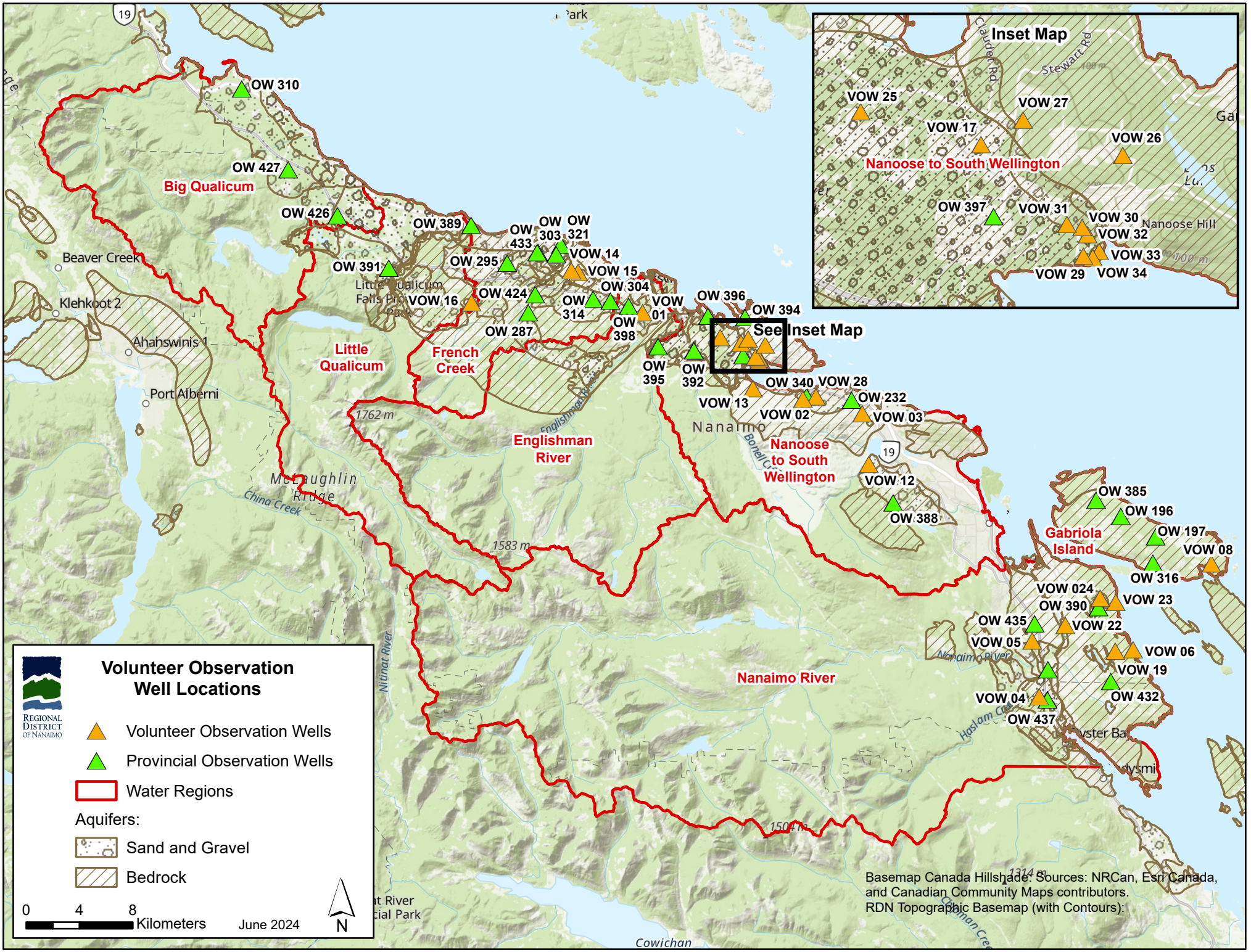
Figure 1 – Observation Well Locations



Volunteer Observation Well Locations
Regional District of Nanaimo
Volunteer Observation Wells
Provincial Observation Wells
Water Regions
Aquifers:
Sand and Gravel
Bedrock
0 4 8 Kilometers
June 2024
N
Inset Map
Nanoose to South Wellington
See Inset Map
Big Qualicum
Little Qualicum
French Creek
Englishman River
Nanoose to South Wellington
Gabriola Island
Nanaimo River
OW 310
OW 427
OW 426
OW 389
OW 391
OW 295
OW 433
OW 303
OW 321
VOW 14
VOW 15
OW 304
OW 424
OW 314
VOW 16
OW 287
OW 398
VOW 01
OW 396
OW 394
OW 395
OW 392
VOW 13
OW 340
VOW 28
OW 232
VOW 02
VOW 03
VOW 12
OW 388
OW 385
OW 196
OW 197
VOW 08
OW 316
VOW 024
OW 390
VOW 23
OW 435
VOW 22
VOW 05
VOW 06
VOW 19
OW 432
VOW 04
OW 437
VOW 25
VOW 27
VOW 17
VOW 26
OW 397
VOW 31
VOW 30
VOW 32
VOW 33
VOW 29
VOW 34
Beaver Creek
Klehkoot 2
Ahahswinis 1
Port Alberni
McLaughlin Ridge
China Creek
Nitinat River
Nanaimo
Nanaimo River
Haslam Cr
Cowichan
Stewart Rd
Claudet Rd
Nanoose Hill
1762 m
1583 m
1504 m
1314 m
Basemap Canada Hillshade: Sources: NRCan, Esri Canada, and Canadian Community Maps contributors.
RDN Topographic Basemap (with Contours):

Appendix A – Overview of Groundwater Observation Well Data 2024

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 - 2024)	Seasonal Groundwater Level Trend 2024	Groundwater Level Charts (Figure #)	Water Service Wells Correlated to Each Mapped Aquifer (2020)	Total Number of Registered Wells Correlated to Each Mapped Aquifer (2024)
	Active Provincial Groundwater Observation Wells used in 2024 Analysis	Active RDN Volunteer Observation Wells (Site Name and Number) used in 2024 Analysis						
WR 1 - Big Qualicum	OW 310, OW 427	-	416-Surficial (CON)	Stable	Below	FIGURES 1-B, 1-C, 2-B, 2-C	Deep Bay Improvement District - 7 wells Bowser Waterworks District - 4 wells	61
	OW 391, OW 426	-	662-Surficial (CON)	Stable to Increasing	Below	FIGURES 3-B, 3-C, 4-B, 4-C	Qualicum Bay Horne Lake Waterworks District - 3 wells	242
WR 2 - Little Qualicum	OW 389	-	664-Surficial (UNC)	Stable	Average	FIGURES 5-B, 5-C	Town of Qualicum Beach - 9 Wells Regional District of Nanaimo - 2 Wells Small Water Systems - 1 Well	47
WR 3 - French Creek	-	Lowrys (VOW 15)	212-Bedrock	Moderate Decline	Below	FIGURES 6-B, 6-C	Small Water Systems - 1 Well	32
	OW 295, OW 434	Rinvold (VOW 16)	217-Surficial (CON)	Moderate Decline to Increasing	Above	FIGURES 11-B, 11-C, 12-B, 12-C, 13-B, 13-C	Town of Qualicum Beach - 6 Wells EPCOR Utilities - 1 Well Small Water Systems - 12 Wells	142
	OW 303, OW 321, OW 424, OW 433	-	1250-Surficial (CON)	Stable to Increasing	Average	FIGURES 15-B, 15-C, 16-B, 16-C, 17-B, 17-C, 18-B, 18-C	Regional District of Nanaimo - 7 Wells	75
WR 4 - Englishman River	OW 304, OW 314, OW 398	Hodges (VOW 14) 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, 19-B, 19-C	City of Parksville - 20 Wells EPCOR Utilities - 5 Wells Small Water Systems - 6 Wells	224
	OW 287	-	220-Bedrock	Large Decline	Below	FIGURES 14-B, 14-C	BC Parks - Vancouver Island Region - 1 Well Small Water Systems - 7 Wells	328
WR 5 - Nanoose to South Wellington	-	Biggs (VOW 12)	167-Surficial (CON)	Stable	Average	FIGURES 21-B, 21-C	Small Water Systems - 2 Wells	18
	OW 388	-	211-Bedrock	Large Decline	Below	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), B9 (VOW 34)	214-Bedrock	Large Decline to Increasing	Average	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	42
	OW 394	Florence (VOW 26), NWB (VOW 27)	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, OW 340	Southwind (VOW 28)	215-Surficial (CON)	Stable to Large Decline	Average	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, OW 395, OW 396	Sanders (VOW 25)	219-Surficial (CON)	Increasing to Large Decline	Above	FIGURES 20-B, 20-C, 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	33
	OW 392, OW 397	O3 (VOW 29), 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	171
WR 6 - Nanaimo River	OW 436	Hallberg (VOW 04)	160-Surficial (CON)	Stable to Moderate Decline	Below	FIGURES 44-B, 44-C, 45-B, 45-C	Small Water Systems - 1 Well	38
	OW 312, OW 437	-	161-Surficial (UNC)	Stable to Moderate Decline	Average	FIGURES 46-B, 46-C, 47-B, 47-C	Small Water Systems - 2 Wells	207
	-	Brightman (VOW 24)	163-Surficial (CON)	Stable	Below	FIGURES 54-B, 54-C	None	17
	OW 390, OW 432	Pylades (VOW 06), DeCourcy (VOW 19), Gould (VOW 22), Haro (VOW 23)	162-Bedrock	Moderate Decline to Increasing	Average	FIGURES 48-B, 48-C, 49-B, 49-C, 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	1236
	OW 435	Grandom (VOW 05)	165-Bedrock	Stable to Increasing	Above	FIGURES 55-B, 55-C, 56-B, 56-C	Small Water Systems - 5 Wells	327
WR 7 - Gabriola	OW 196, OW 197, OW 316, OW 385	Mander (VOW 08)	709-Bedrock	Stable to Moderate Decline	Below	FIGURES 57-B, 57-C, 58-B, 58-C, 59-B, 59-C, 60-B, 60-C, 61-B, 61-C	Small Water Systems - 9 Wells	1042

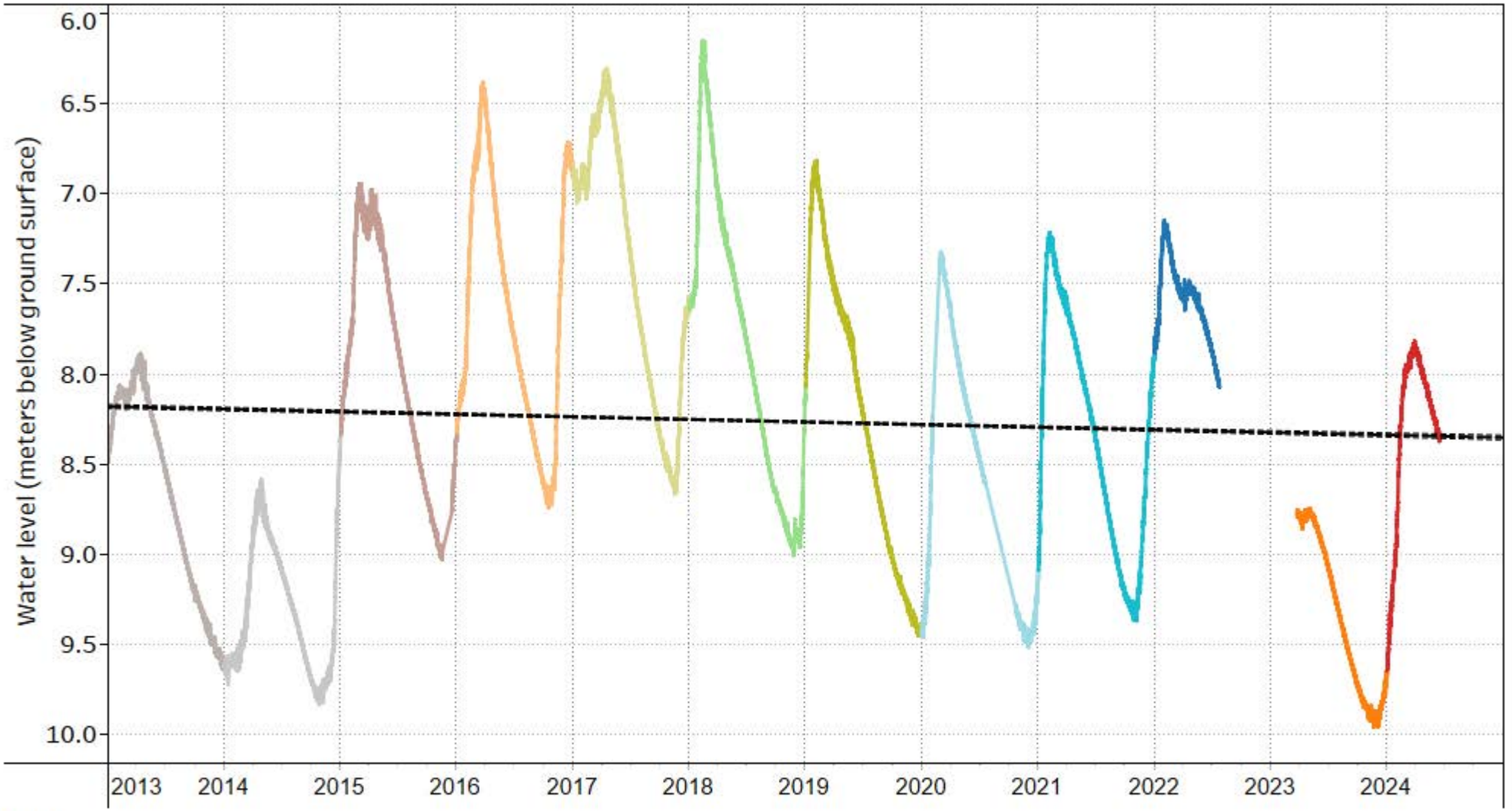
Notes: - indicates no data available; CON indicates surficial aquifer is confined; UNC indicates surficial aquifer is unconfined; the total number of registered wells, including private domestic wells, correlated to an aquifer were obtained from the Provincial GWELLS aquifer database (BC MoE, 2024).

Appendix B – Historical Groundwater Level Results 2013-2024

Table B1: Long-Term Groundwater Level Trend Results for the VOWN and PGOWN in 2024

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 - 2024	3.67E-05	0.013401304	FIGURE 1-B	Stable
			OW 427	2014 - 2024	-1.322E-05	-0.00482676	FIGURE 2-B	Stable
	662	Surficial	OW 426	2013 - 2024	-1.01E-04	-0.037027448	FIGURE 3-B	Increasing
WR2 - Little Qualicum			OW 391	2013 - 2024	-5.60E-06	-0.002045067	FIGURE 4-B	Stable
	664	Surficial	OW 389	2013 - 2024	-3.83E-05	-0.013994752	FIGURE 5-B	Stable
WR3 - French Creek	212	Bedrock	VOW 15	2018 - 2024	0.000263378	0.096133071	FIGURE 6-B	Moderate Decline
	216	Surficial	OW 304	2013 - 2024	-0.001330542	-0.485648002	FIGURE 7-B	Increasing
			OW 314	2013 - 2024	-0.000525829	-0.19192752	FIGURE 8-B	Increasing
			OW 398	2013 - 2024	-0.000493882	-0.180266765	FIGURE 9-B	Increasing
			VOW 14	2018 - 2024	-0.000480033	-0.175211914	FIGURE 10-B	Increasing
	217	Surficial	OW 295	2013 - 2024	-0.000113021	-0.041252676	FIGURE 11-B	Increasing
			OW 434	2013 - 2024	-0.000240147	-0.087653834	FIGURE 12-B	Increasing
			VOW 16	2018 - 2024	0.000219301	0.080044988	FIGURE 13-B	Moderate Decline
	220	Bedrock	OW 287	2013 - 2024	0.000683909	0.249626861	FIGURE 14-B	Large Decline
	1250	Surficial	OW 303	2013 - 2022	-0.000510913	-0.186483229	FIGURE 15-B	Increasing
			OW 321	2013 - 2024	-0.001129288	-0.412189993	FIGURE 16-B	Increasing
			OW 424	2013 - 2024	2.39E-05	0.008738873	FIGURE 17-B	Stable
			OW 433	2014 - 2024	-0.000877072	-0.320131339	FIGURE 18-B	Increasing
WR4 - Englishman River	216	Surficial	VOW 01	2014 - 2024	-0.000161755	-0.059040698	FIGURE 19-B	Increasing
	219	Surficial	OW 395	2013 - 2024	0.000256306	0.093551866	FIGURE 20-B	Moderate Decline
WR5 - Nanoose to South Wellington	167	Surficial	VOW 12	2016 - 2024	-2.37E-05	-0.008636864	FIGURE 21-B	Stable
	211	Bedrock	OW 388	2013 - 2024	0.001402116	0.511772458	FIGURE 22-B	Large Decline
	213	Bedrock	VOW 02	2013 - 2024	-0.000642201	-0.234403404	FIGURE 23-B	Increasing
			VOW 03	2013 - 2024	-0.000462580	-0.168841822	FIGURE 24-B	Increasing
			VOW 13	2016 - 2024	-0.000589227	-0.215067746	FIGURE 25-B	Increasing
	214	Bedrock	VOW 30	2015 - 2024	-0.000832490	-0.303858813	FIGURE 26-B	Increasing
			VOW 31	2015 - 2024	-0.000170479	-0.062224994	FIGURE 27-B	Increasing
			VOW 32	2015 - 2024	-0.000663049	-0.242012934	FIGURE 28-B	Increasing
			VOW 33	2015 - 2024	0.000510443	0.186311711	FIGURE 29-B	Large Decline
			VOW 34	2015 - 2024	-0.000497896	-0.181732166	FIGURE 30-B	Increasing
	215	Surficial	OW 232	2013 - 2024	3.04E-05	0.011113356	FIGURE 31-B	Stable
			OW 340	2013 - 2024	0.000378260	0.138064754	FIGURE 32-B	Large Decline
			VOW 28	2018 - 2024	-1.62E-04	-0.059304623	FIGURE 33-B	Increasing
	218	Bedrock	OW 394	2013 - 2024	1.90E-05	0.006950336	FIGURE 34-B	Stable
			VOW 26	2018 - 2024	0.000215414	0.078625946	FIGURE 35-B	Moderate Decline
			VOW 27	2018 - 2024	0.000930377	0.339587737	FIGURE 36-B	Large Decline
	219	Surficial	OW 393	2013 - 2024	-5.40E-05	-0.019727456	FIGURE 37-B	Stable
			OW 396	2013 - 2024	-5.28E-05	-0.019281754	FIGURE 38-B	Stable
			VOW 25	2018 - 2024	-0.000291171	-0.106277373	FIGURE 39-B	Increasing
	1098	Surficial	OW 392	2013 - 2024	-0.000276210	-0.100816825	FIGURE 40-B	Increasing
			OW 397	2013 - 2024	-0.0013069	-0.477032291	FIGURE 41-B	Increasing
			VOW 17	2015 - 2024	-0.000618268	-0.22566786	FIGURE 42-B	Increasing
			VOW 29	2015 - 2024	-1.10E-04	-0.040122141	FIGURE 43-B	Increasing
WR6 - Nanaimo River	160	Surficial	OW 436	2016 - 2024	-0.000035342	-0.012899772	FIGURE 44-B	Stable
			VOW 04	2013 - 2024	-2.96E-05	-0.010794081	FIGURE 45-B	Stable
	161	Surficial	OW 312	2013 - 2022	-3.70E-05	-0.013513013	FIGURE 46-B	Stable
			OW 437	2016 - 2024	-0.000021311	-0.00777852	FIGURE 47-B	Stable
	162	Bedrock	OW 390	2013 - 2024	-0.000343658	-0.125435178	FIGURE 48-B	Increasing
			OW 432	2013 - 2024	0.000131642	0.048049396	FIGURE 49-B	Moderate Decline
			VOW 06	2013 - 2024	0.000119882	0.043756898	FIGURE 50-B	Moderate Decline
			VOW 19	2018 - 2024	-0.000270893	-0.098875797	FIGURE 51-B	Increasing
			VOW 22	2018 - 2024	-0.000346723	-0.126553853	FIGURE 52-B	Increasing
			VOW 23	2018 - 2024	0.000617323	0.225322721	FIGURE 53-B	Large Decline
	163	Surficial	VOW 24	2018 - 2024	-0.000033192	-0.012115196	FIGURE 54-B	Stable
	165	Bedrock	OW 435	2014 - 2024	-1.11E-04	-0.04055255	FIGURE 55-B	Increasing
			VOW 05	2013 - 2024	-4.17E-04	-0.15228245	FIGURE 56-B	Increasing
WR7 - Gabriola Island	709	Bedrock	OW 196	2013 - 2024	-0.000060034	-0.021912277	FIGURE 57-B	Stable
			OW 197	2013 - 2024	7.91E-05	0.028854039	FIGURE 58-B	Stable
			OW 316	2013 - 2024	-0.000099421	-0.036288605	FIGURE 59-B	Increasing
			OW 385	2013 - 2024	8.06E-06	0.002942789	FIGURE 60-B	Stable
			VOW 08	2013 - 2024	3.32E-05	0.01212779	FIGURE 61-B	Stable

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

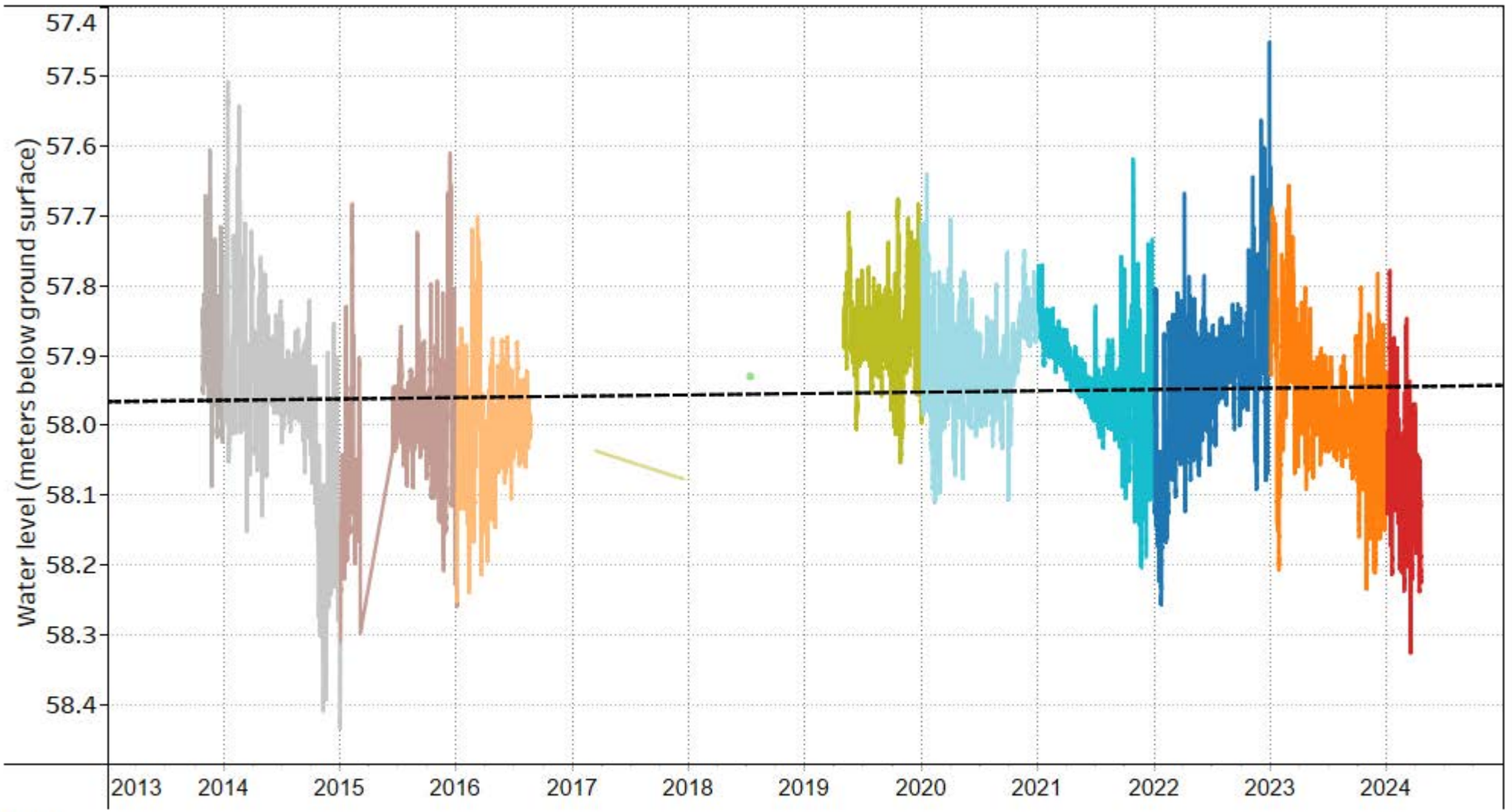
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 1-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

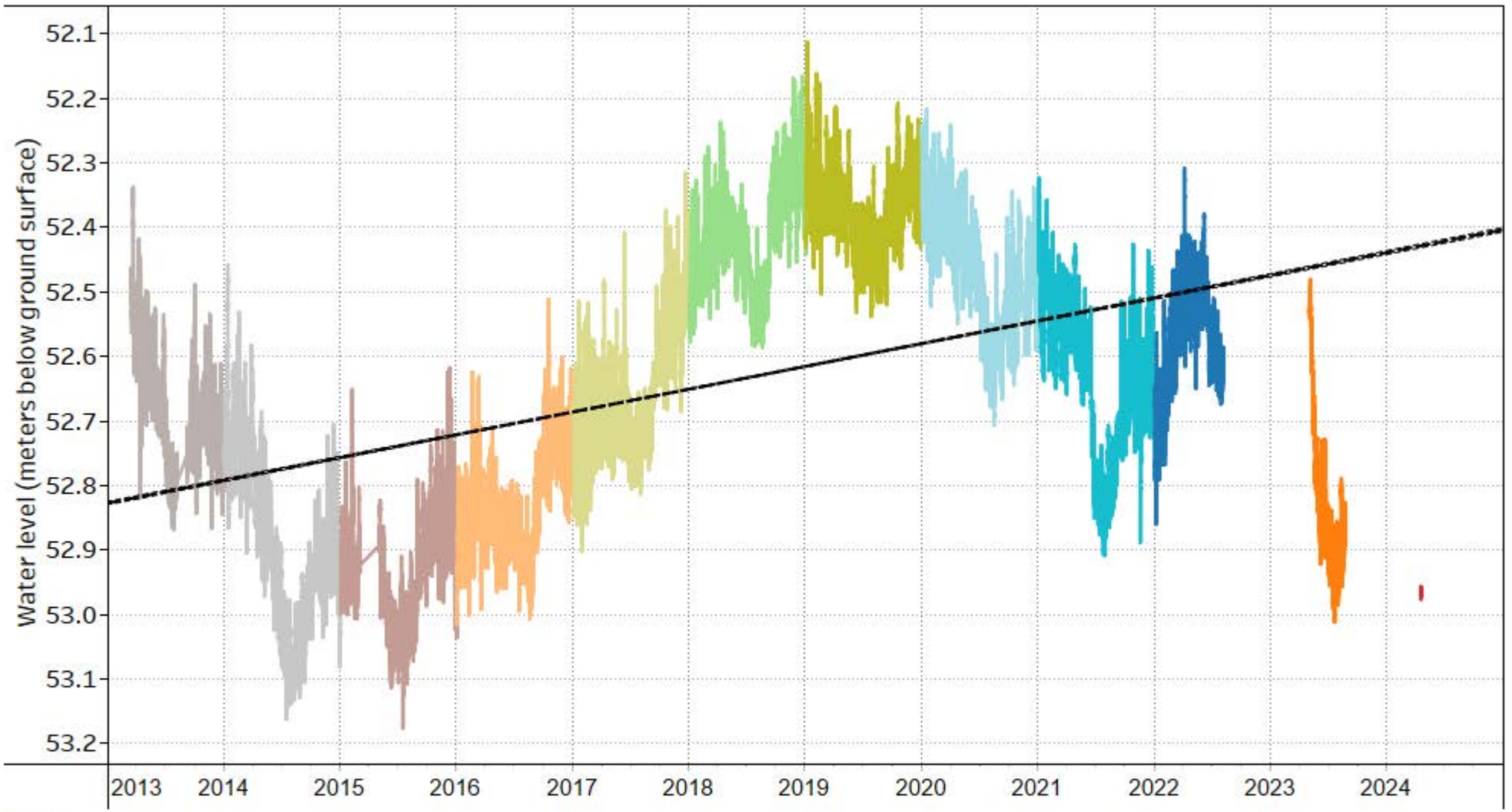
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 2-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

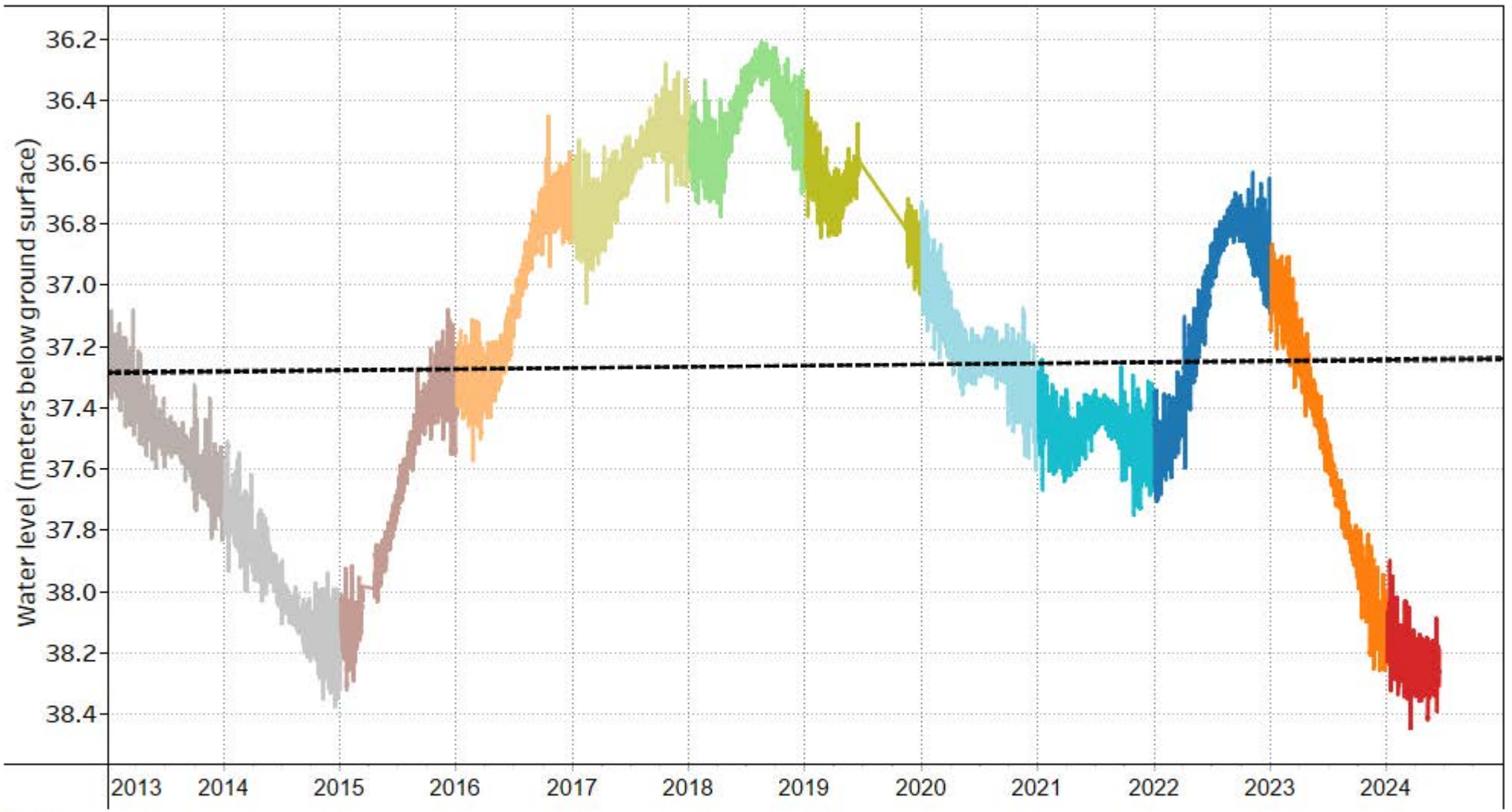
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 3-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

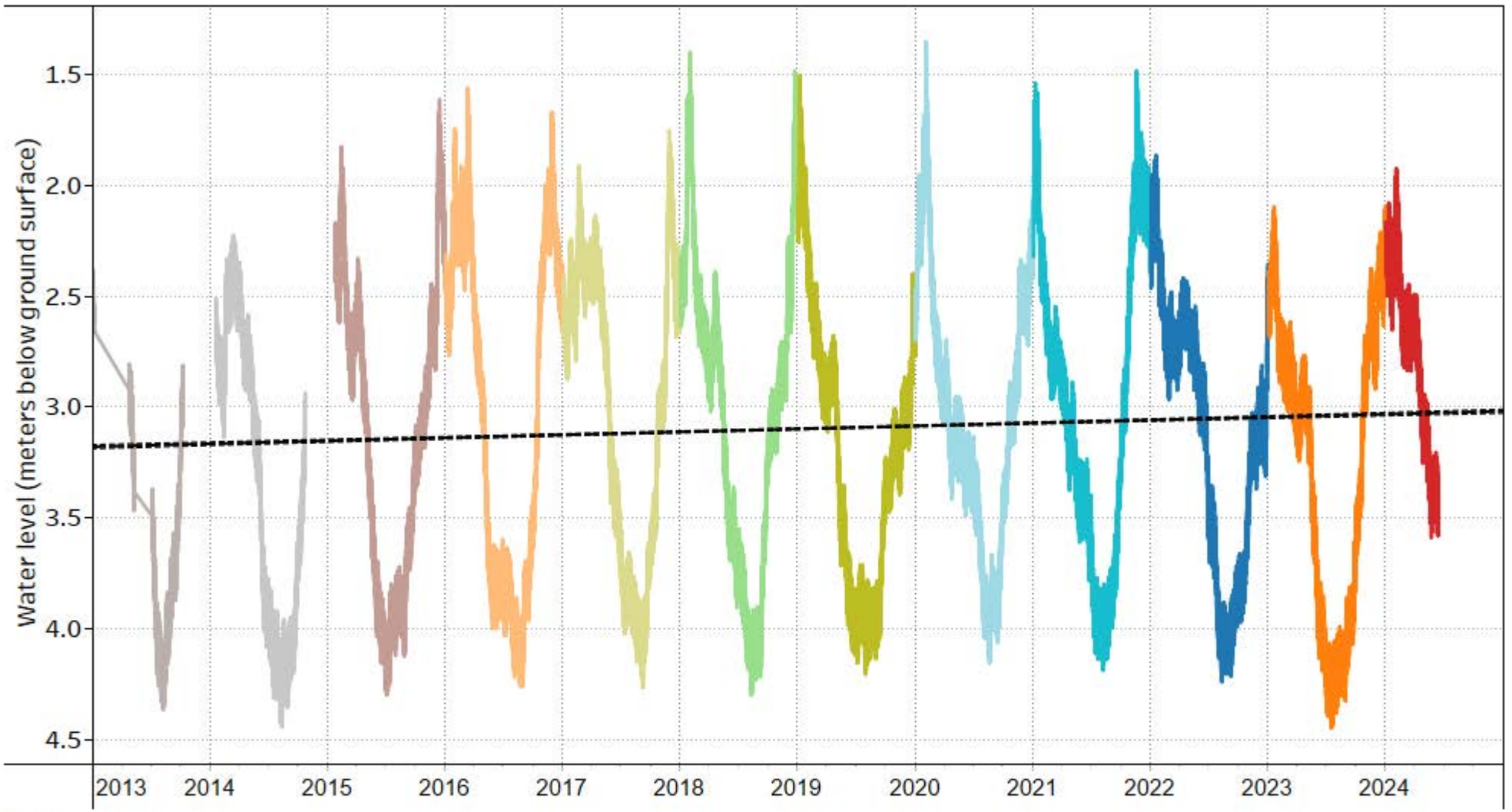
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 4-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

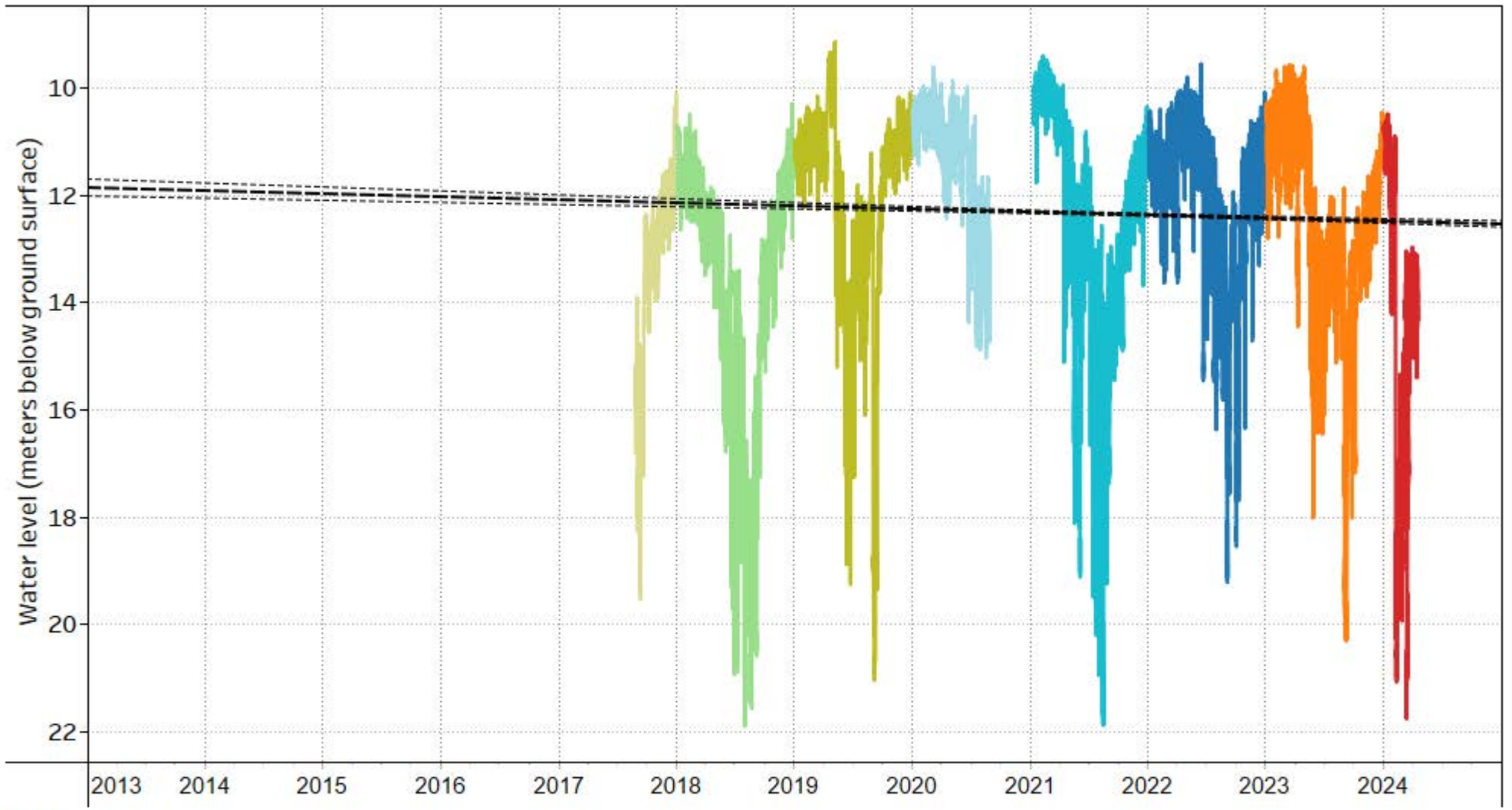
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 5-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 212 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

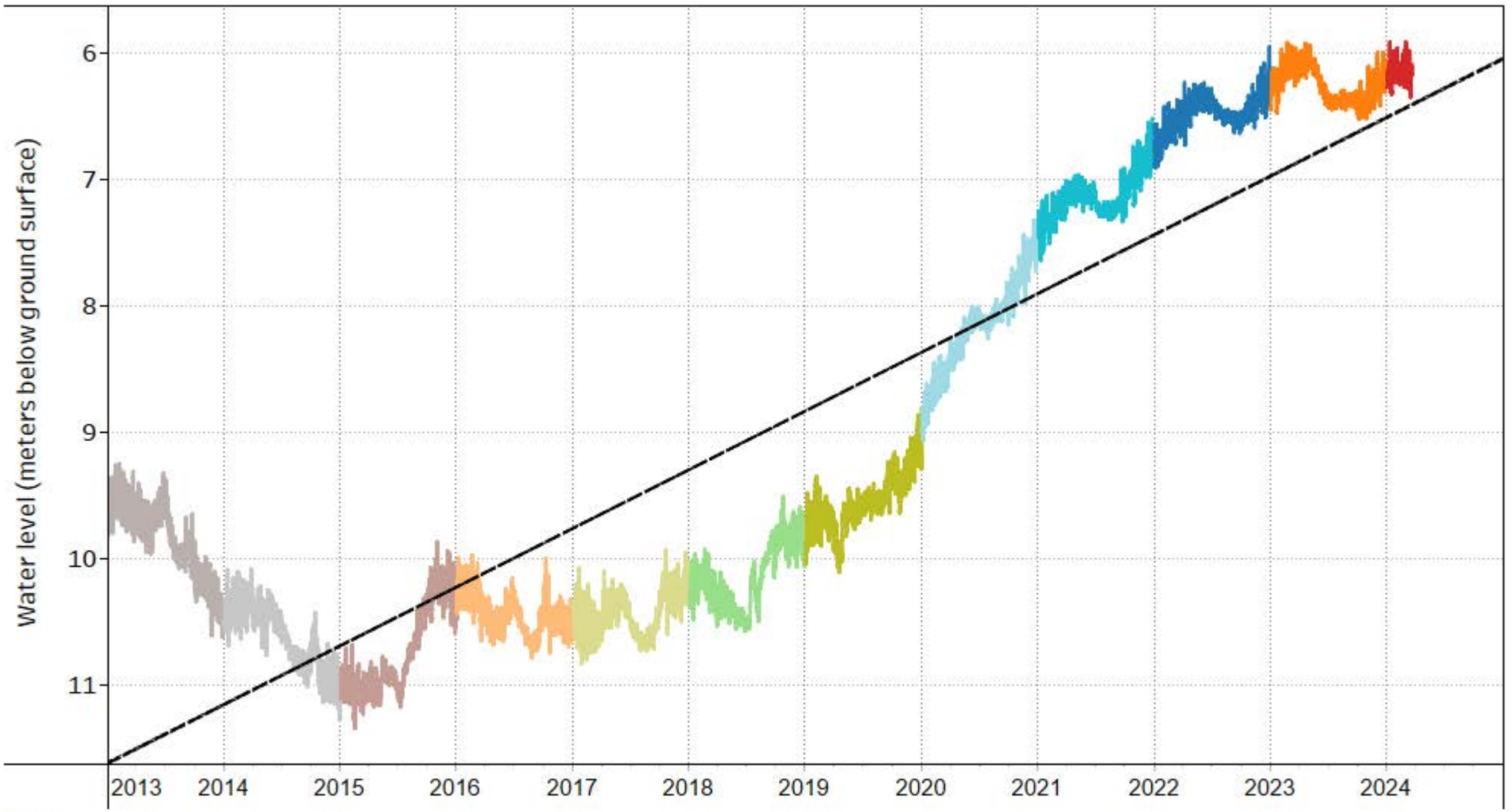
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 6-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

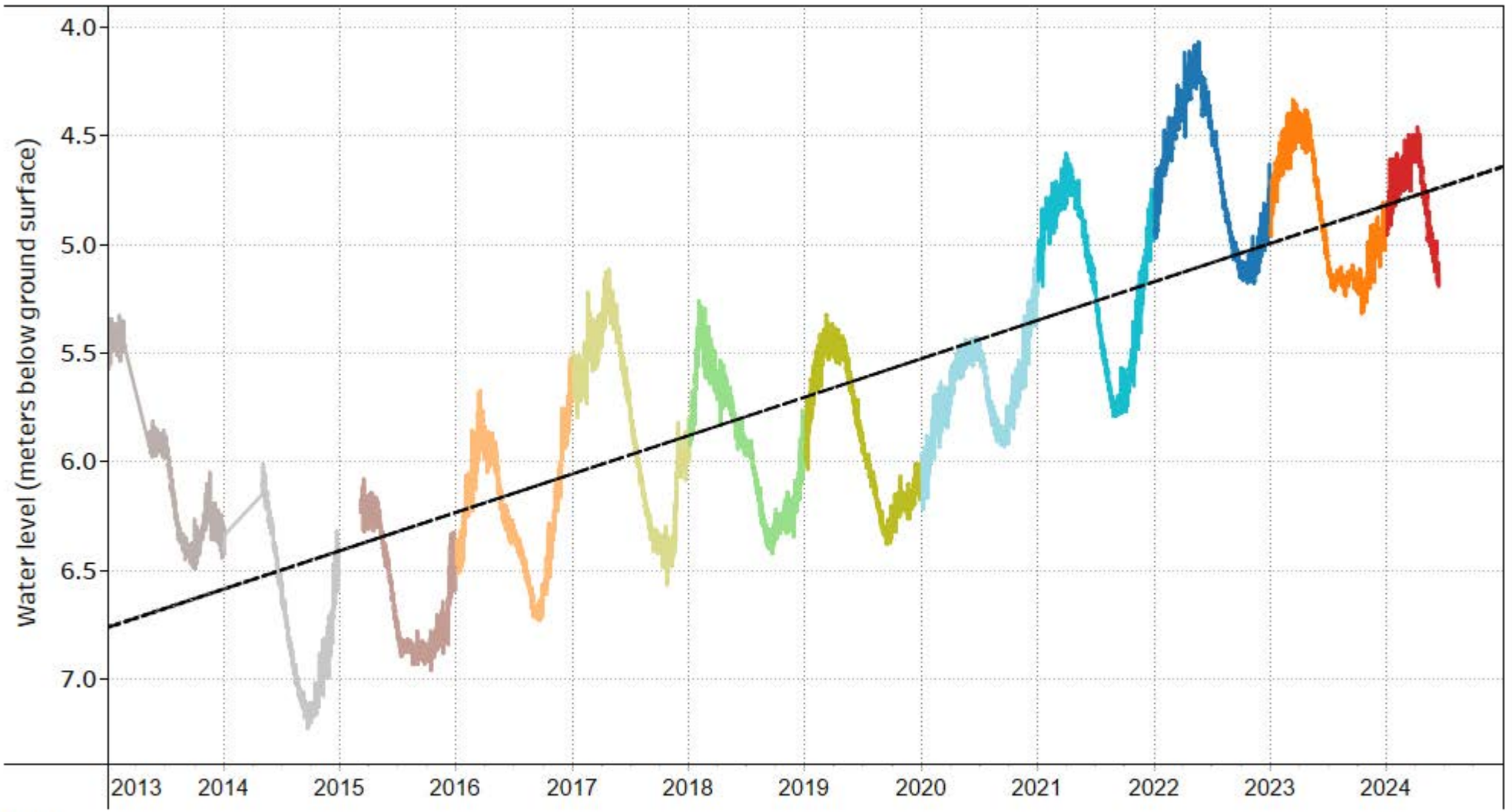
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 7-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

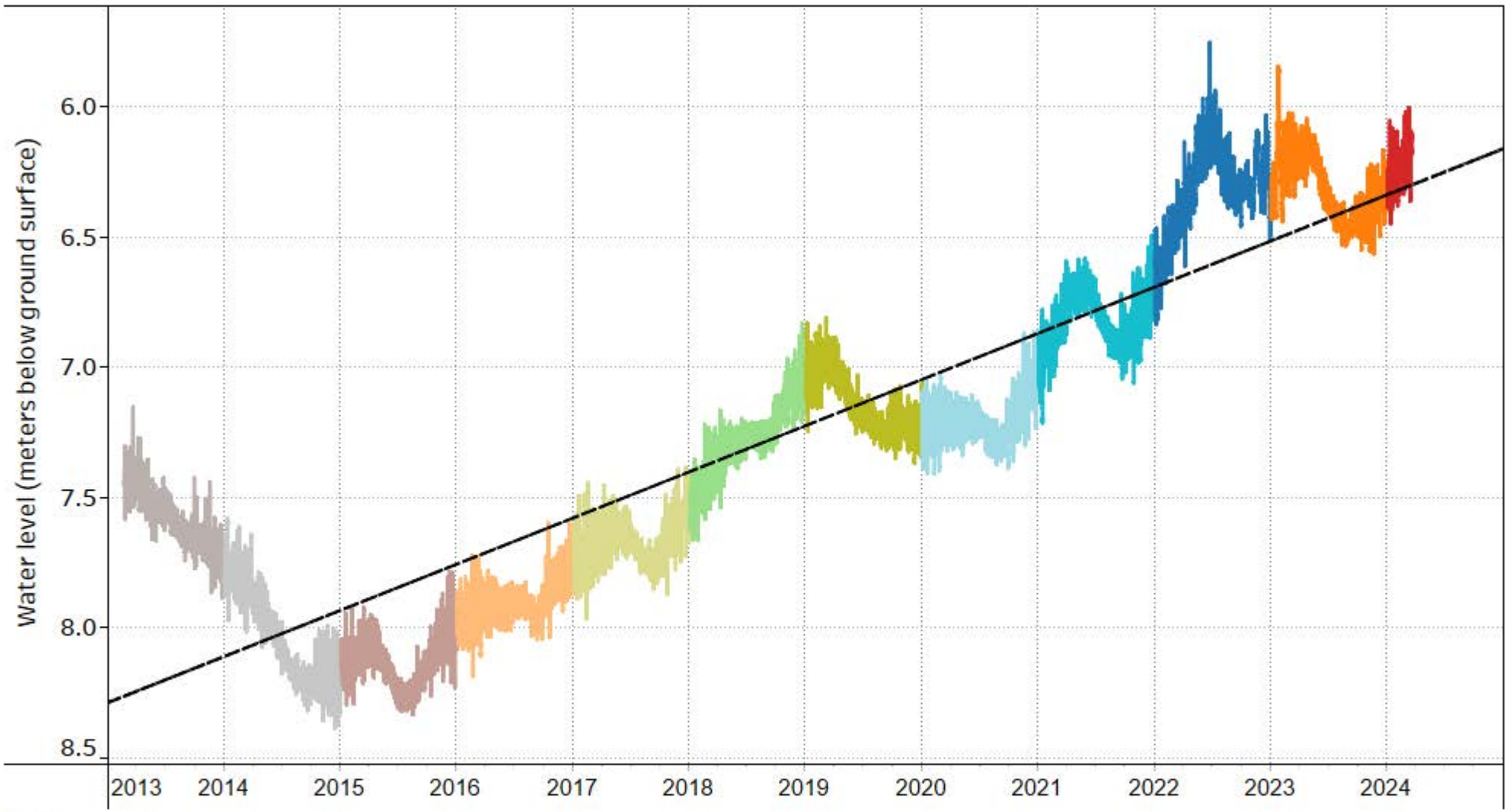
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 8-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

