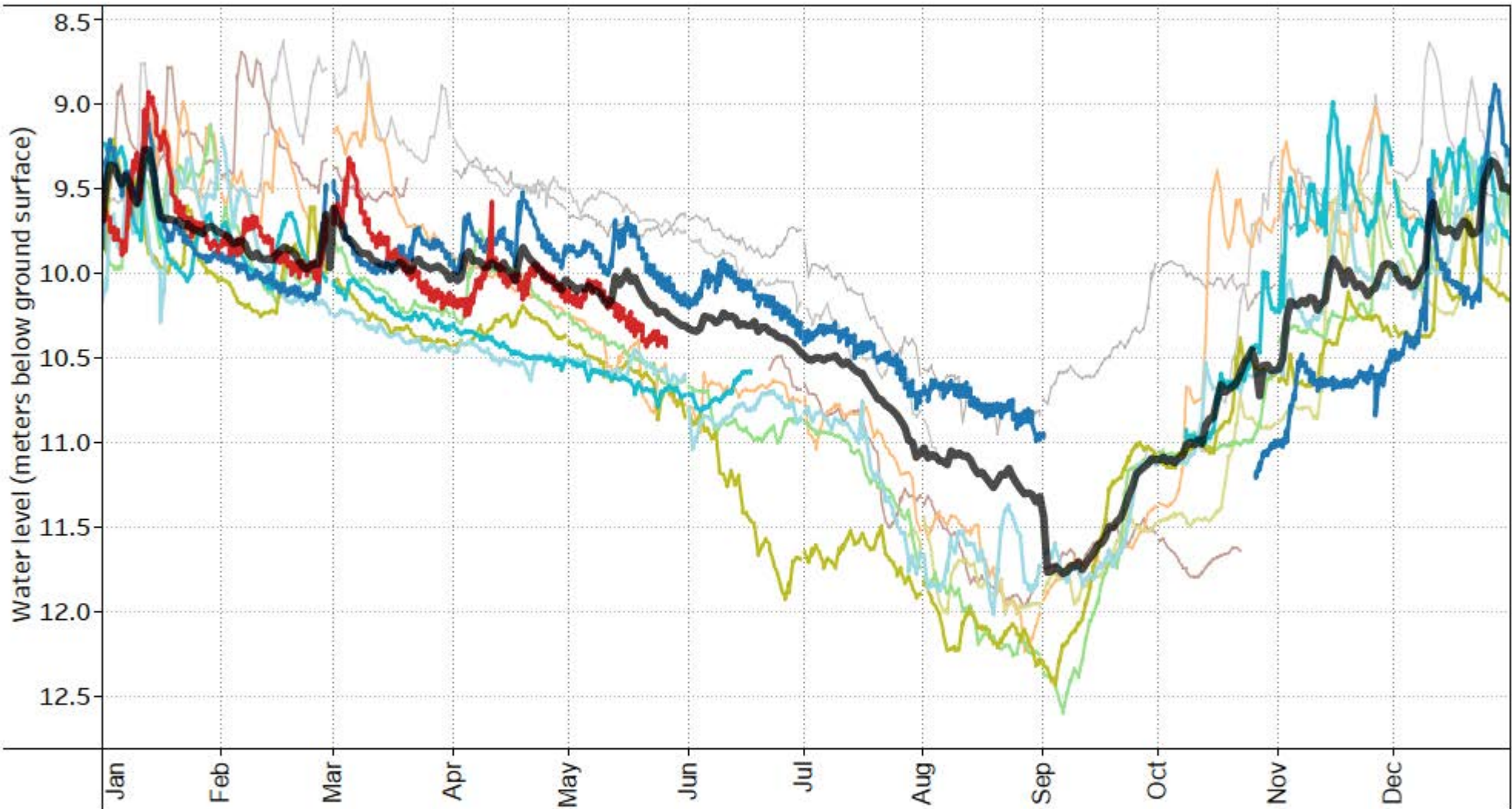
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
OW 385 (WR7 - Gabriola Island)