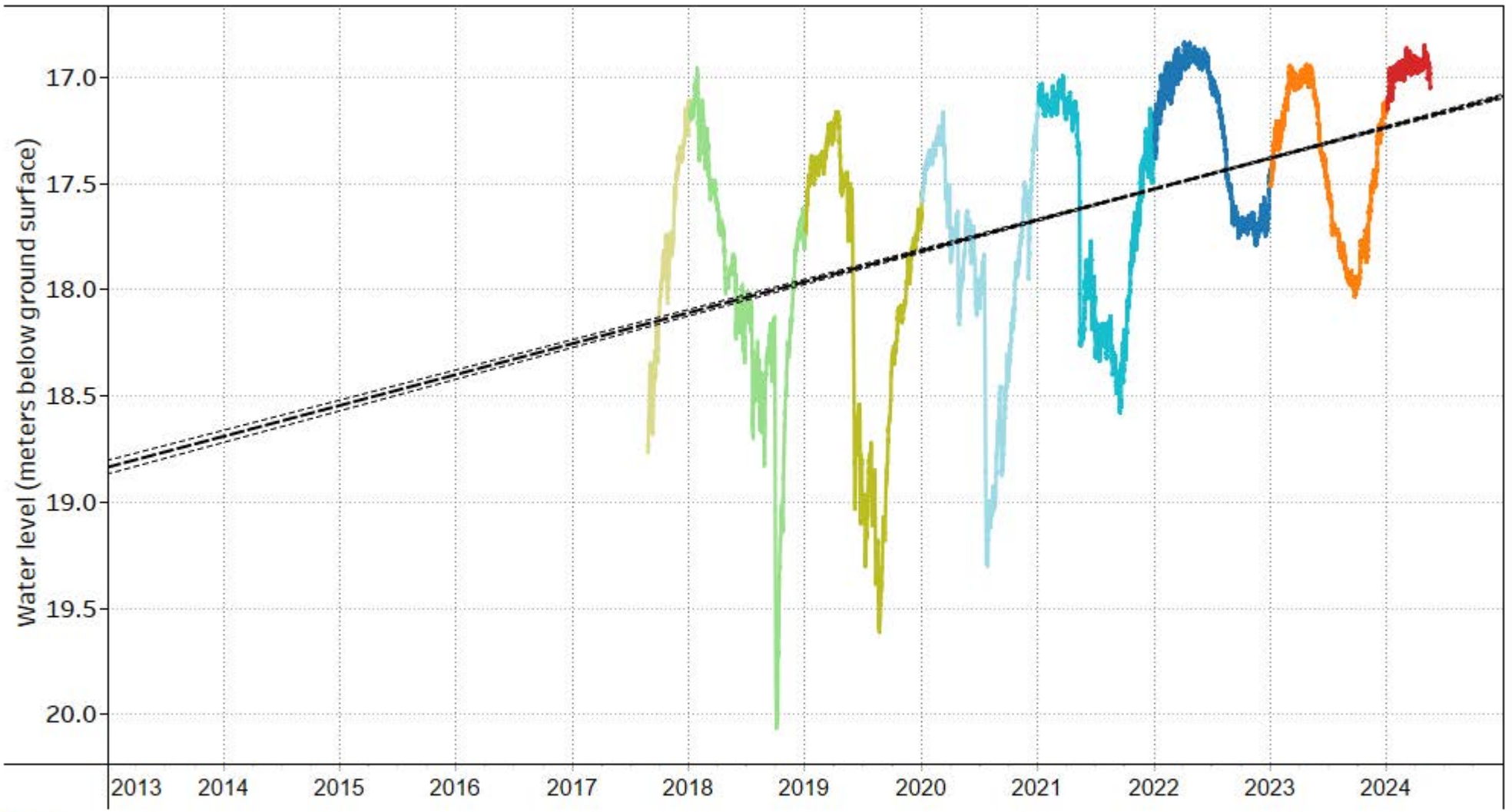
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 9-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020
2023	2019
2022	2018
2021	2017

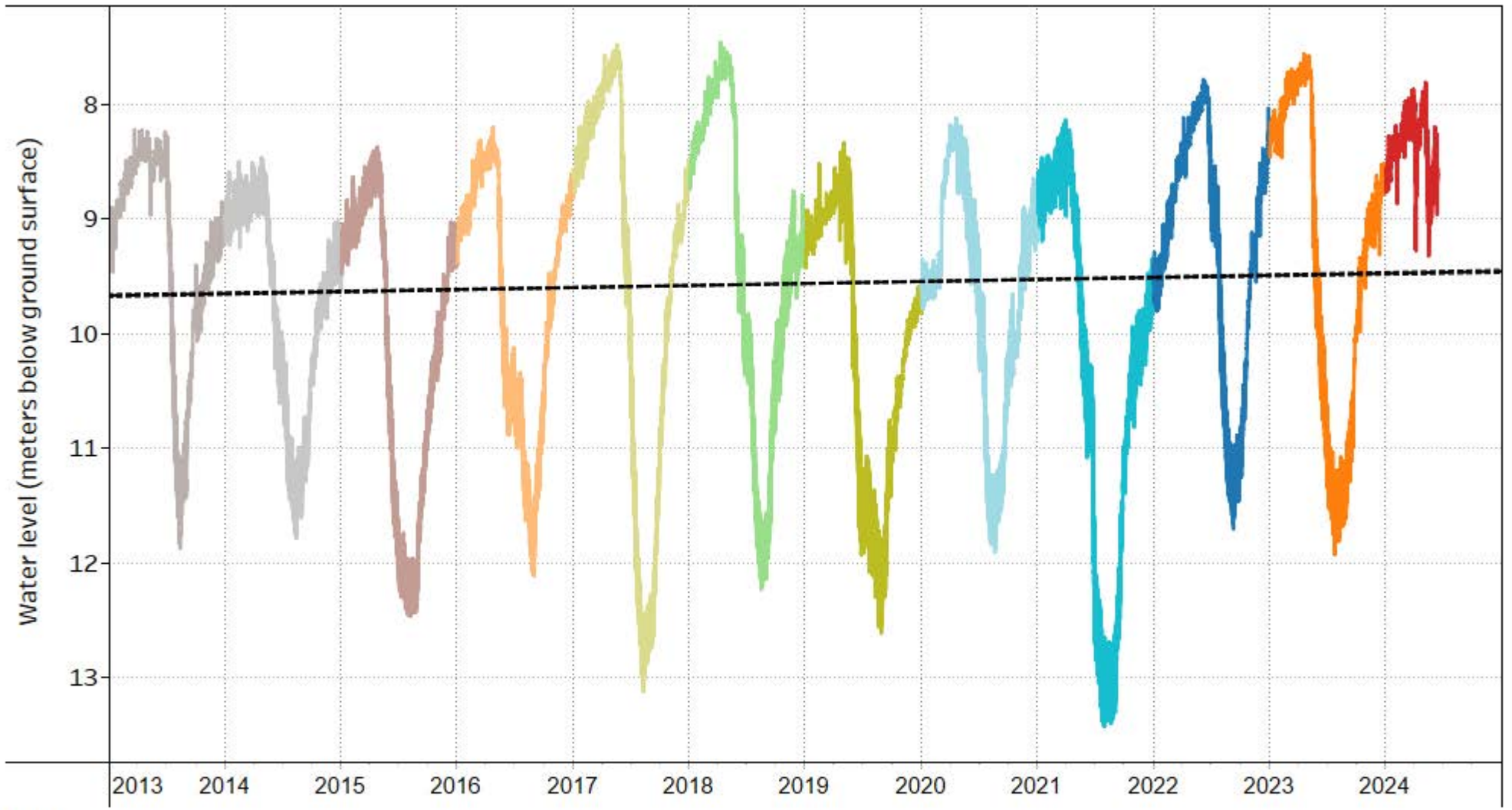
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 10-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

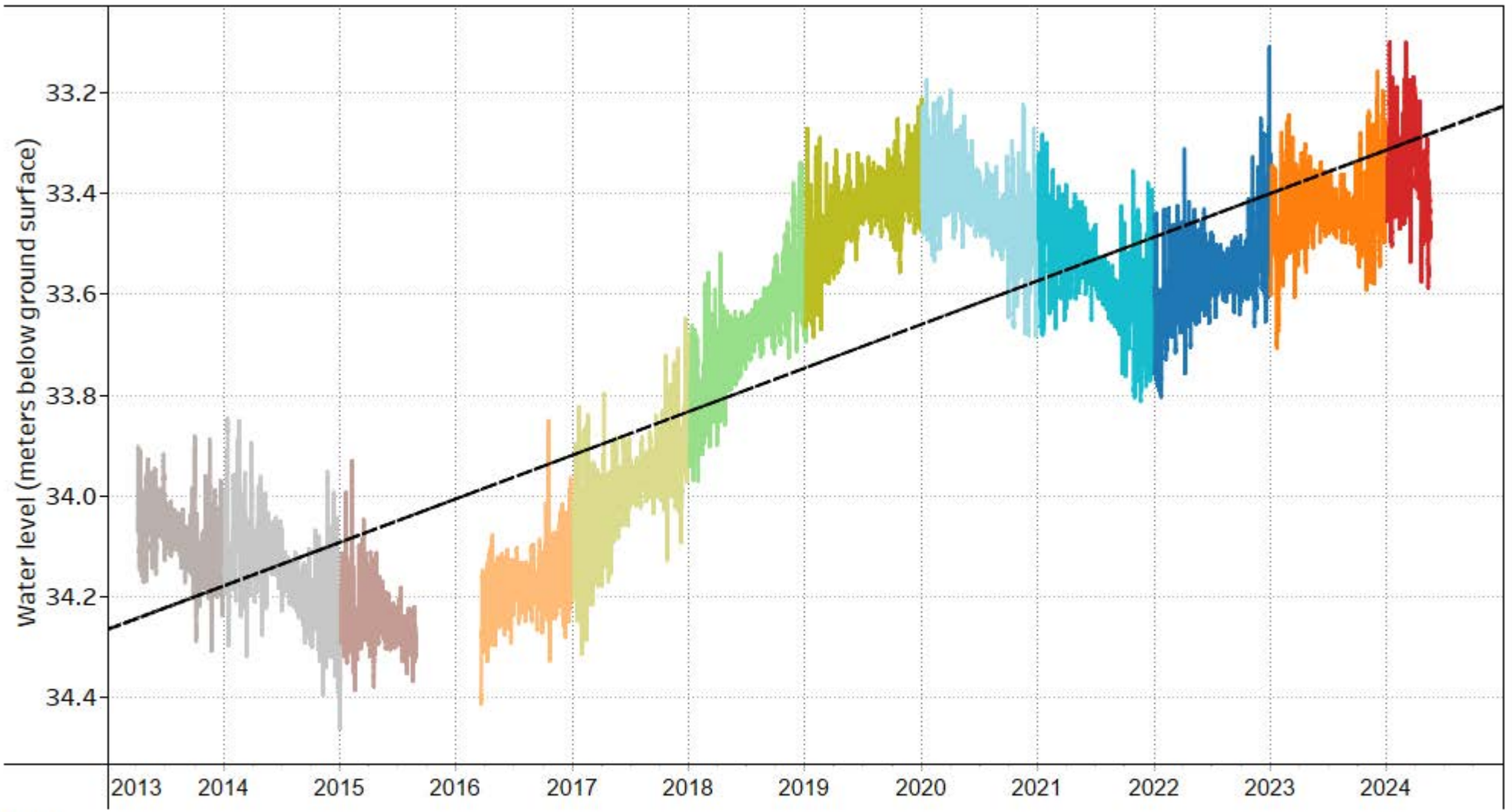
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 11-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

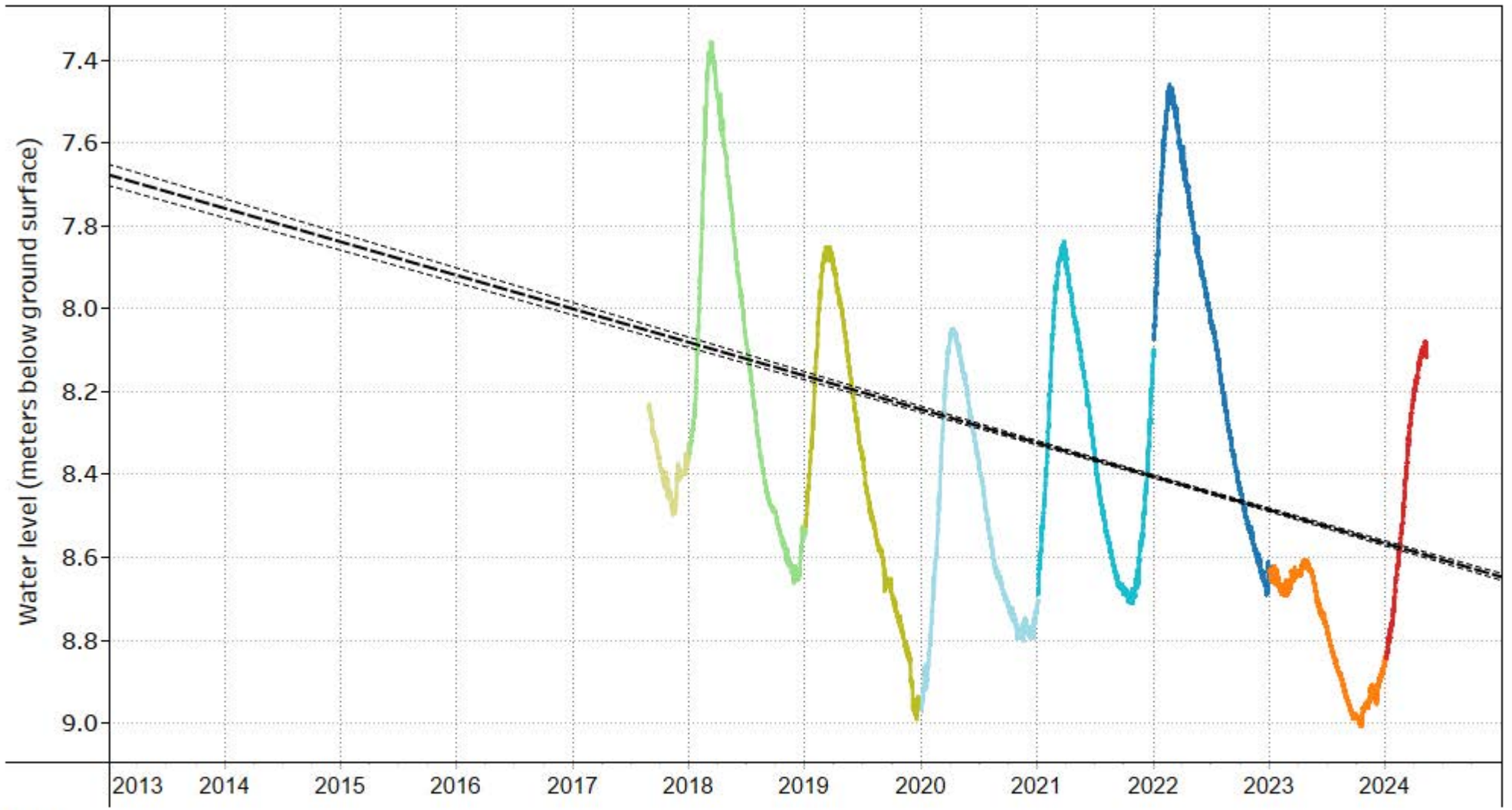
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 12-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

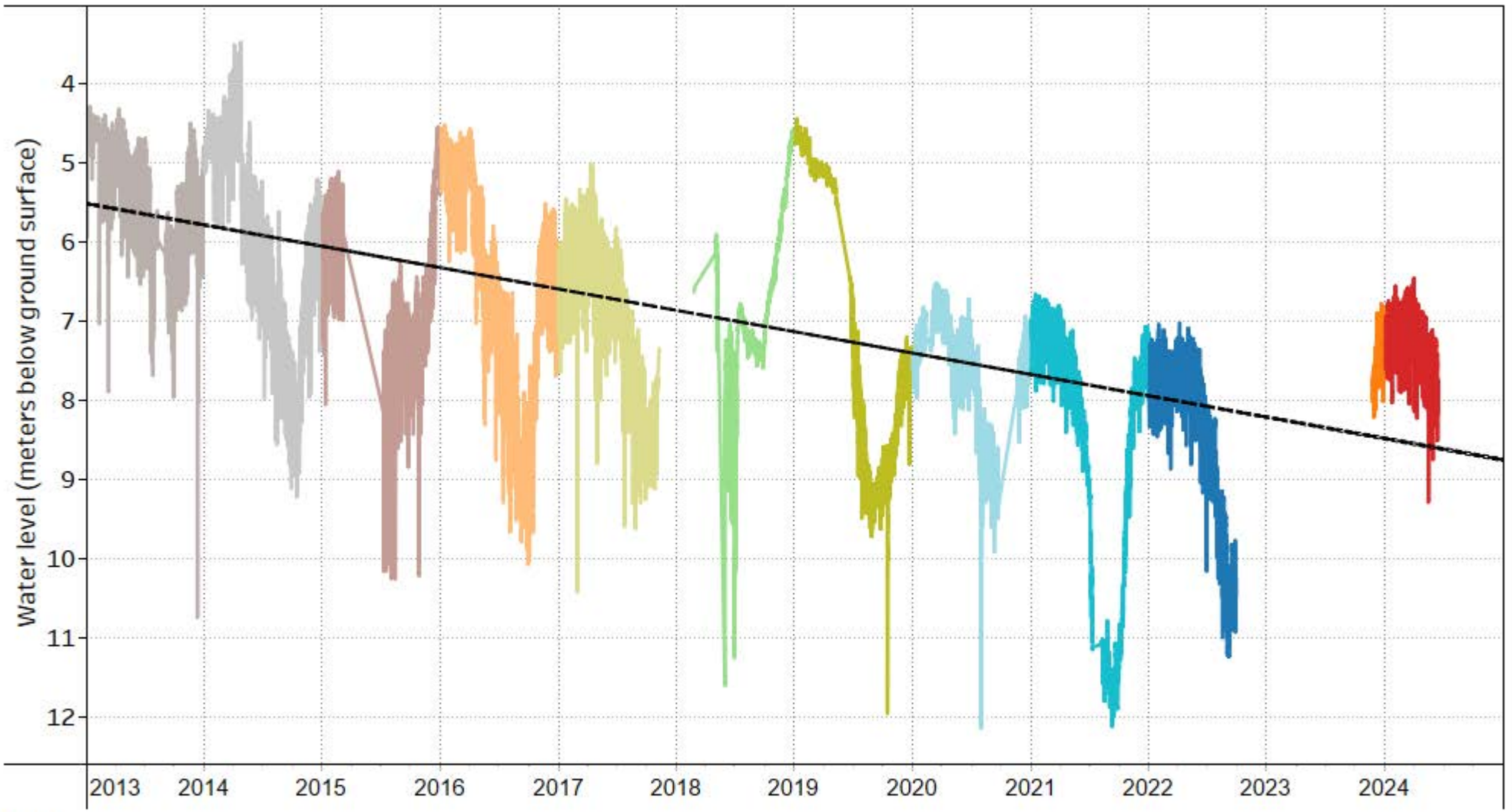
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 13-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 220 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

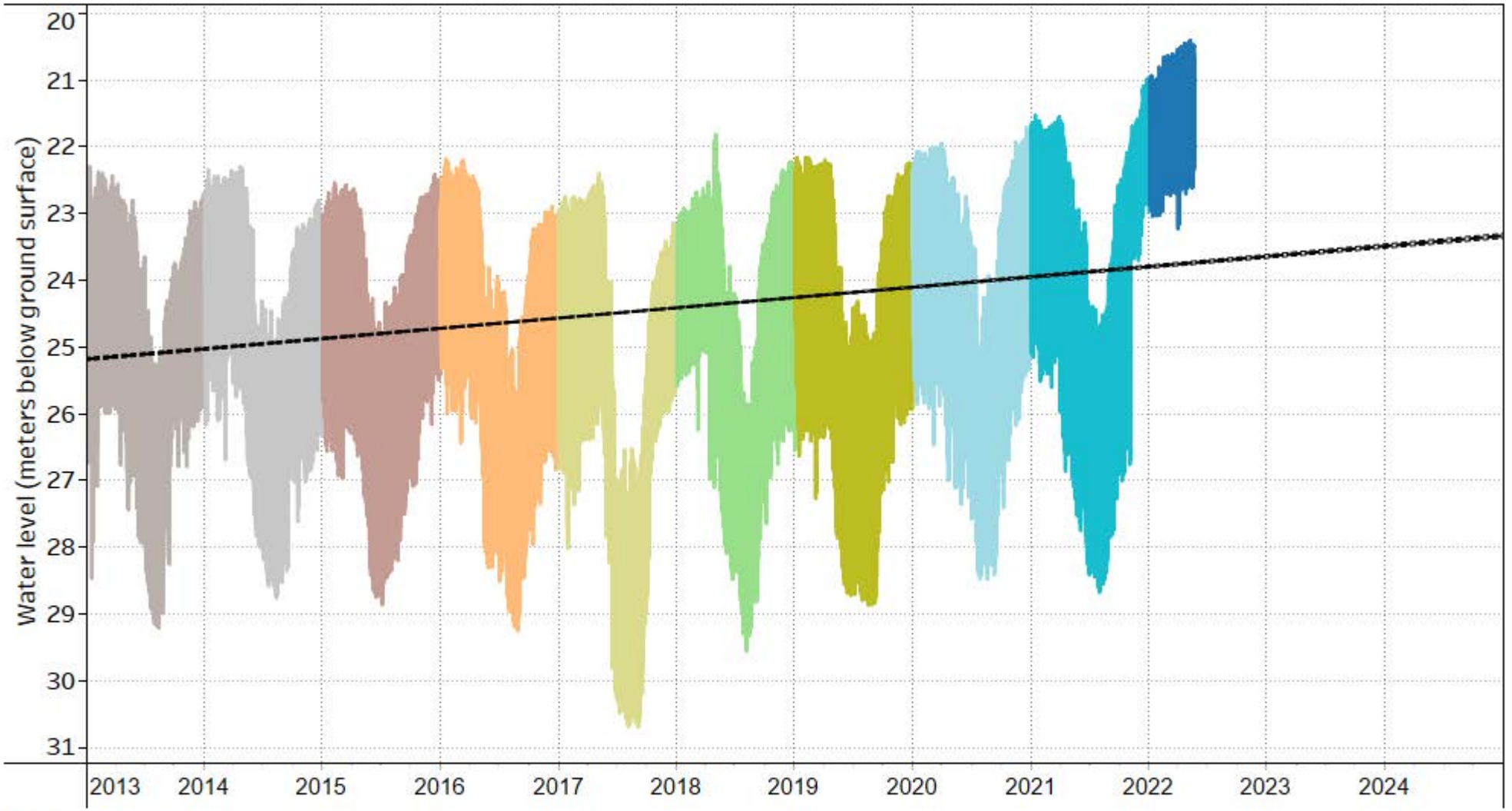
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 14-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2022	2018	2014
2021	2017	2013
2020	2016	
2019	2015	

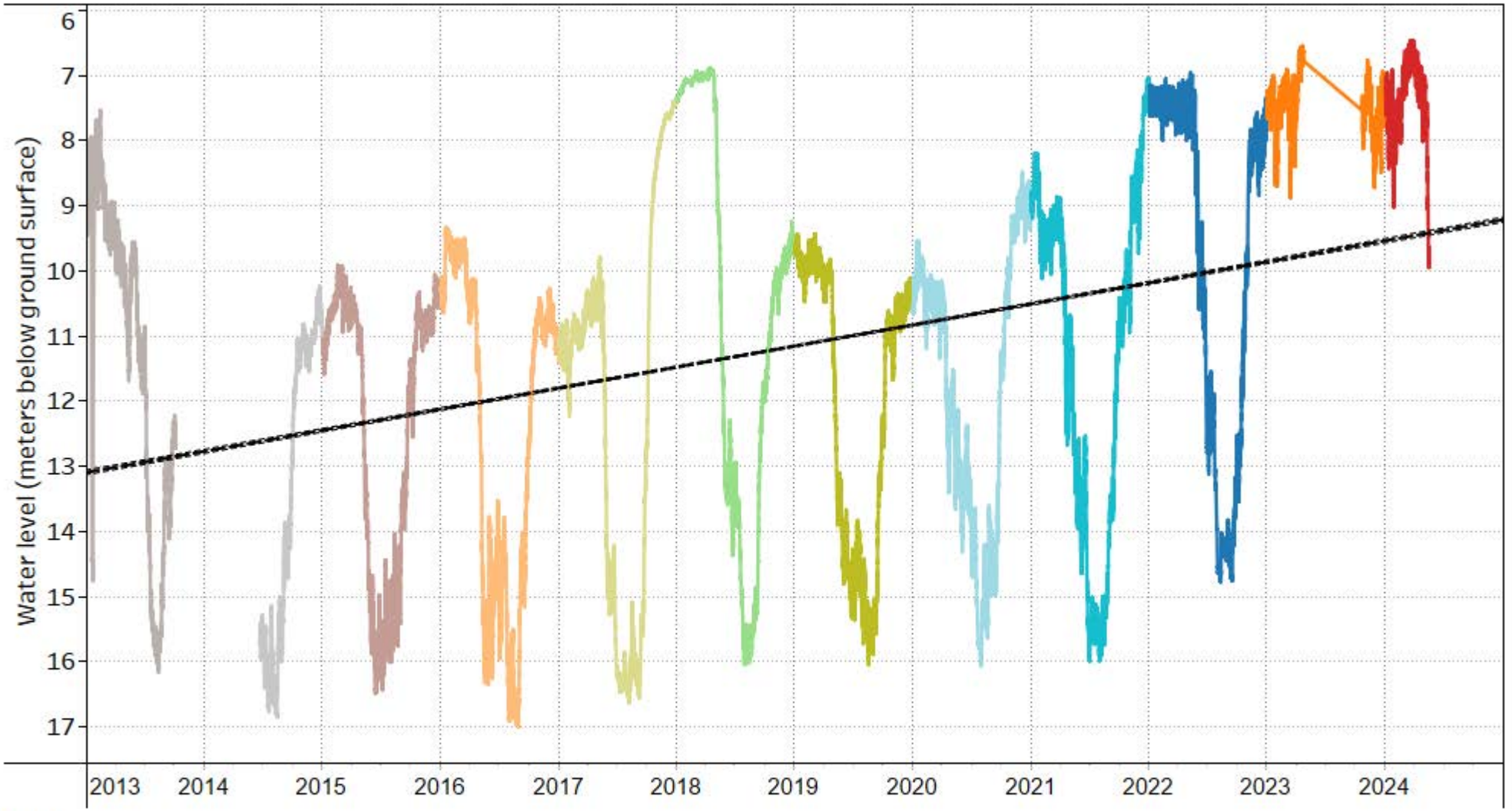
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 15-B

REGIONAL DISTRICT OF NANAIMO

OW 321 (WR3 - French Creek) Linear Trend Static Water Level



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

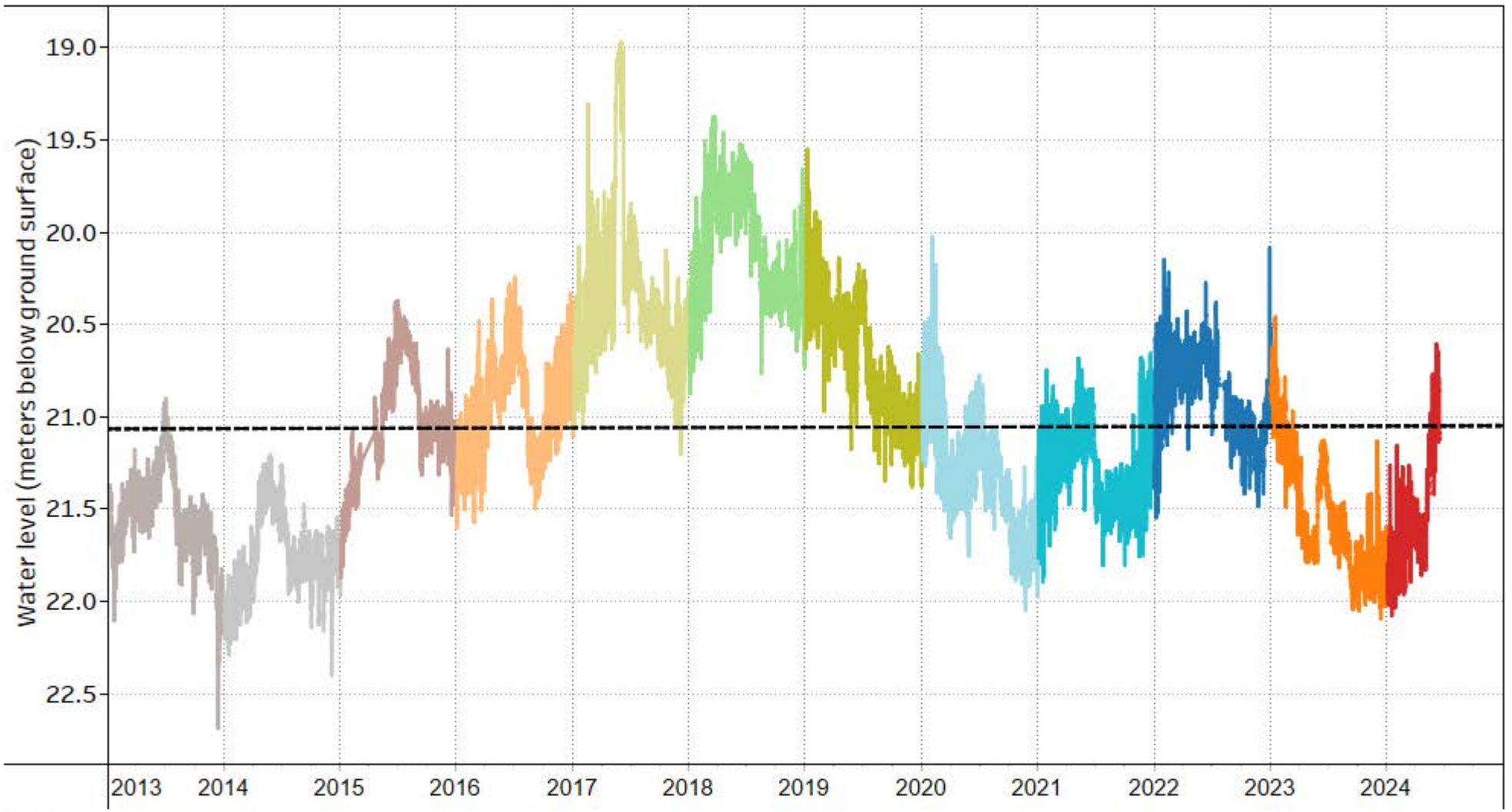
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

HISTORICAL GROUNDWATER LEVEL CHART
OW 321 (WR3 - French Creek)

FIGURE 16-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

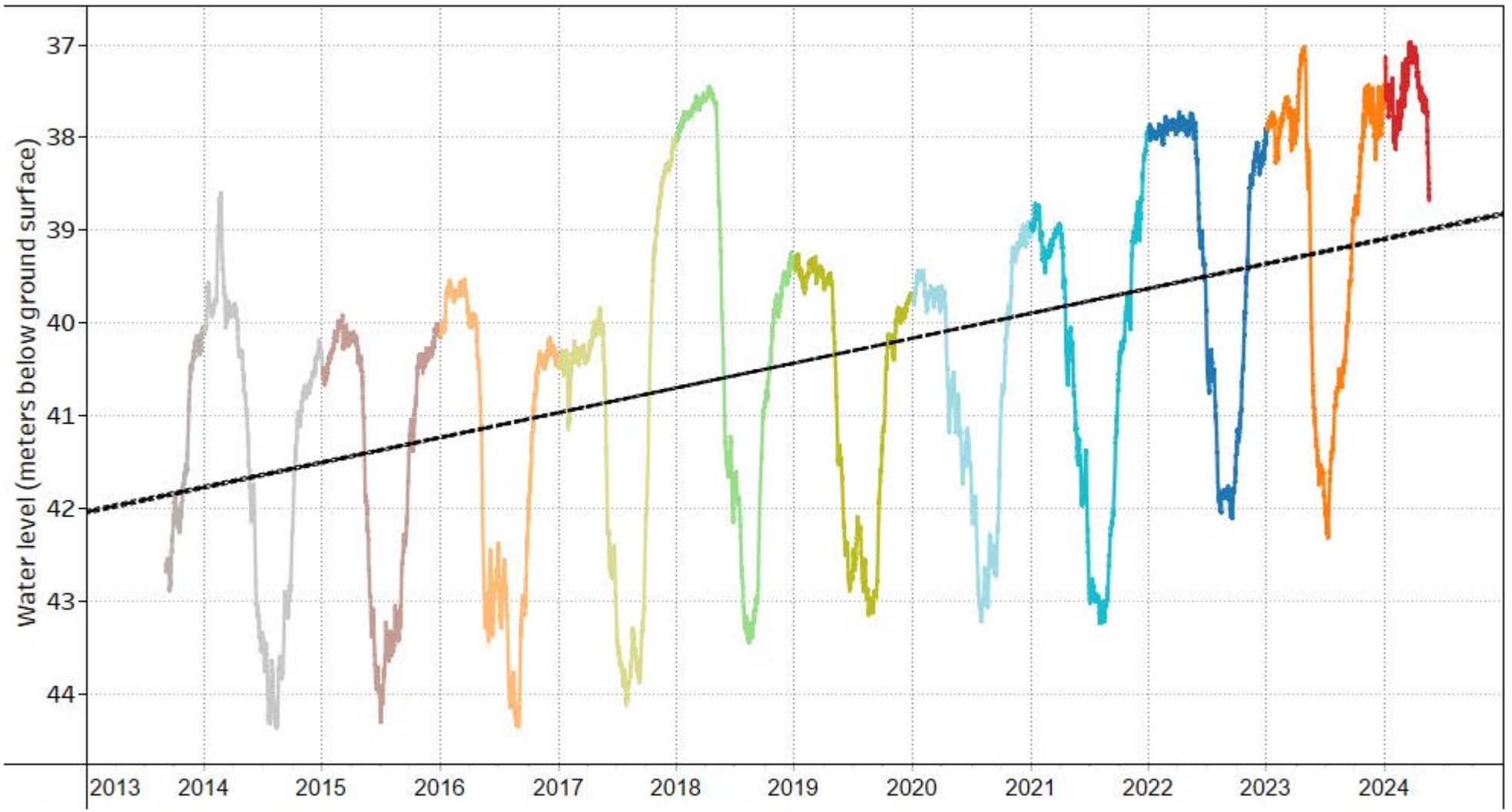
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 17-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

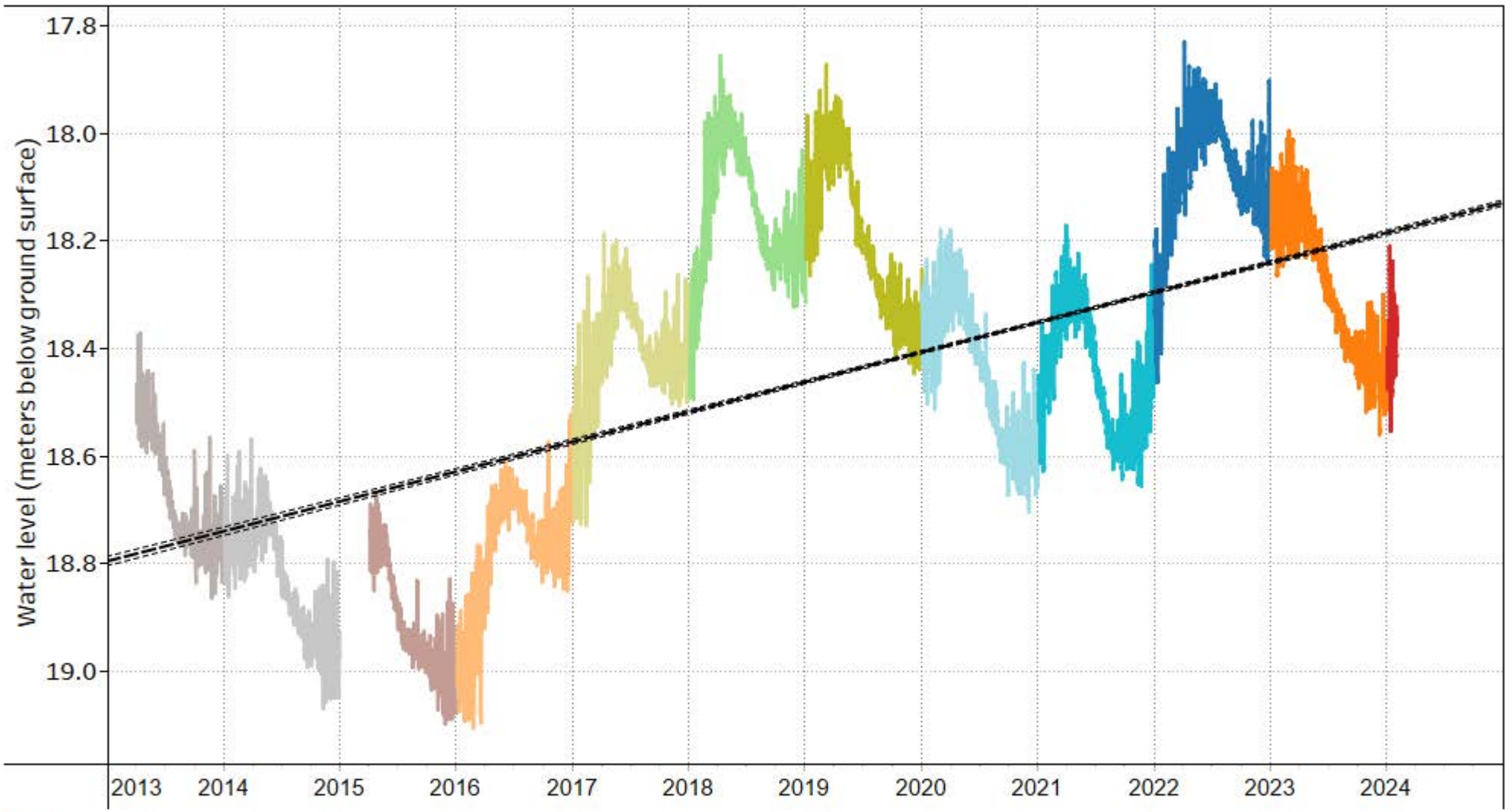
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 18-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

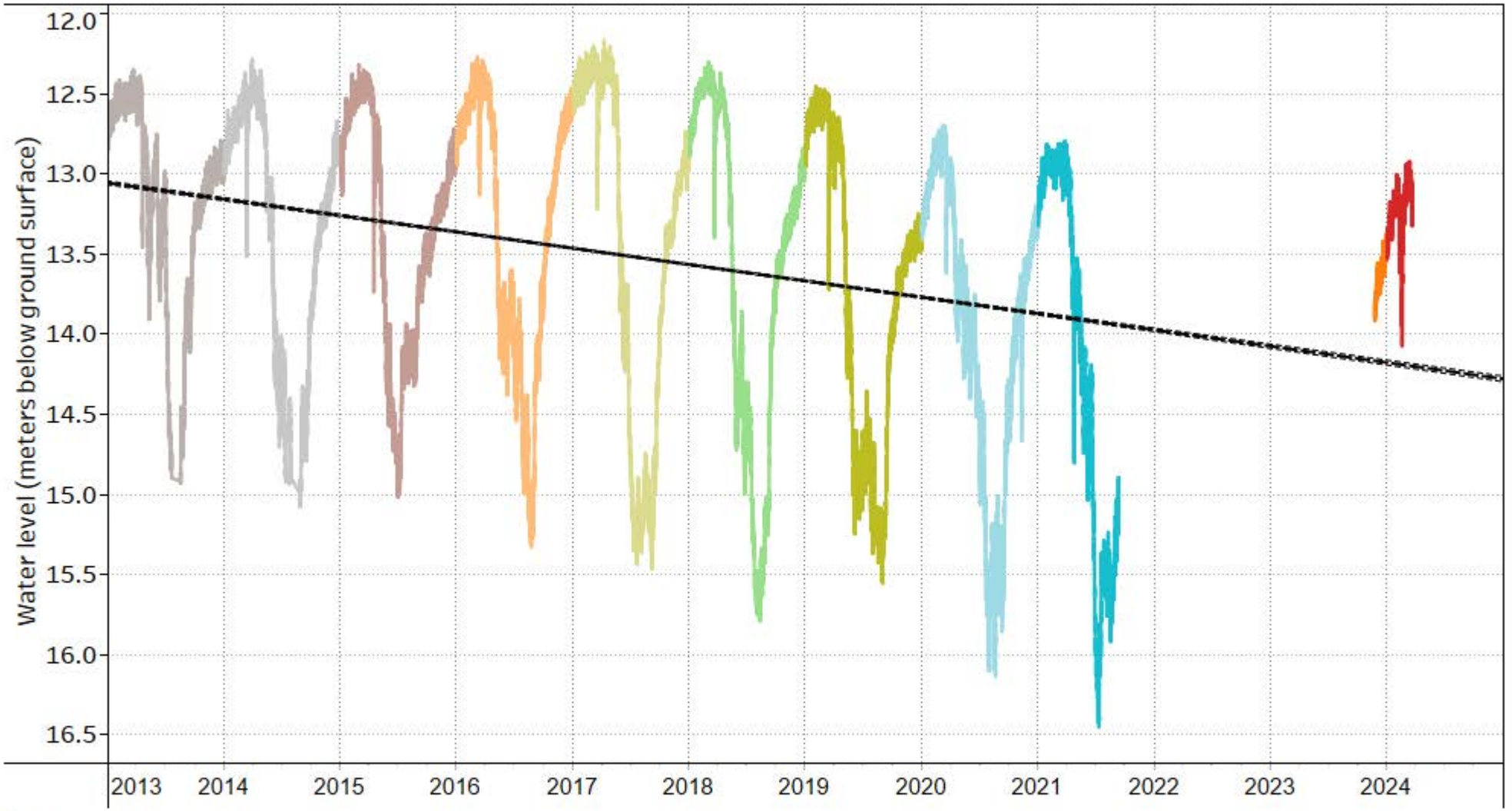
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 19-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2015
2023	2018	2014
2021	2017	2013
2020	2016	

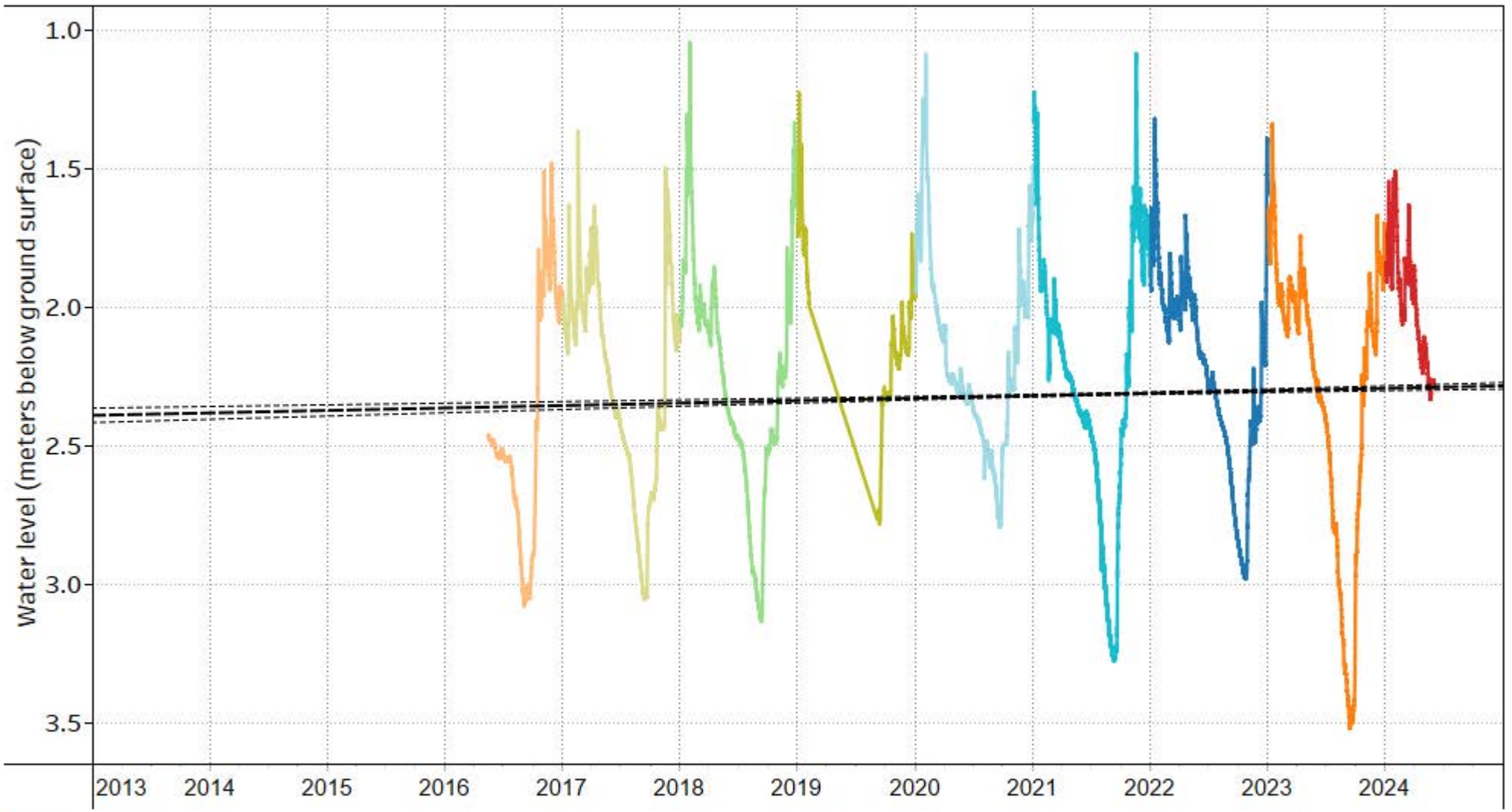
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 20-B

REGIONAL DISTRICT OF NANAIMO

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

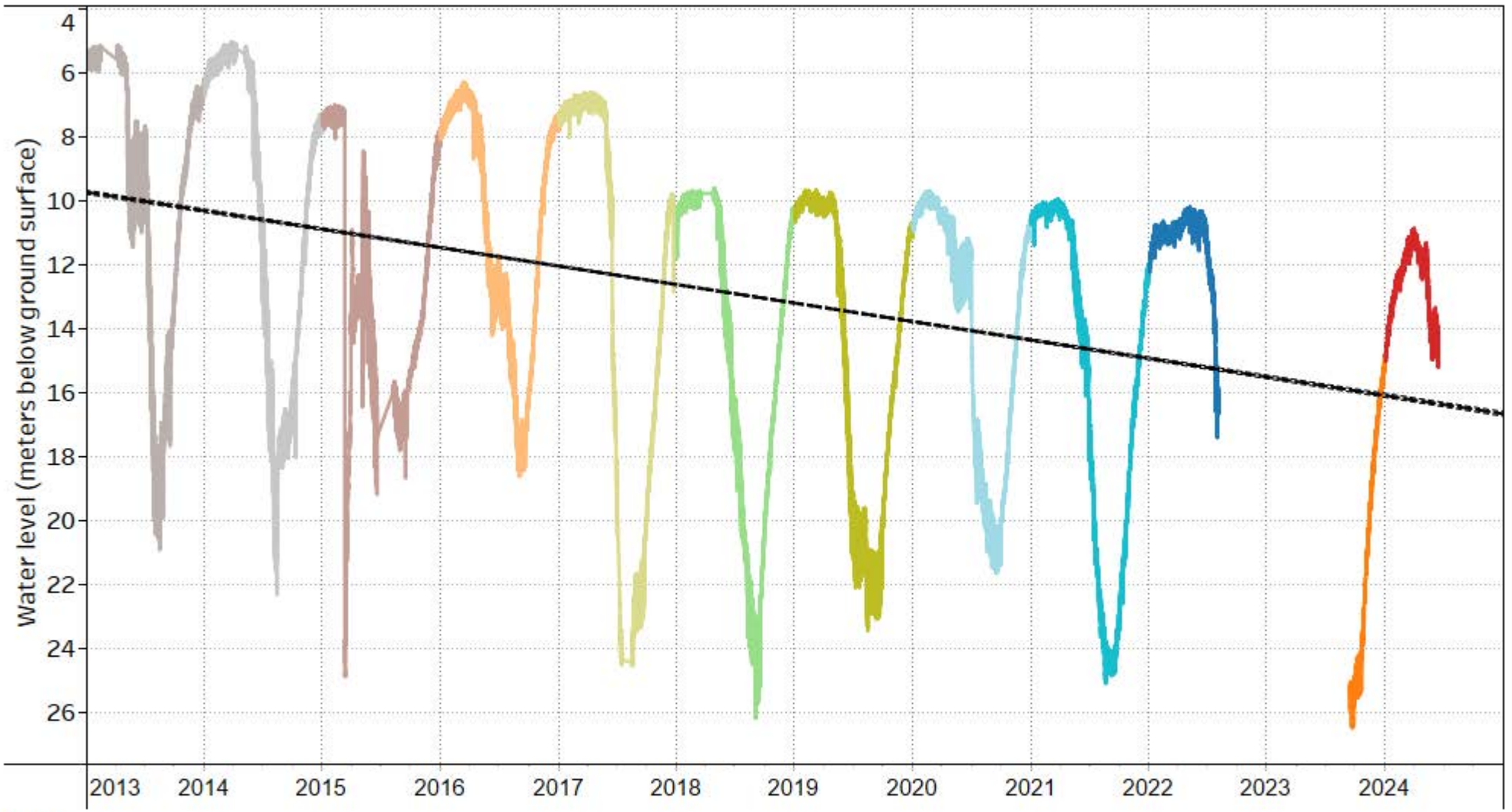
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 21-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 211 (Fractured crystalline bedrock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

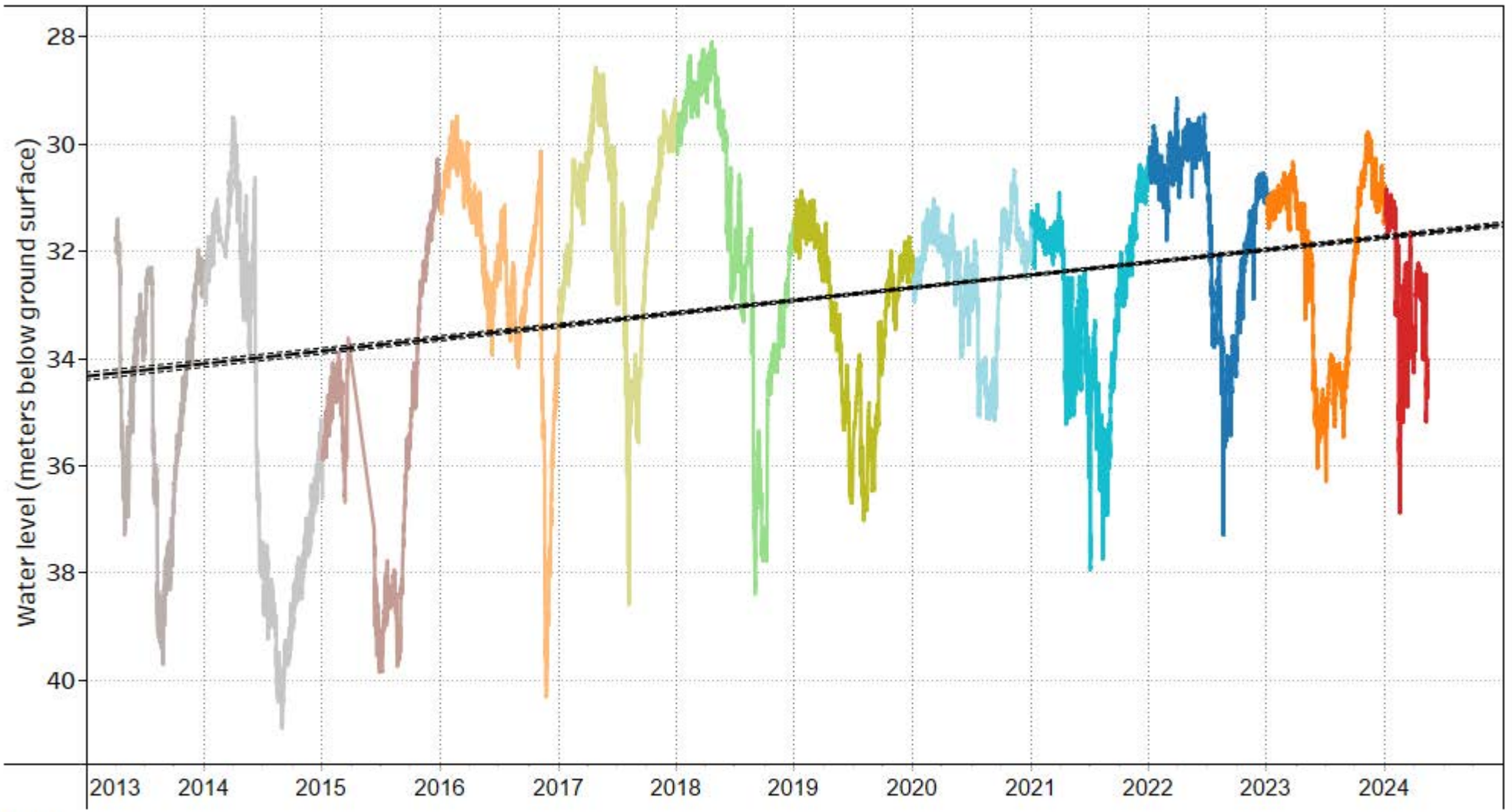
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 22-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