FIGURE 61-C



VOW 07 - Descanso (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

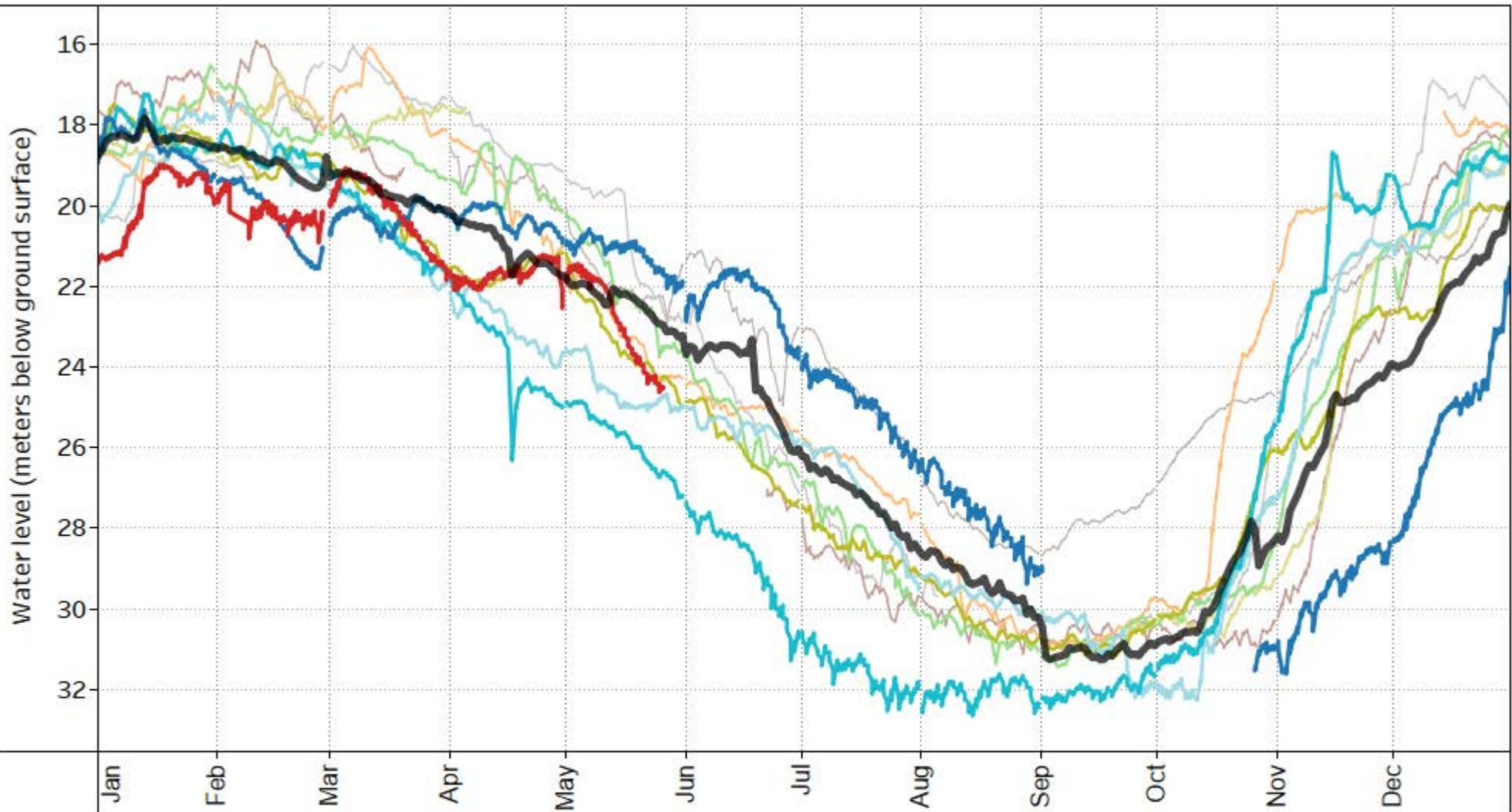
DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 07 - Descanso (WR7 - Gabriola Island)

FIGURE 62-C



VOW 08 - Mander (WR7 - Gabriola Island) Seasonal Static Water Level



NOTES:

Observation Well
Associated with Aquifer
709 (Fractured sedimentary
rock)

YEAR

- | | | |
|--------|--------|--|
| ■ 2023 | ■ 2019 | ■ 2015 |
| ■ 2022 | ■ 2018 | ■ 2014 |
| ■ 2021 | ■ 2017 | ■ 2013 |
| ■ 2020 | ■ 2016 | ■ Average Groundwater Level
(2013-2022) |

DRINKING WATER AND WATERSHED PROTECTION –
REGIONAL GROUNDWATER LEVEL ANALYSIS 2023

SEASONAL GROUNDWATER LEVEL CHART
VOW 08 - Mander (WR7 - Gabriola Island)

FIGURE 63-C