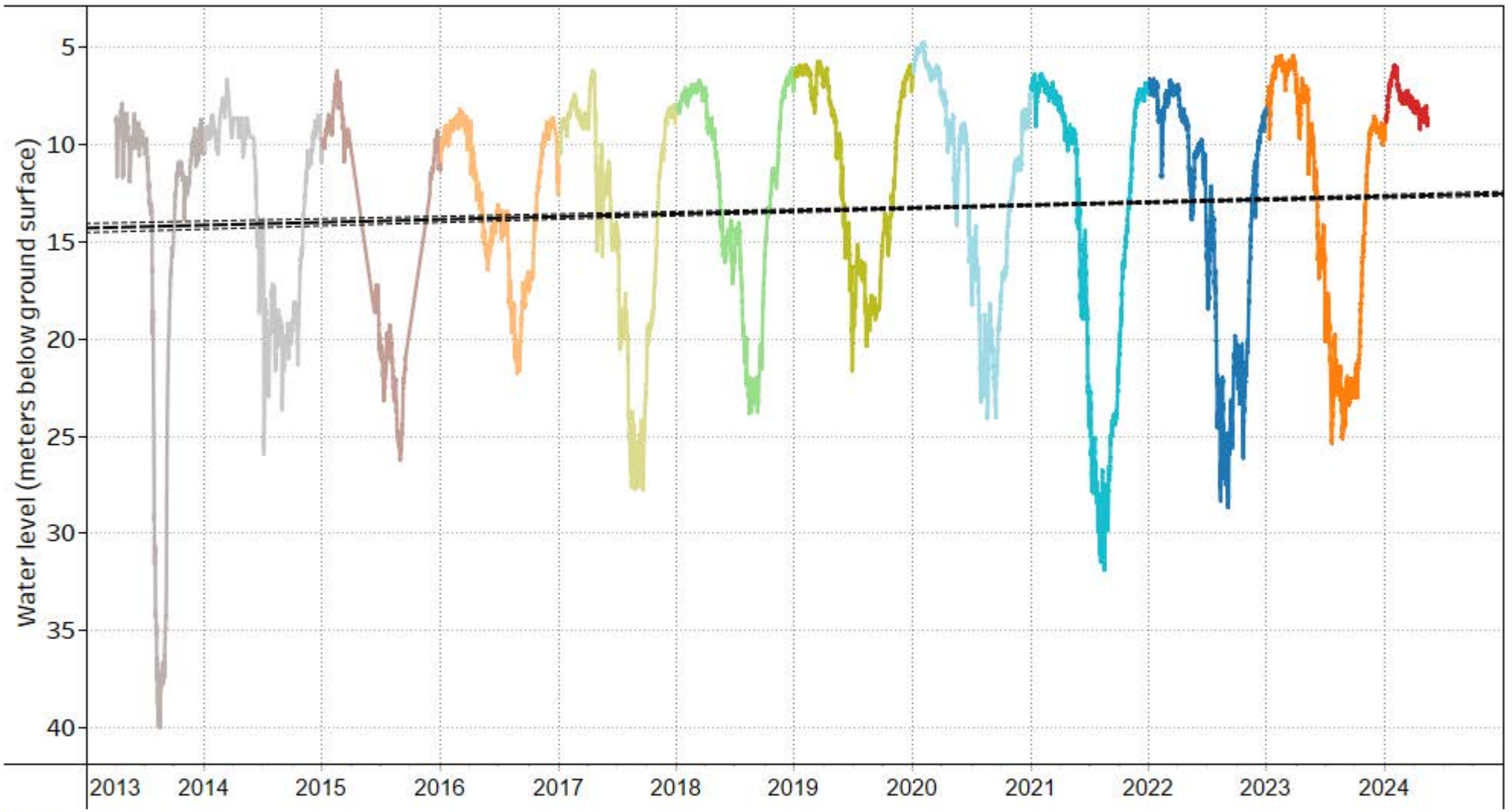
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 23-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

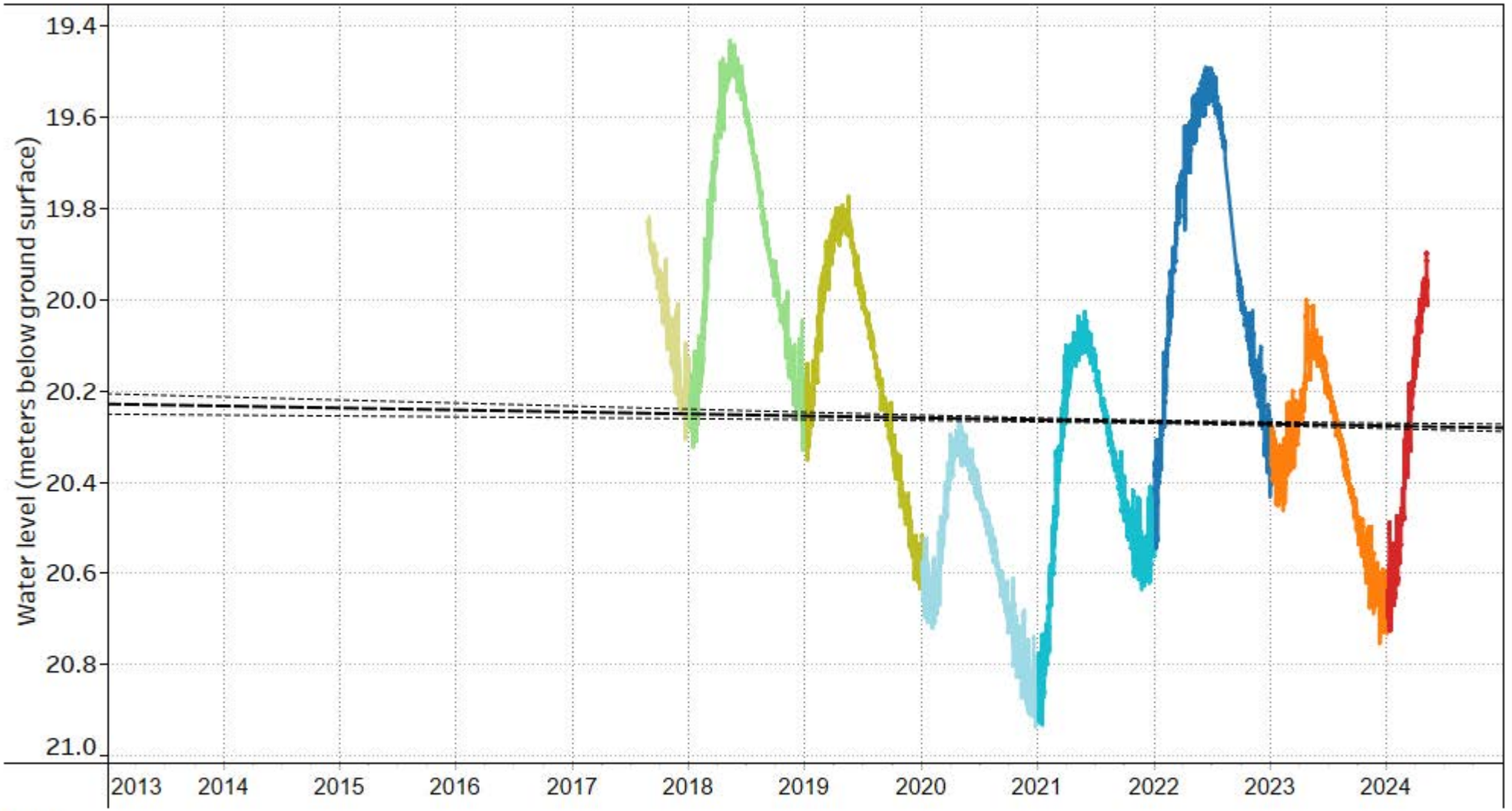
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 24-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020
2023	2019
2022	2018
2021	2017

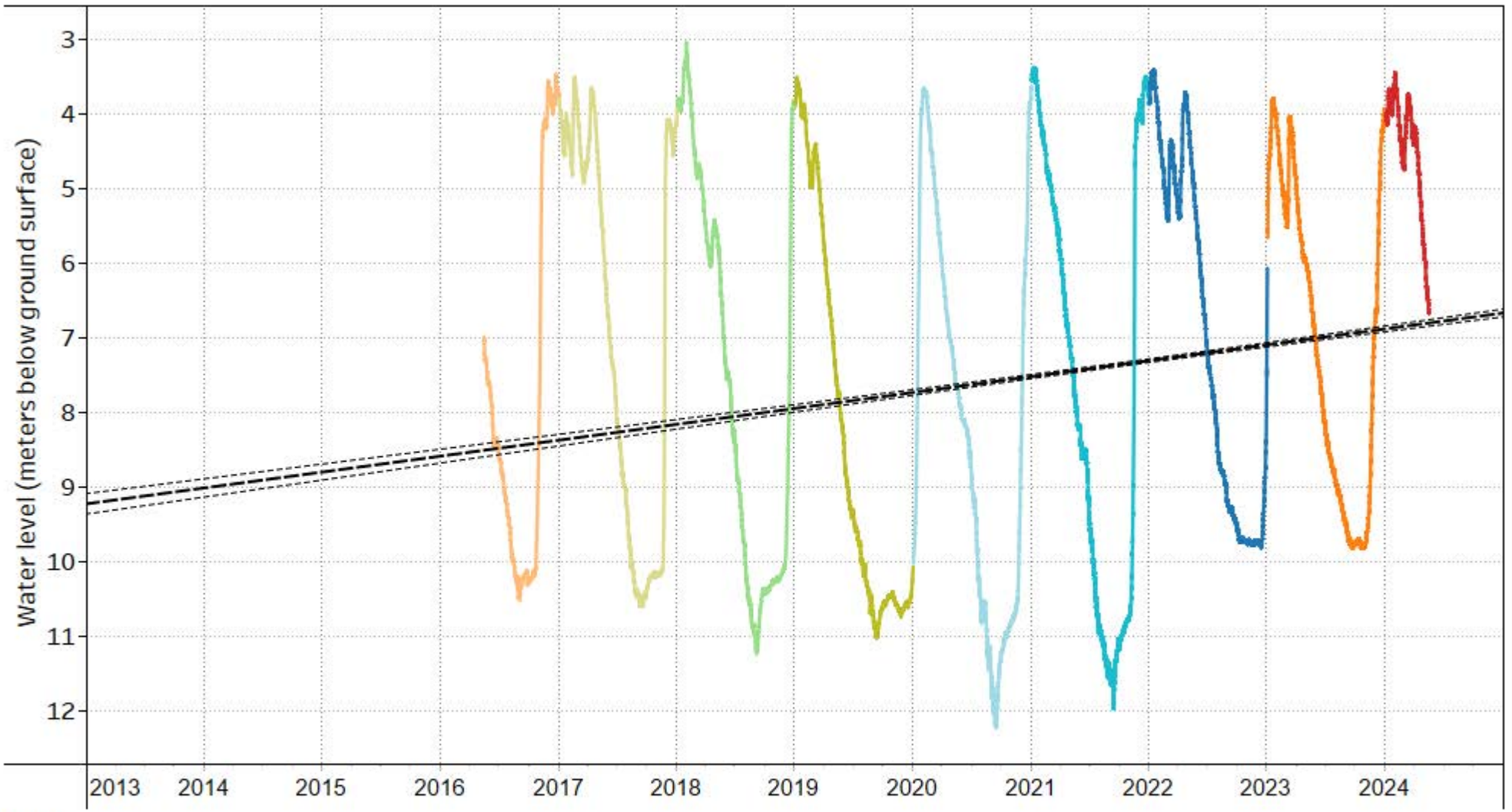
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 54-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

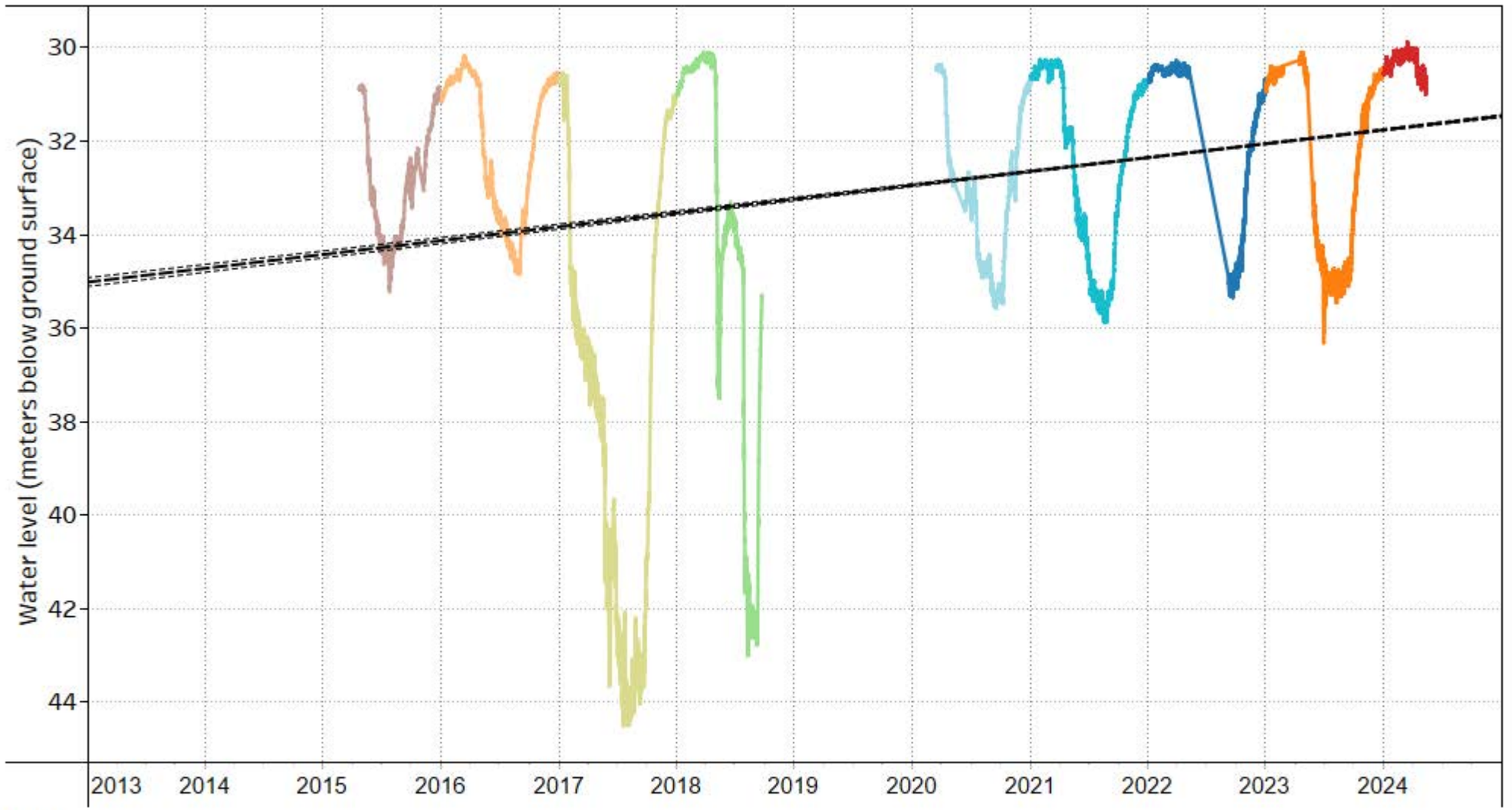
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 25-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2018
- 2017
- 2016
- 2015

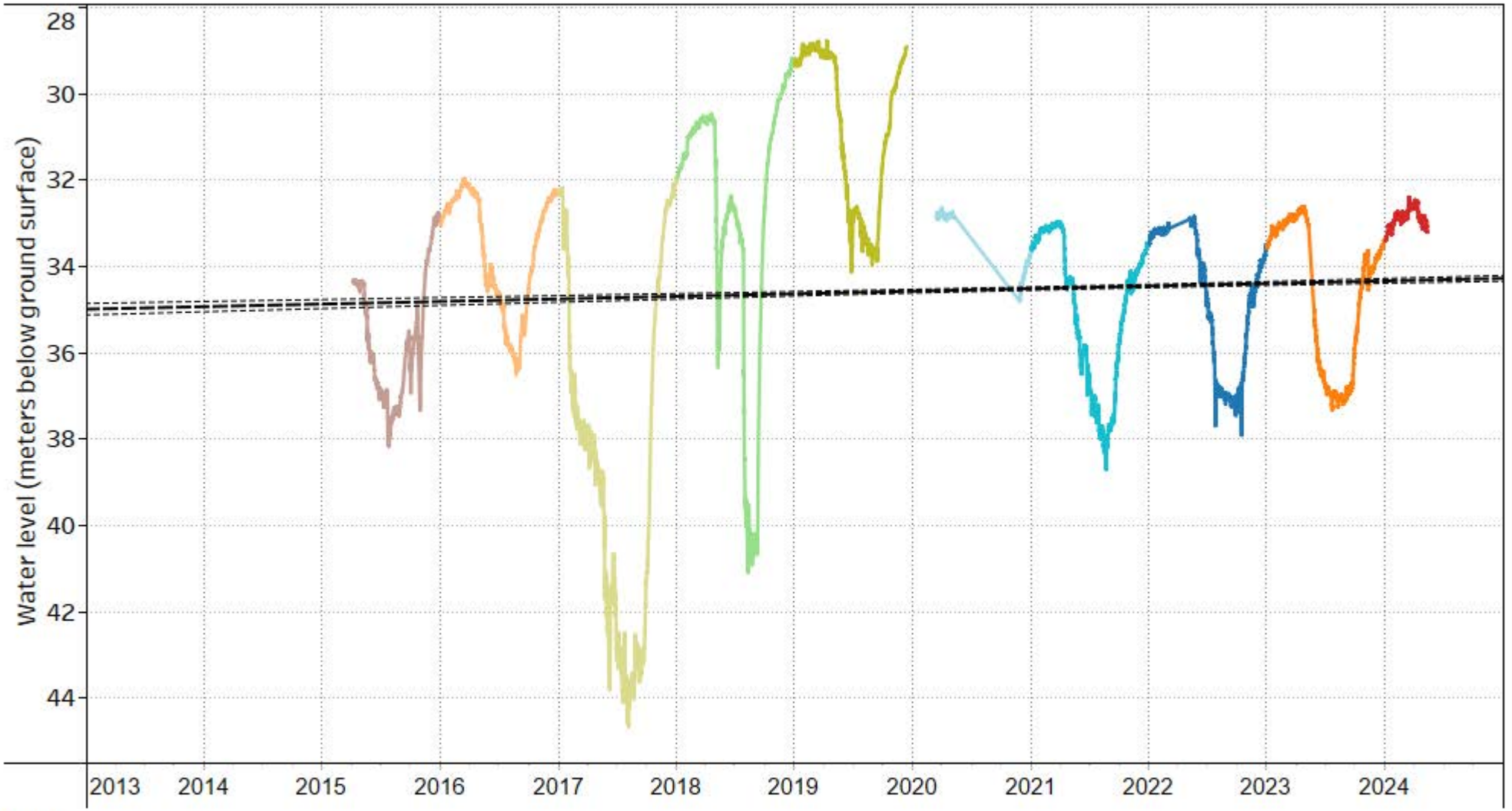
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 26-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	
2021	2017	

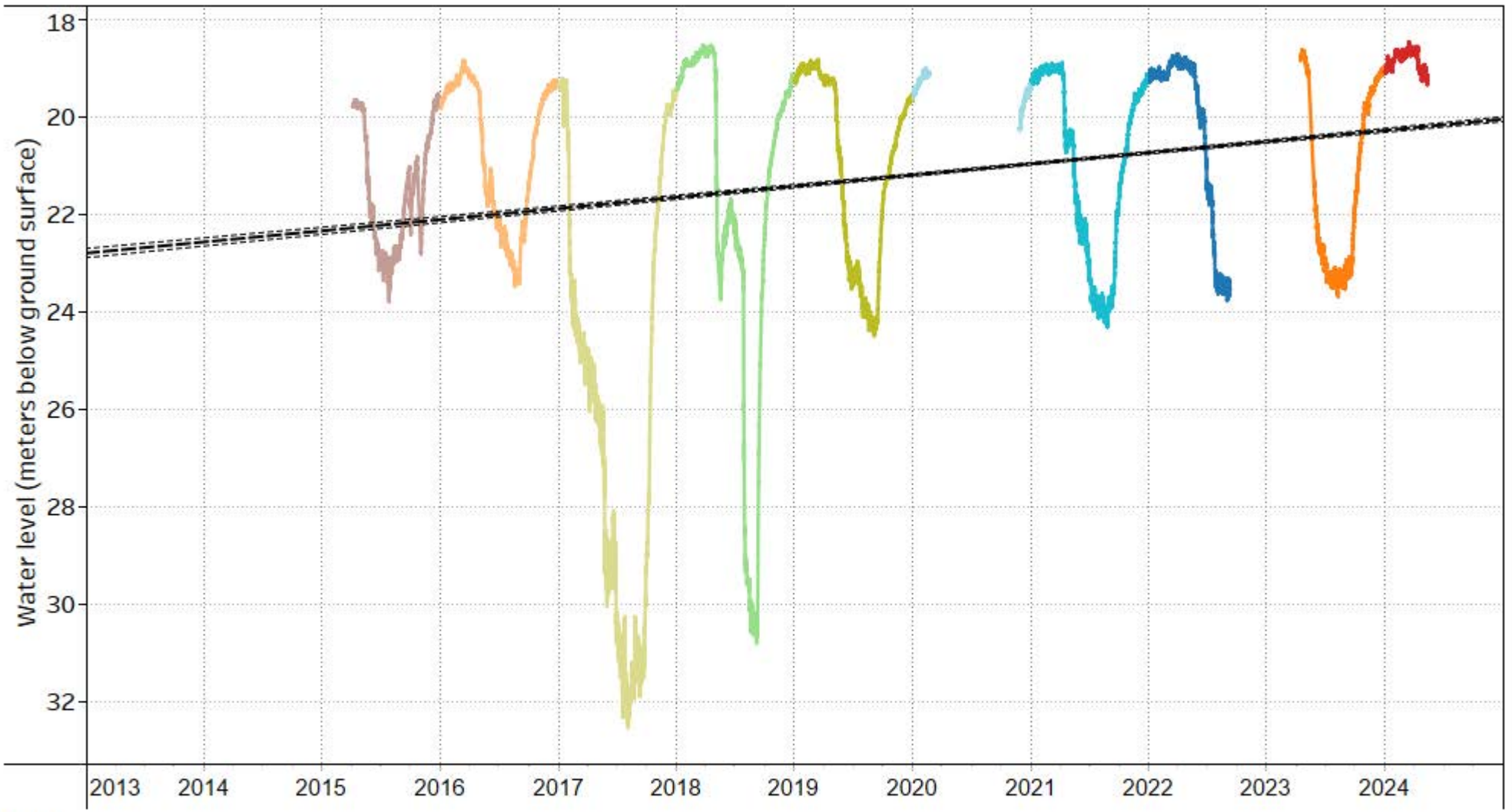
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 27-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	
2021	2017	

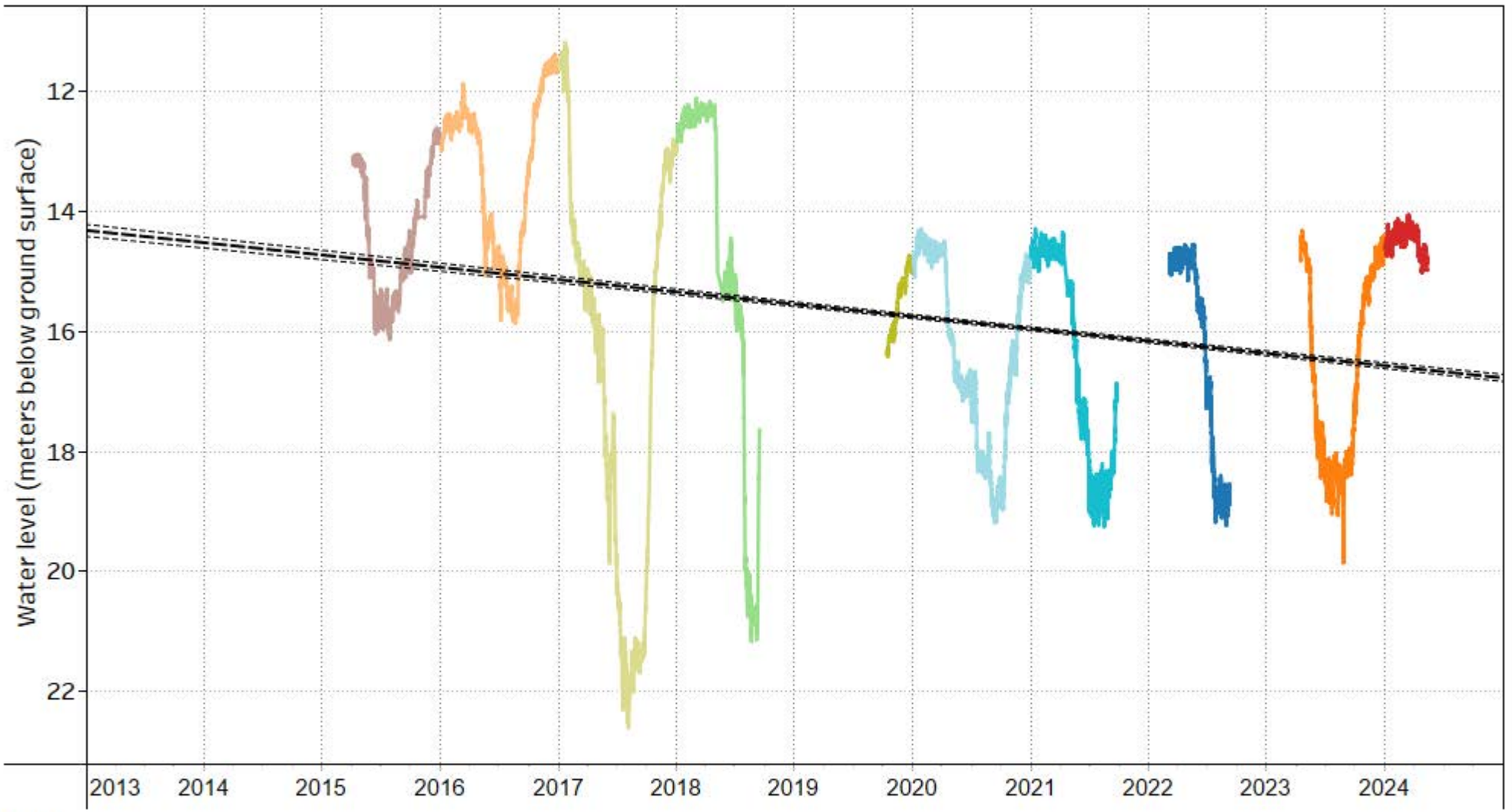
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 28-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	
2021	2017	

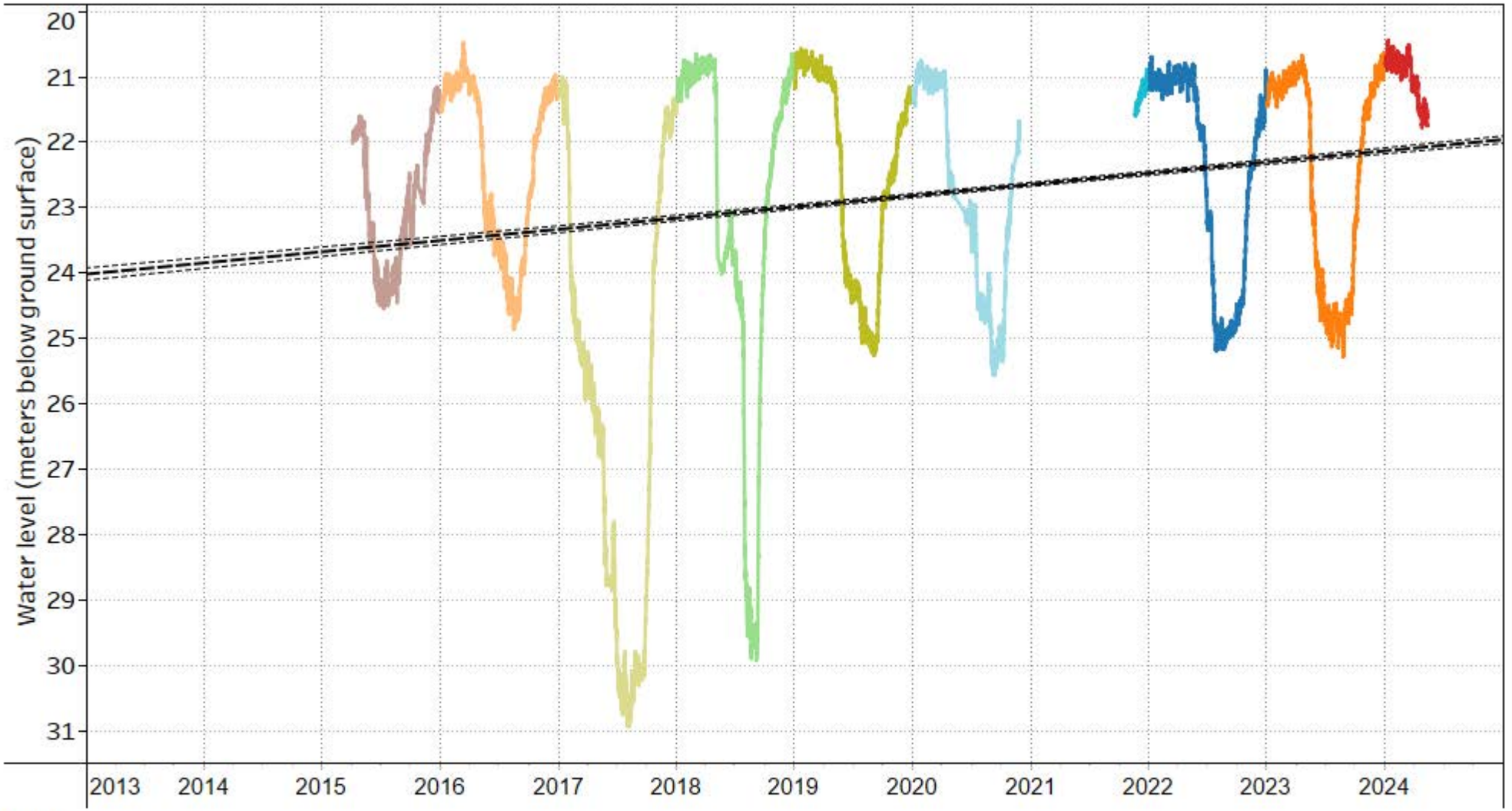
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 29-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

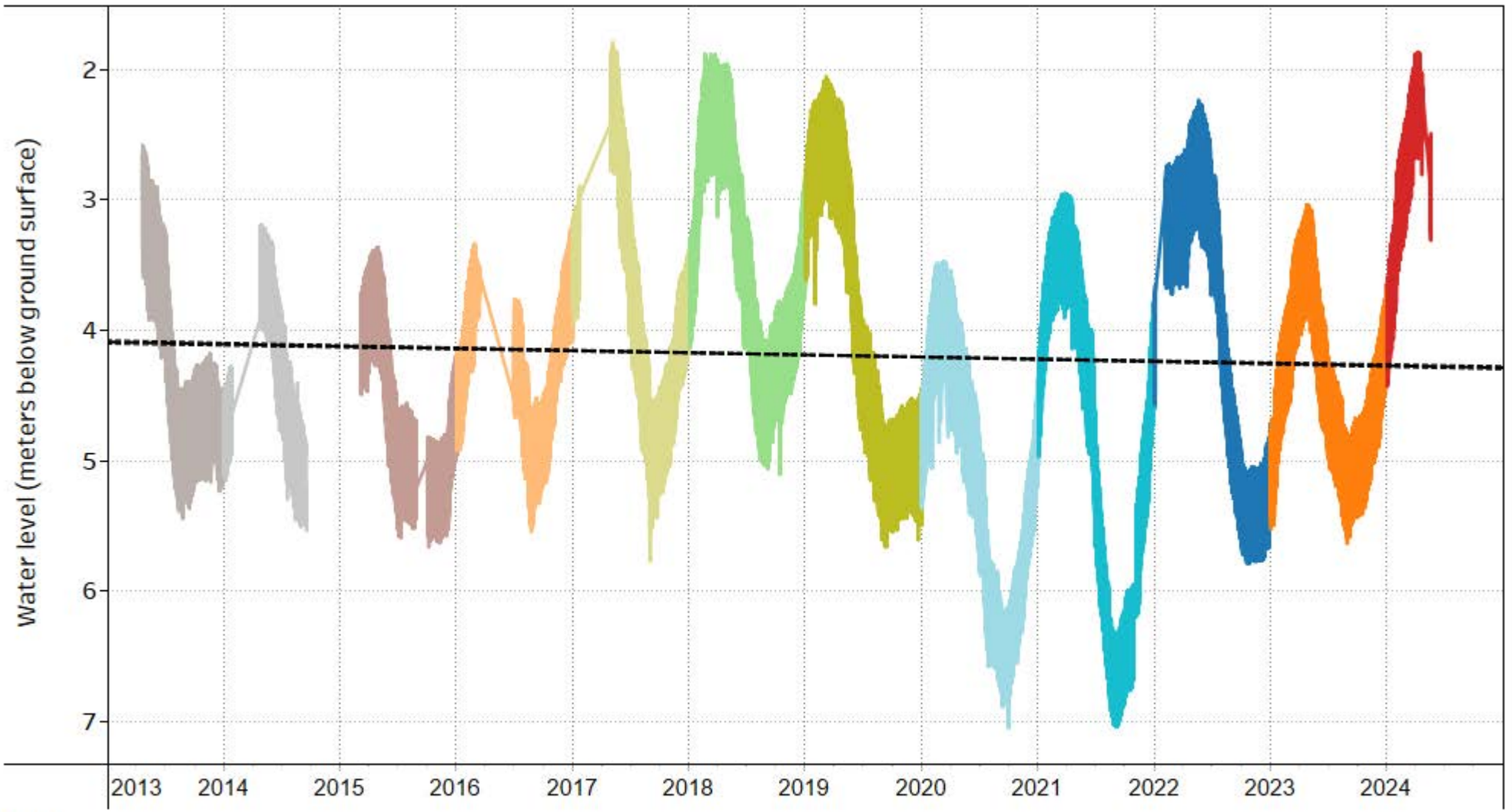
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 30-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

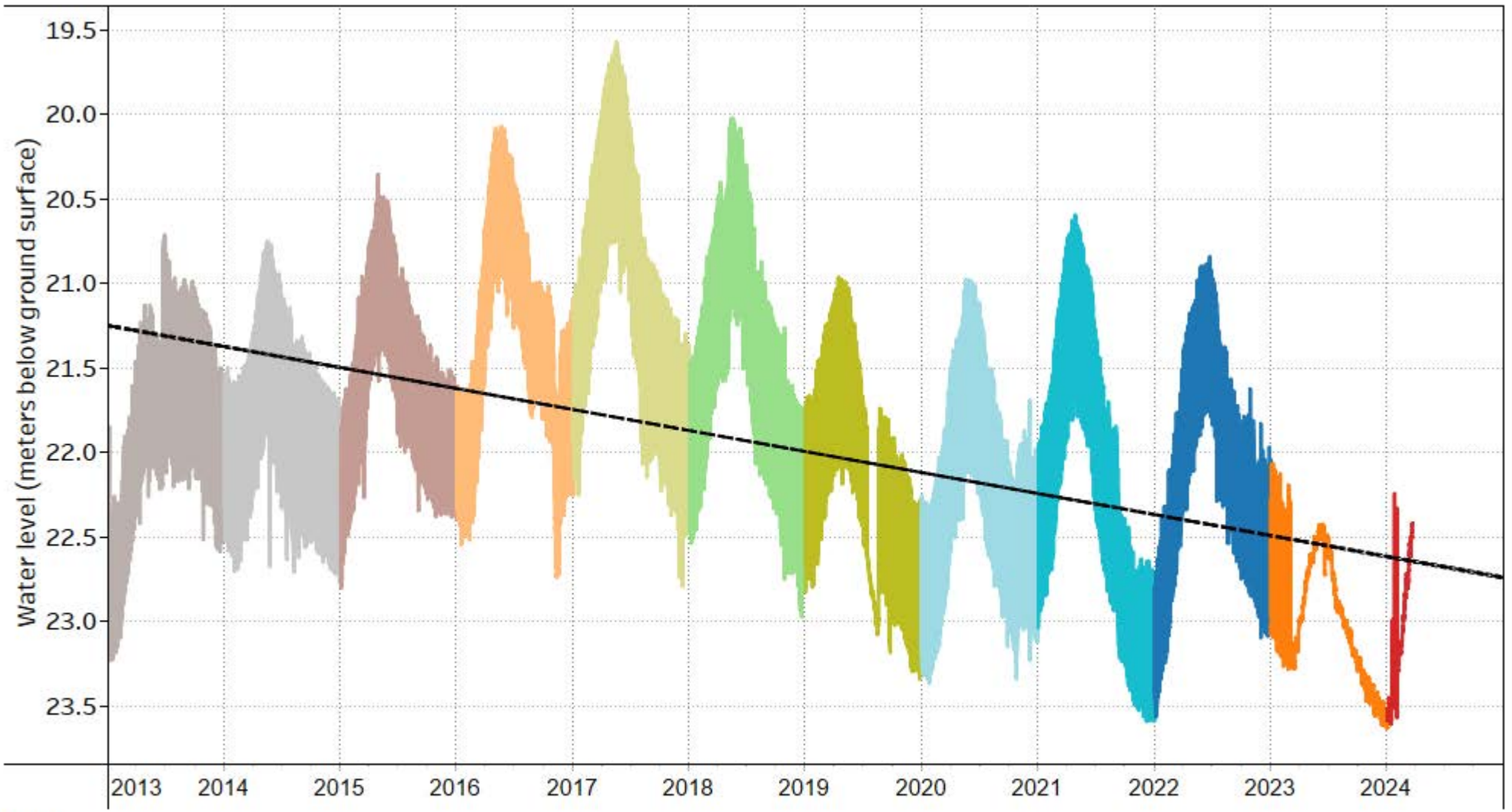
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 31-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

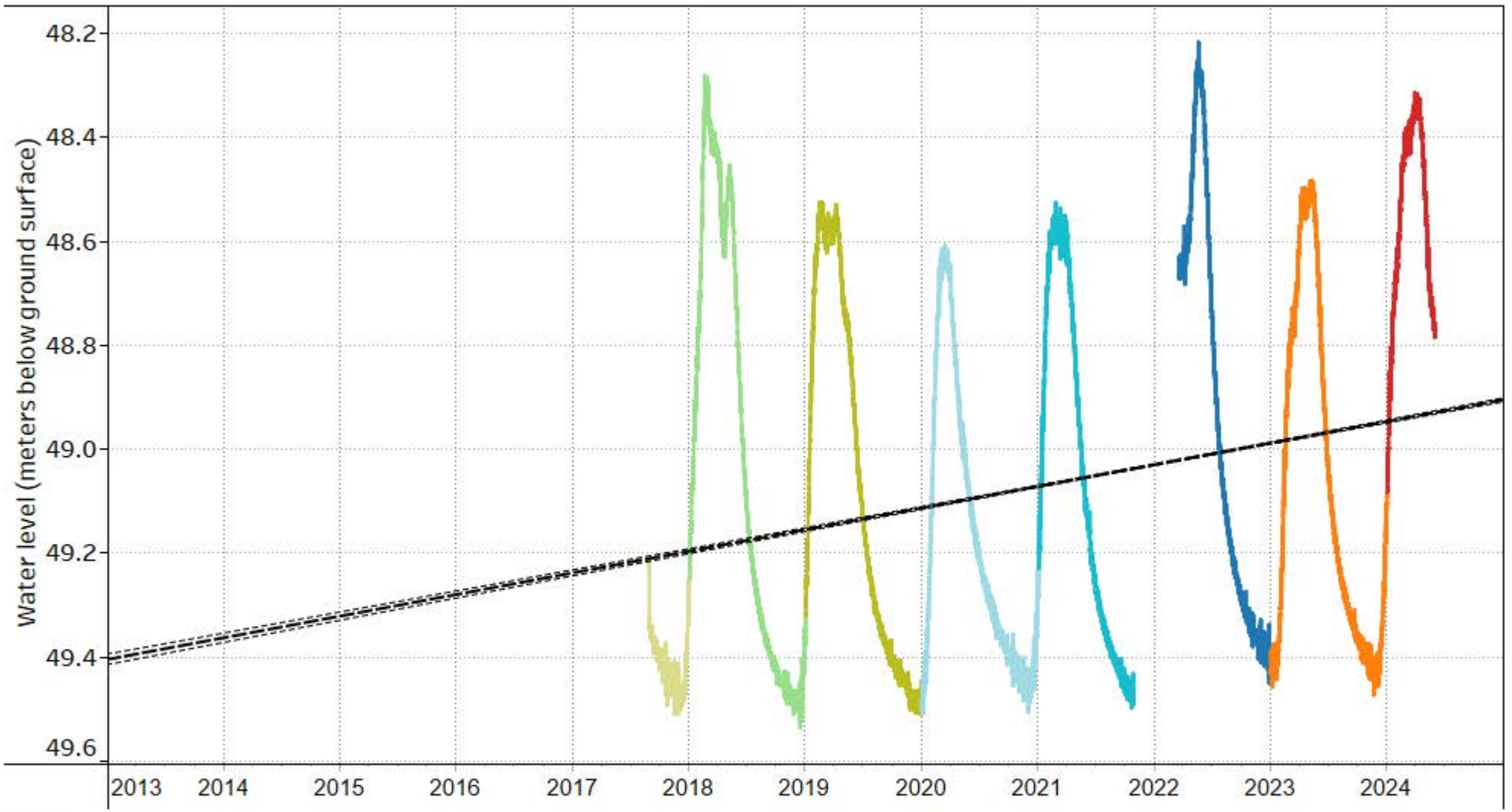
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 32-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020
2023	2019
2022	2018
2021	2017

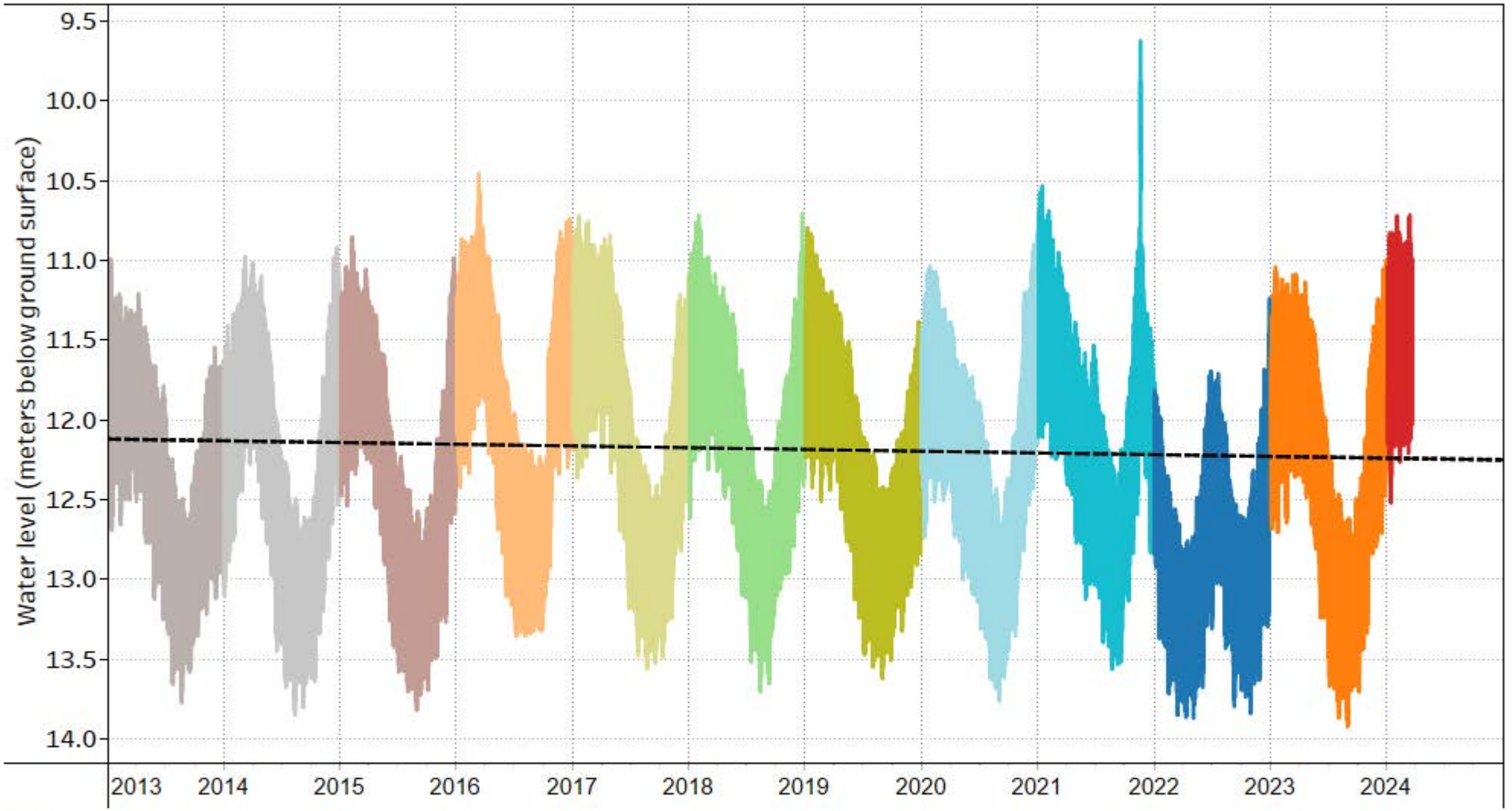
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 33-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

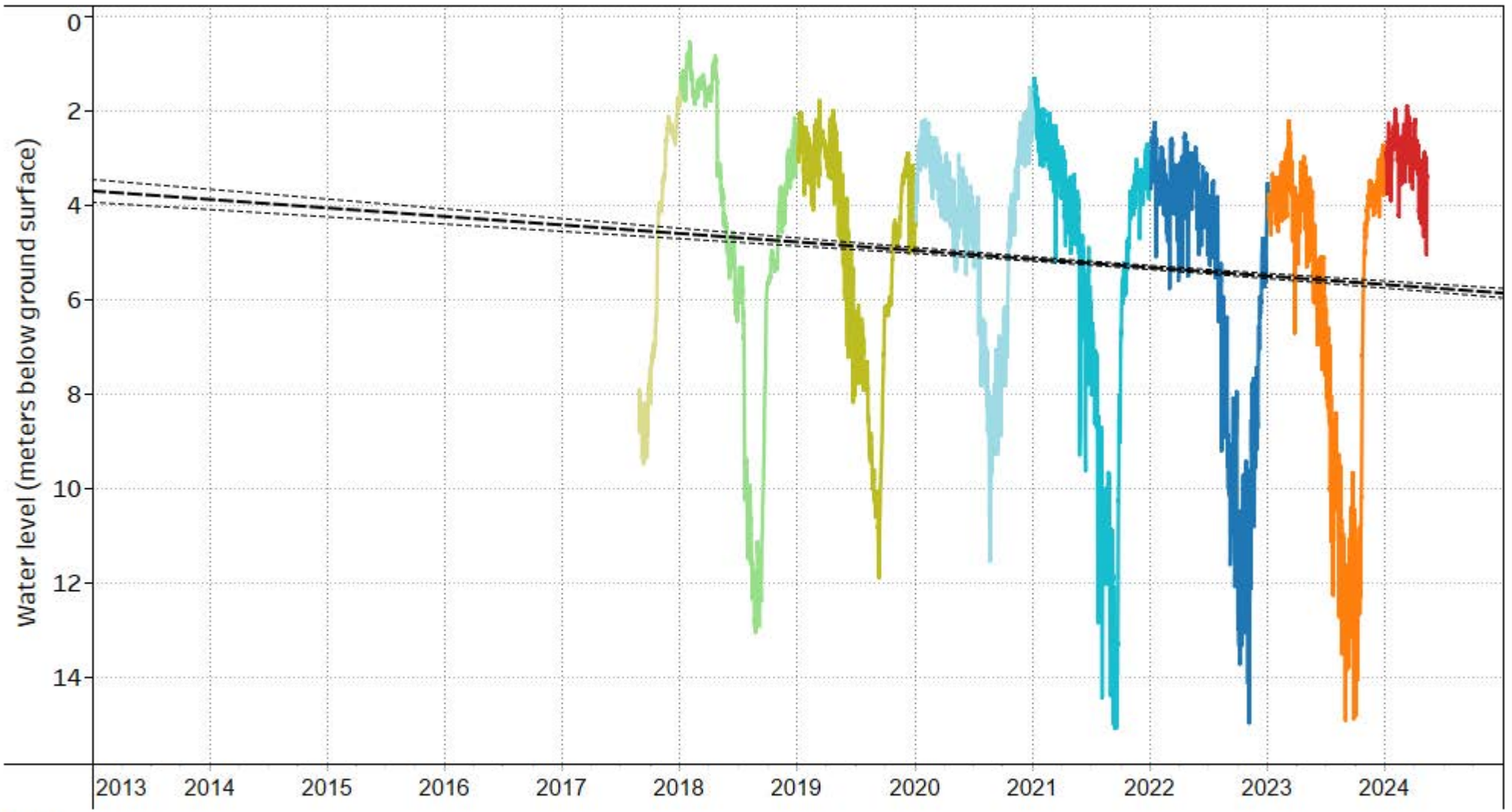
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 34-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

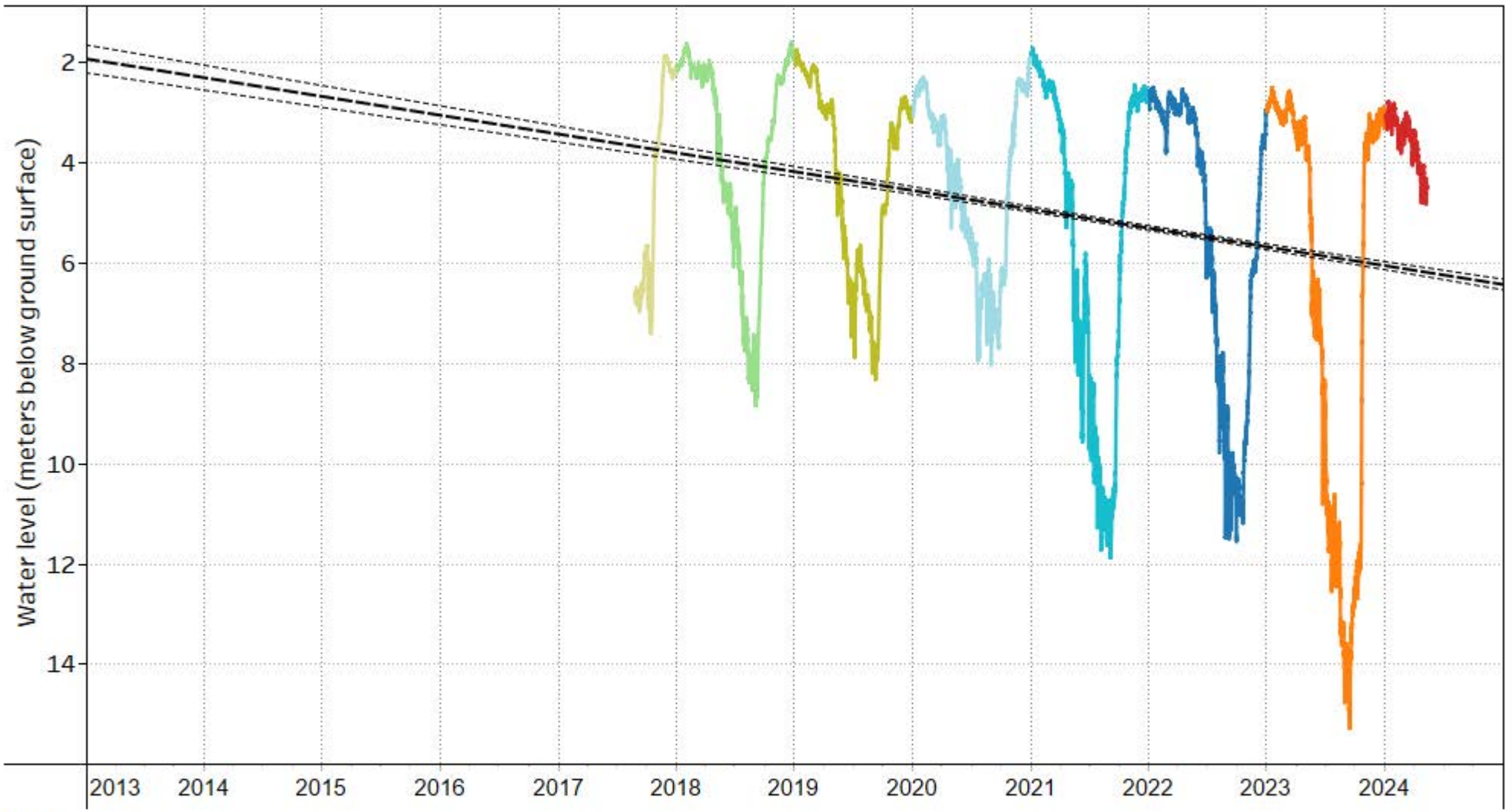
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 35-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

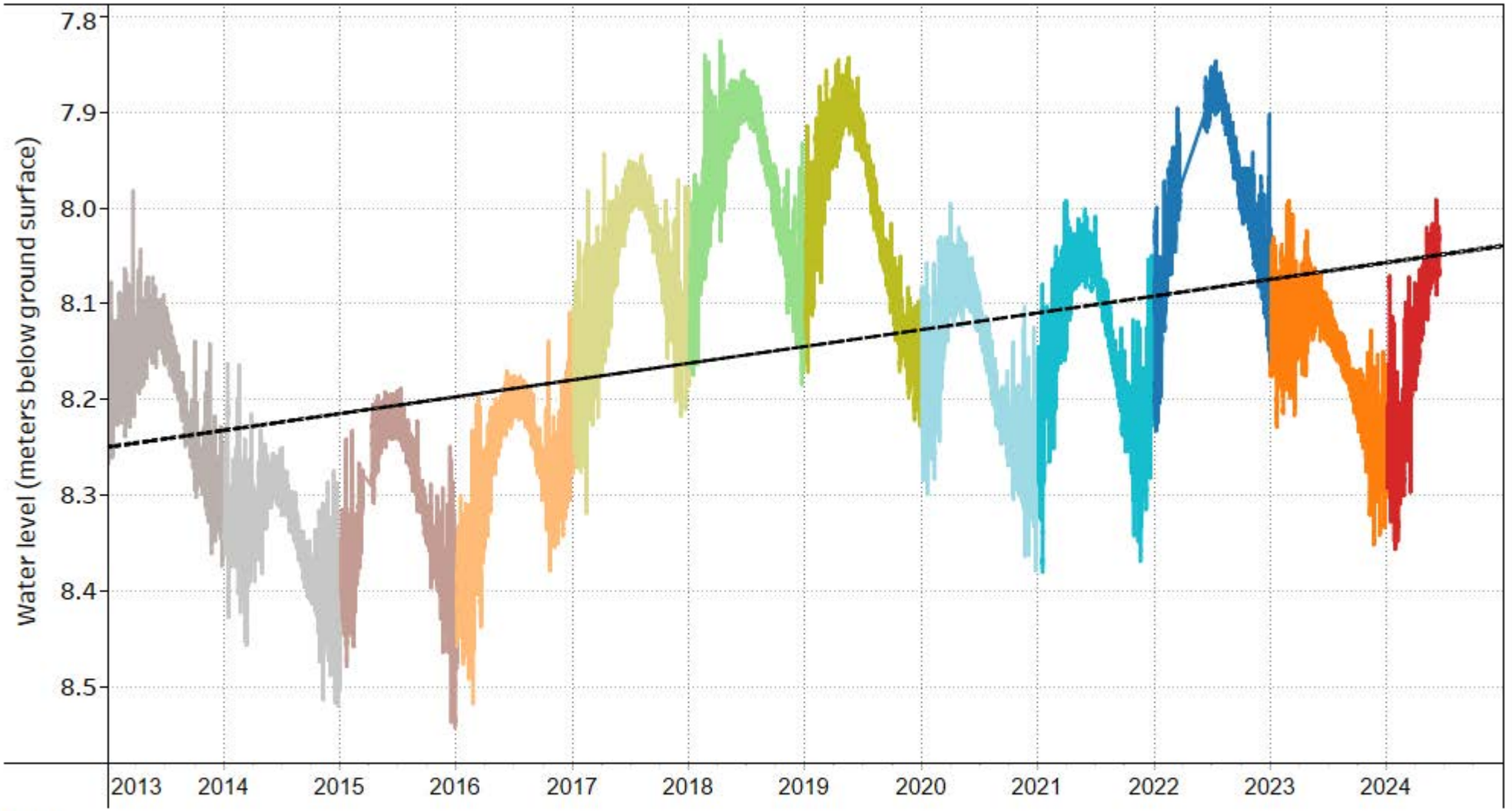
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 36-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

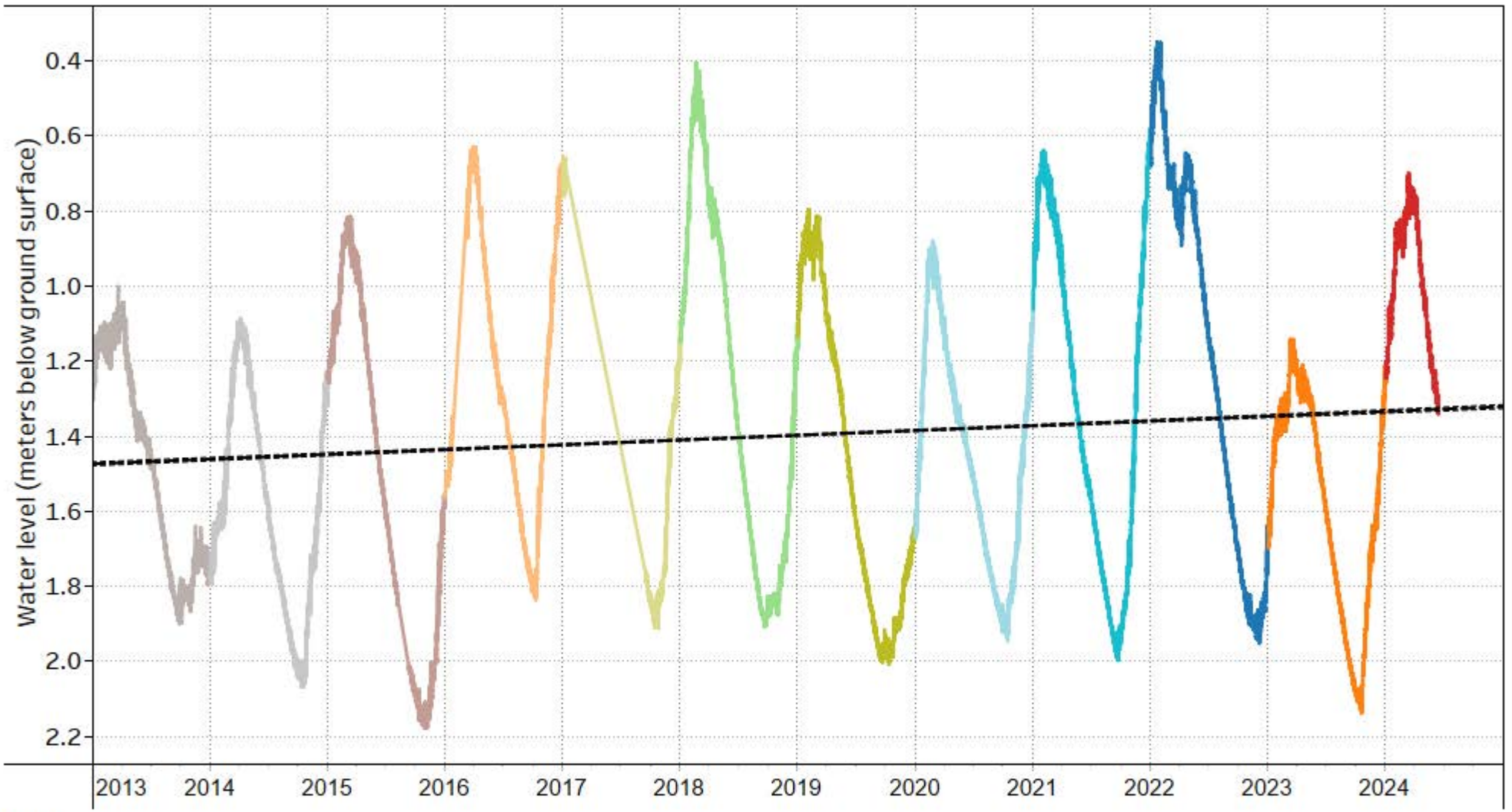
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 37-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

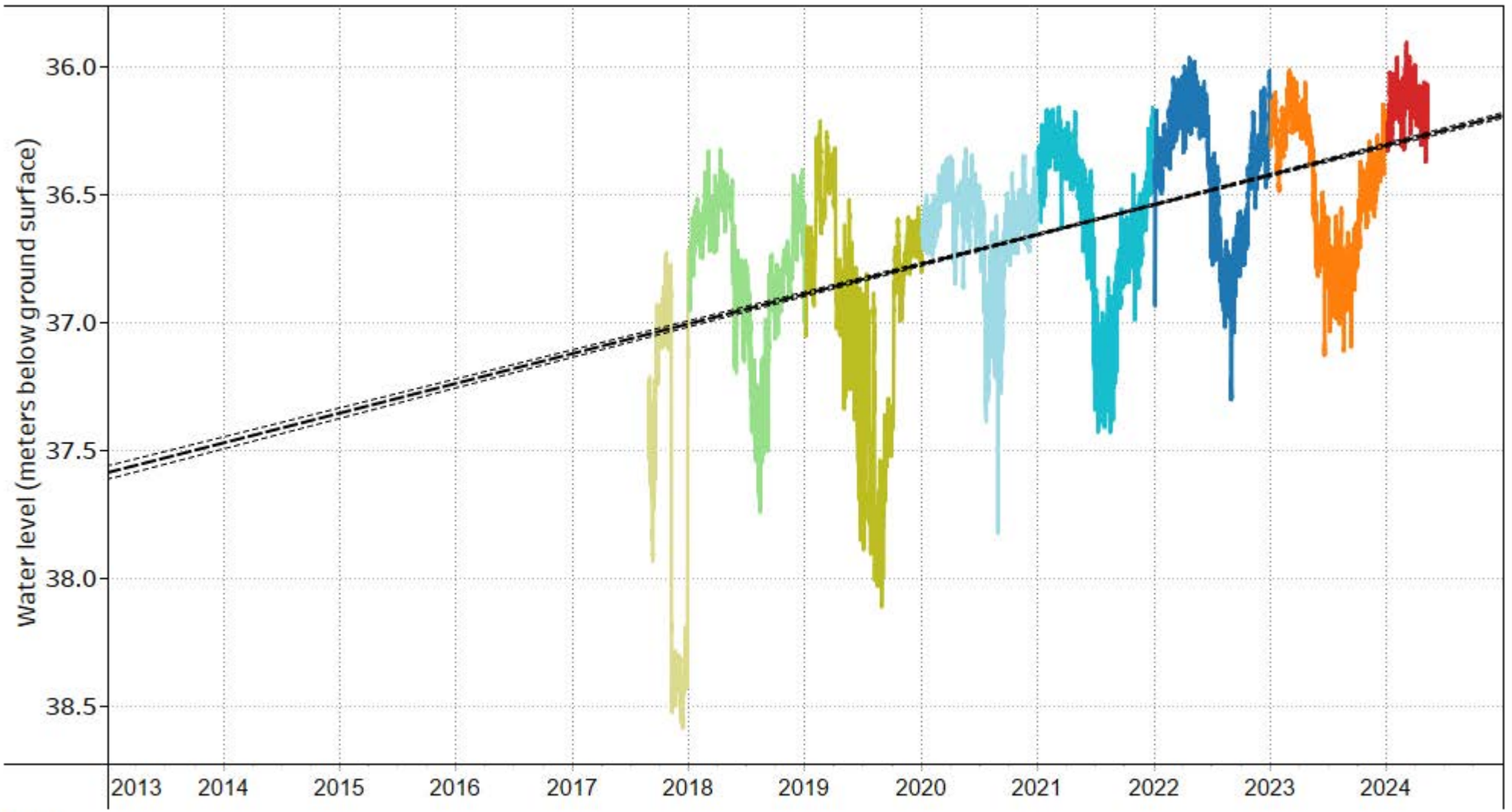
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 38-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

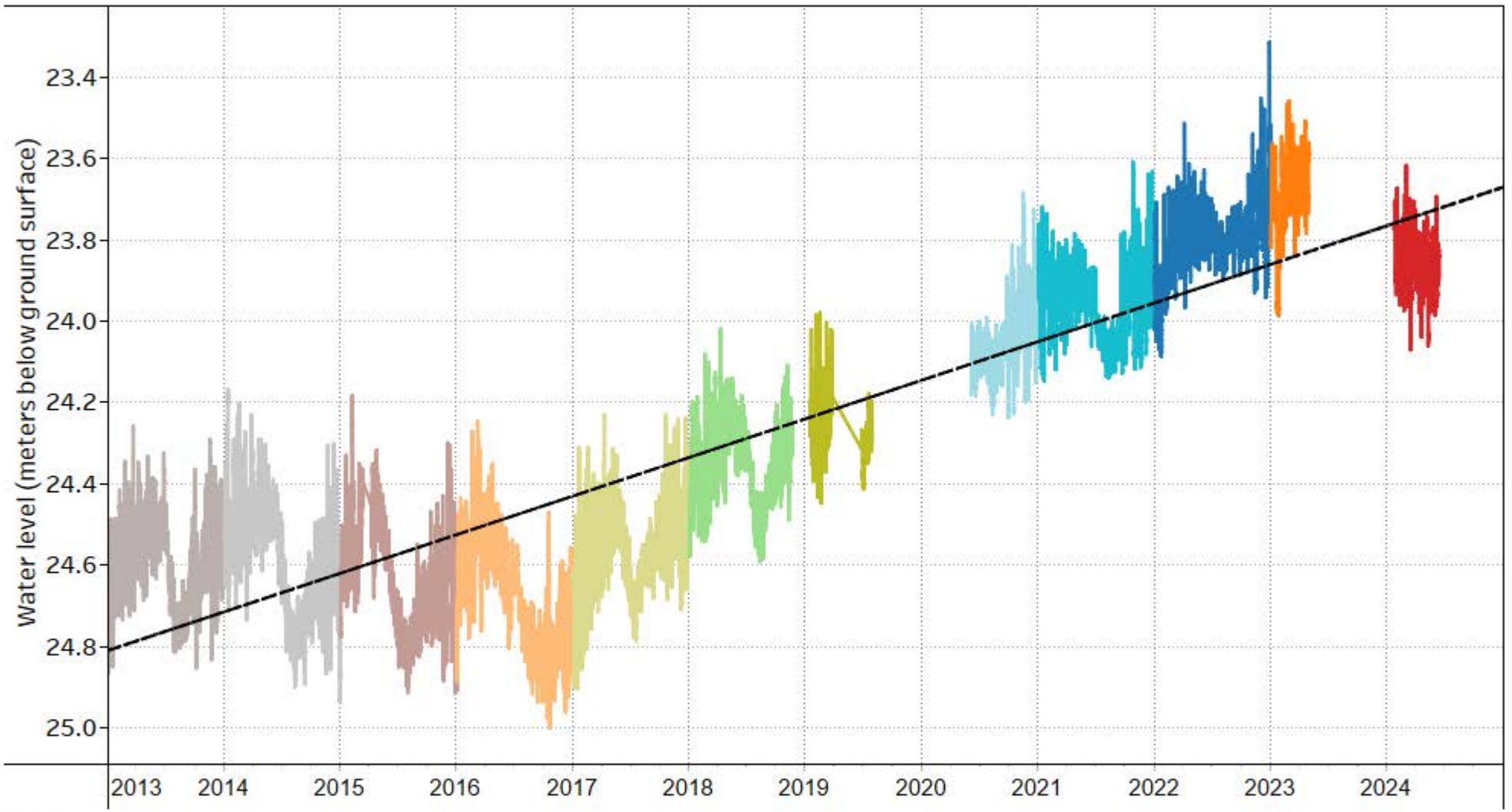
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 39-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

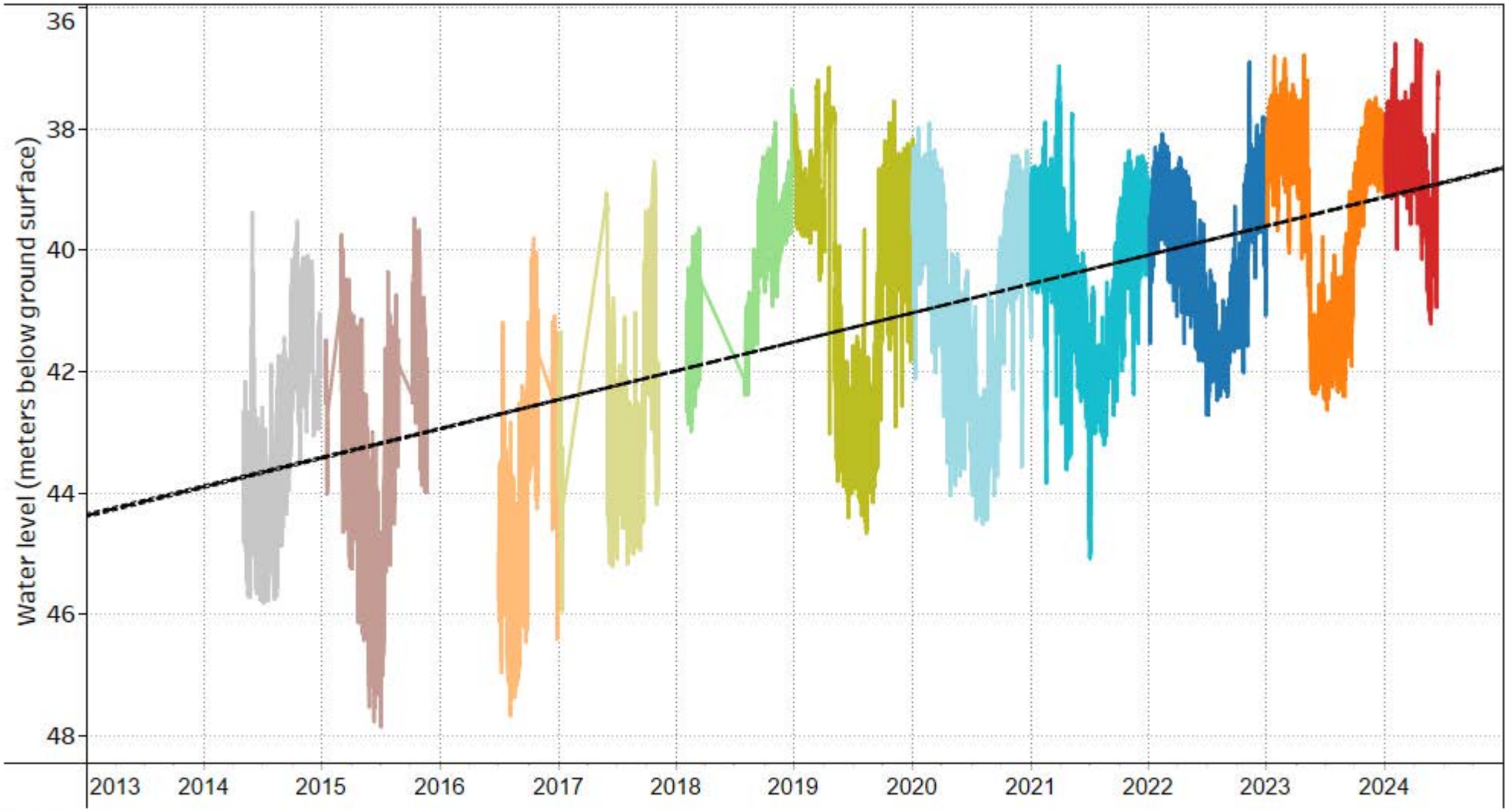
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 40-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	

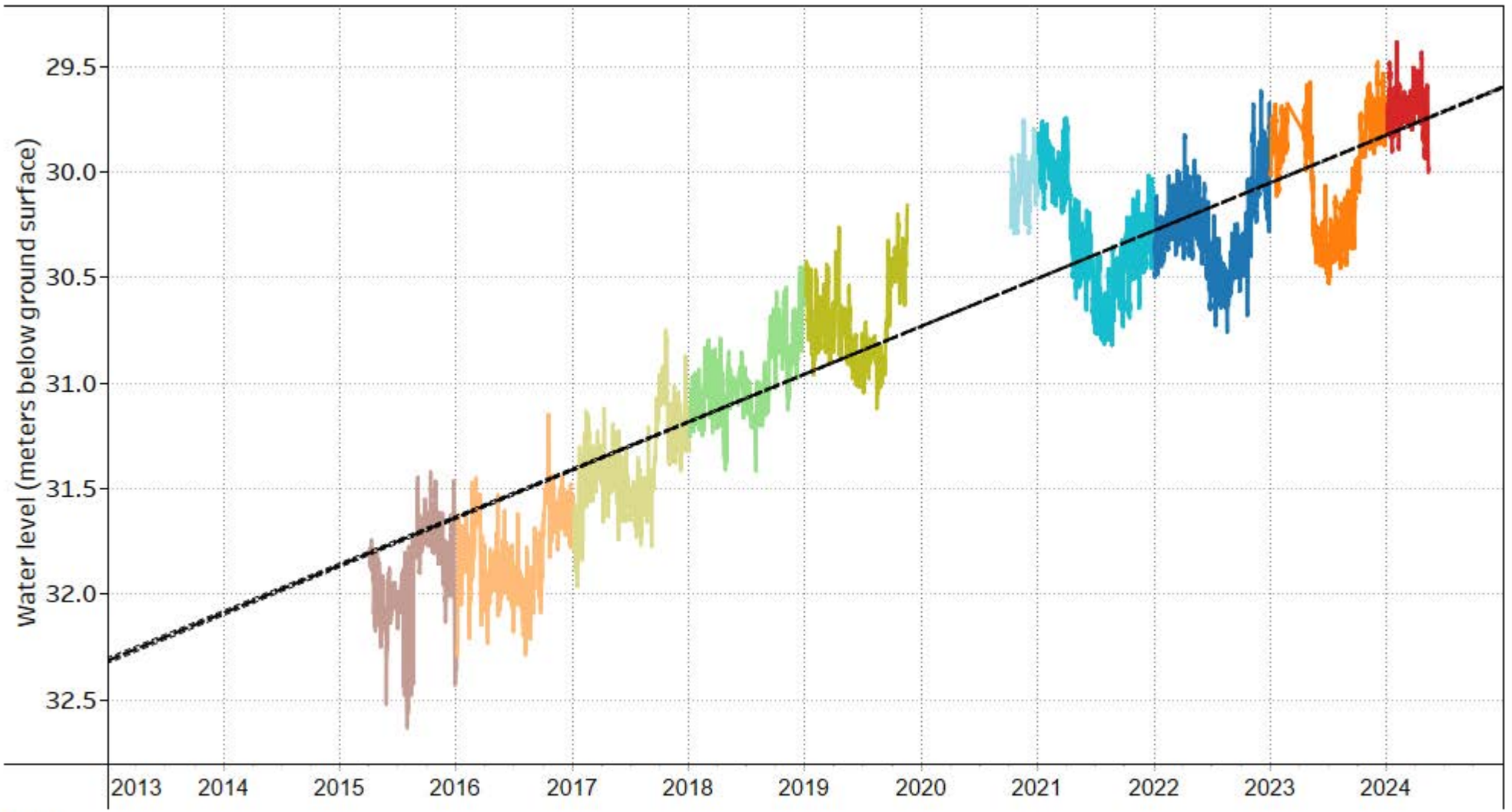
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 41-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

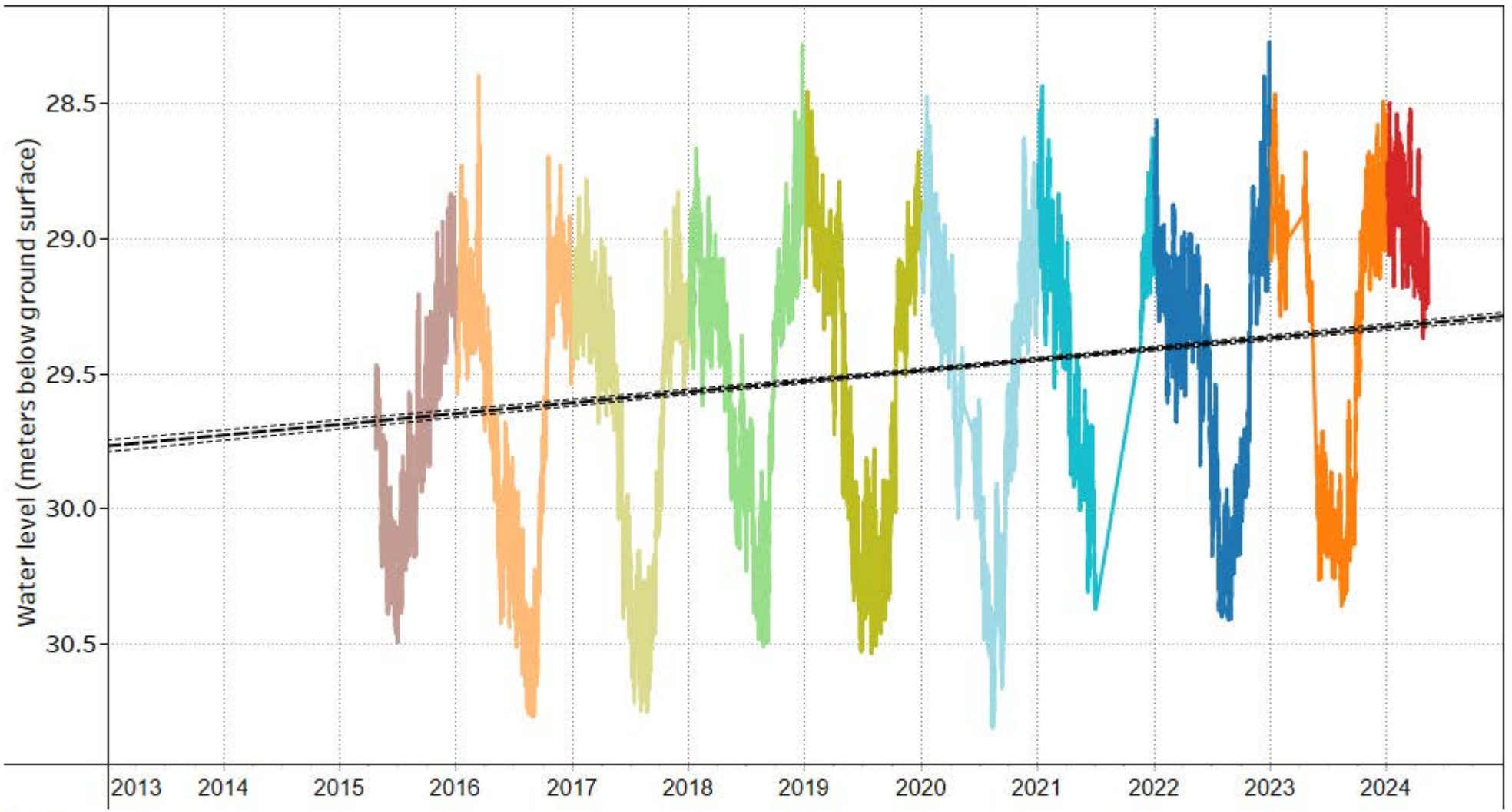
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 42-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	
2021	2017	

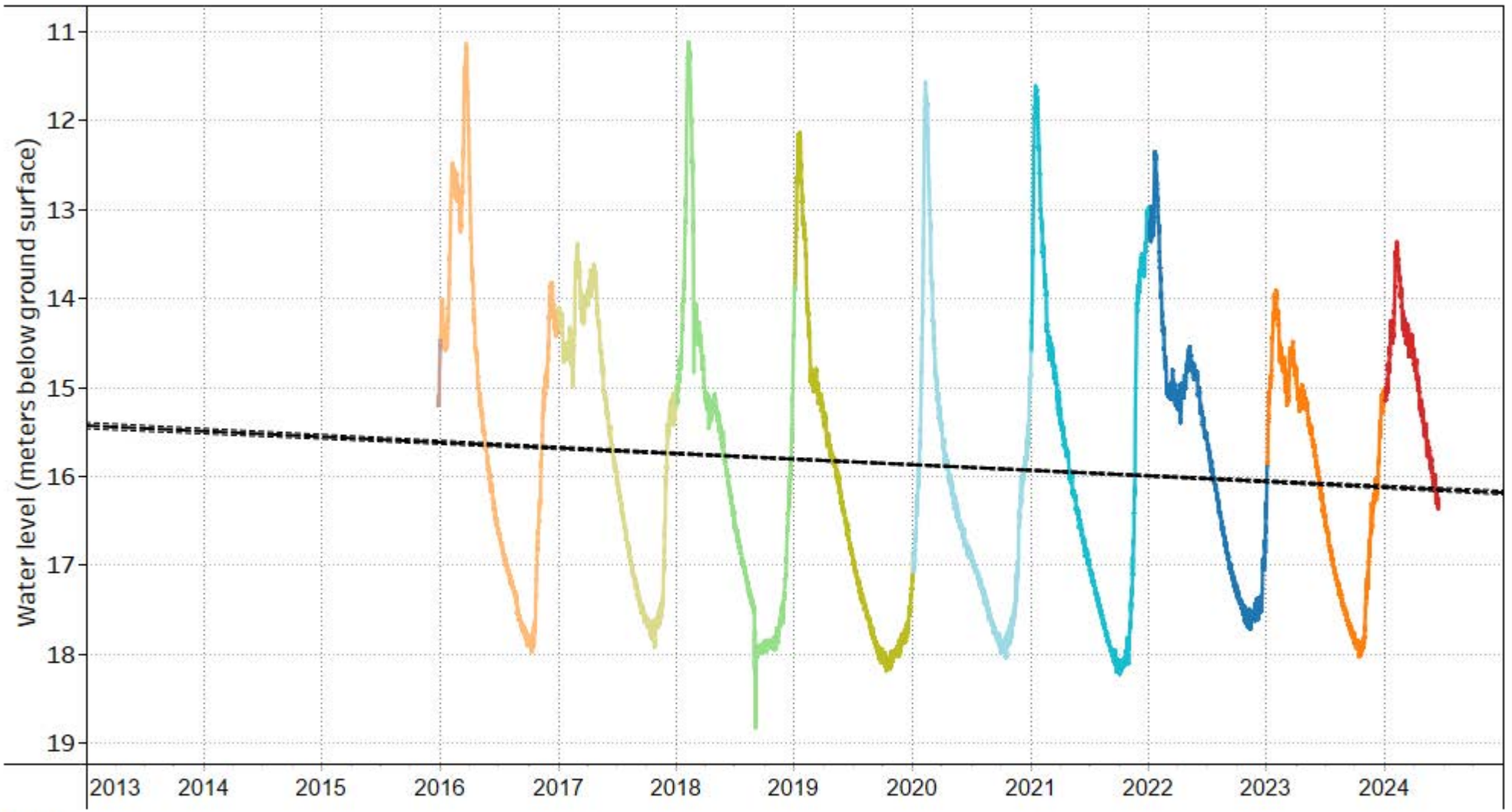
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 43-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

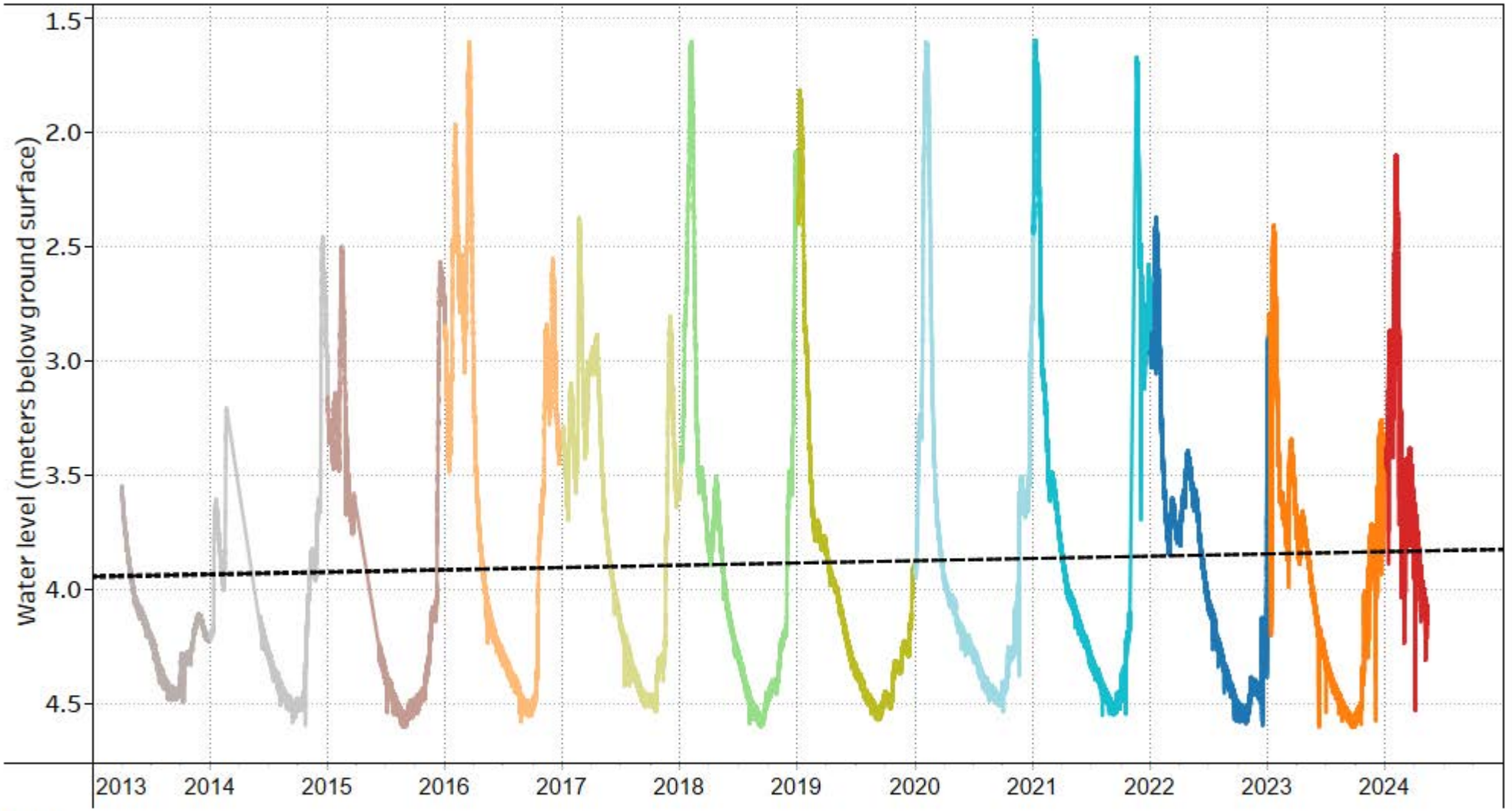
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 44-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

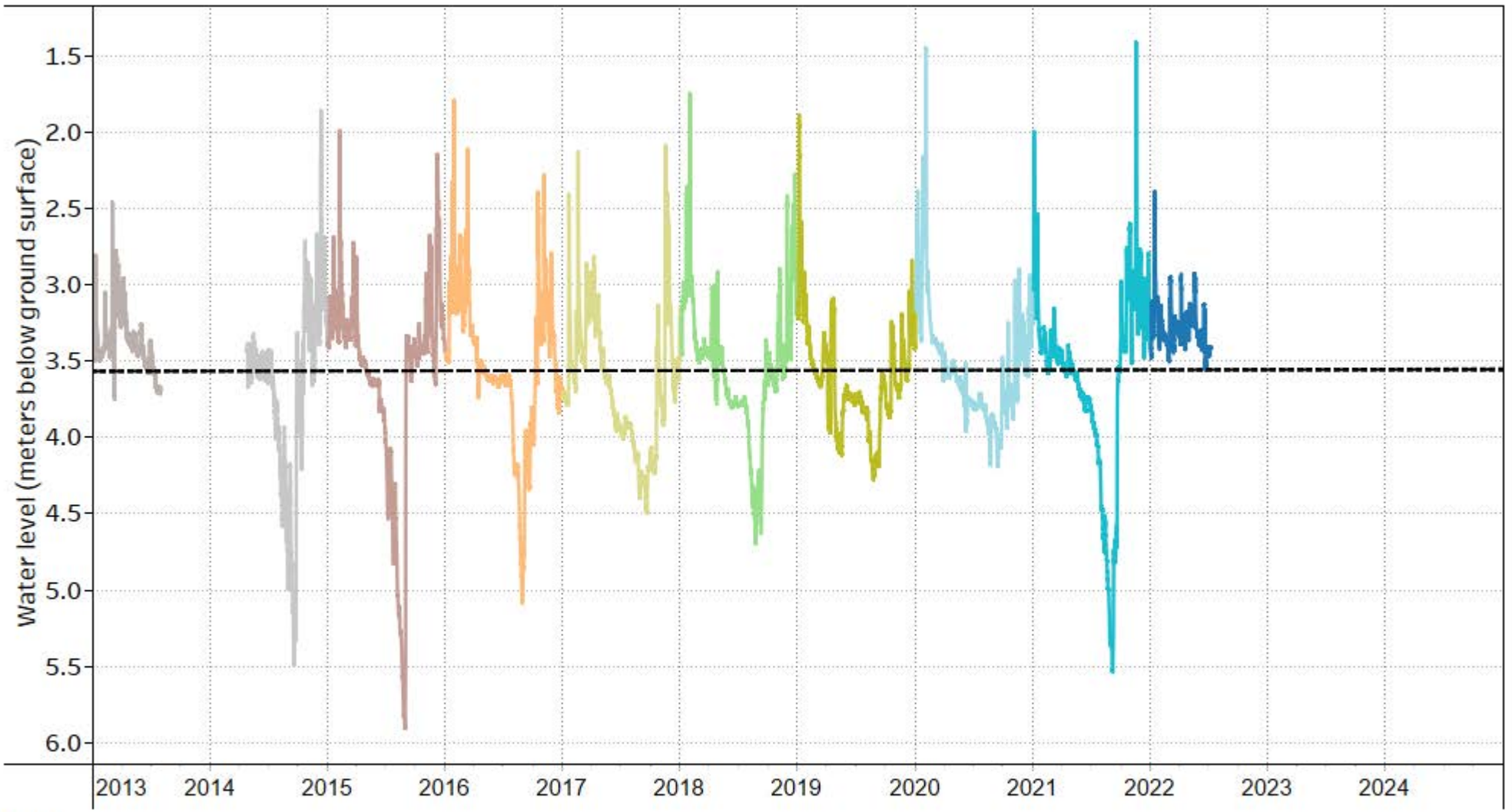
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 45-B

REGIONAL DISTRICT OF NANAIMO

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



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	

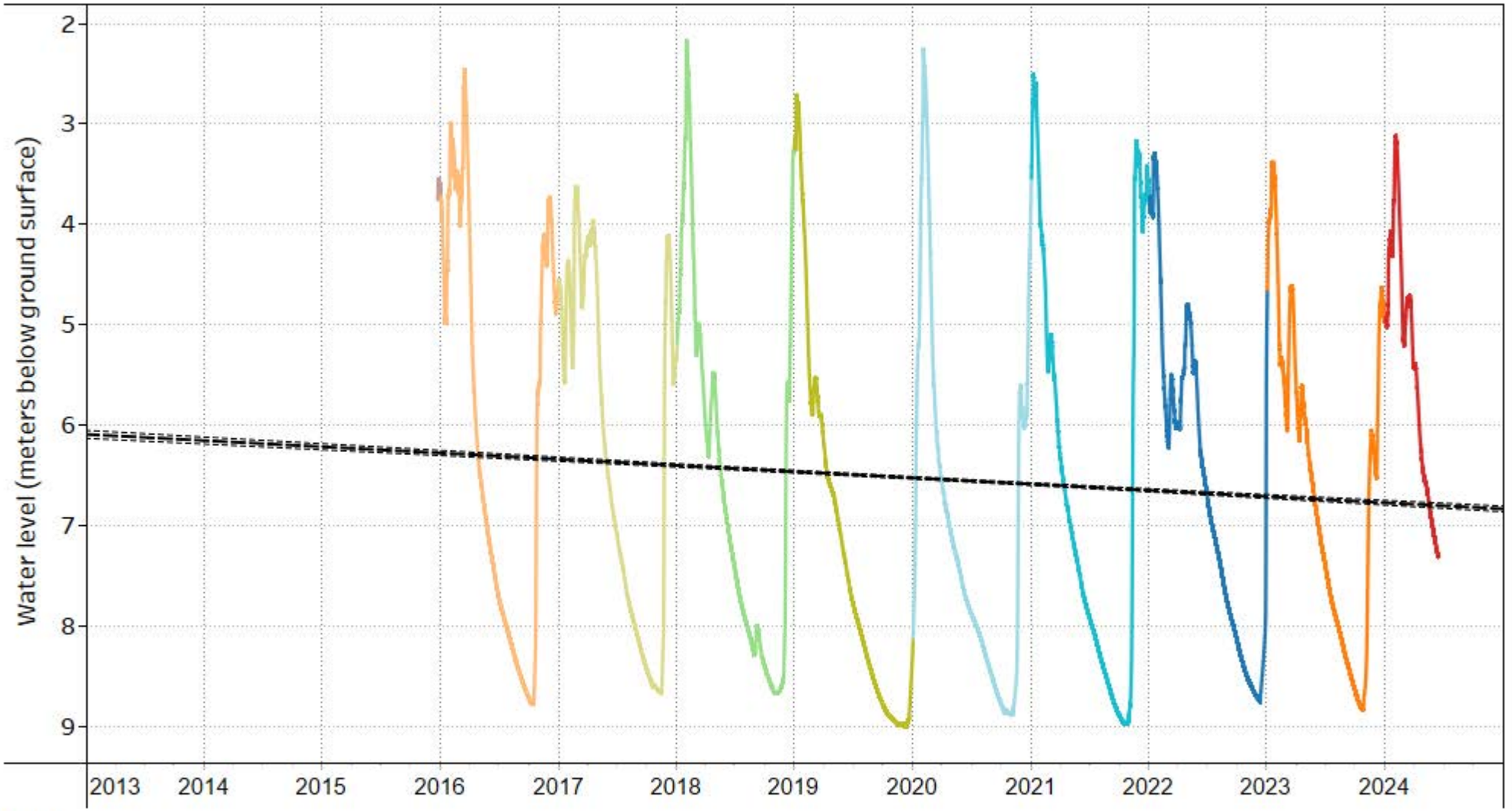
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 46-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

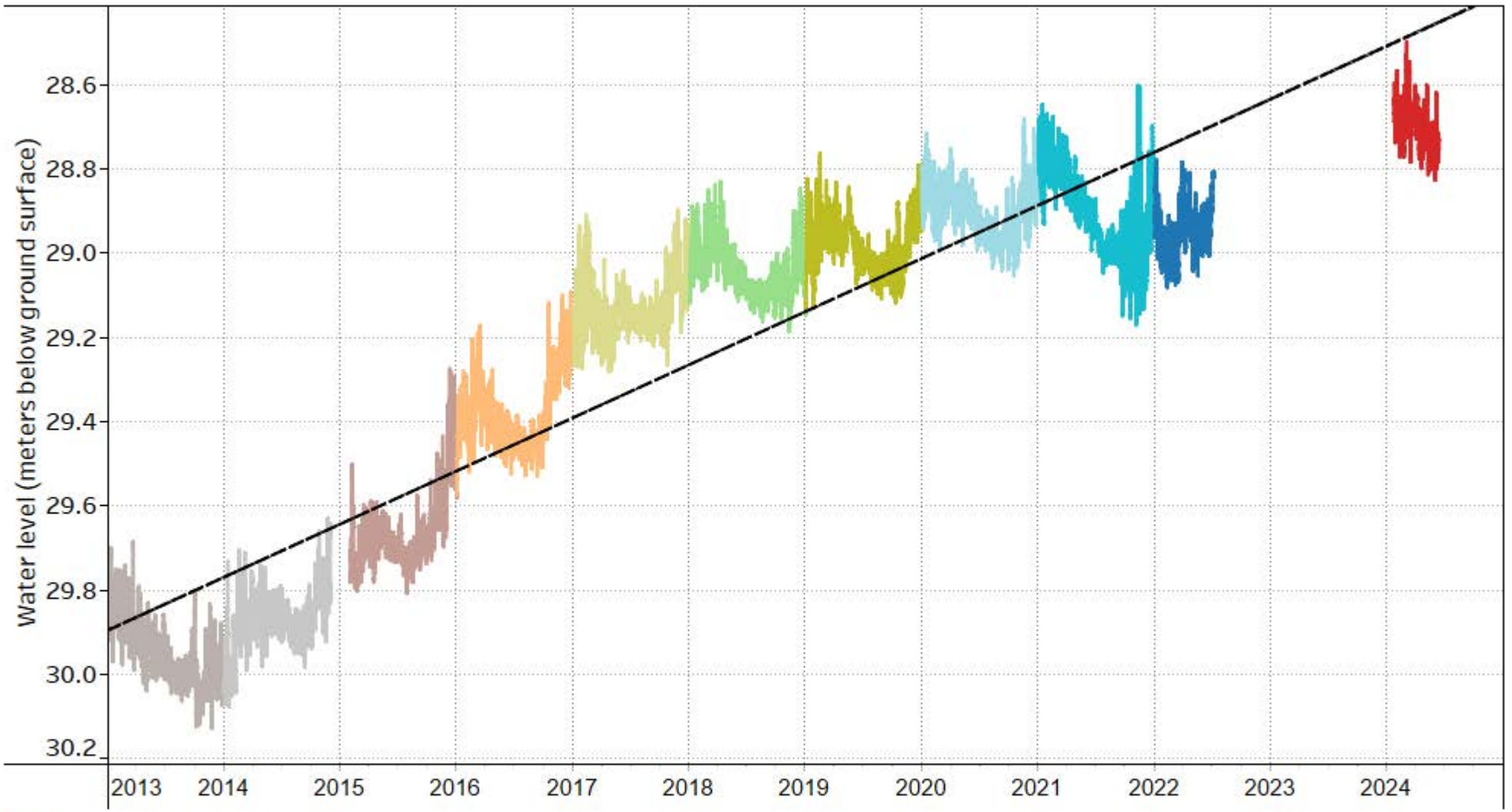
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 47-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2019	2015
2022	2018	2014
2021	2017	2013
2020	2016	

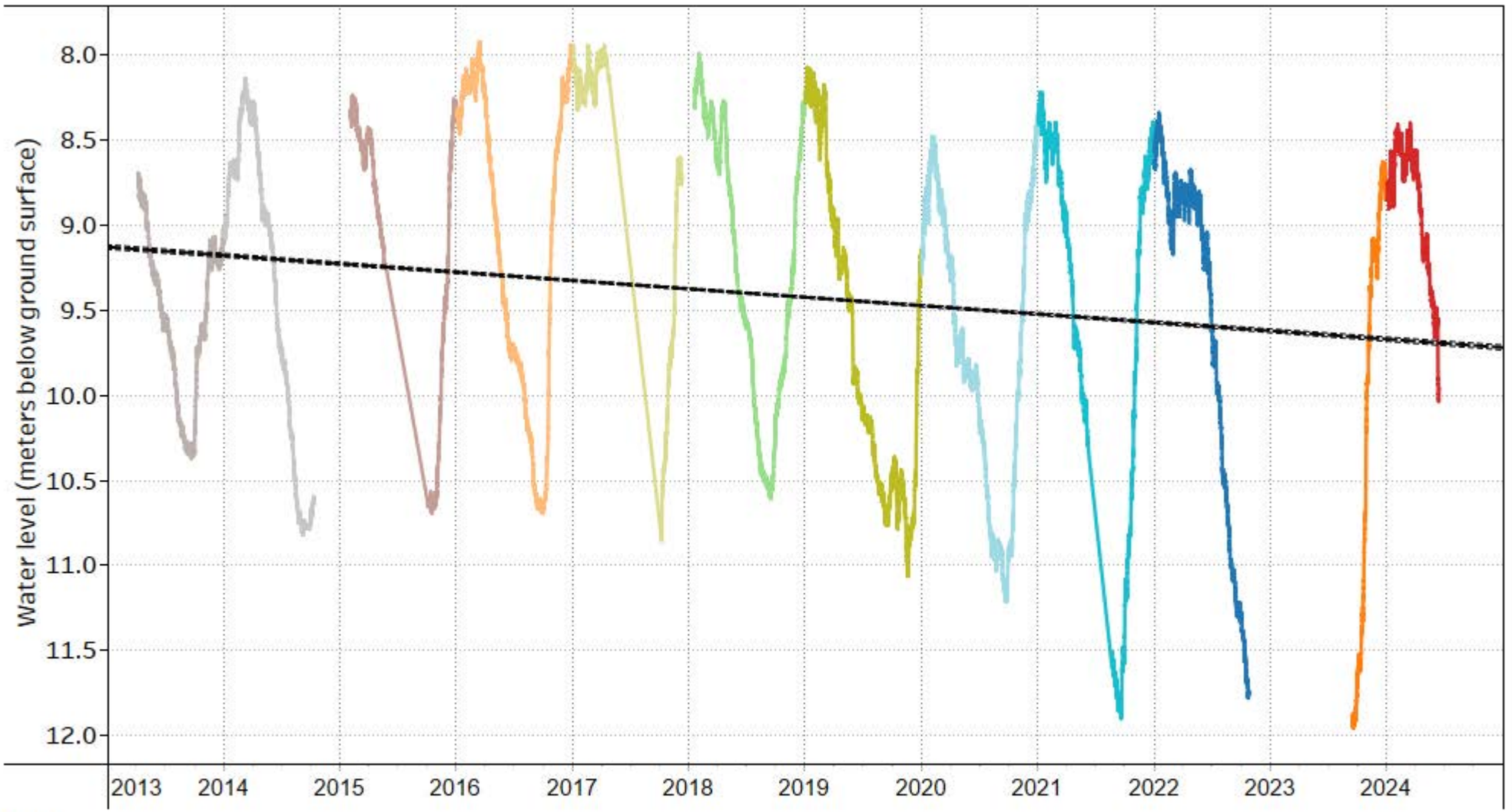
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 48-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

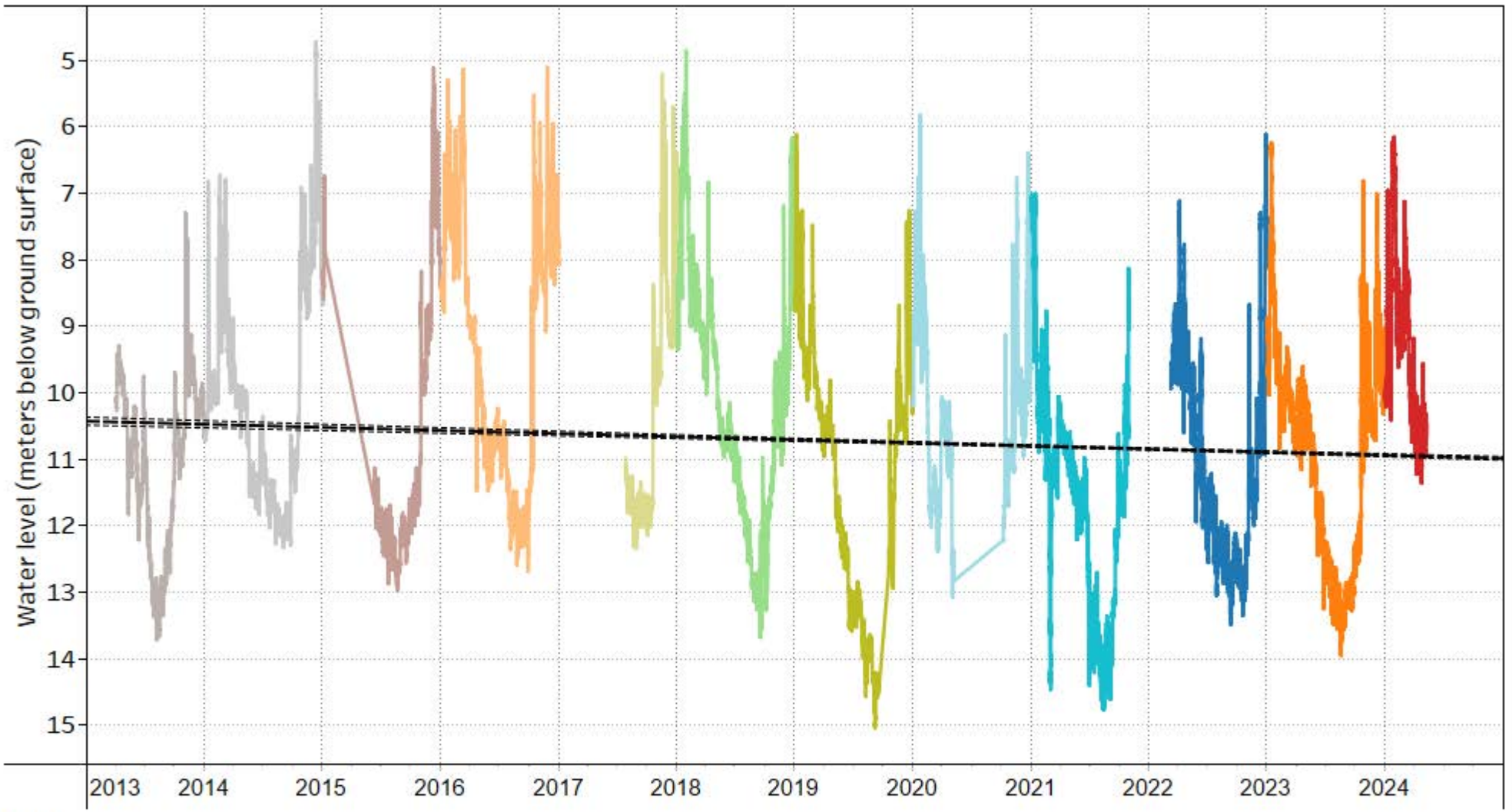
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 49-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

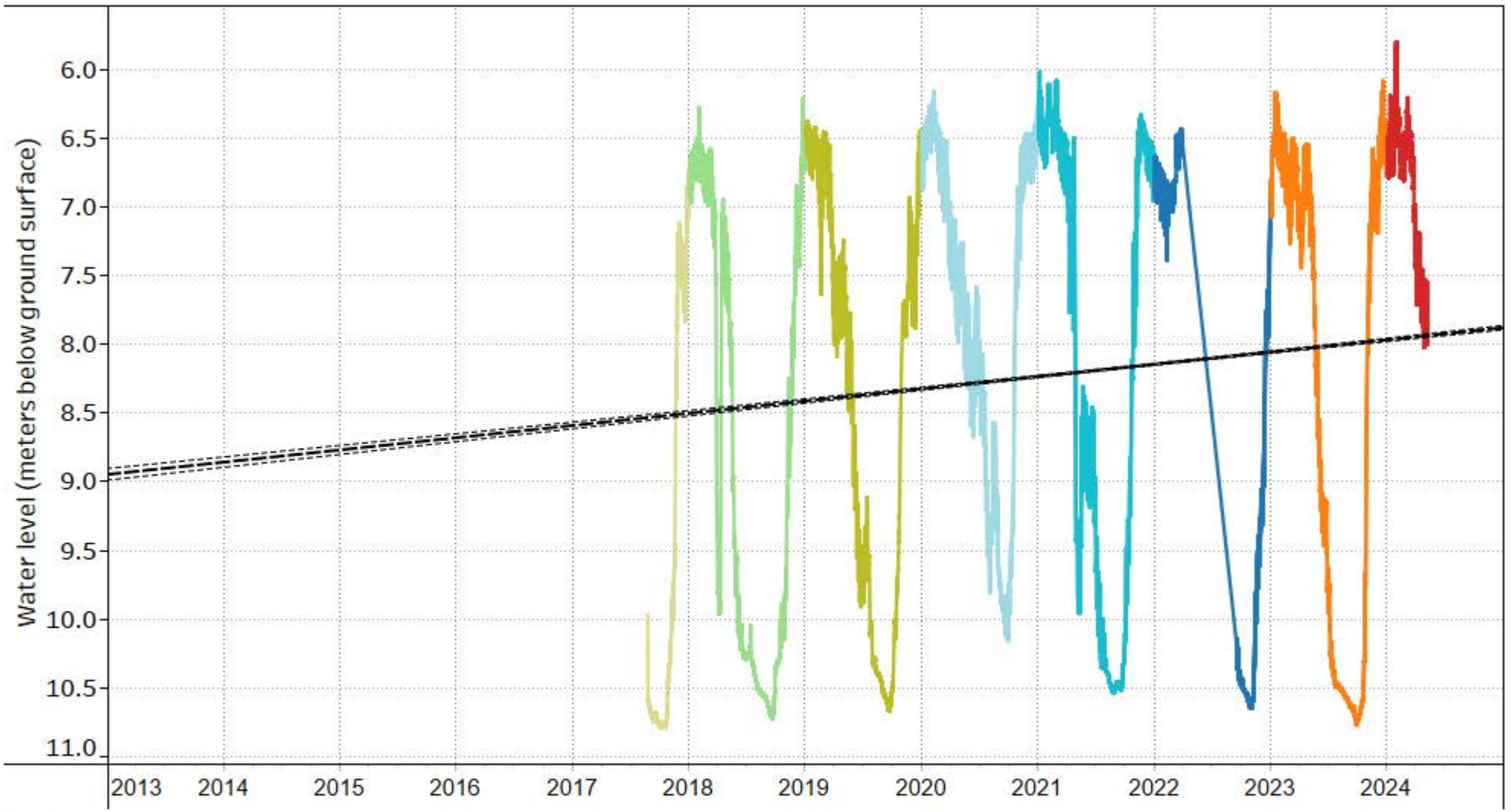
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 50-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2020
2023	2019
2022	2018
2021	2017

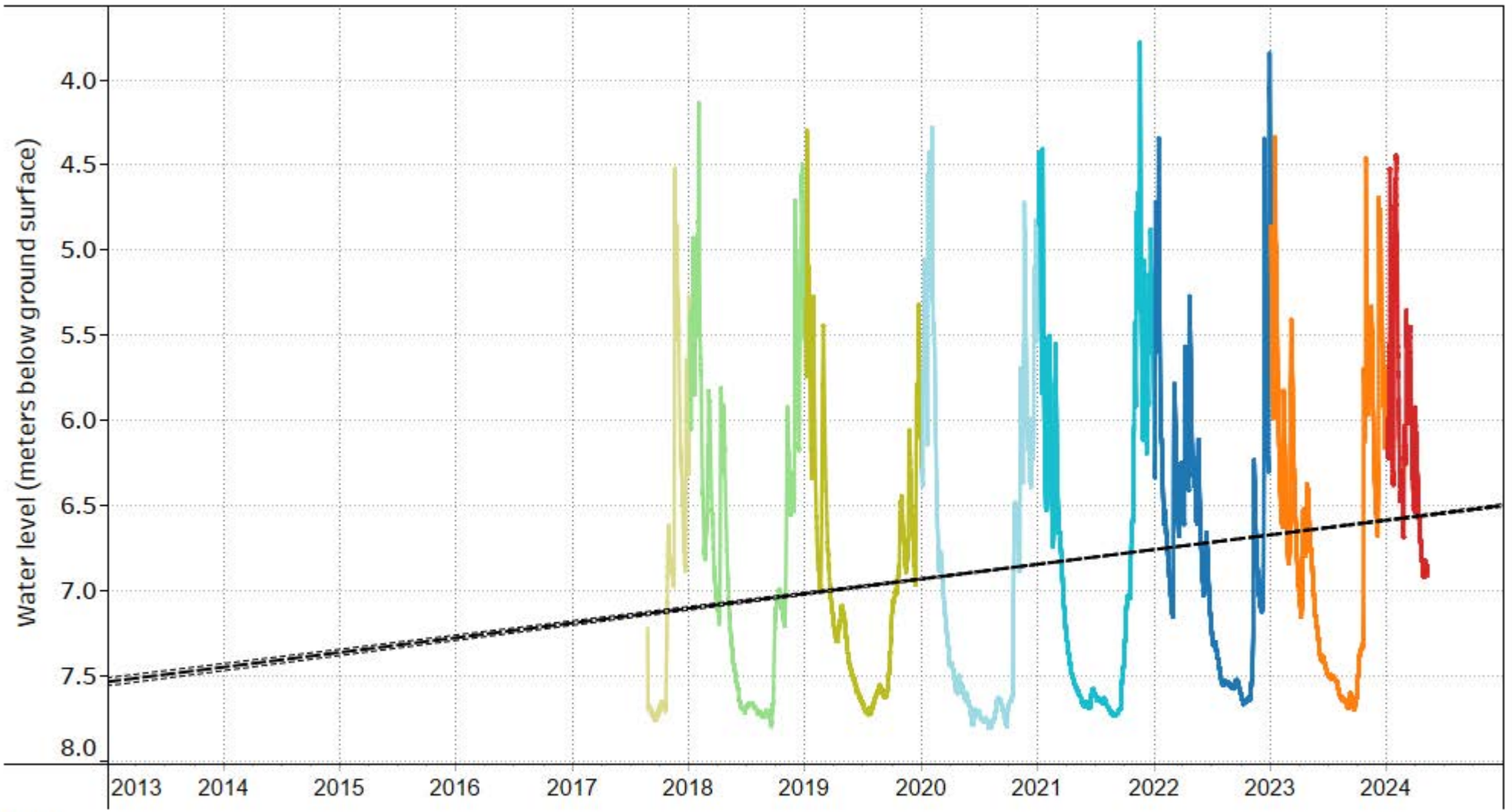
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 51-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

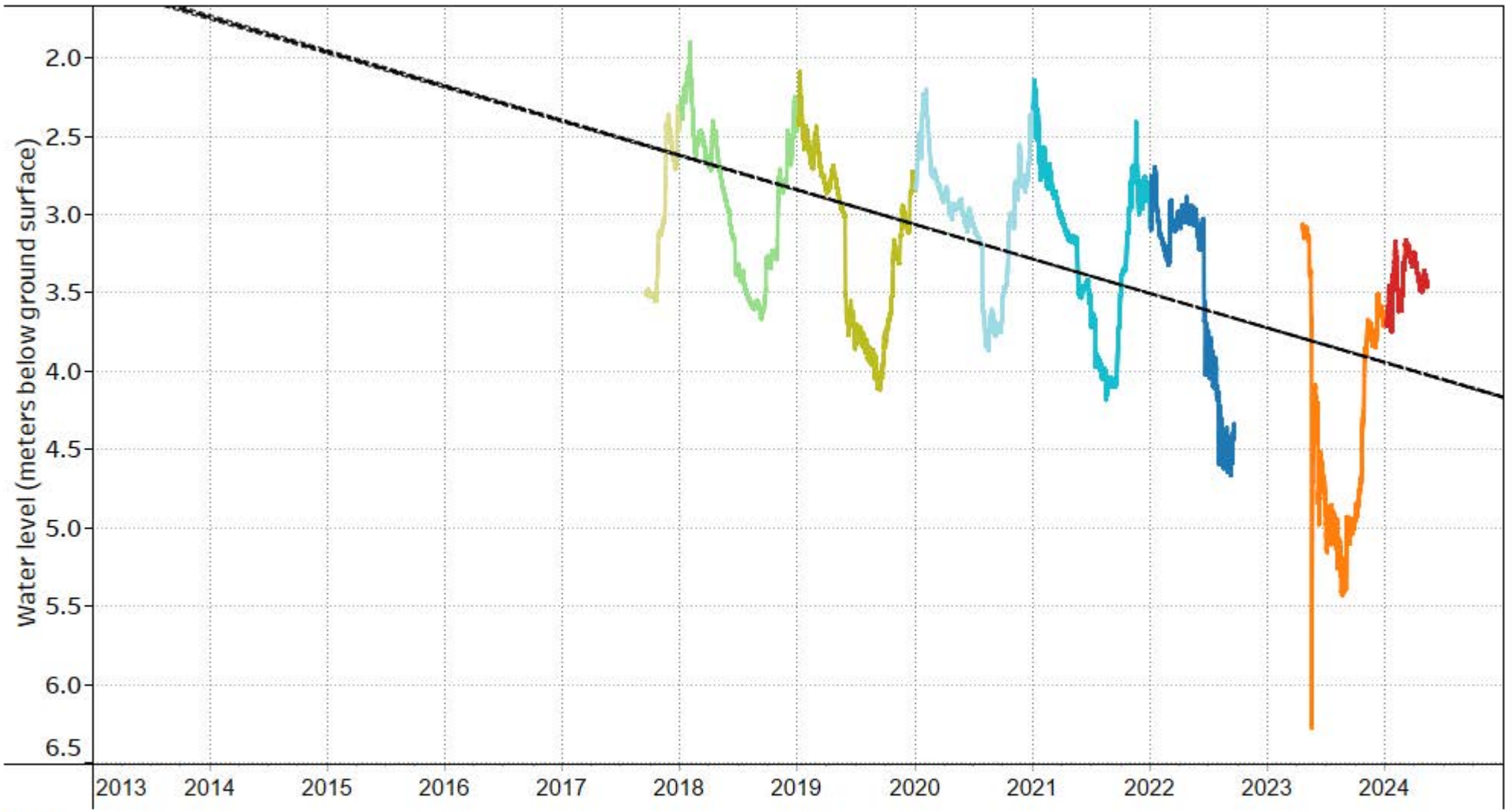
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 52-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

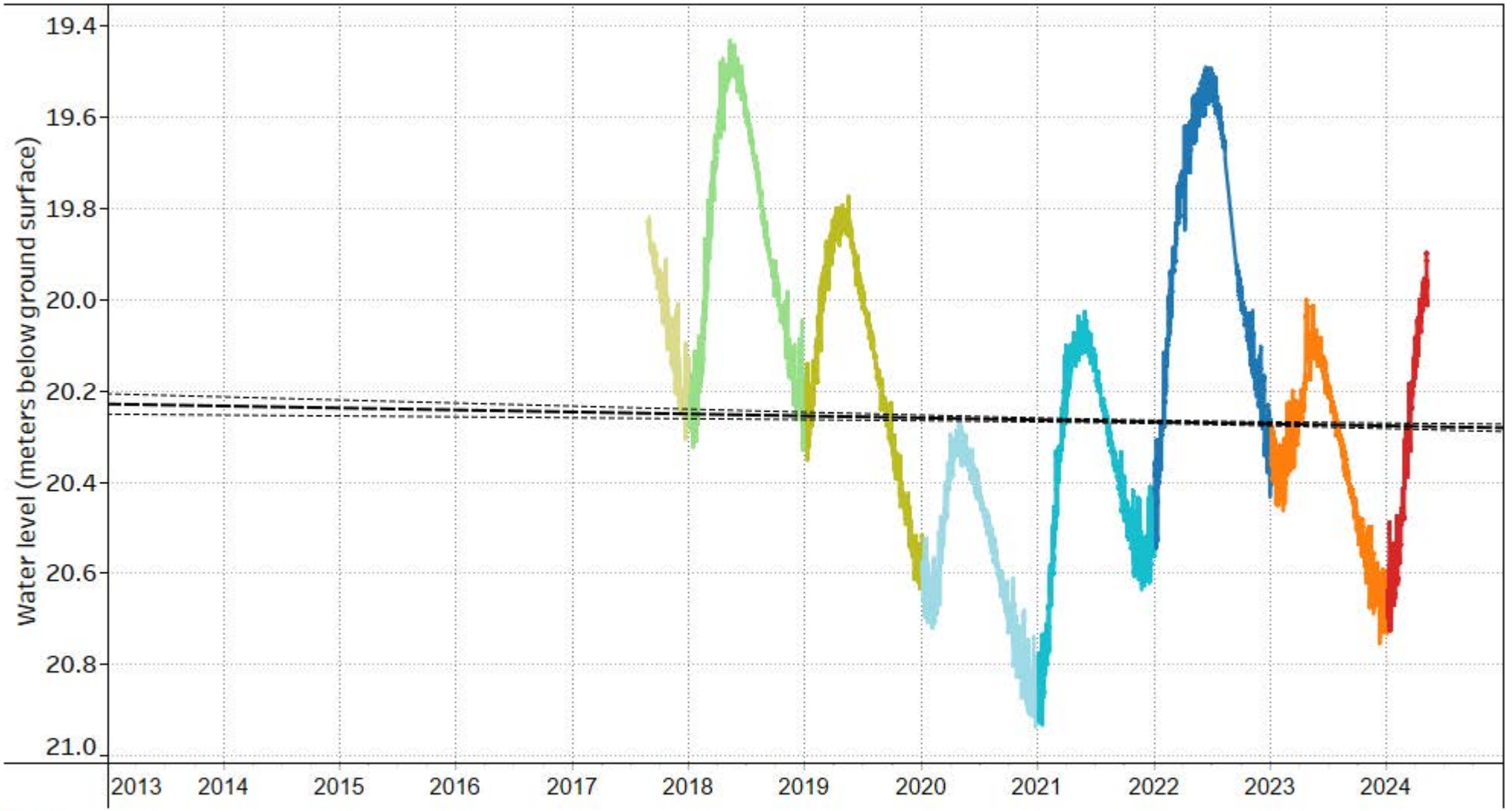
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 53-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2020
2023	2019
2022	2018
2021	2017

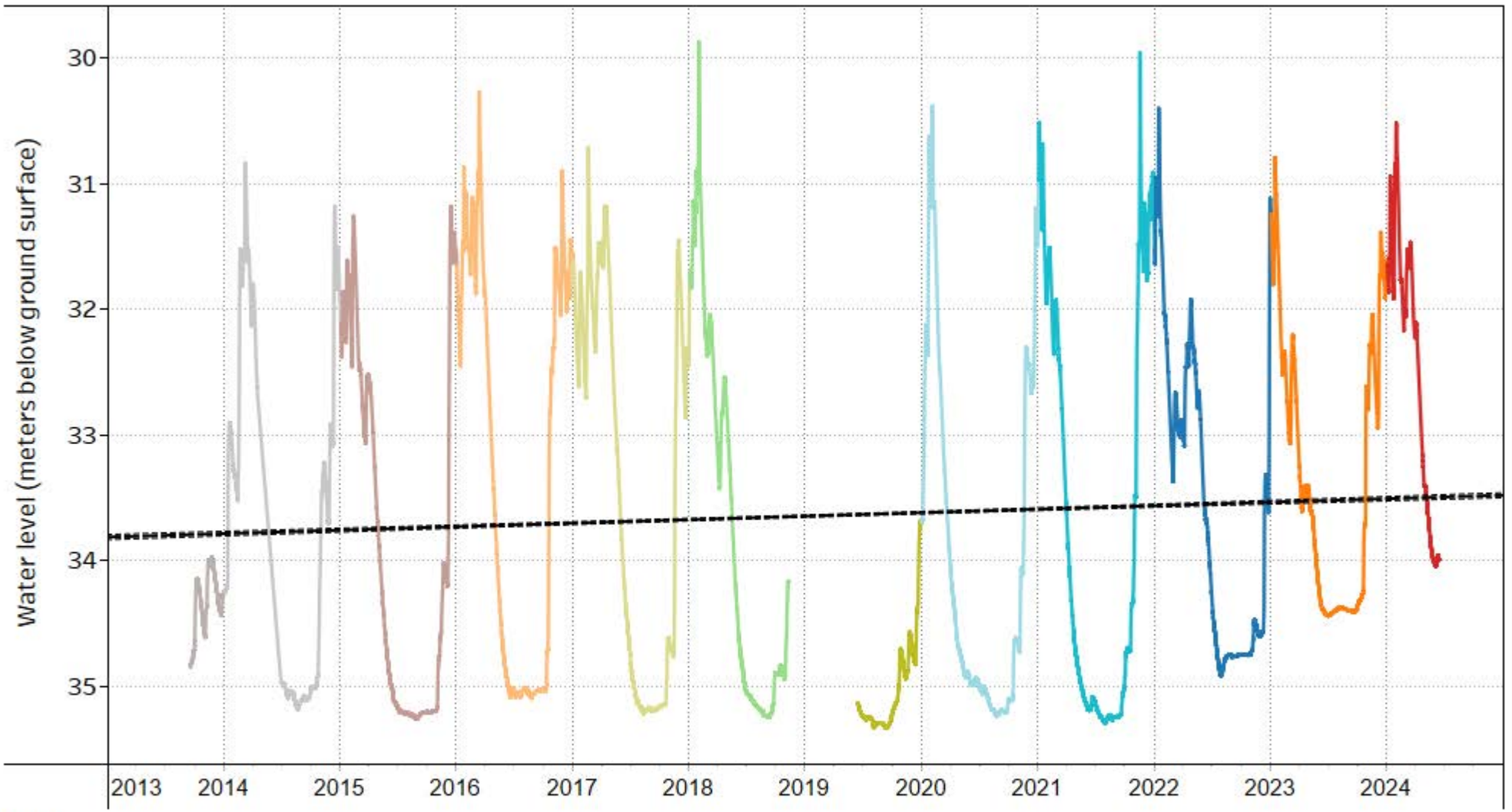
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 54-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 165 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

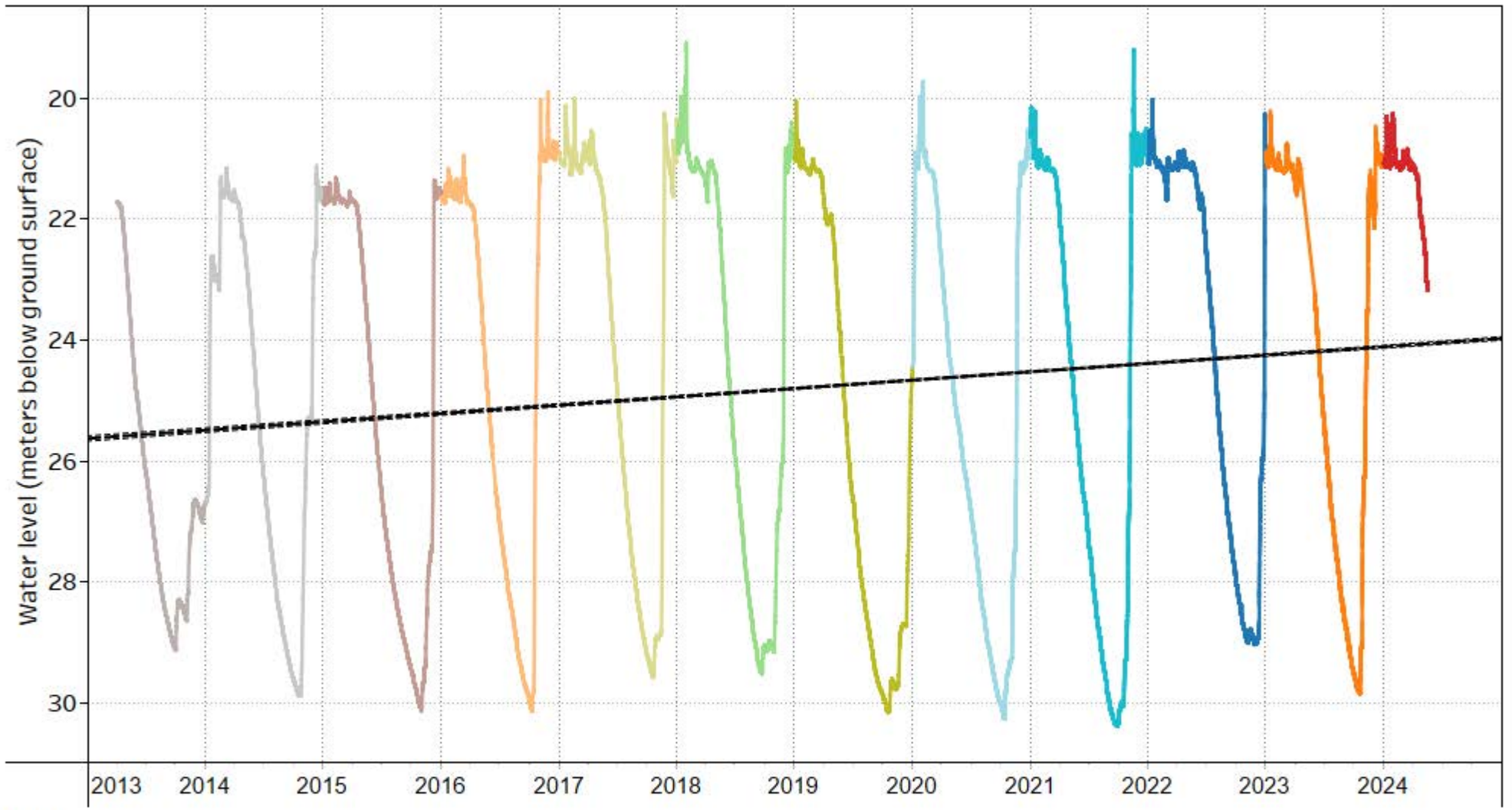
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 55-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 165 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

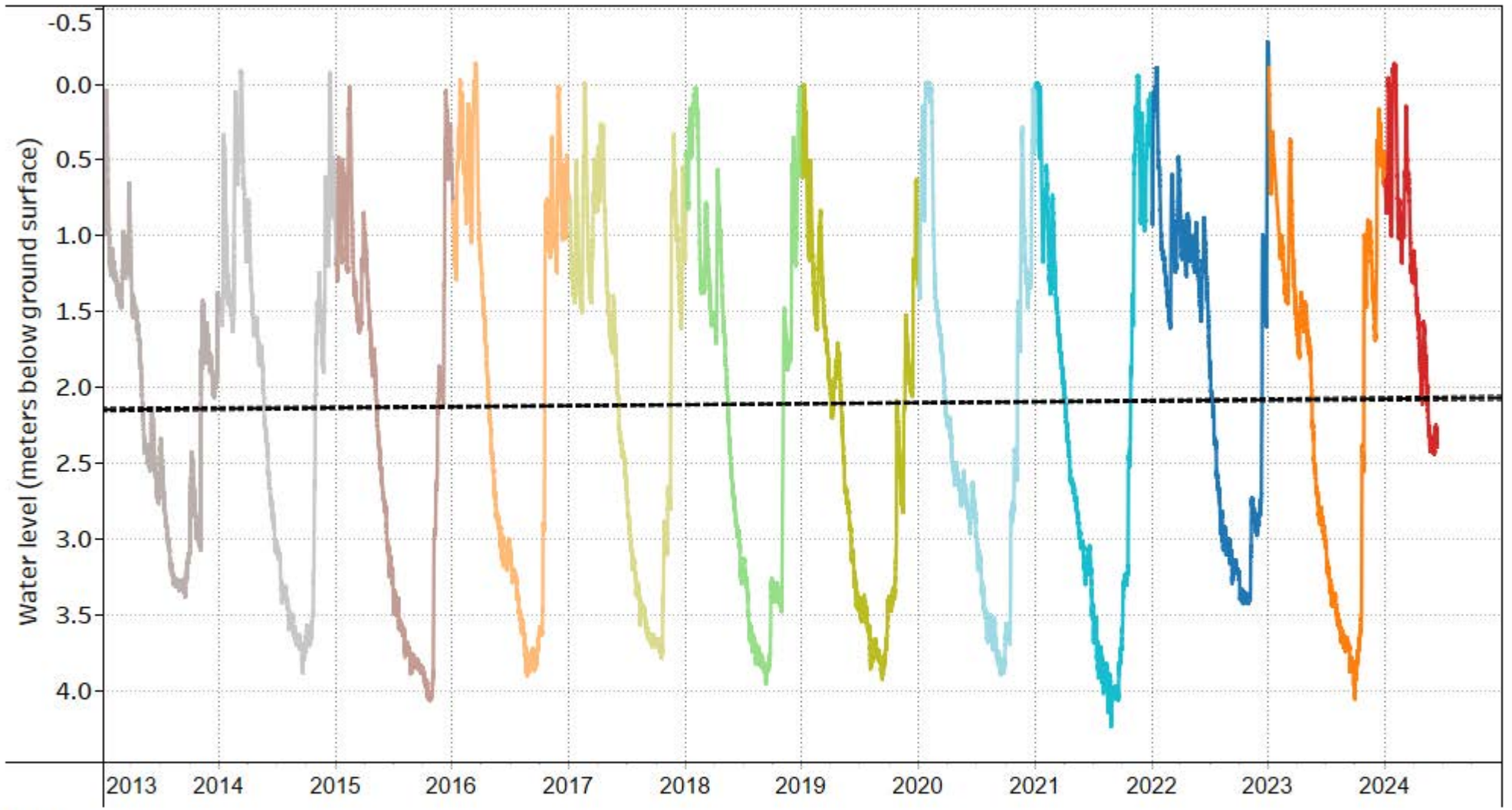
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 56-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

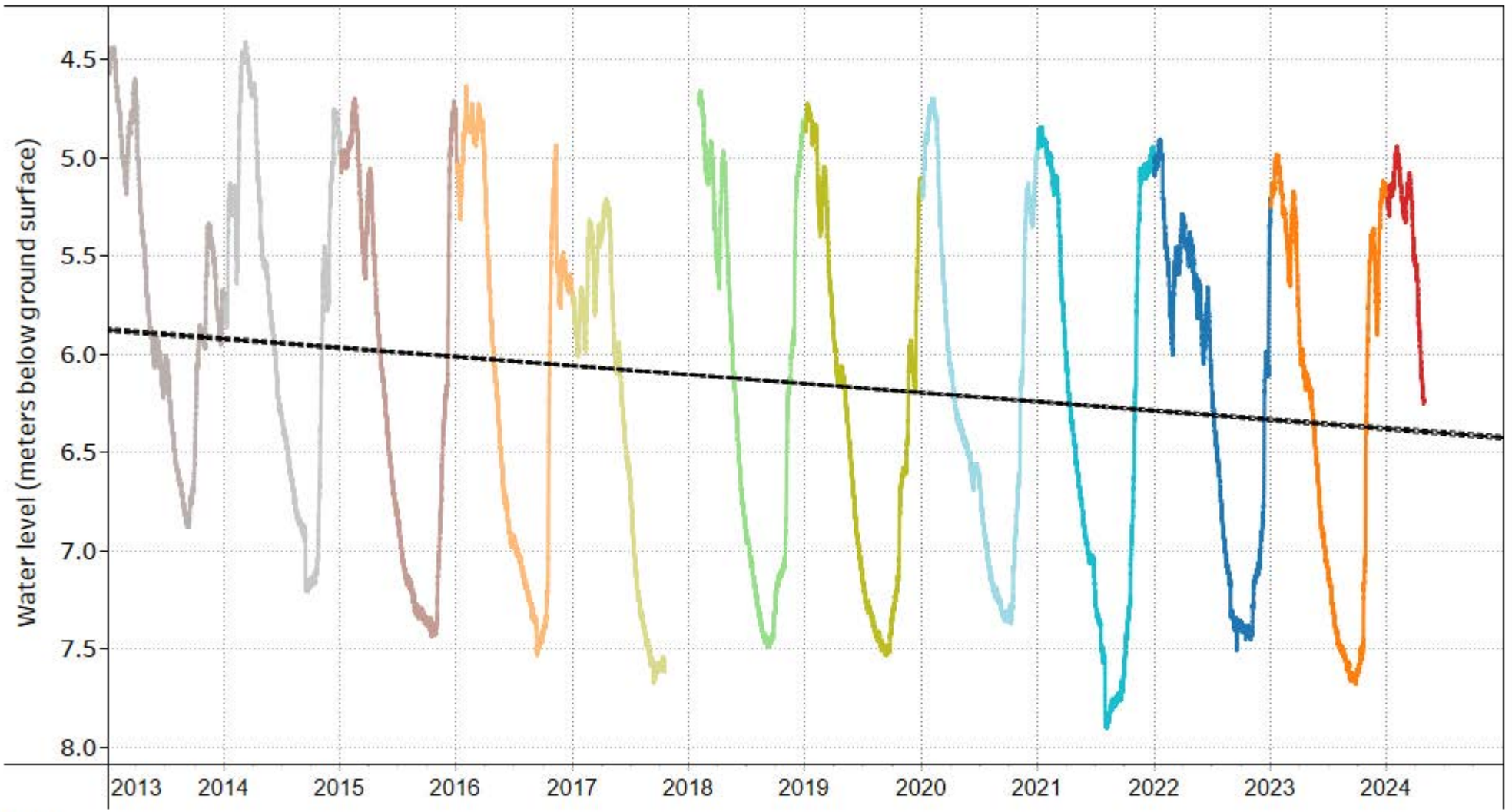
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 57-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

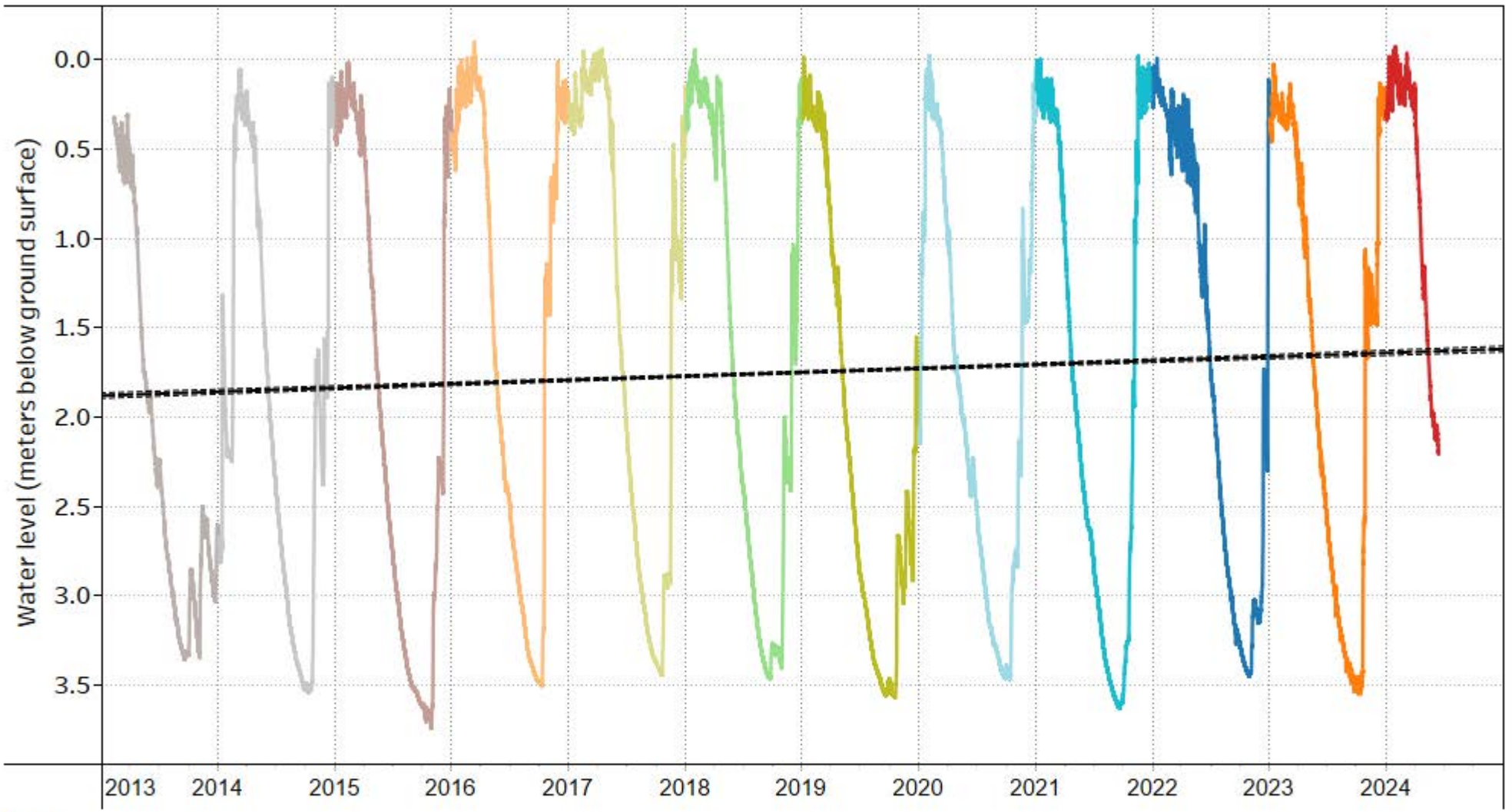
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 58-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

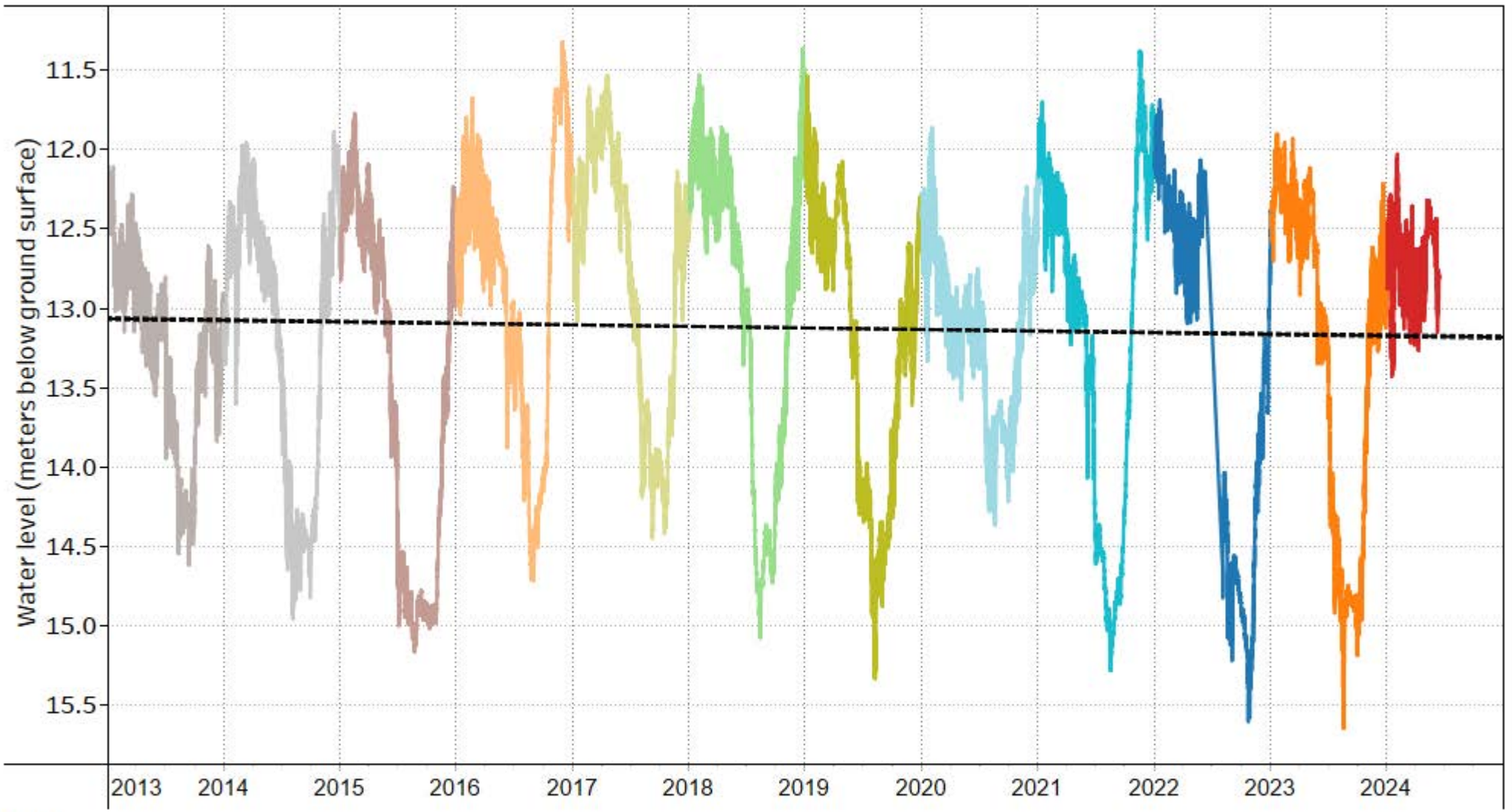
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 59-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

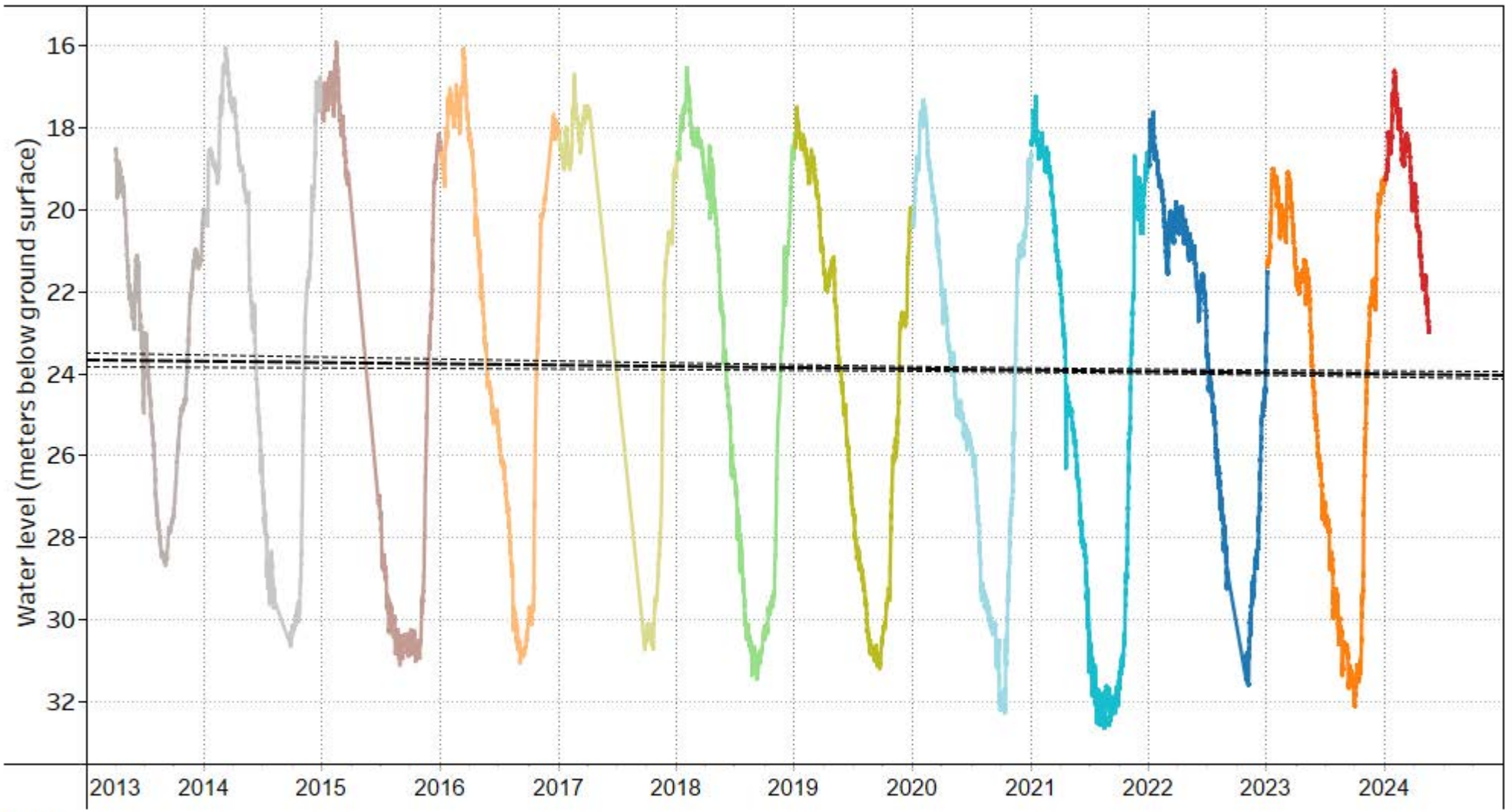
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 60-B

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2020	2016
2023	2019	2015
2022	2018	2014
2021	2017	2013

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 61-B

REGIONAL DISTRICT OF NANAIMO

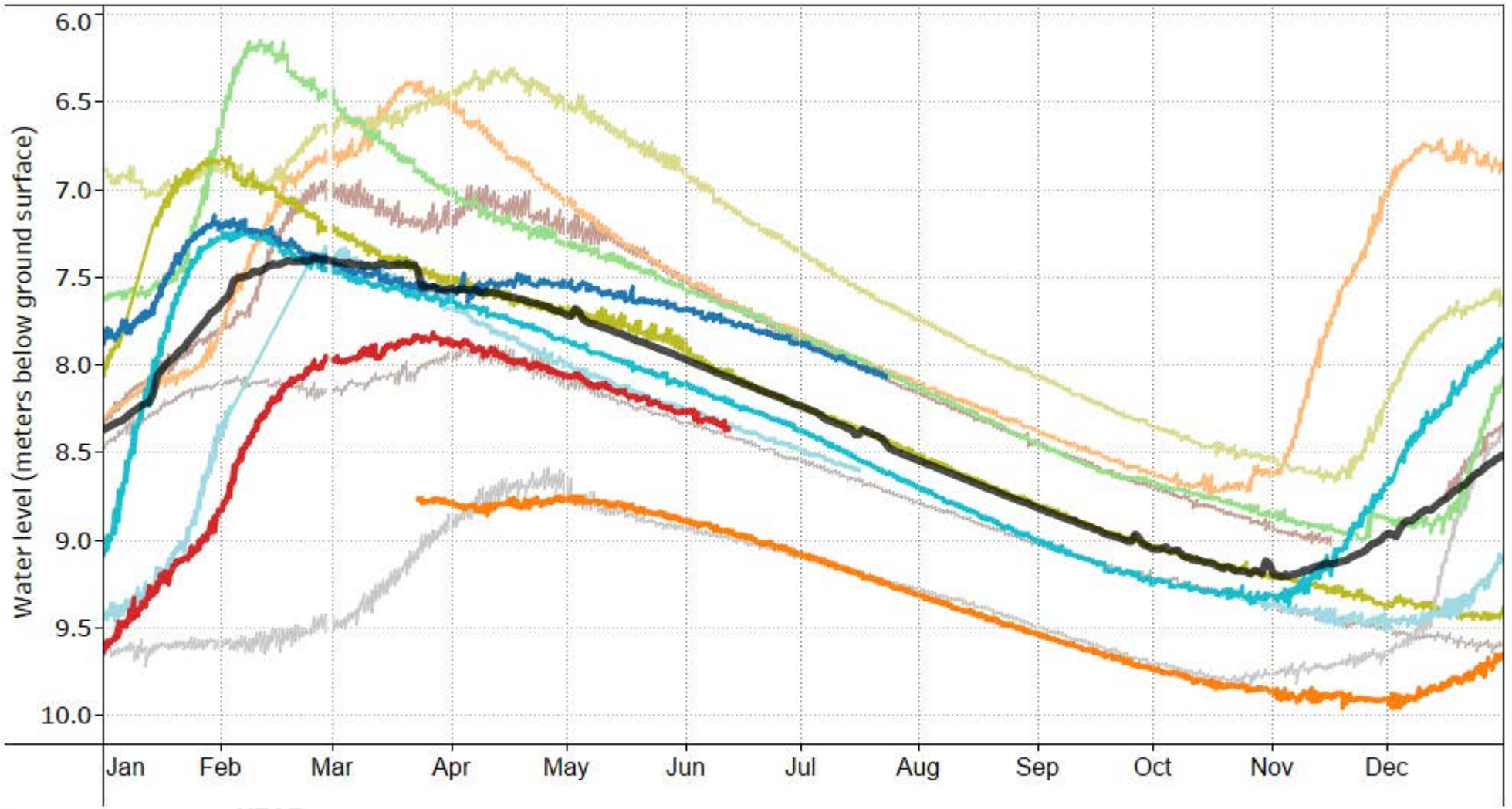
Appendix C – Seasonal Groundwater Level Results

Table C1: Seasonal Groundwater Level Trend Results for the VOWN and PGOWN in 2024

RDN Water Region	Aquifer Number	Aquifer Type	Observation Well Number	Data Range (dataset)	RDN Figure Number (Seasonal)	Groundwater Level Trend*
WR1 - Big Qualicum	416	Surficial	OW 310	2013 - 2024	FIGURE 1-C	Below
			OW 427	2014 - 2024	FIGURE 2-C	Below
	662	Surficial	OW 426	2013 - 2023	FIGURE 3-C	-
WR2 - Little Qualicum			OW 391	2013 - 2024	FIGURE 4-C	Below
	664	Surficial	OW 389	2013 - 2024	FIGURE 5-C	Average
WR3 - French Creek	212	Bedrock	VOW 15	2018 - 2024	FIGURE 6-C	Below
	216	Surficial	OW 304	2013 - 2024	FIGURE 7-C	Above
			OW 314	2013 - 2024	FIGURE 8-C	Above
			OW 398	2013 - 2024	FIGURE 9-C	Above
			VOW 14	2018 - 2024	FIGURE 10-C	Above
	217	Surficial	OW 295	2013 - 2024	FIGURE 11-C	Above
			OW 434	2013 - 2024	FIGURE 12-C	Above
			VOW 16	2018 - 2024	FIGURE 13-C	Below to Above
	220	Bedrock	OW 287	2013 - 2024	FIGURE 14-C	Below
	1250	Surficial	OW 303	2013 - 2022	FIGURE 15-C	-
			OW 321	2013 - 2024	FIGURE 16-C	Above
			OW 424	2013 - 2024	FIGURE 17-C	Below
			OW 433	2014 - 2024	FIGURE 18-C	Above
WR4 - Englishman River	216	Surficial	VOW 01	2014 - 2024	FIGURE 19-C	Average
	219	Surficial	OW 395	2013 - 2024	FIGURE 20-C	Below
WR5 - Nanoose to South Wellington	167	Surficial	VOW 12	2016 - 2024	FIGURE 21-C	Average
	211	Bedrock	OW 388	2013 - 2024	FIGURE 22-C	Below
	213	Bedrock	VOW 02	2013 - 2024	FIGURE 23-C	Average to Below
			VOW 03	2013 - 2024	FIGURE 24-C	Average
			VOW 13	2016 - 2024	FIGURE 25-C	Above to Average
	214	Bedrock	VOW 30	2015 - 2024	FIGURE 26-C	Average
			VOW 31	2015 - 2024	FIGURE 27-C	Average
			VOW 32	2015 - 2024	FIGURE 28-C	Average to Above
			VOW 33	2015 - 2024	FIGURE 29-C	Below to Average
			VOW 34	2015 - 2024	FIGURE 30-C	Above to Average
	215	Surficial	OW 232	2013 - 2024	FIGURE 31-C	Average to Above
			OW 340	2013 - 2024	FIGURE 32-C	Below
			VOW 28	2018 - 2024	FIGURE 33-C	Above to Below
	218	Bedrock	OW 394	2013 - 2024	FIGURE 34-C	Average
			VOW 26	2018 - 2024	FIGURE 35-C	Average
			VOW 27	2018 - 2024	FIGURE 36-C	Below
	219	Surficial	OW 393	2013 - 2024	FIGURE 37-C	Average
			OW 396	2013 - 2024	FIGURE 38-C	Average to Above
			VOW 25	2018 - 2024	FIGURE 39-C	Above
	1098	Surficial	OW 392	2013 - 2024	FIGURE 40-C	Above
			OW 397	2013 - 2024	FIGURE 41-C	Above
			VOW 17	2015 - 2024	FIGURE 42-C	Above
			VOW 29	2015 - 2024	FIGURE 43-C	Above
WR6 - Nanaimo River	160	Surficial	OW 436	2016 - 2024	FIGURE 44-C	Below to Average
			VOW 04	2013 - 2024	FIGURE 45-C	Average to Below
	161	Surficial	OW 312	2013 - 2022	FIGURE 46-C	-
			OW 437	2016 - 2024	FIGURE 47-C	Average
	162	Bedrock	OW 390	2013 - 2024	FIGURE 48-C	Above
			OW 432	2013 - 2024	FIGURE 49-C	Below
			VOW 06	2013 - 2024	FIGURE 50-C	Average
			VOW 19	2018 - 2024	FIGURE 51-C	Average
			VOW 22	2018 - 2024	FIGURE 52-C	Average
			VOW 23	2018 - 2024	FIGURE 53-C	Below
	163	Surficial	VOW 24	2018 - 2024	FIGURE 54-C	Below to Average
	165	Bedrock	OW 435	2014 - 2024	FIGURE 55-C	Above
			VOW 05	2013 - 2024	FIGURE 56-C	Above
WR7 - Gabriola Island	709	Bedrock	OW 196	2013 - 2024	FIGURE 57-C	Average to Above
			OW 197	2013 - 2024	FIGURE 58-C	Below
			OW 316	2013 - 2024	FIGURE 59-C	Above to Below
			OW 385	2013 - 2024	FIGURE 60-C	Below to Above
			VOW 08	2013 - 2024	FIGURE 61-C	Average

Note: Groundwater level trends are intentionally left blank for sites that do not have 2024 data.

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

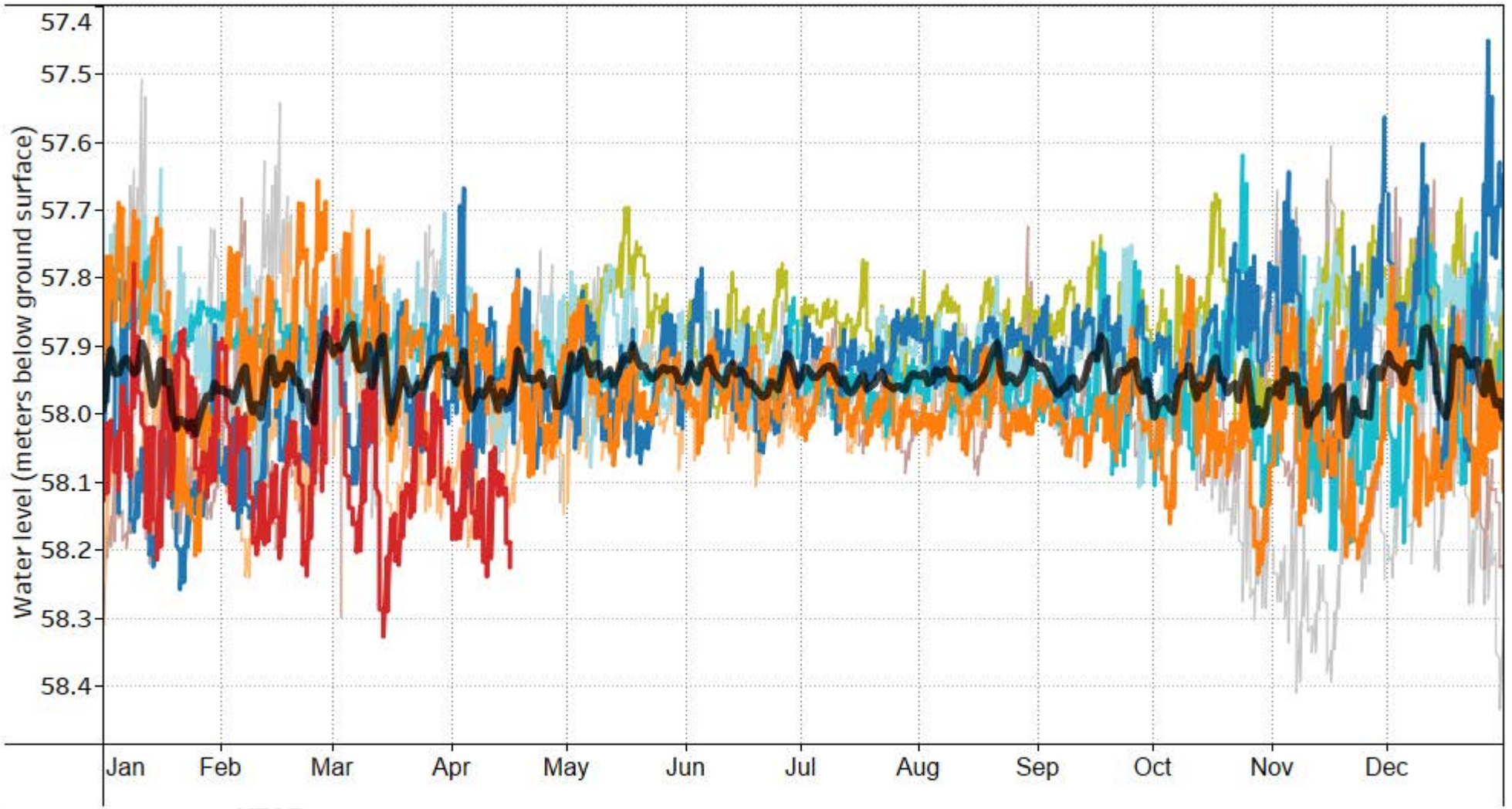
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 1-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from October 2013 to December 2023

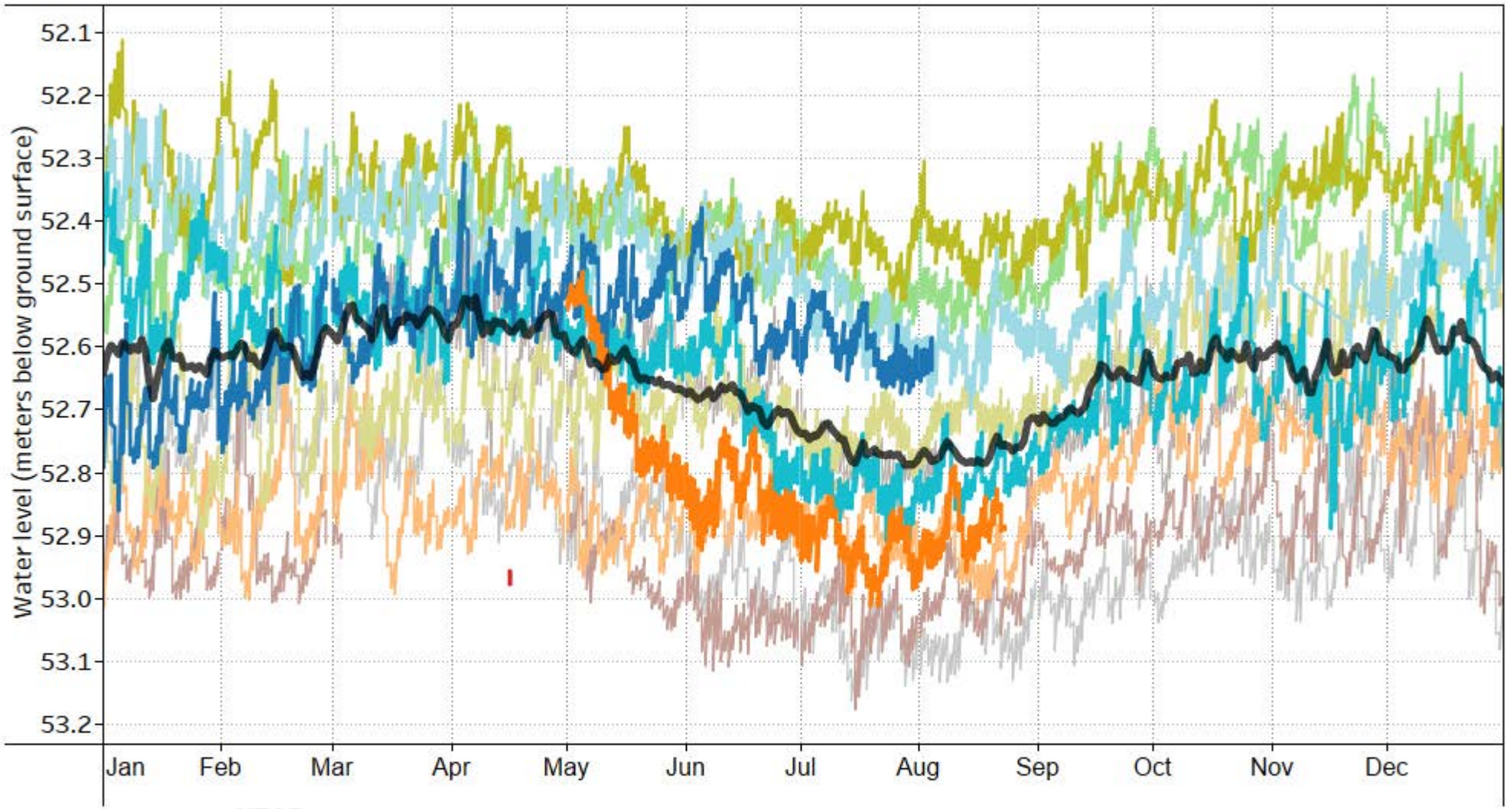
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 2-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from March 2013 to December 2023

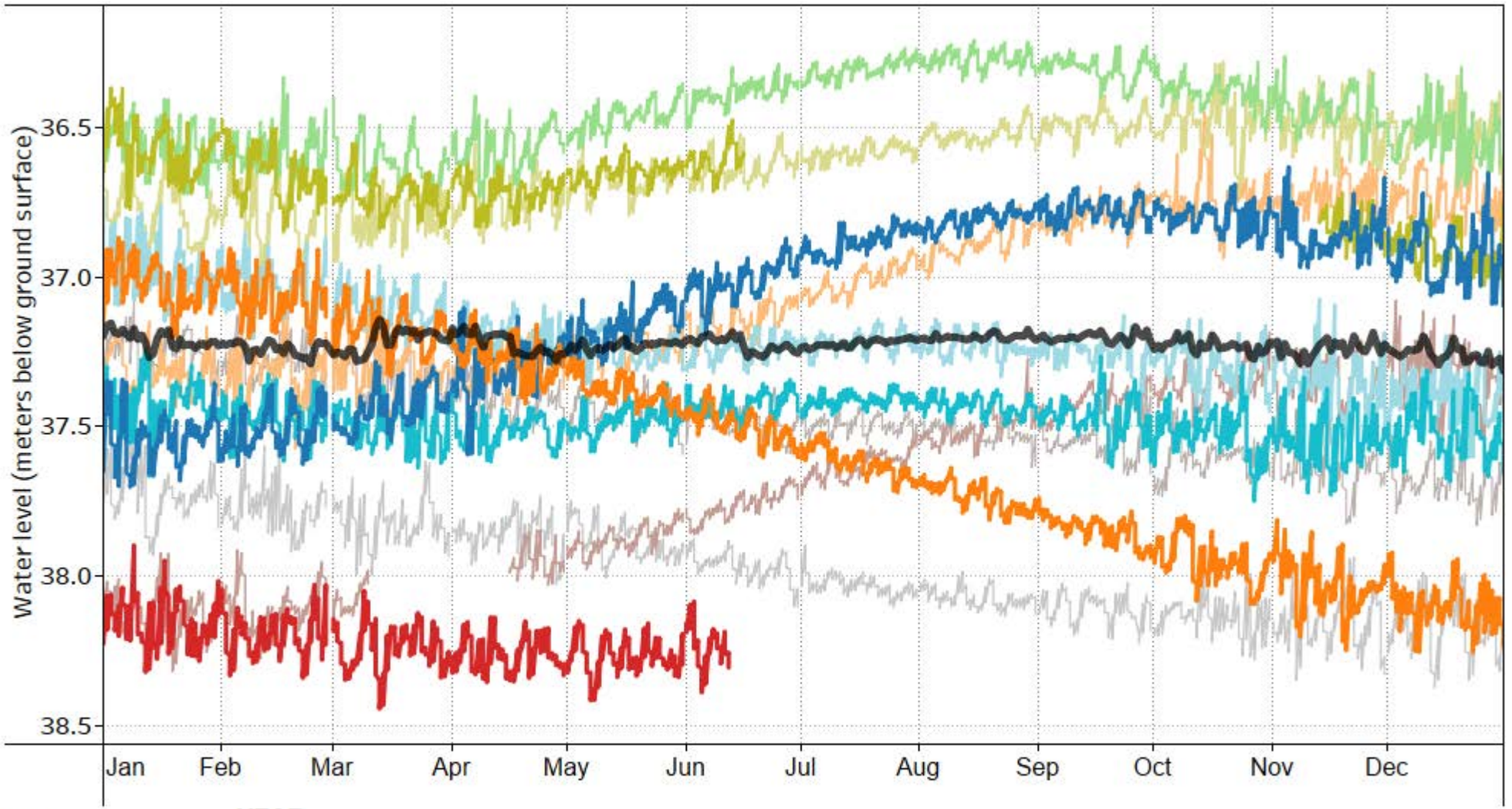
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 3-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

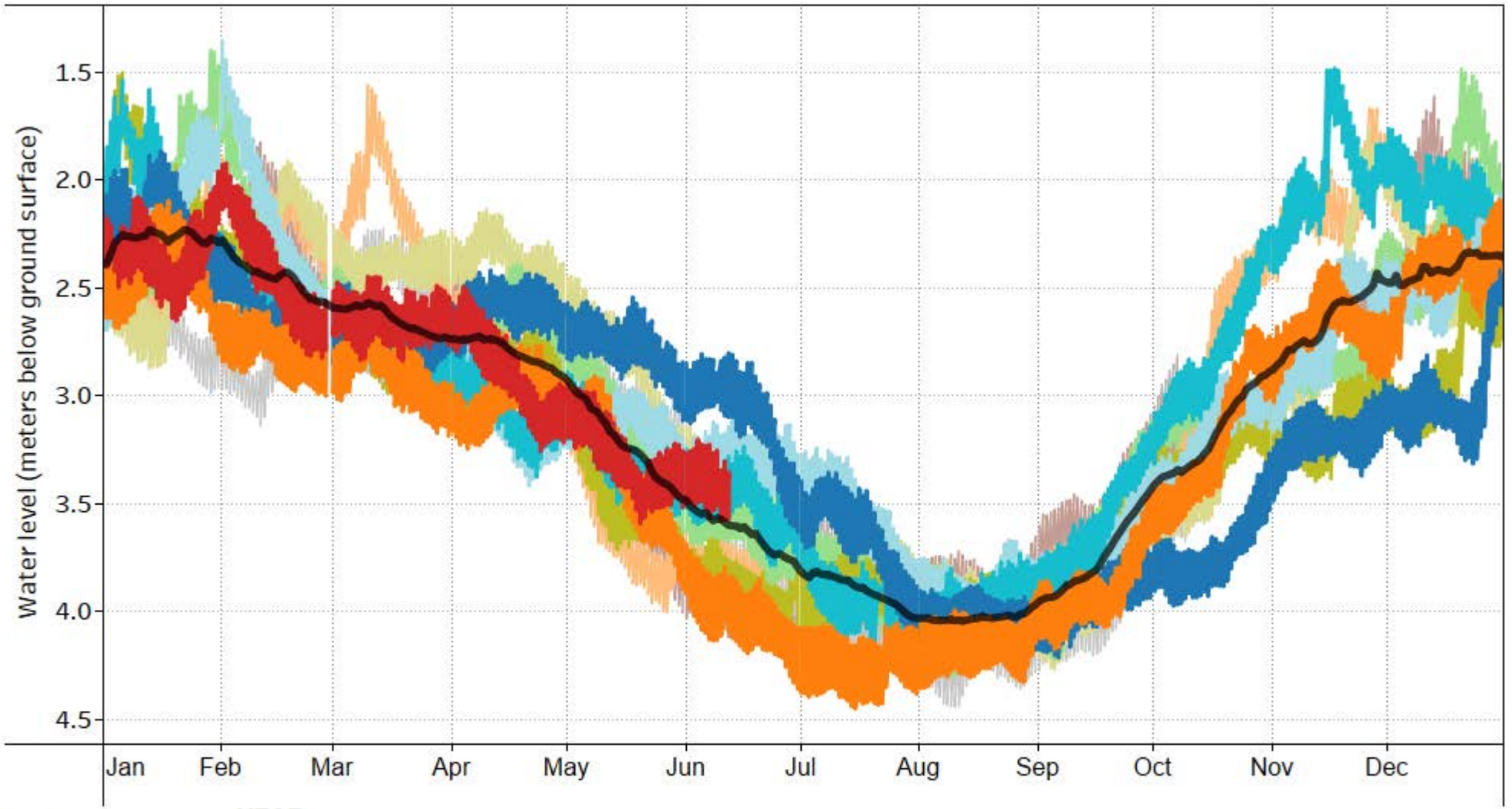
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 4-C

REGIONAL DISTRICT OF NANAIMO

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

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

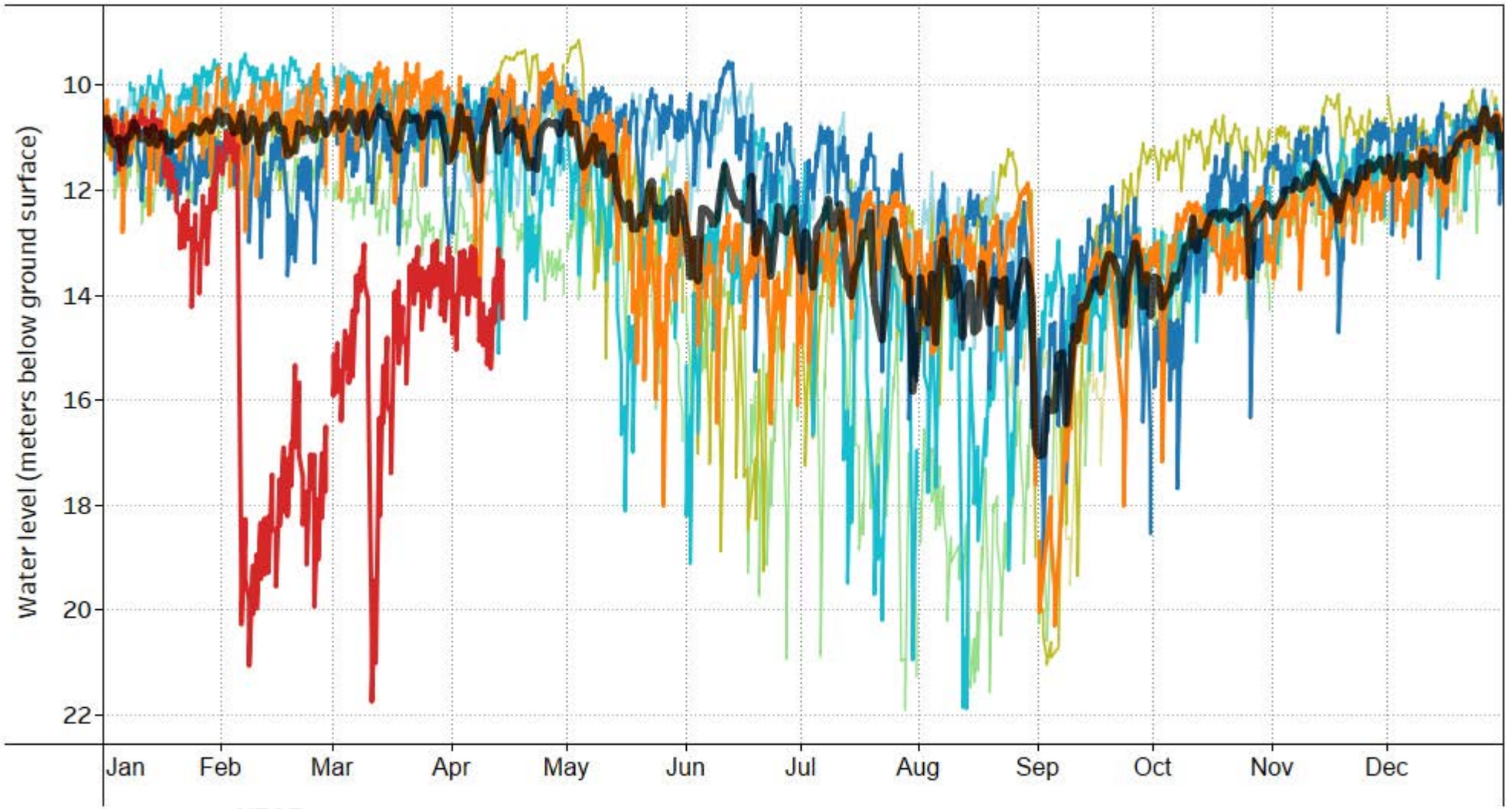
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 5-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 212 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

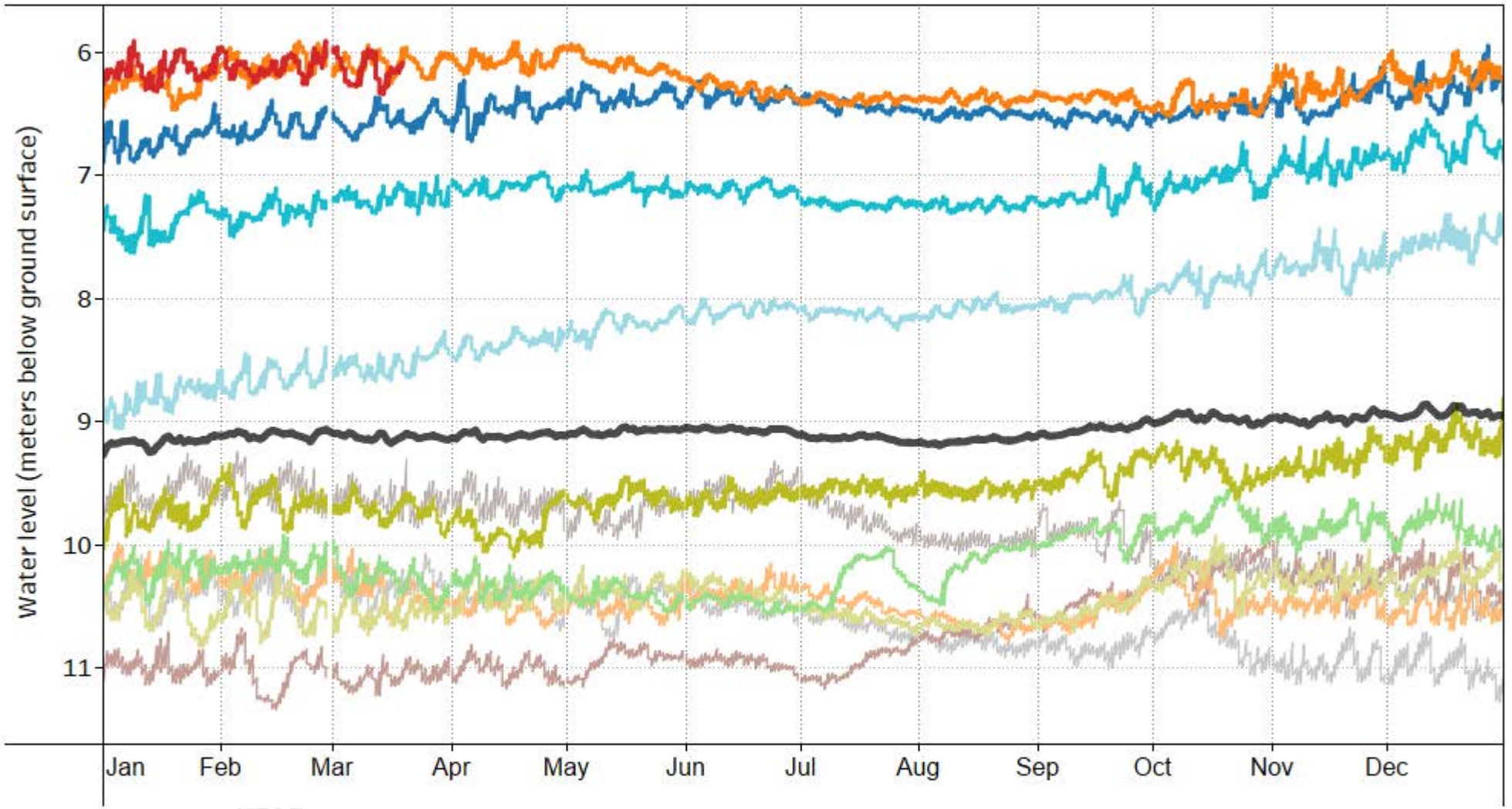
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 6-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- Average Groundwater Level

Data included from January 2013 to December 2023

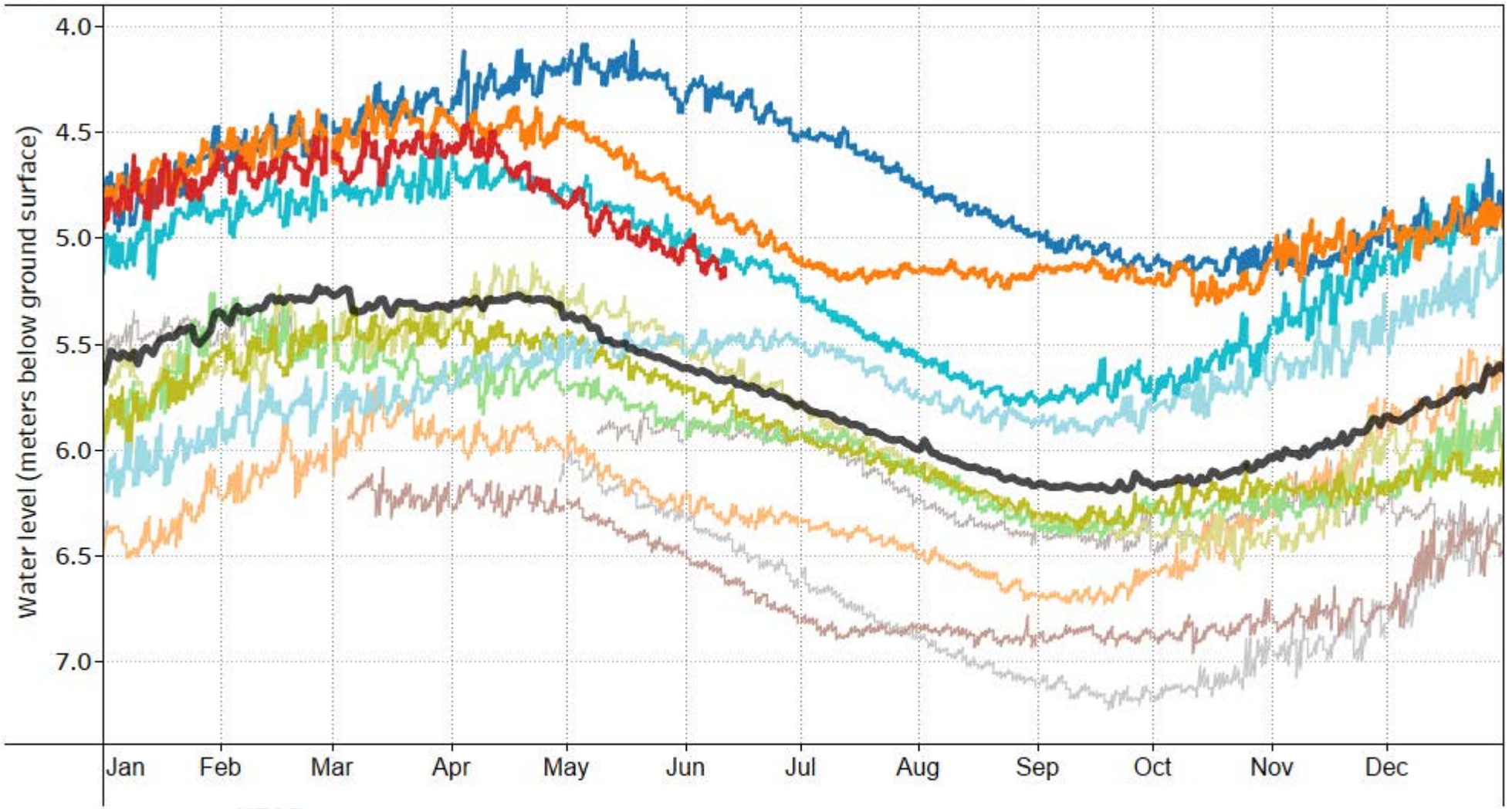
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 7-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

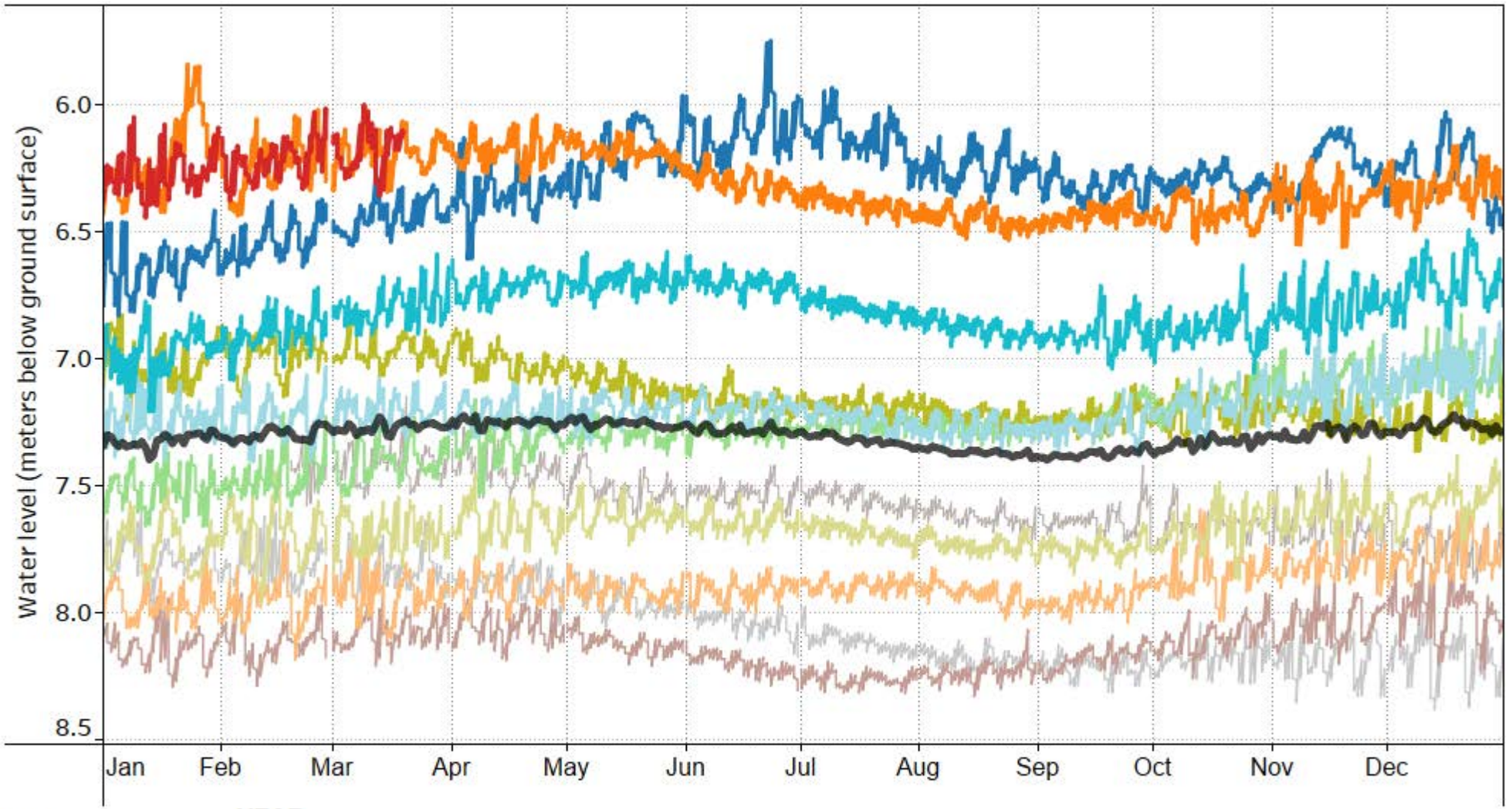
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 8-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from February 2013 to December 2023

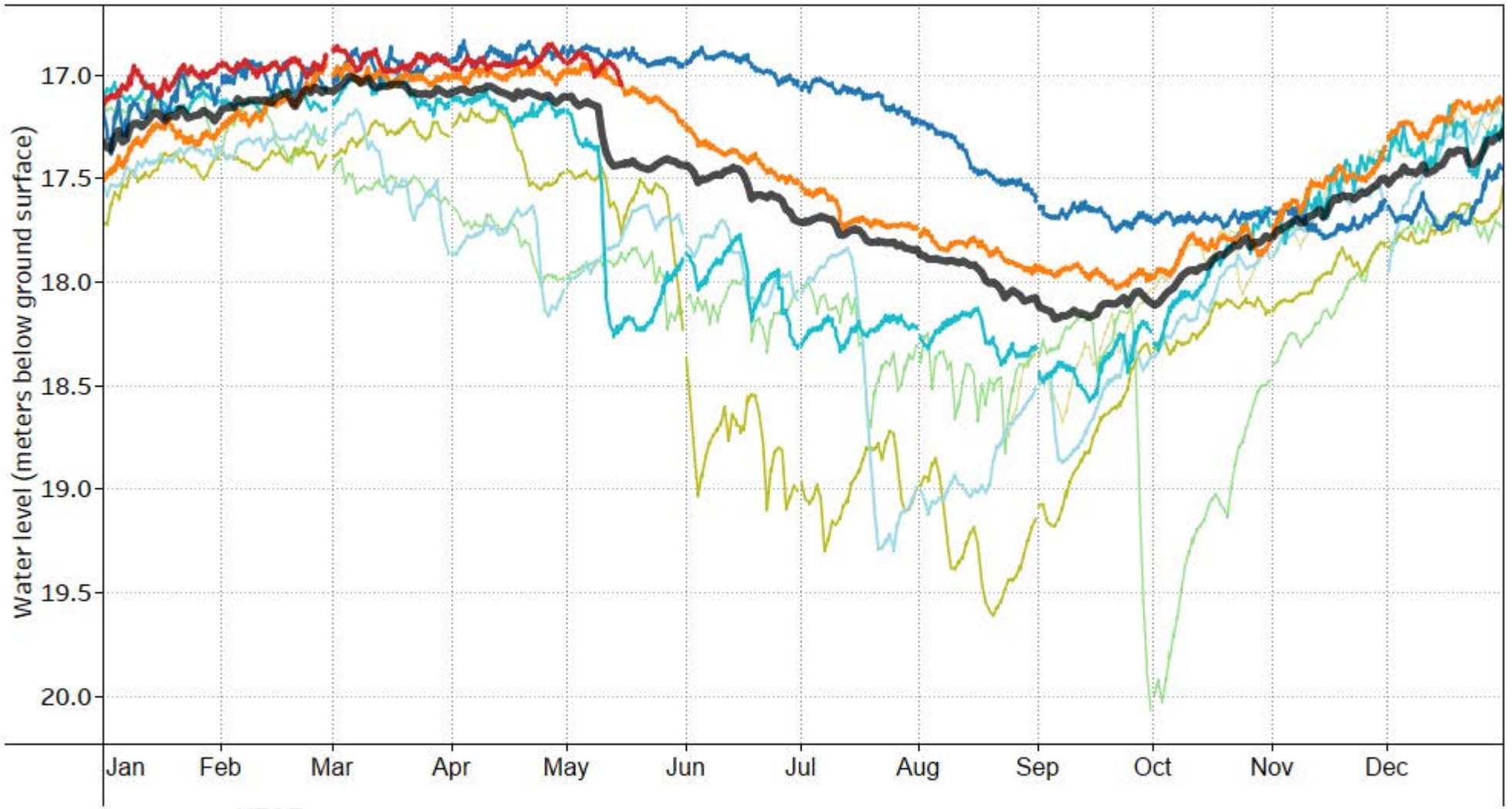
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 9-C

Regional District of Nanaimo

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

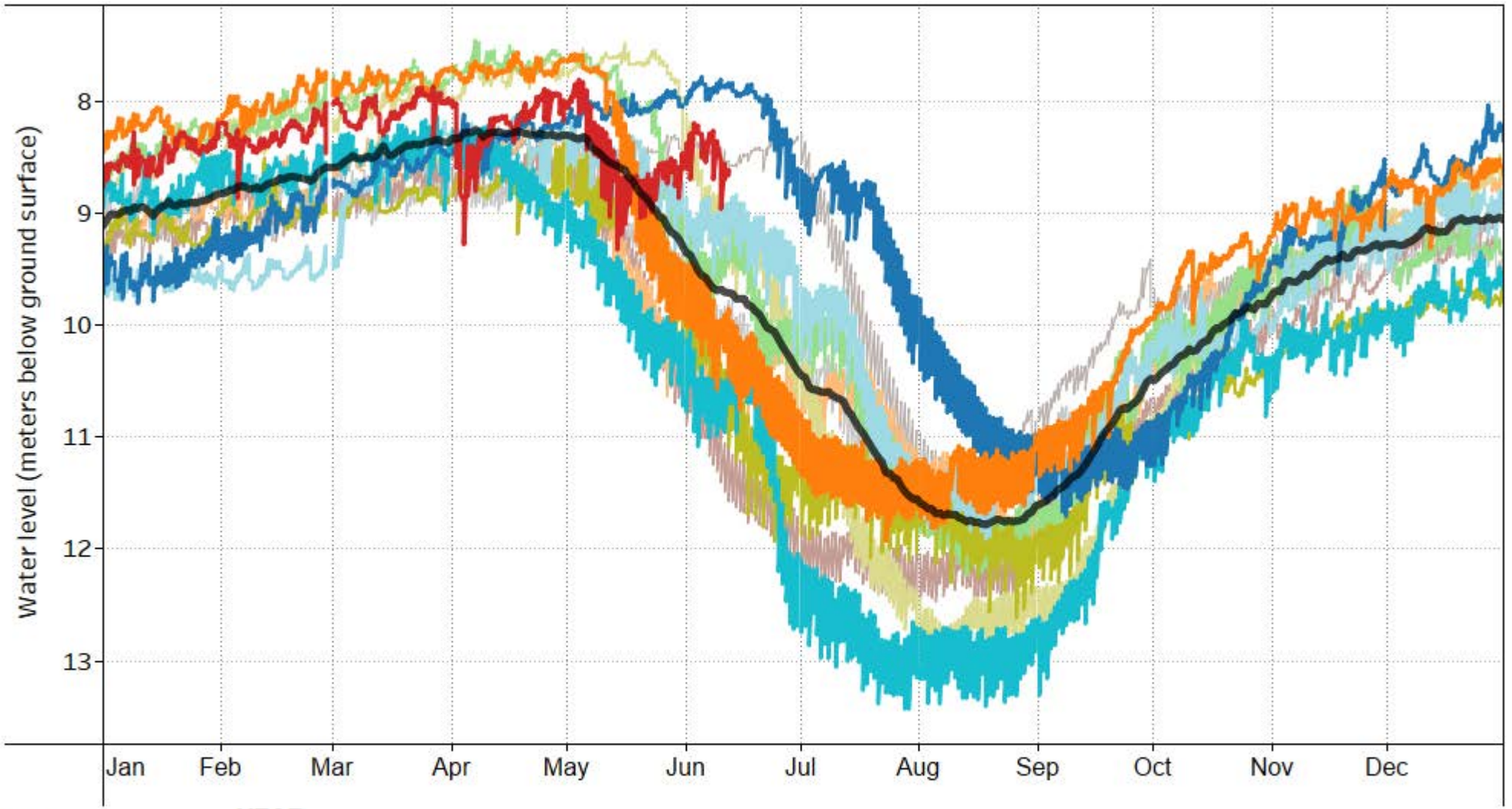
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 10-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

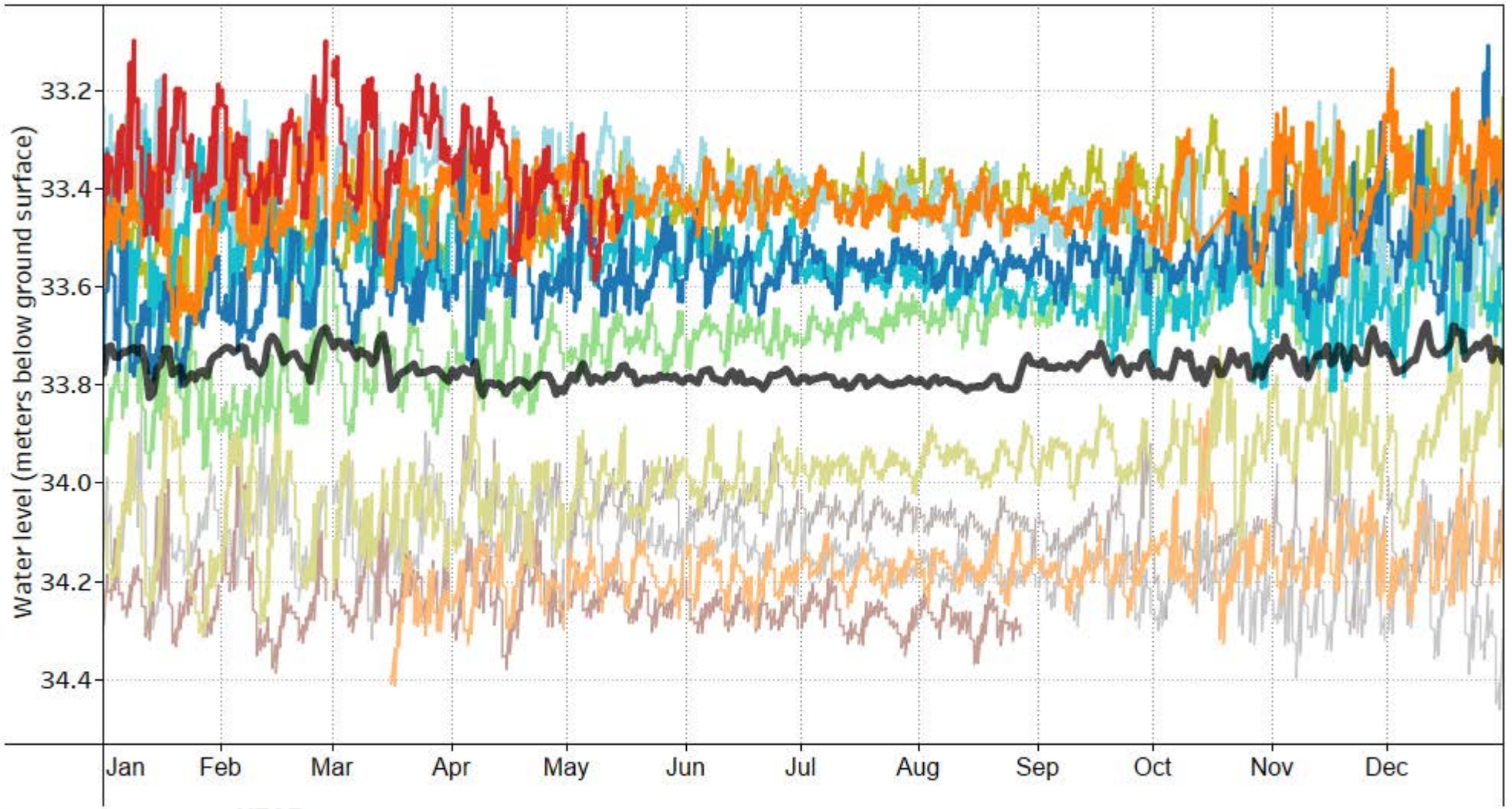
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 11-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

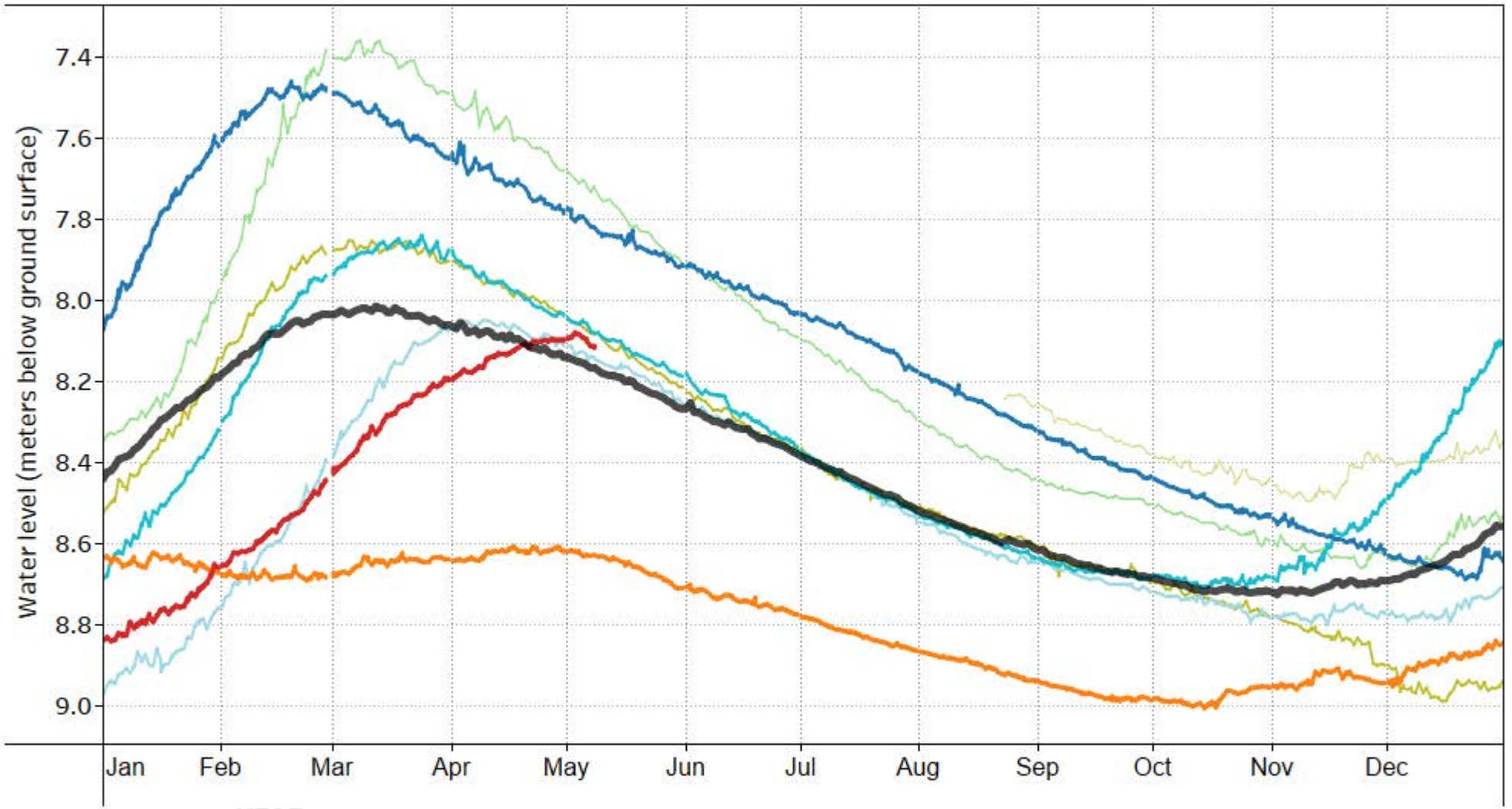
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 12-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

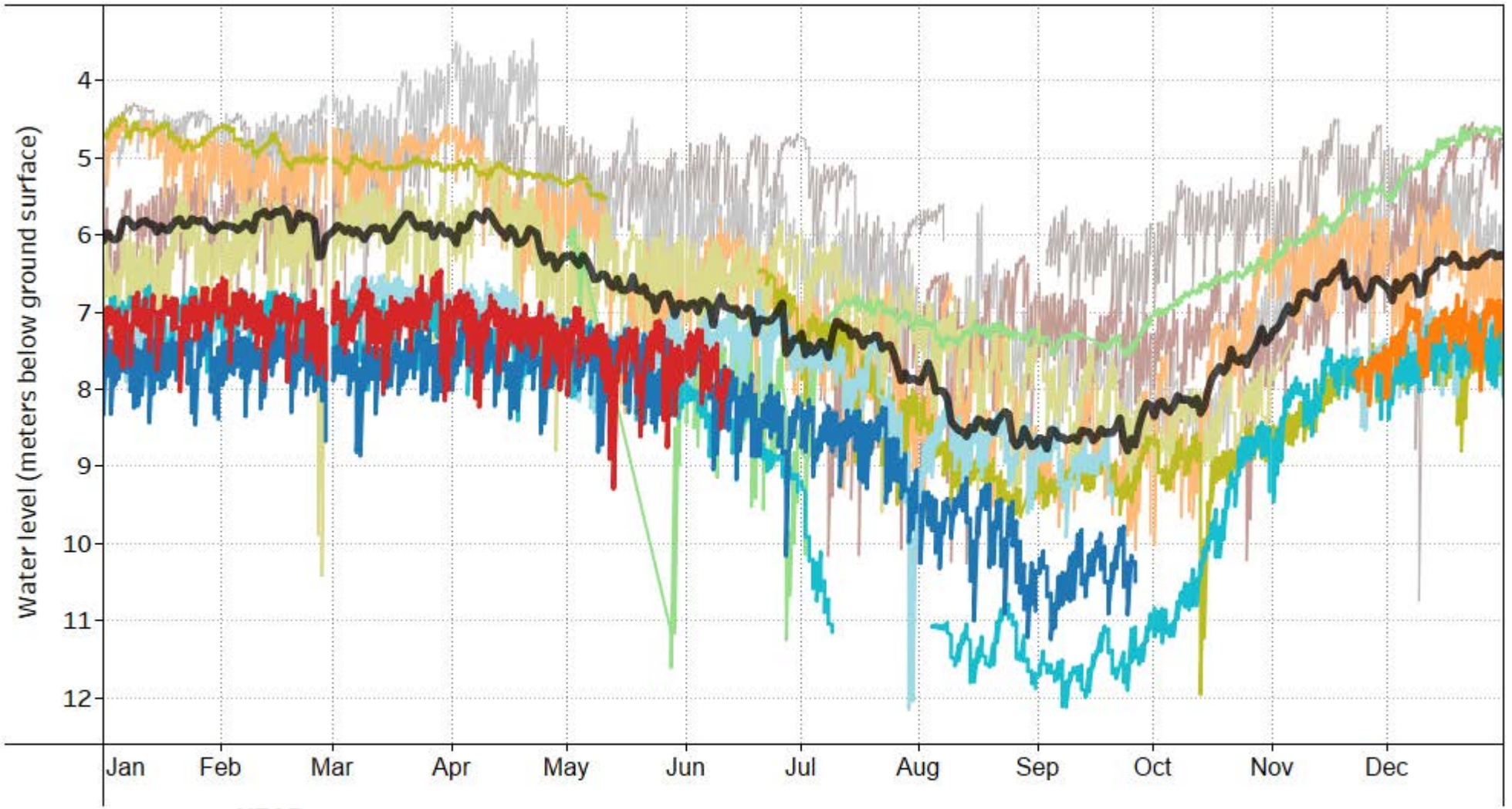
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 13-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 220 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

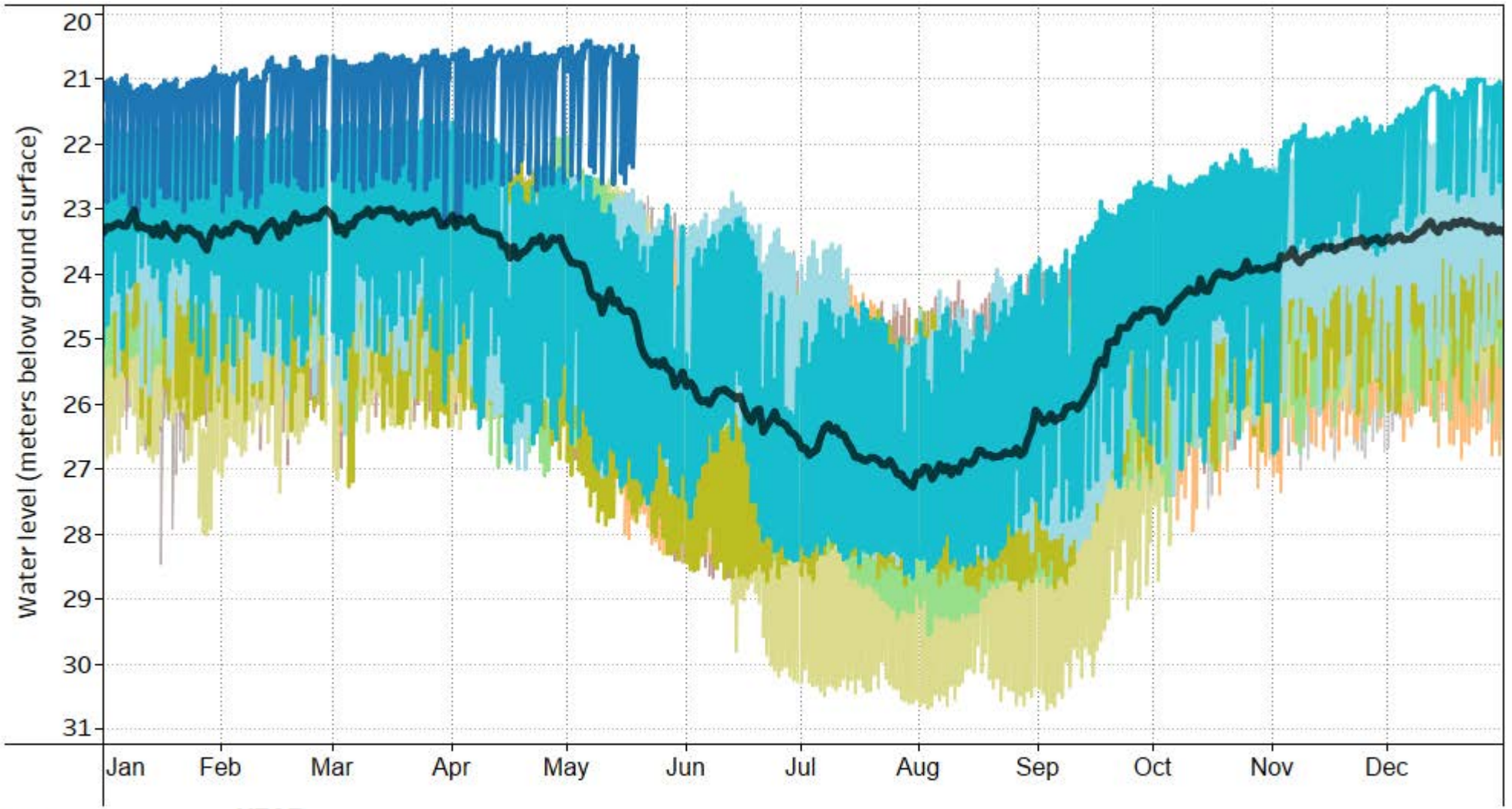
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 14-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2022	2017
2021	2016
2020	2015
2019	2014
2018	2013

Average Groundwater Level

Data included from January 2013 to May 2022

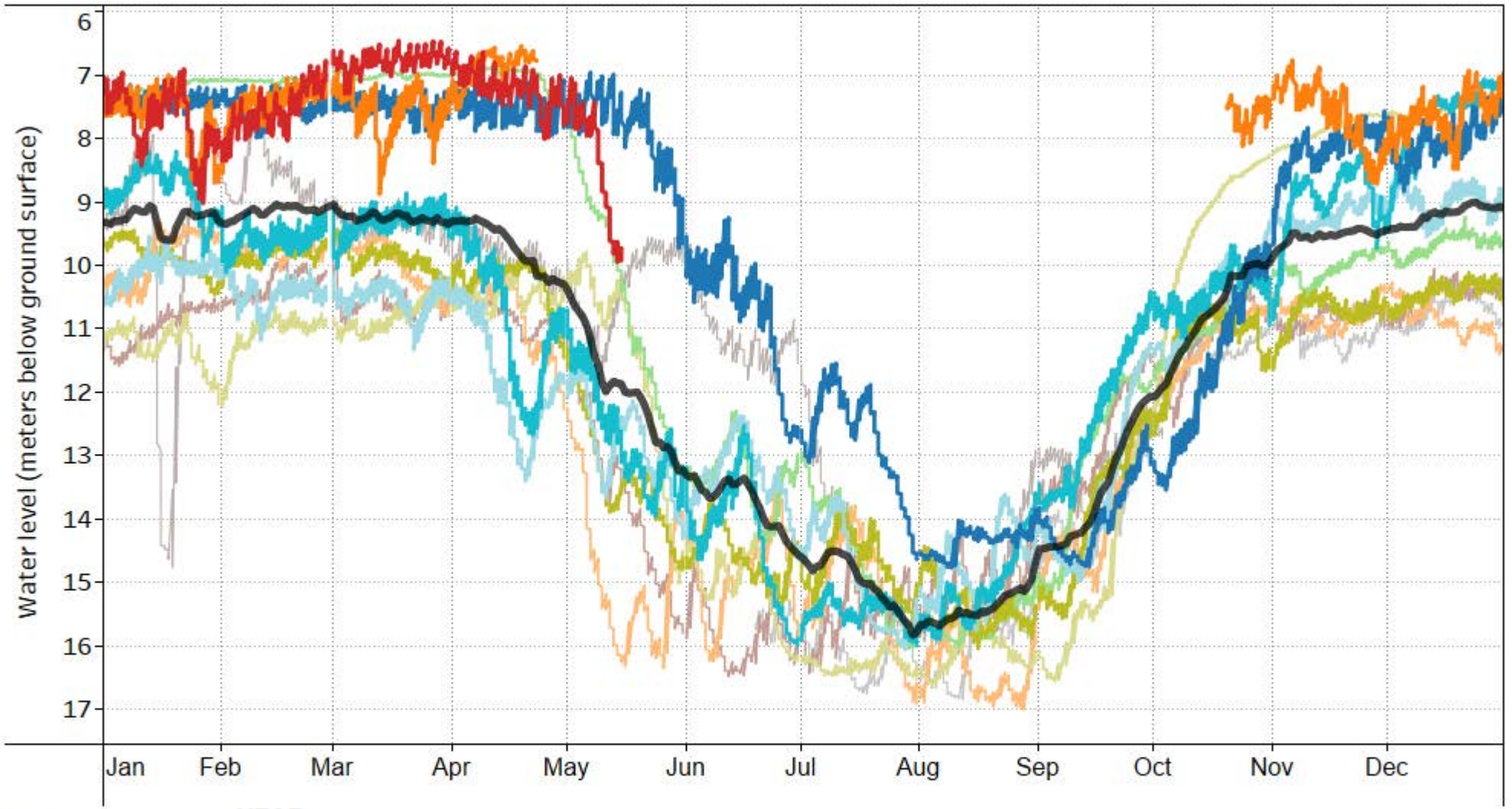
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 15-C

REGIONAL DISTRICT OF NANAIMO

OW 321 (WR3 - French Creek) Seasonal Static Water Level



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

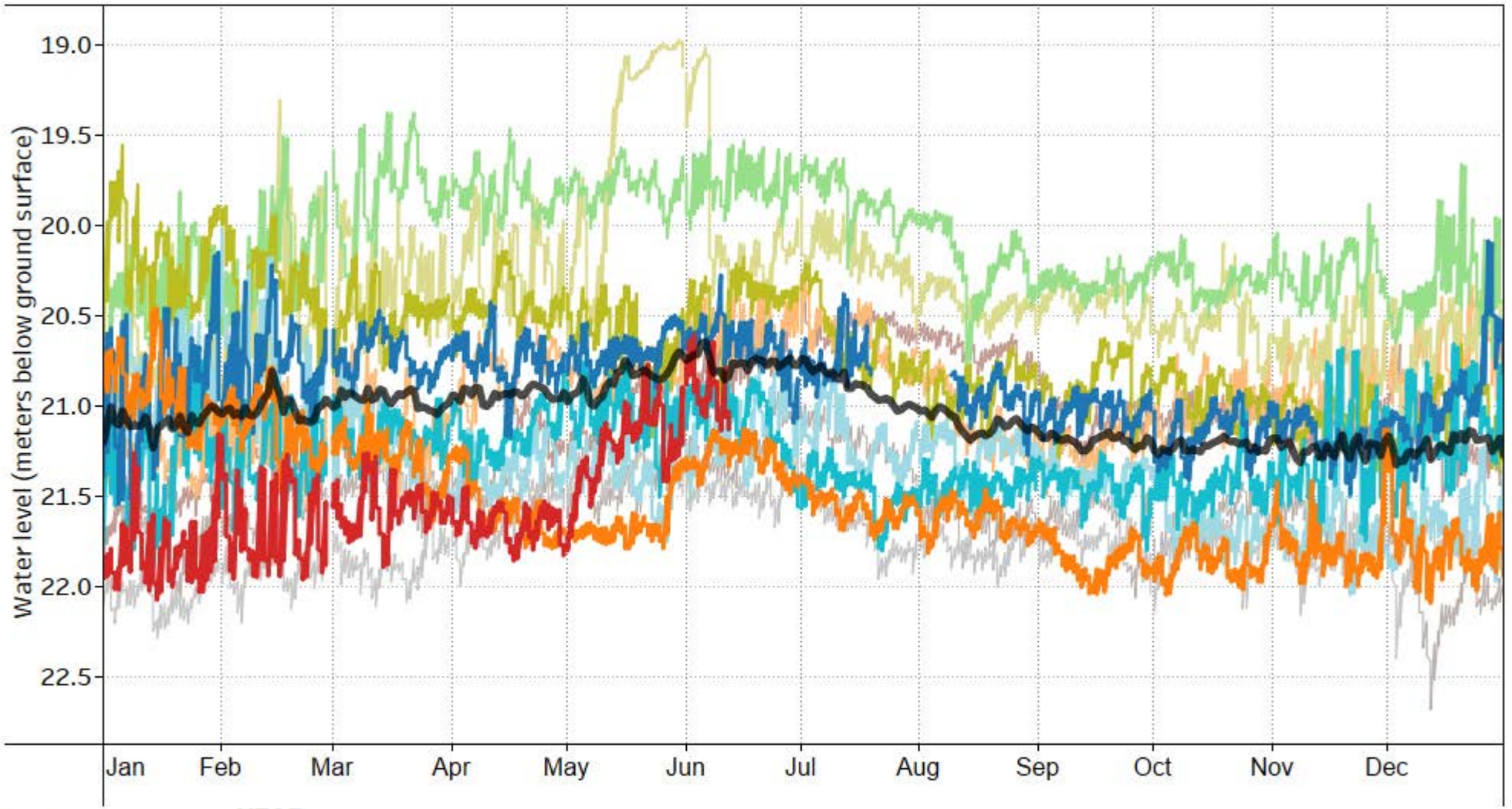
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

SEASONAL GROUNDWATER LEVEL CHART
OW 321 (WR3 - French Creek)

FIGURE 16-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

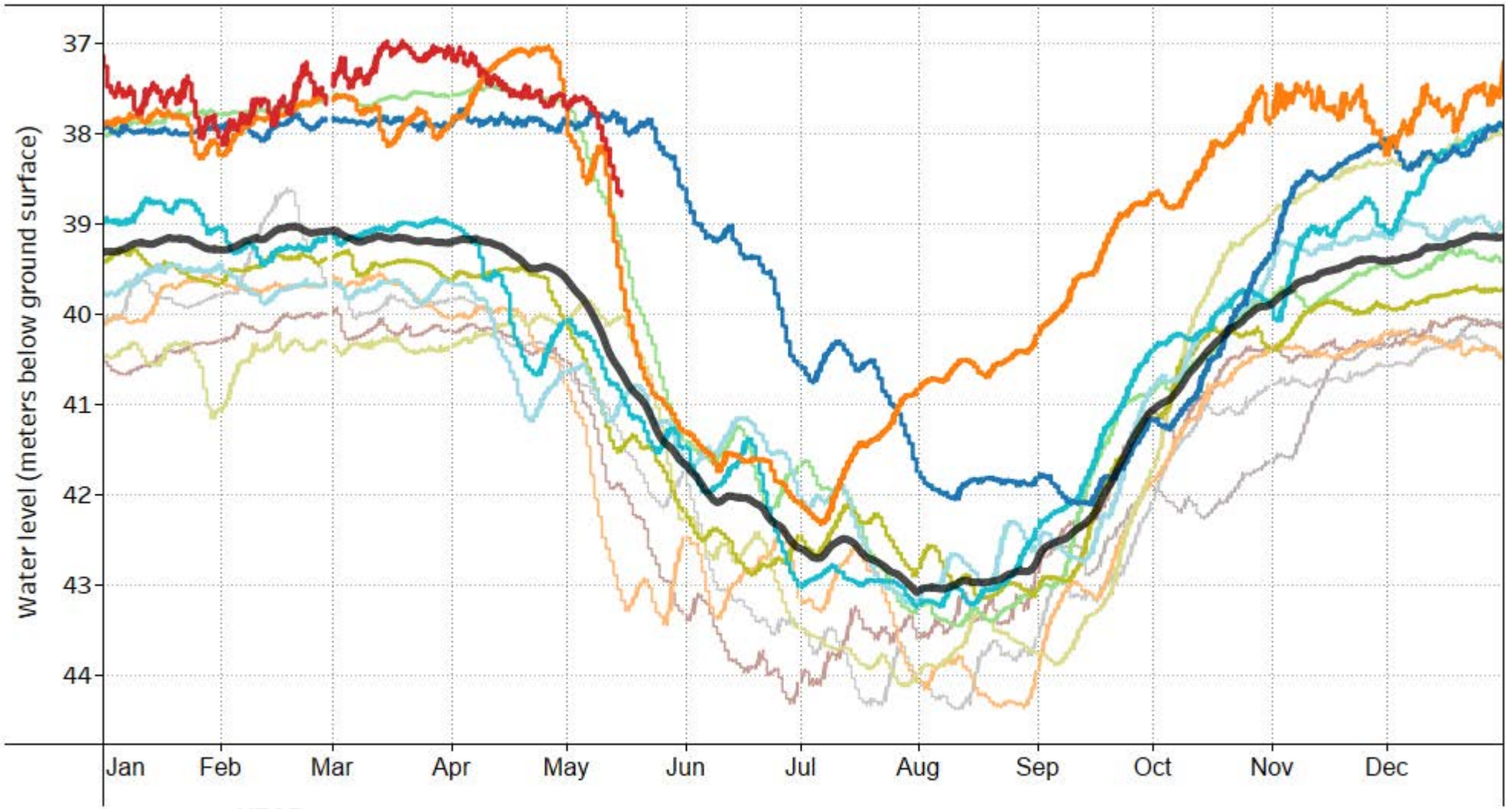
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 17-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 1250 (Confined sand and gravel - glacio-marine)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from September 2013 to December 2023

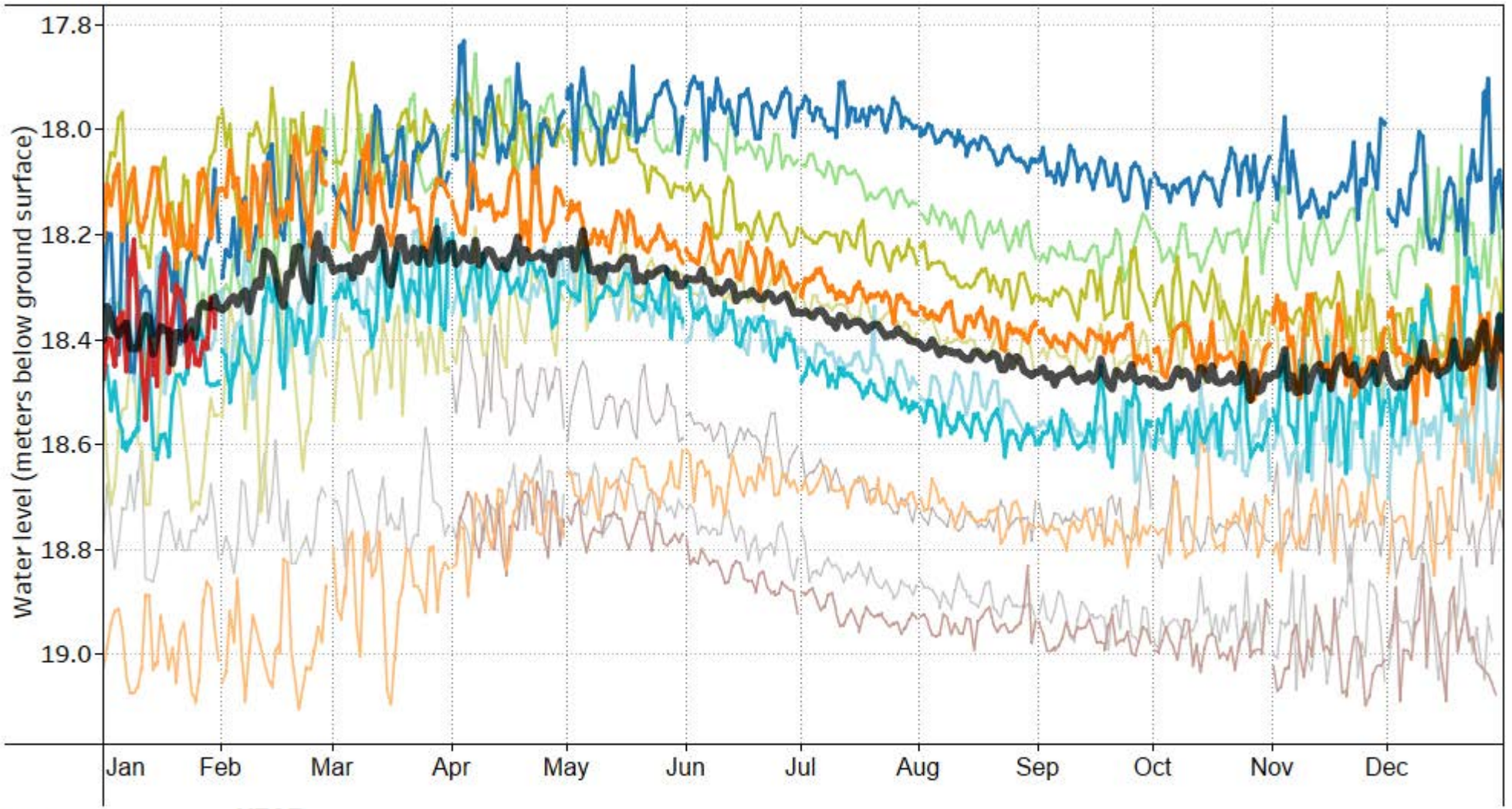
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 18-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

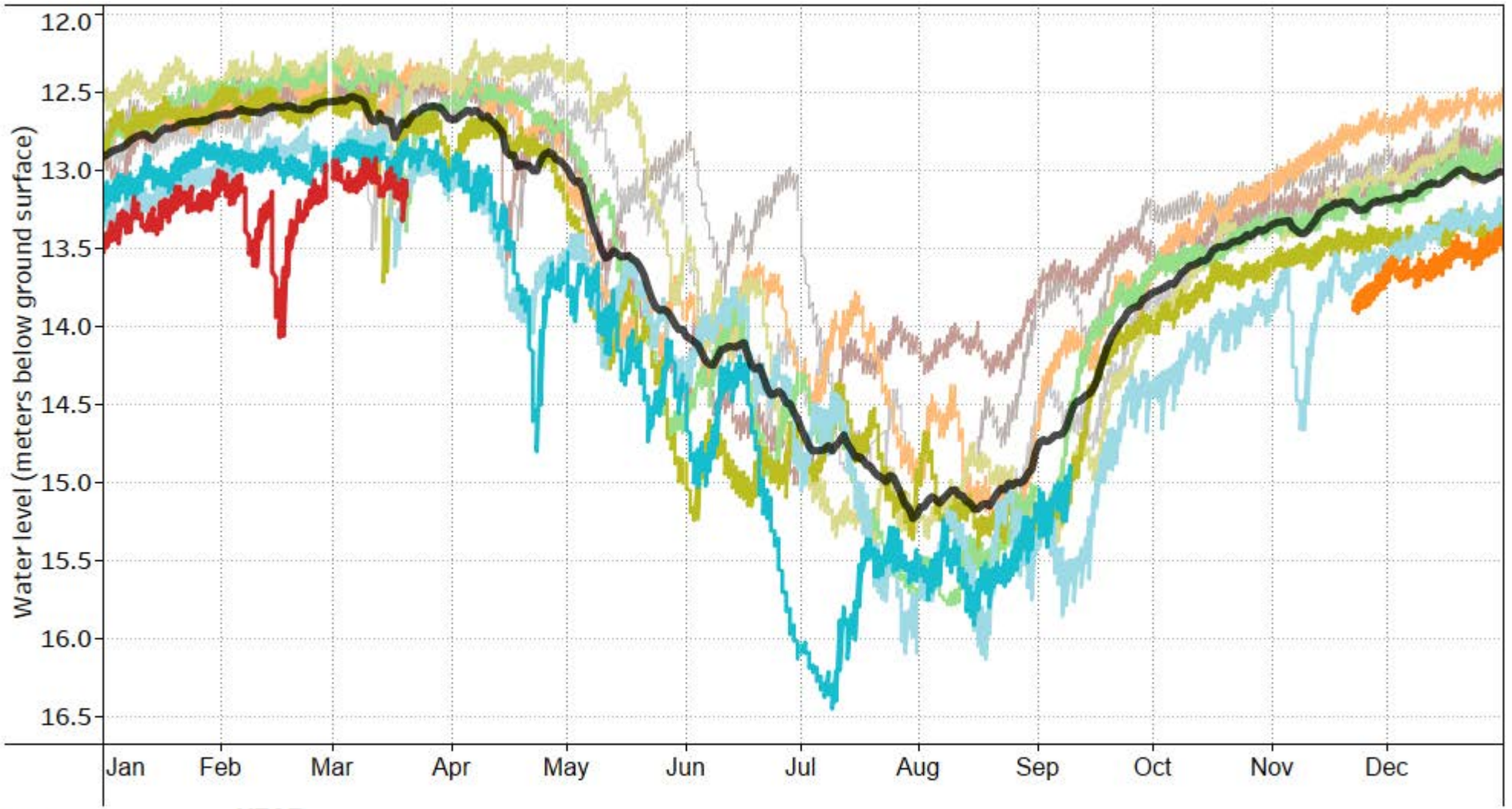
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 19-C

Regional District of Nanaimo

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



NOTES:

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

YEAR

2024	2018	2013
2023	2017	
2021	2016	
2020	2015	
2019	2014	

Average Groundwater Level

Data included from January 2013 to December 2023

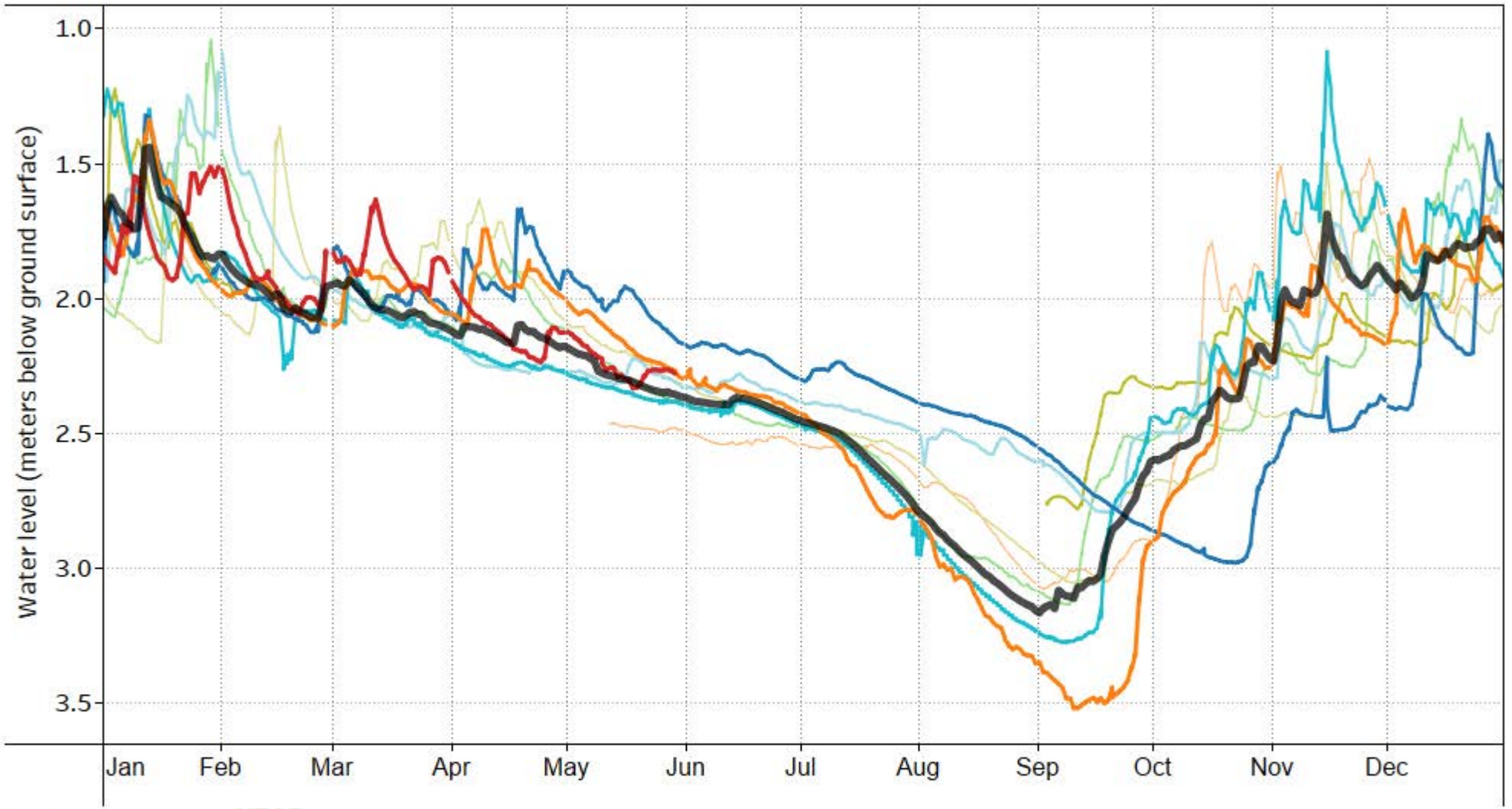
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 20-C

REGIONAL DISTRICT OF NANAIMO

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

Average Groundwater Level

Data included from May 2016 to December 2023

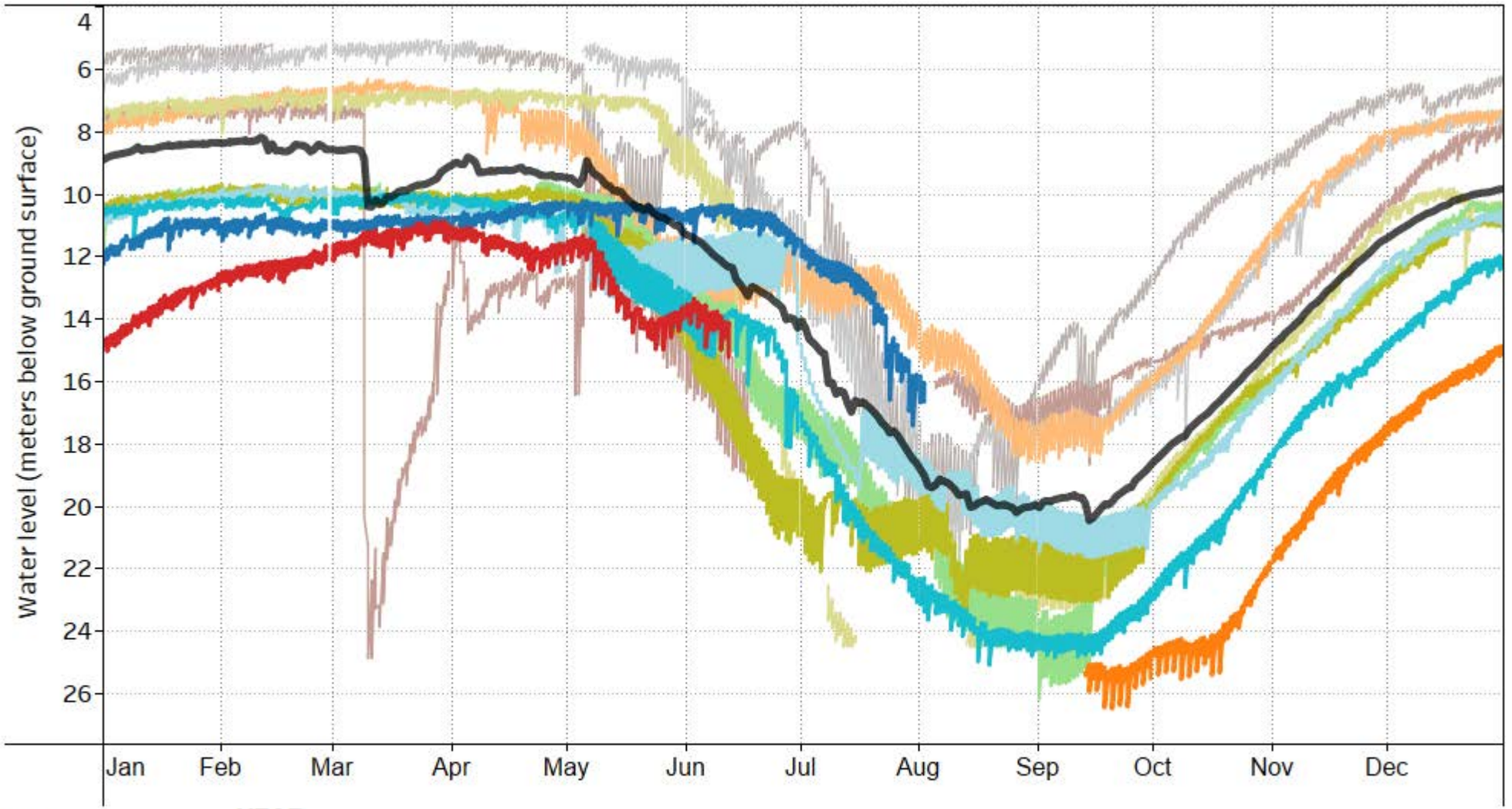
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 21-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 211 (Fractured crystalline bedrock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

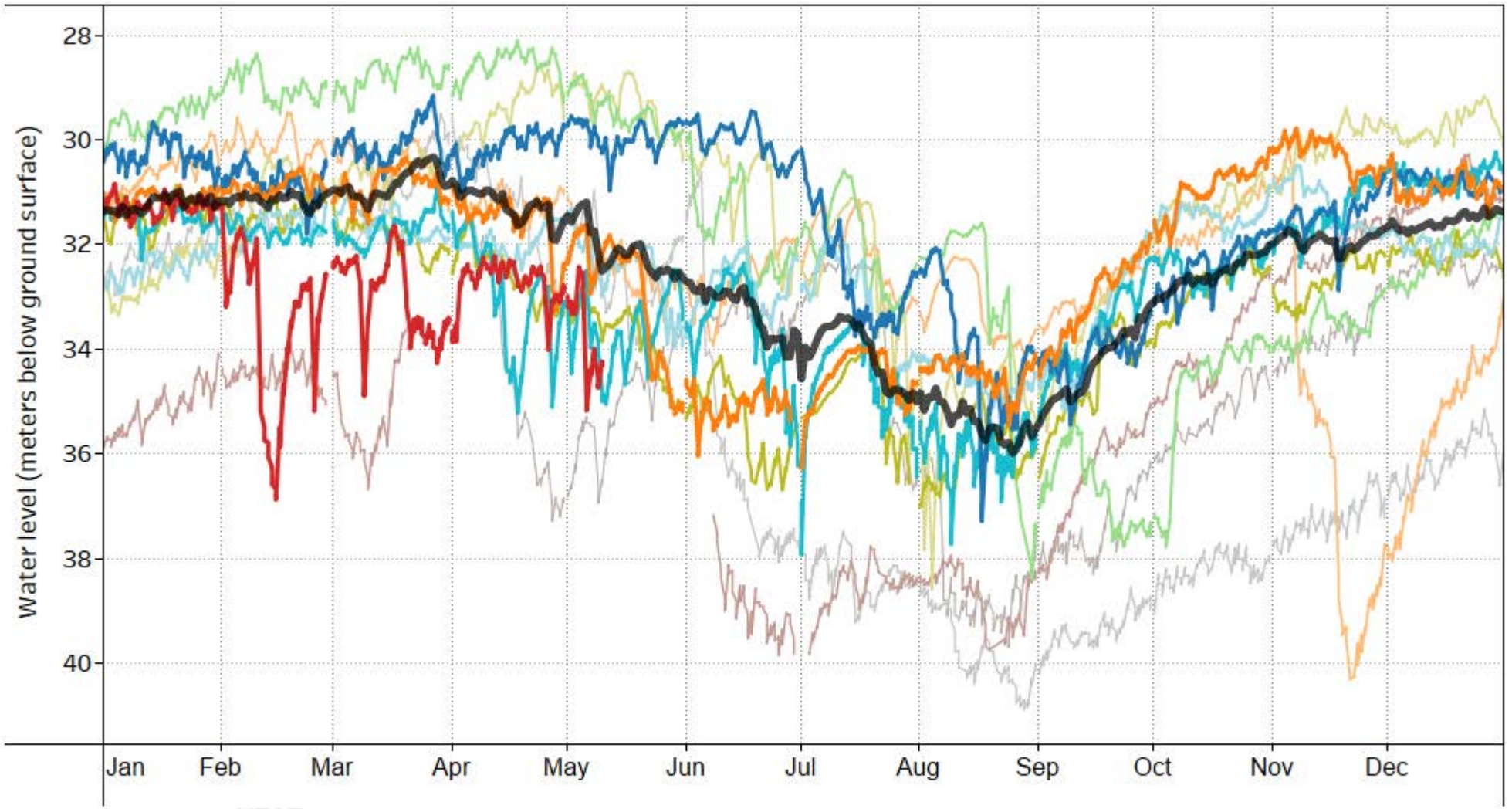
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 22-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

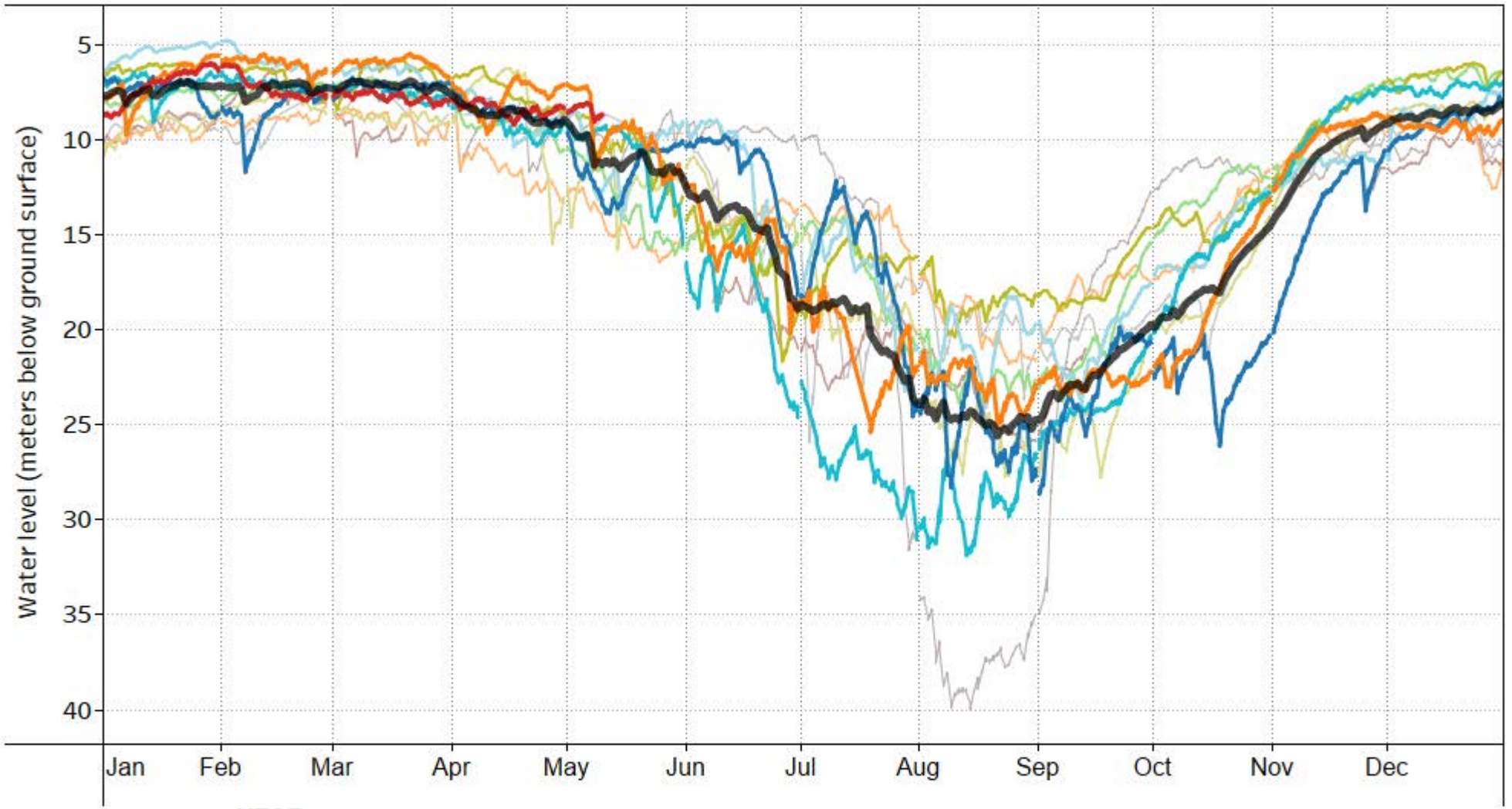
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 23-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

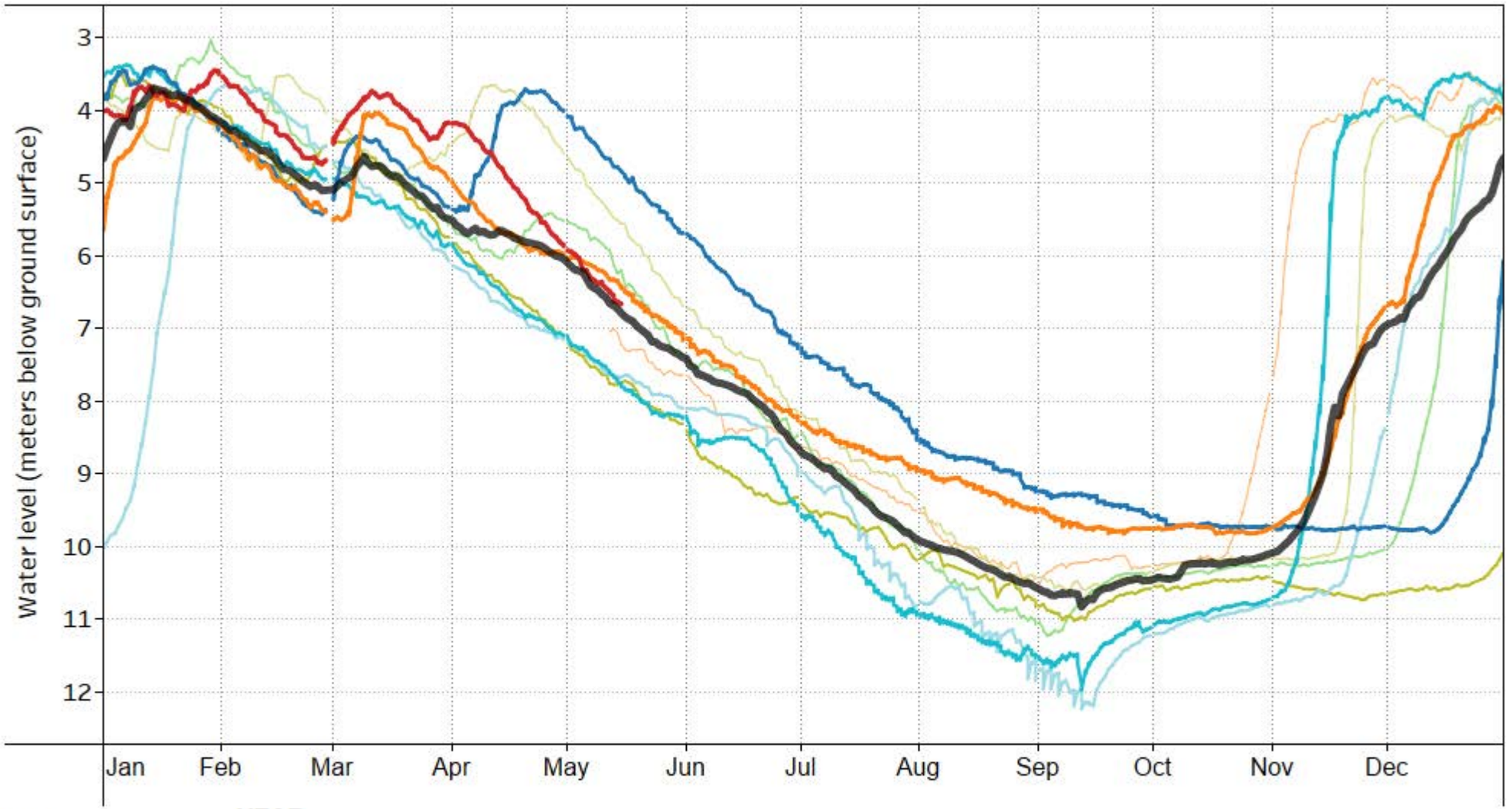
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 24-C

Regional District of Nanaimo

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



NOTES:

Observation Well Associated with Aquifer 213 (Fractured crystalline bedrock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016

Average Groundwater Level

Data included from May 2016 to December 2023

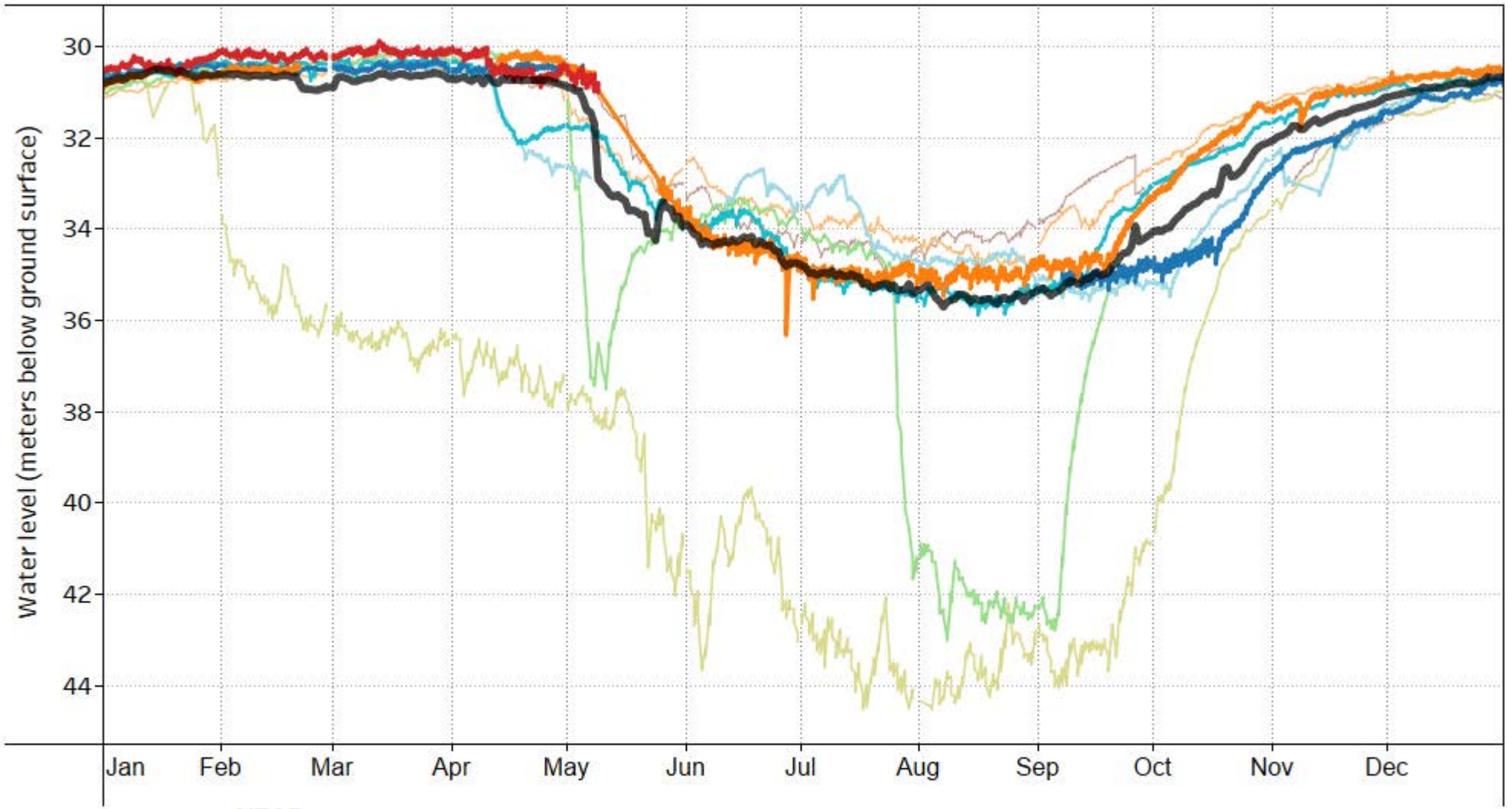
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 25-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

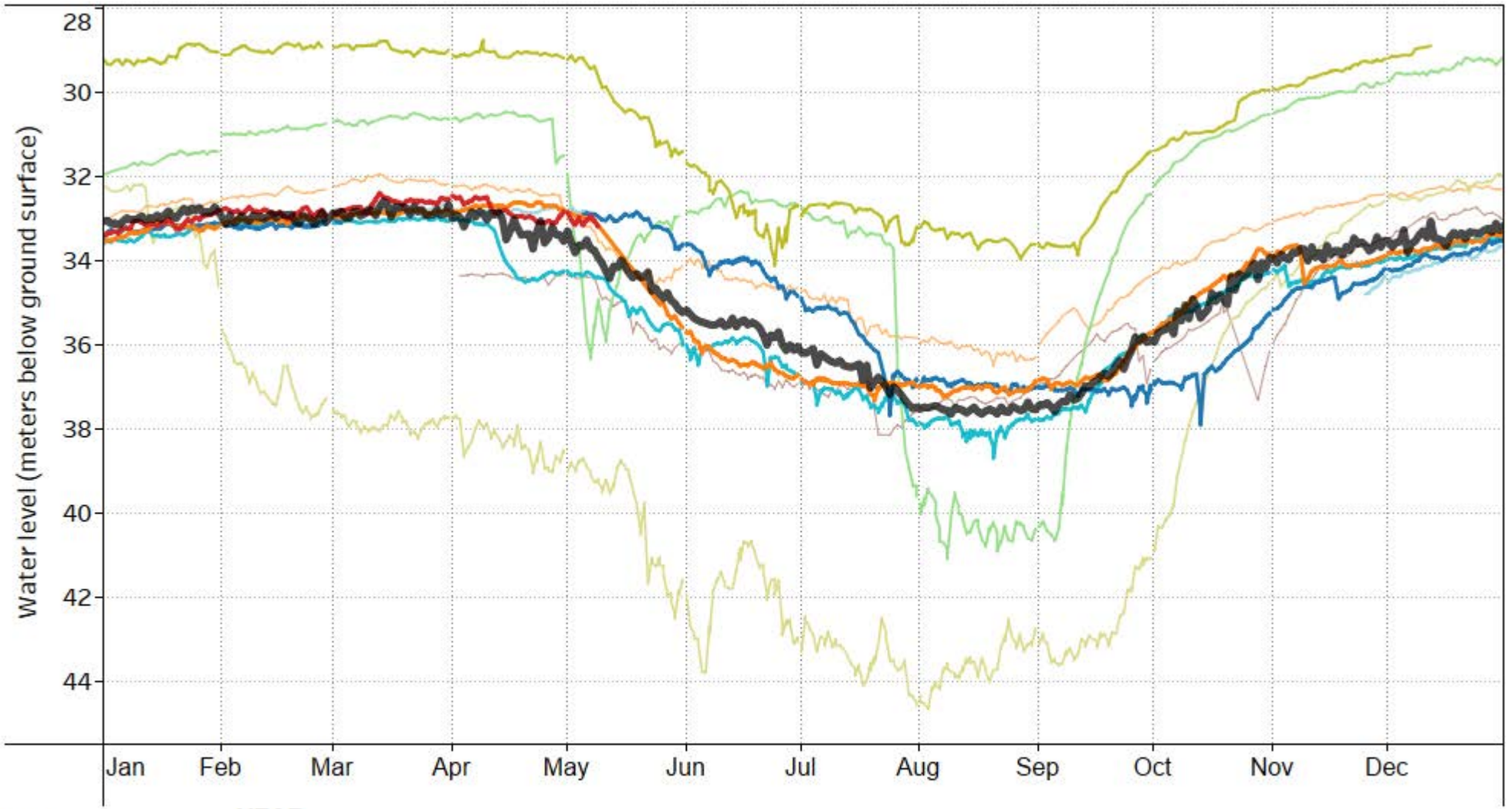
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 26-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

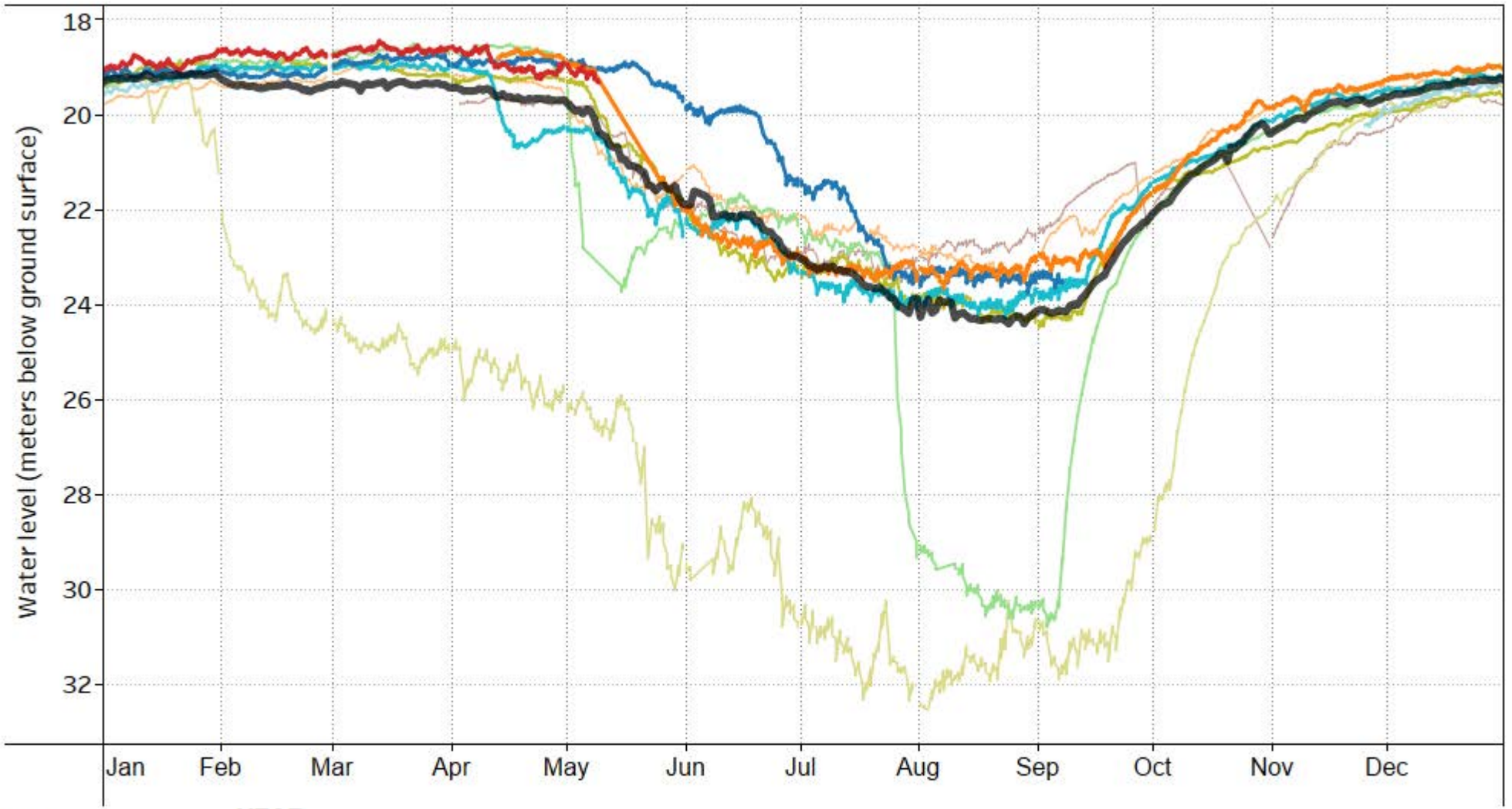
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 27-C

Regional District of Nanaimo

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

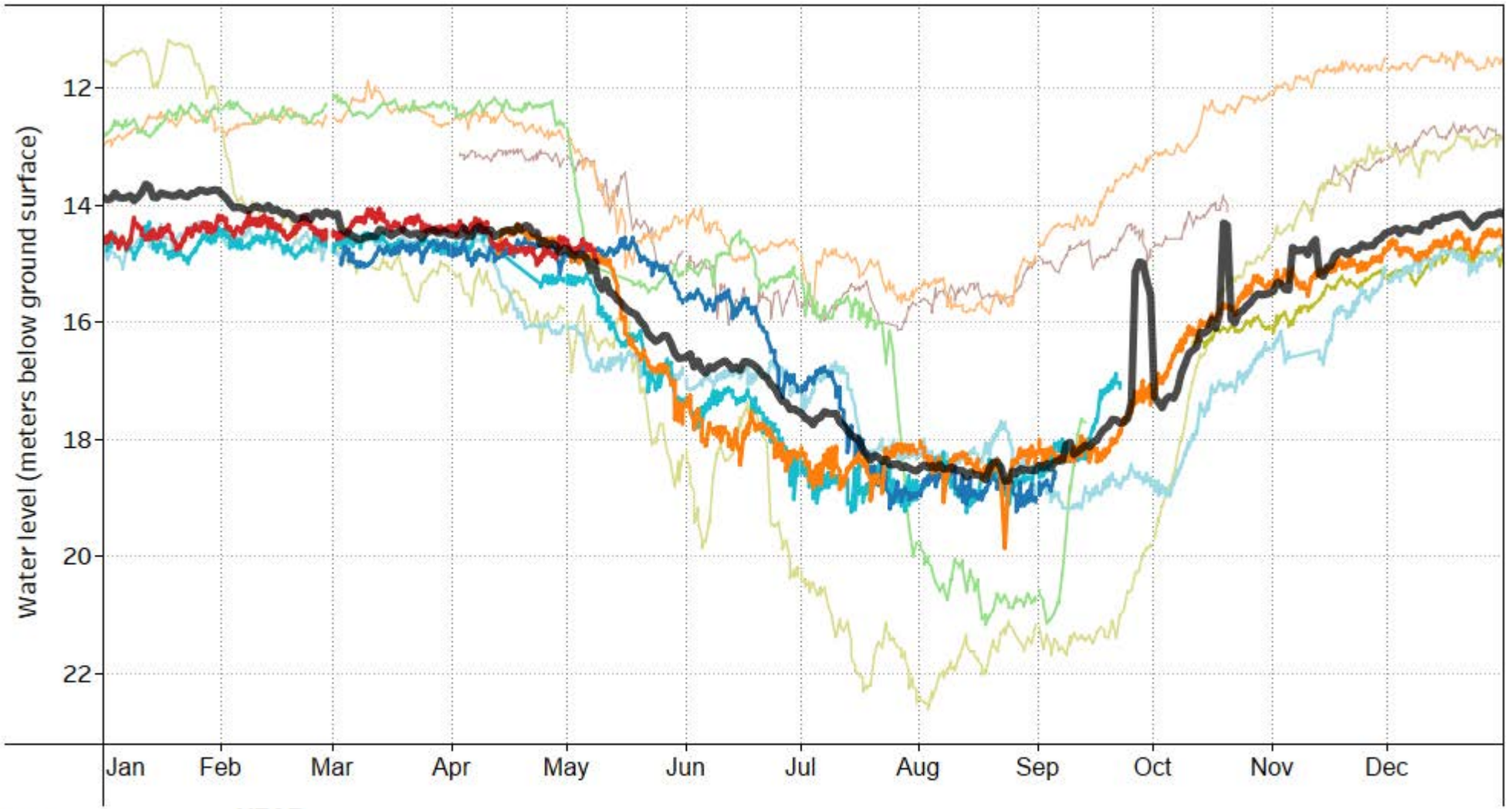
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 28-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

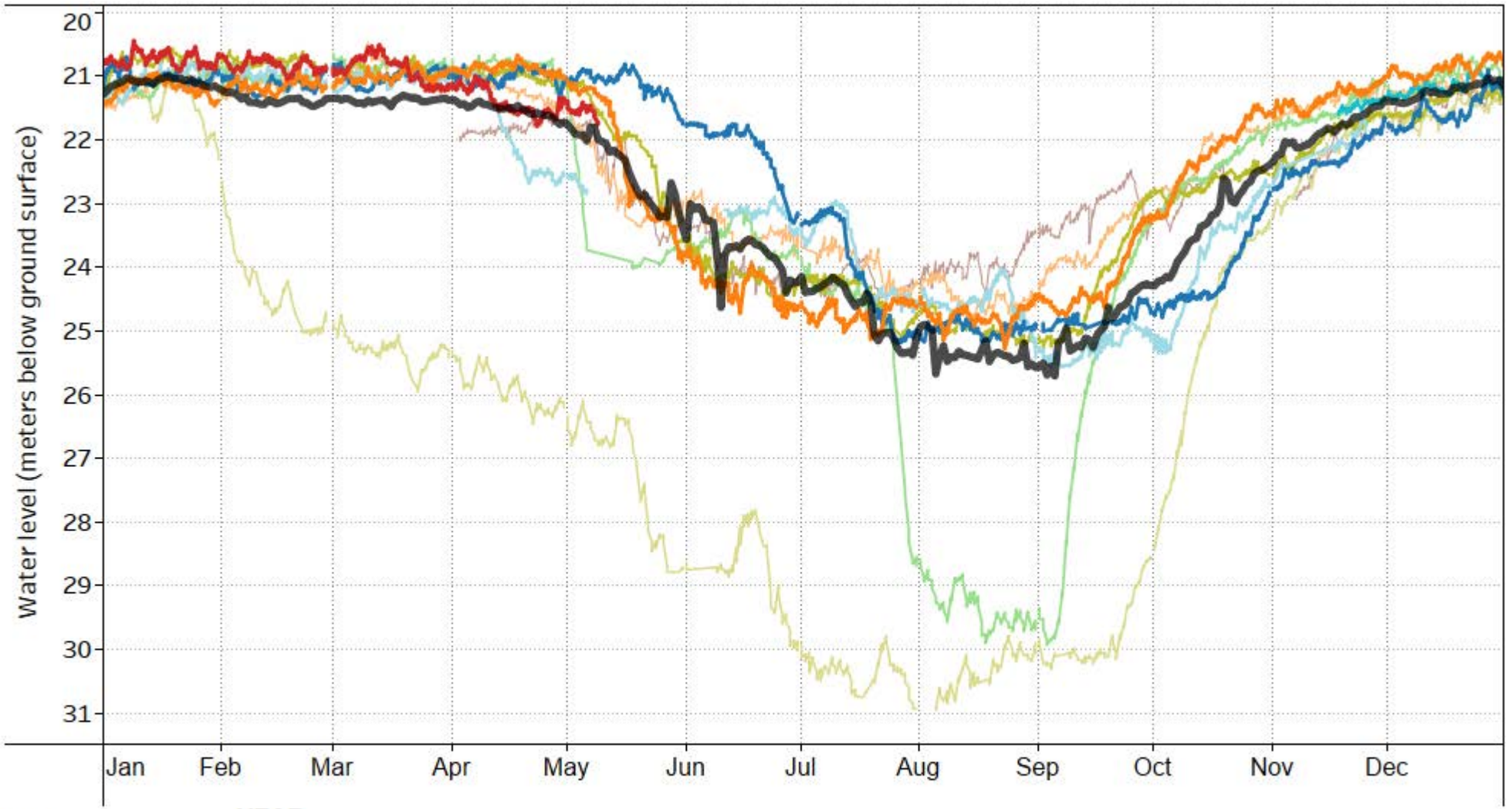
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 29-C

Regional District of Nanaimo

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



NOTES:

Observation Well Associated with Aquifer 214 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

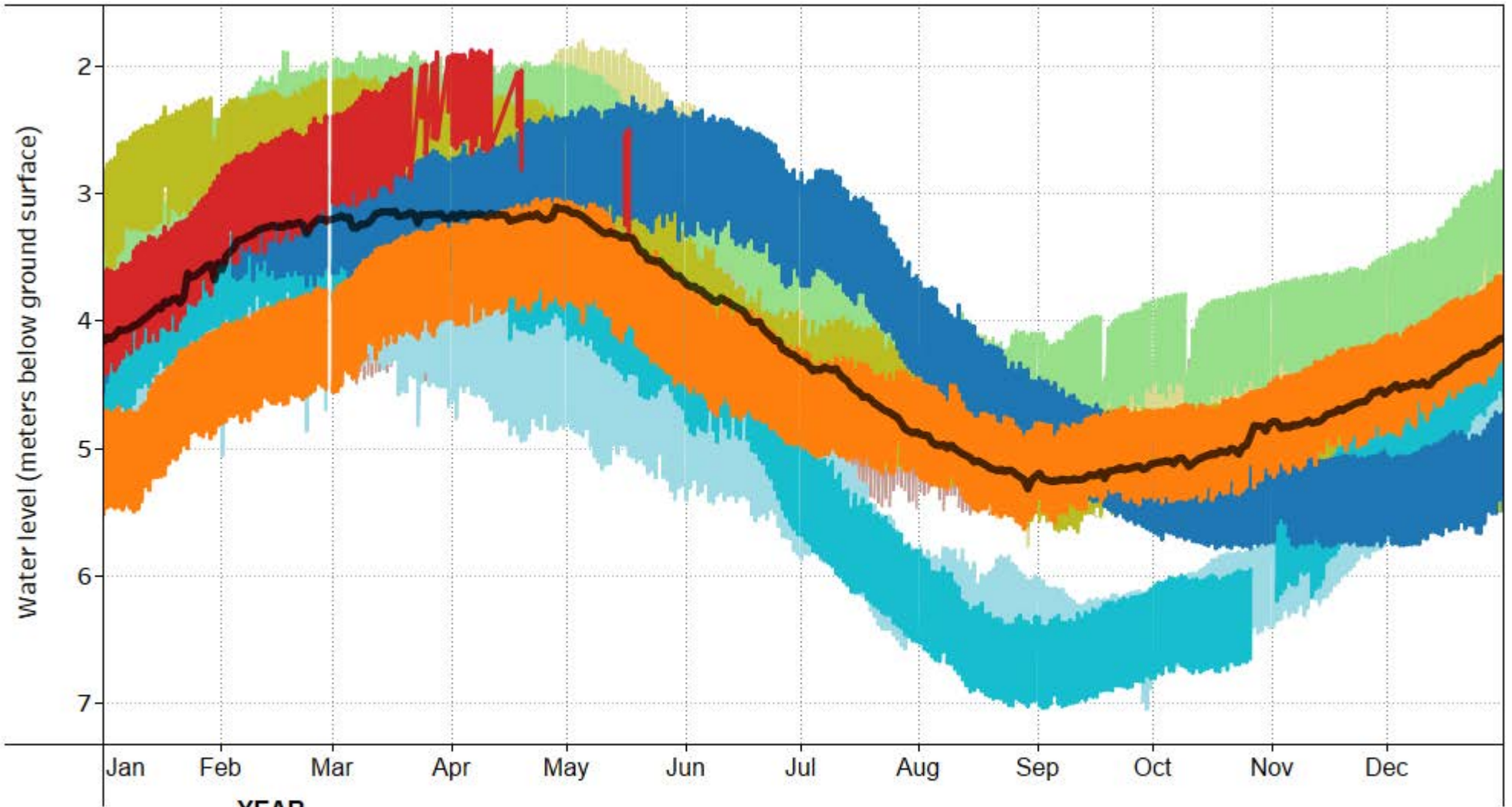
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 30-C

Regional District of Nanaimo

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



YEAR

2024	2018
2023	2017
2022	2016
2021	2015
2020	2014
2019	2013

Average Groundwater Level

Data included from April 2013 to December 2023

NOTES:

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

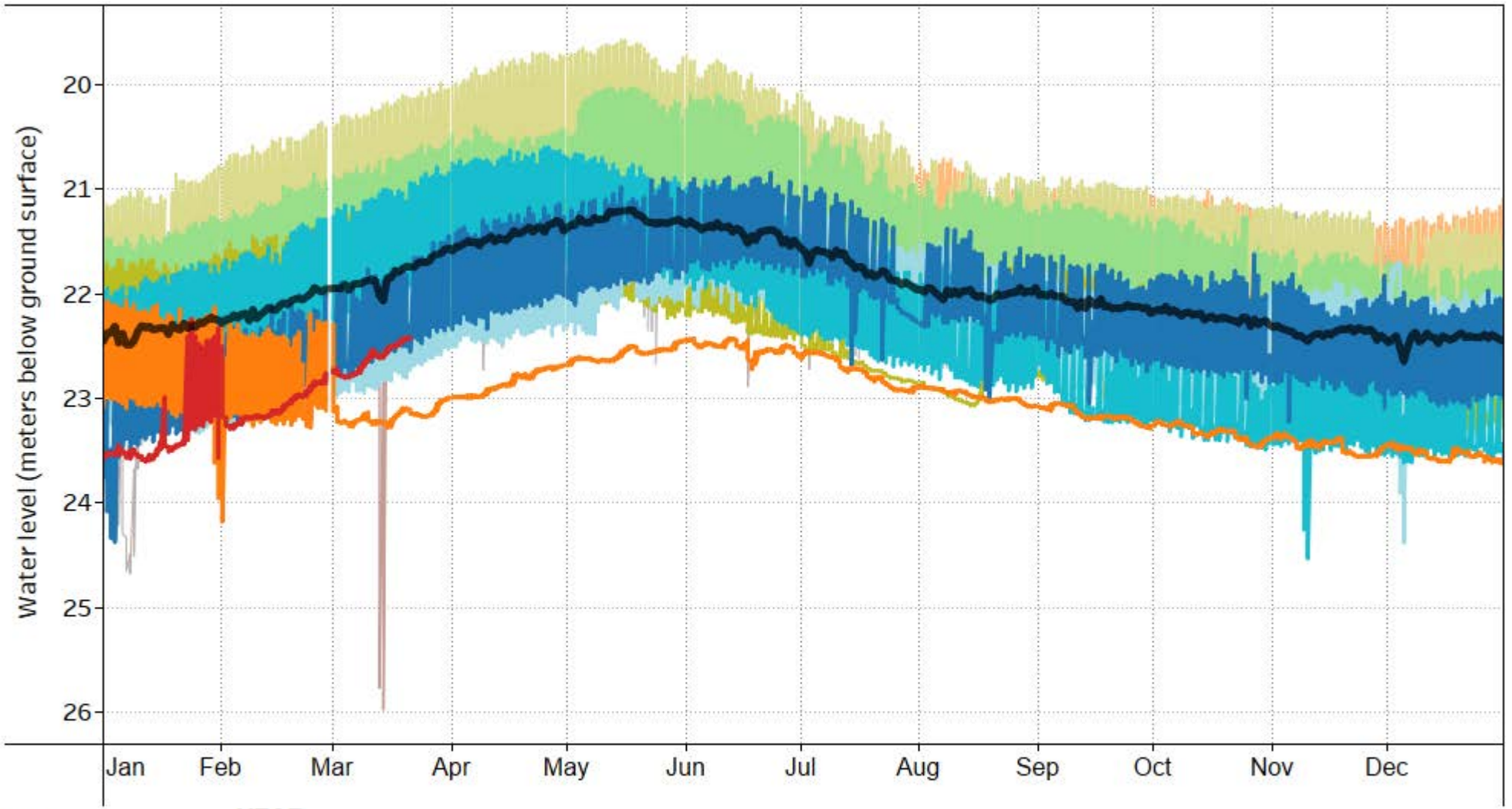
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 31-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

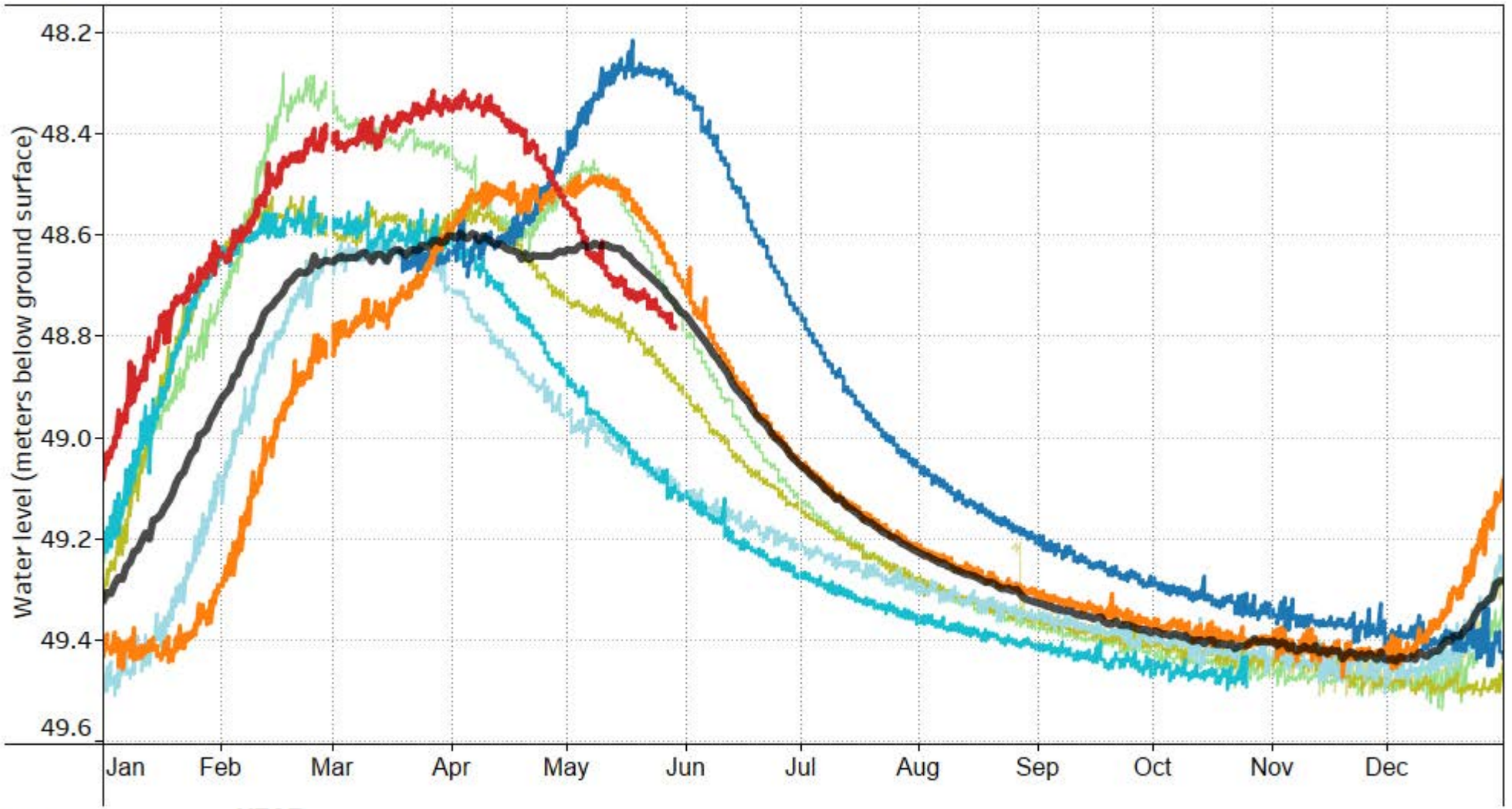
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 32-C

Regional District of Nanaimo

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

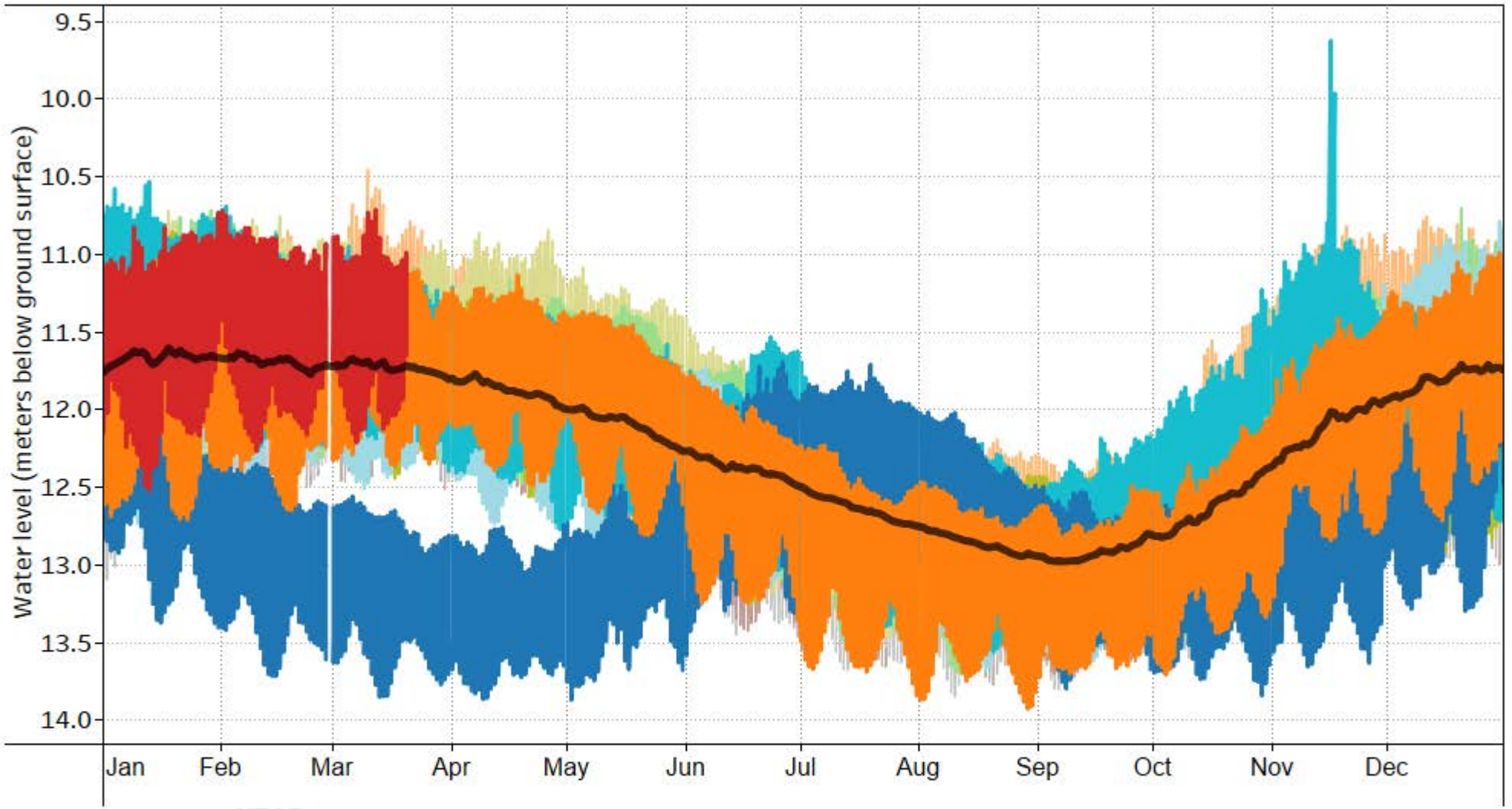
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 33-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

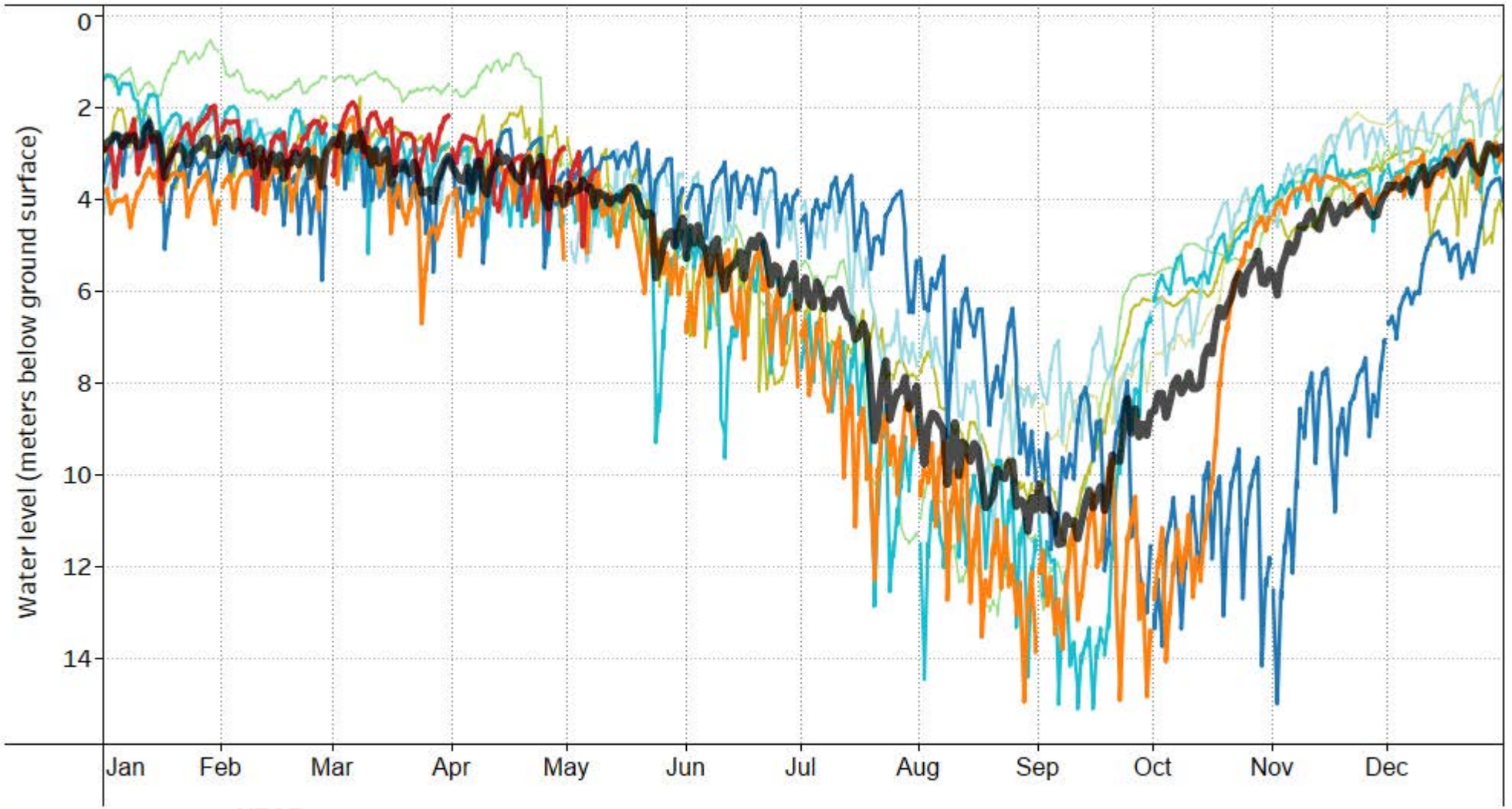
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 34-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

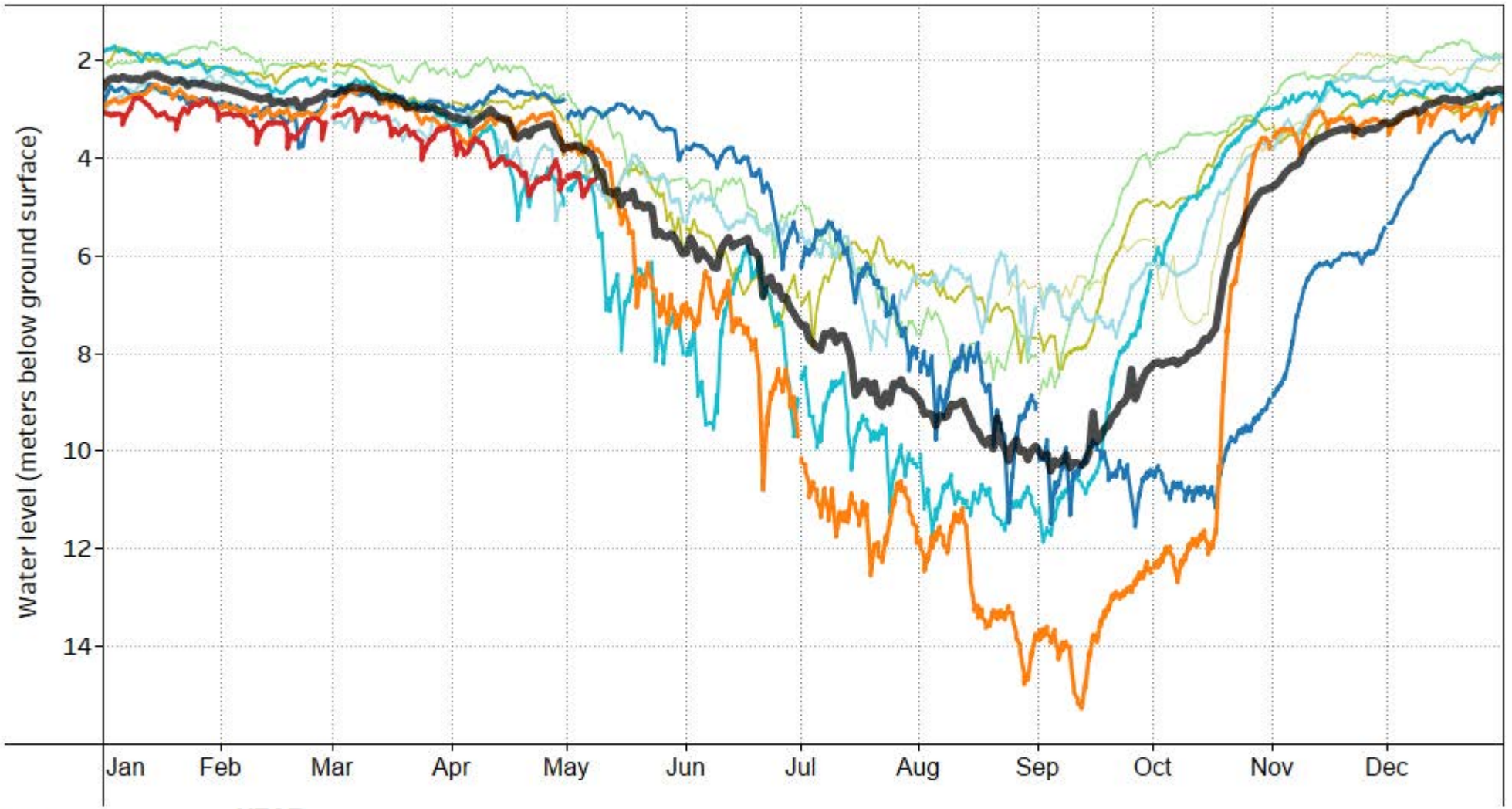
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 35-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 218 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

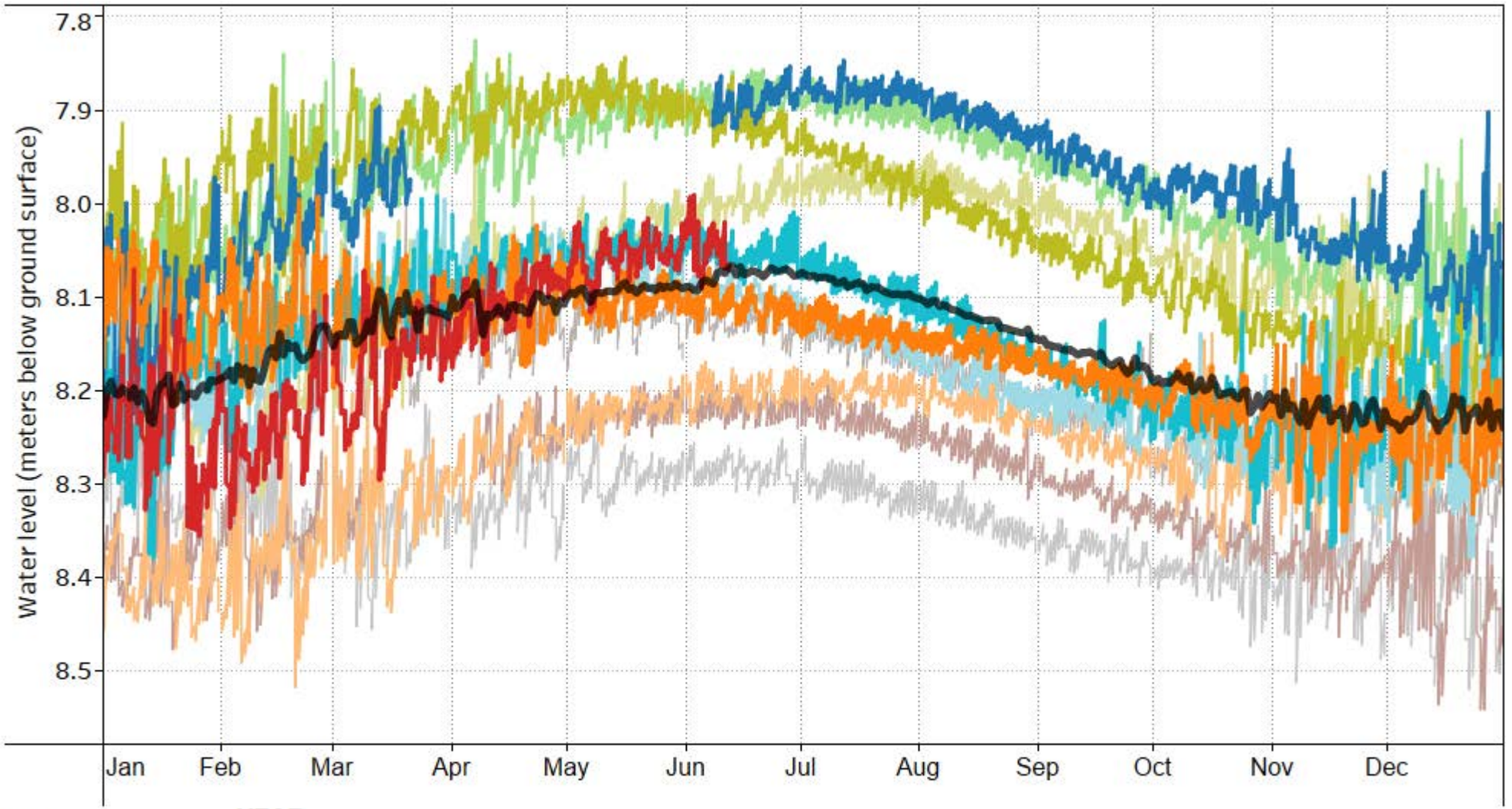
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 36-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

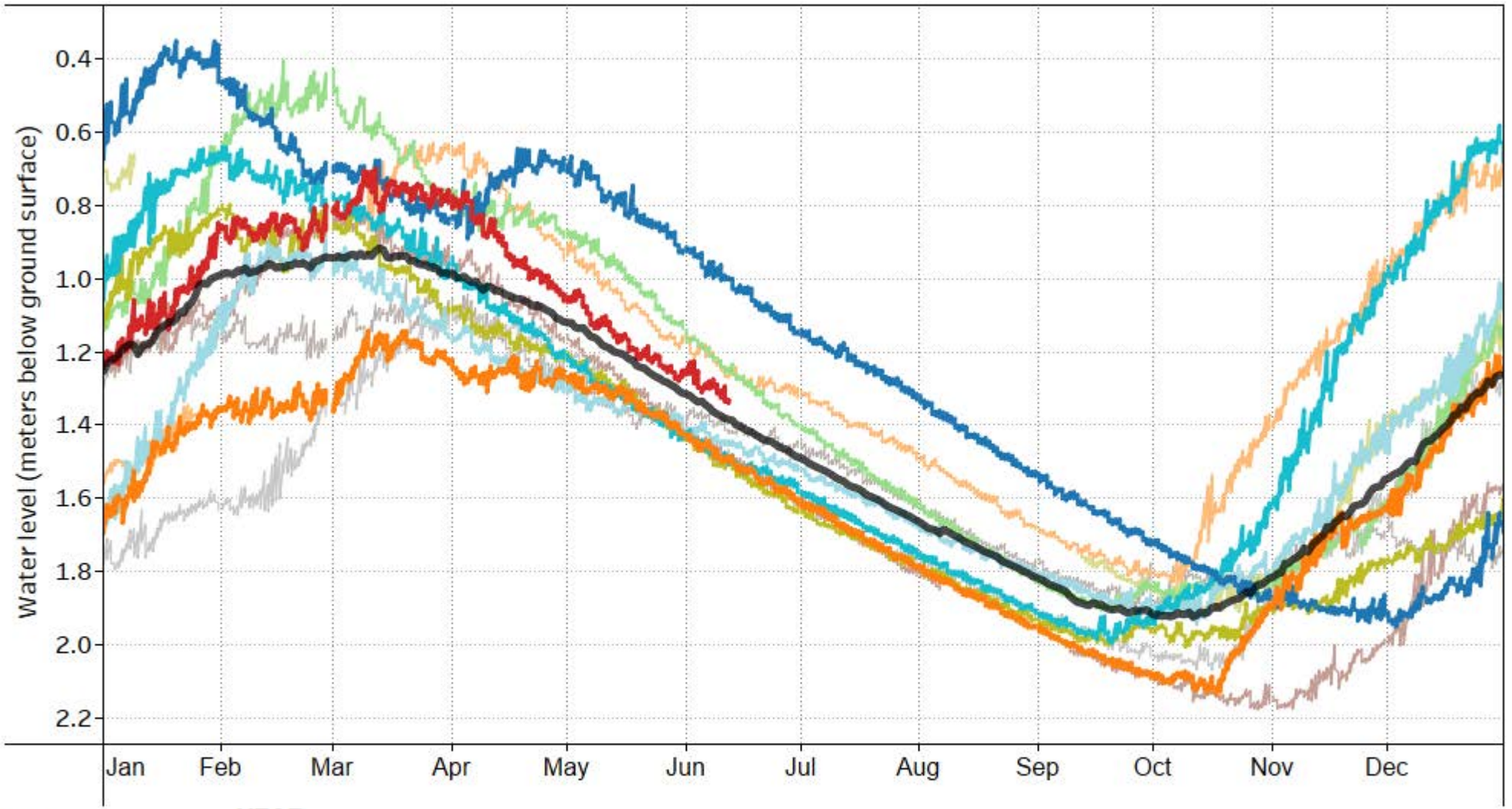
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 37-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

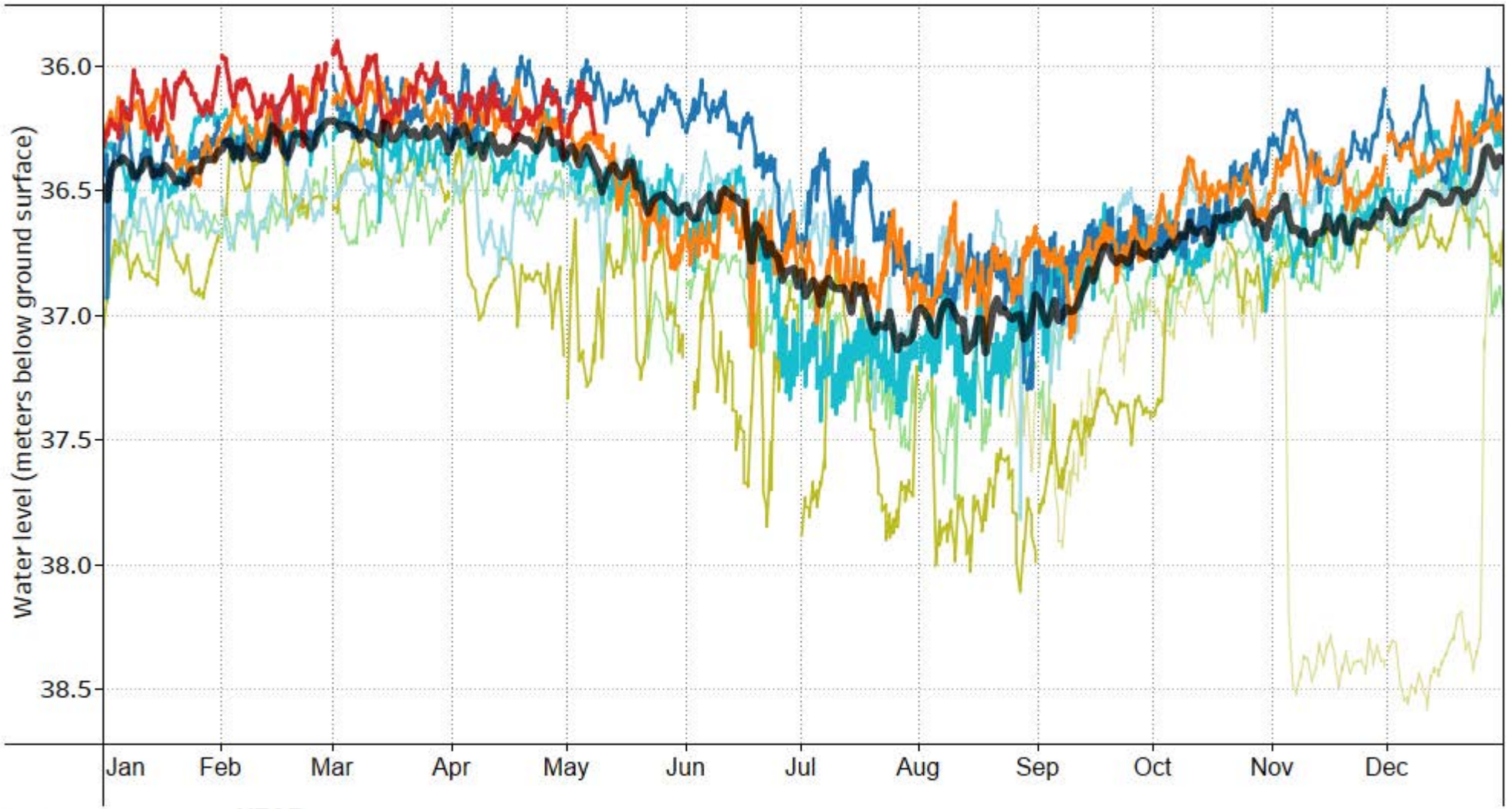
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 38-C

REGIONAL DISTRICT OF NANAIMO

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

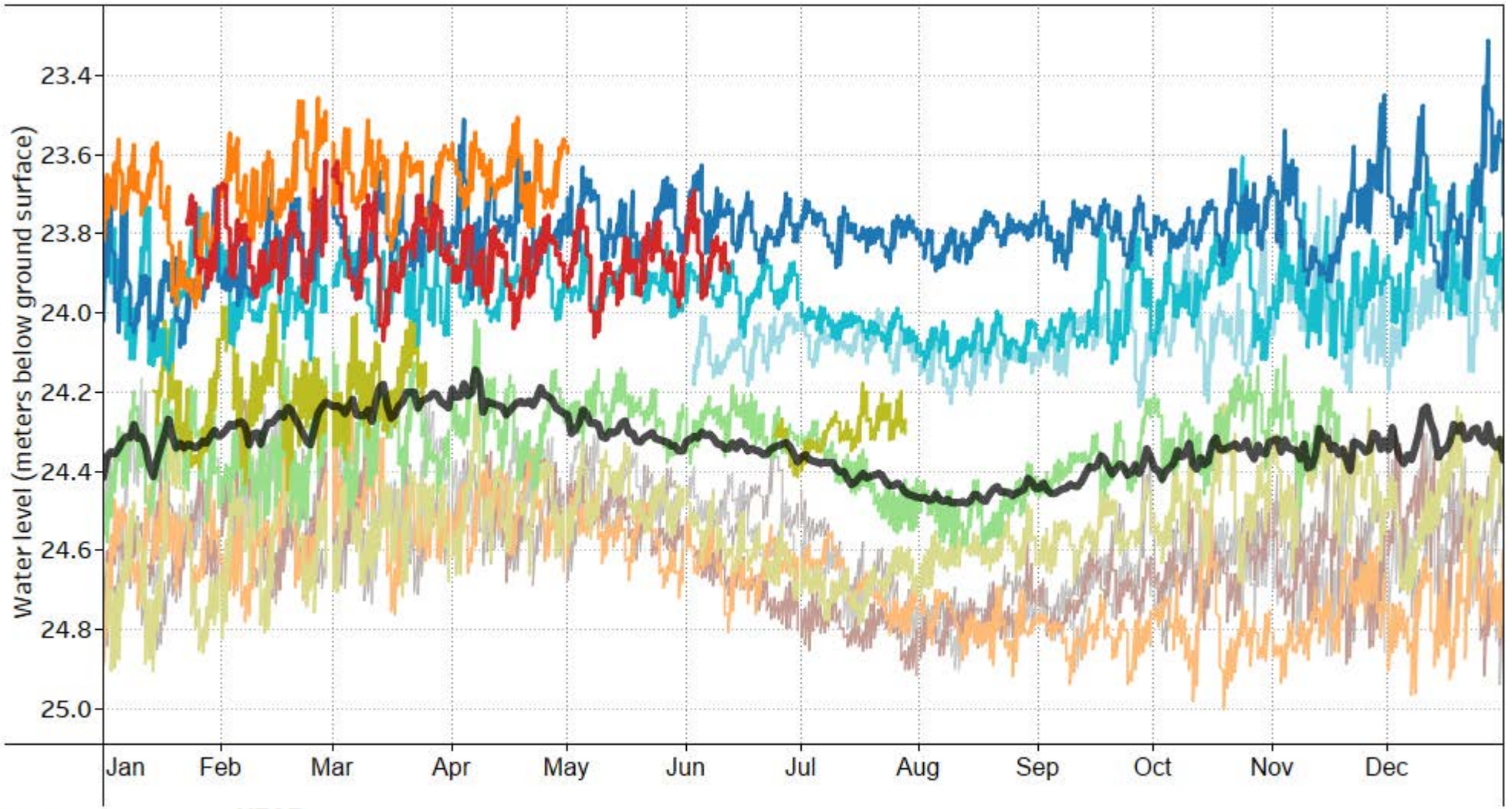
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 39-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

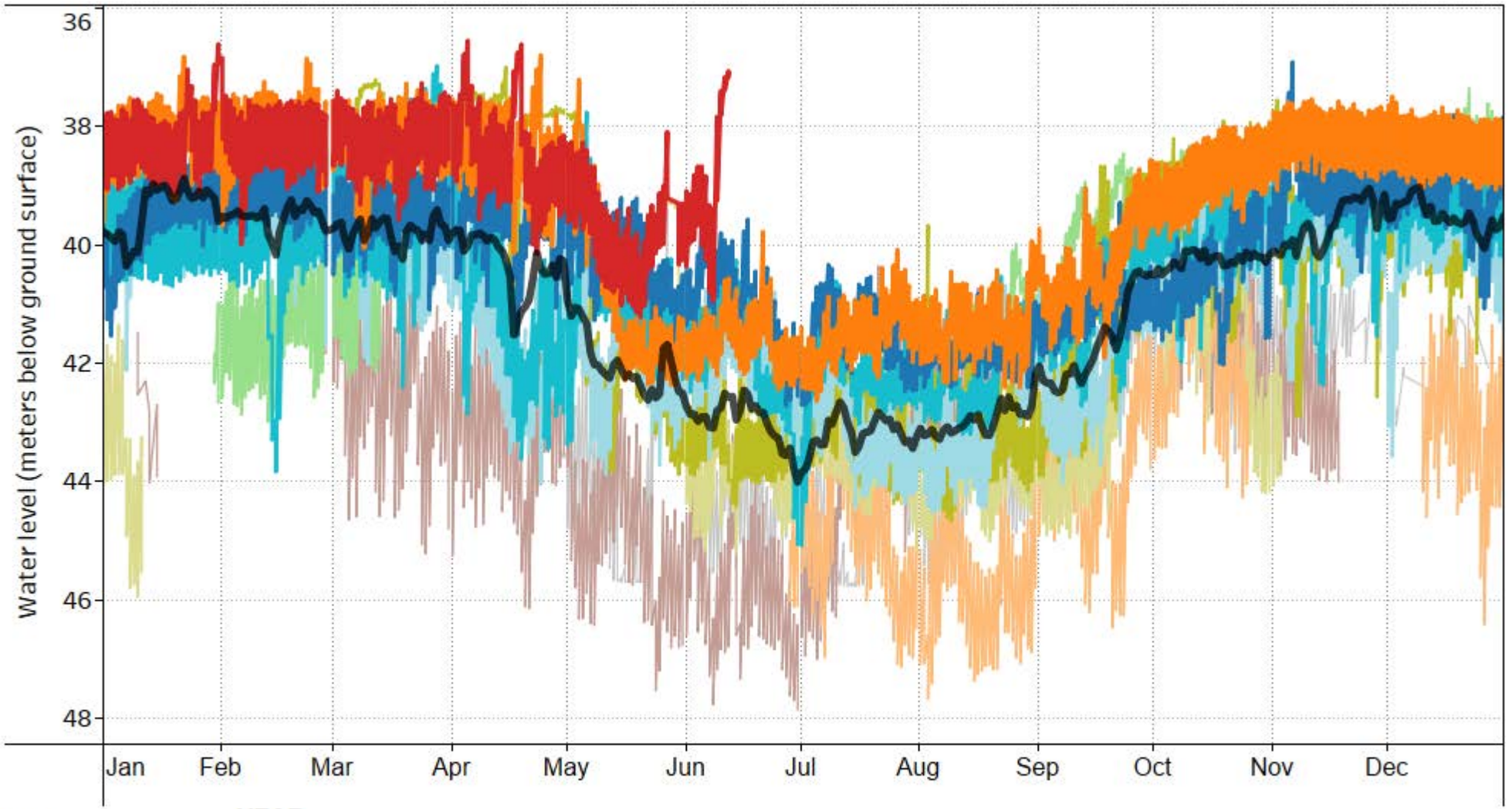
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 40-C

Regional District of Nanaimo

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014

Average Groundwater Level

Data included from April 2014 to December 2023

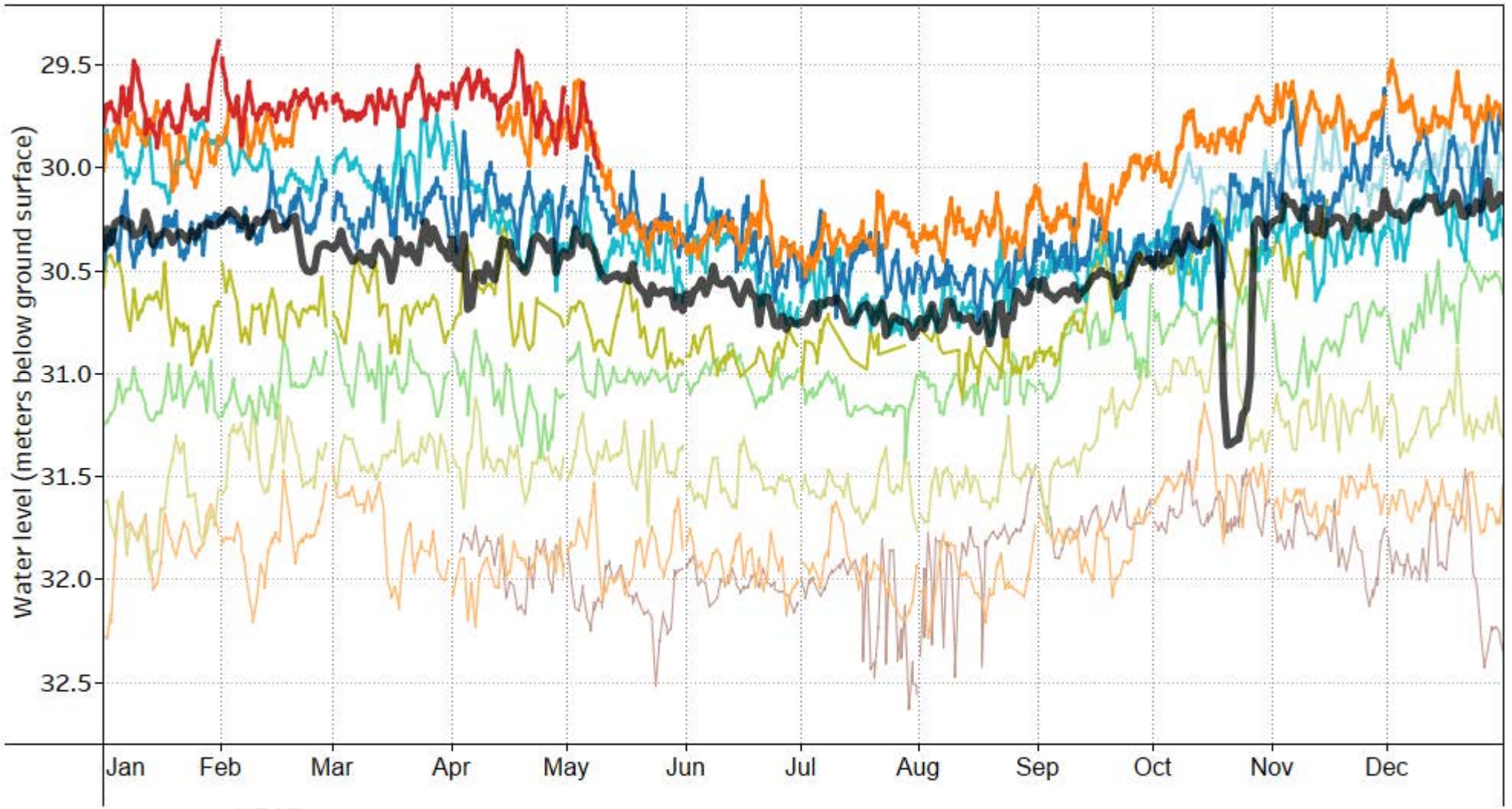
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 41-C

Regional District of Nanaimo

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

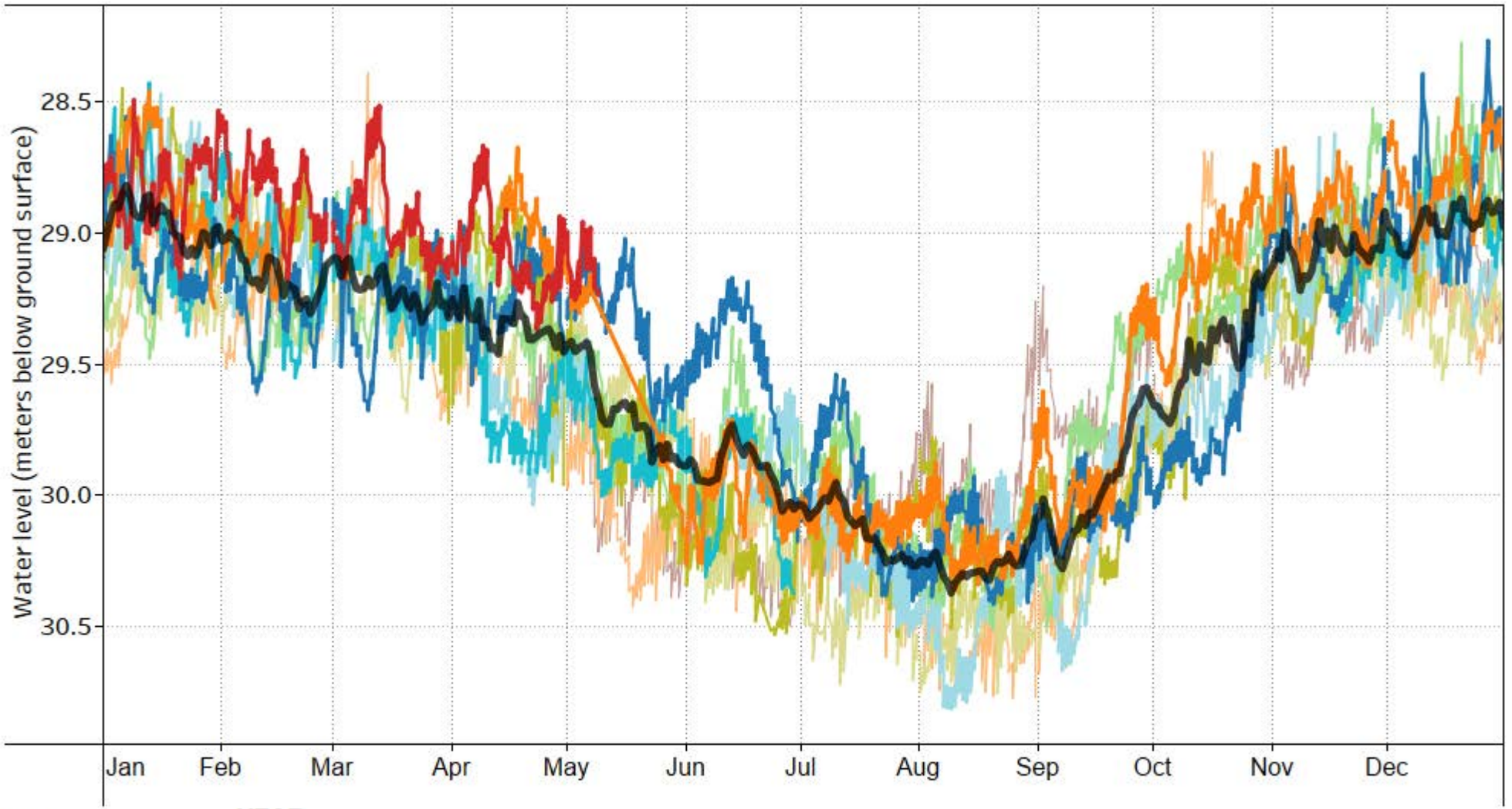
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 42-C

REGIONAL DISTRICT OF NANAIMO

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from April 2015 to December 2023

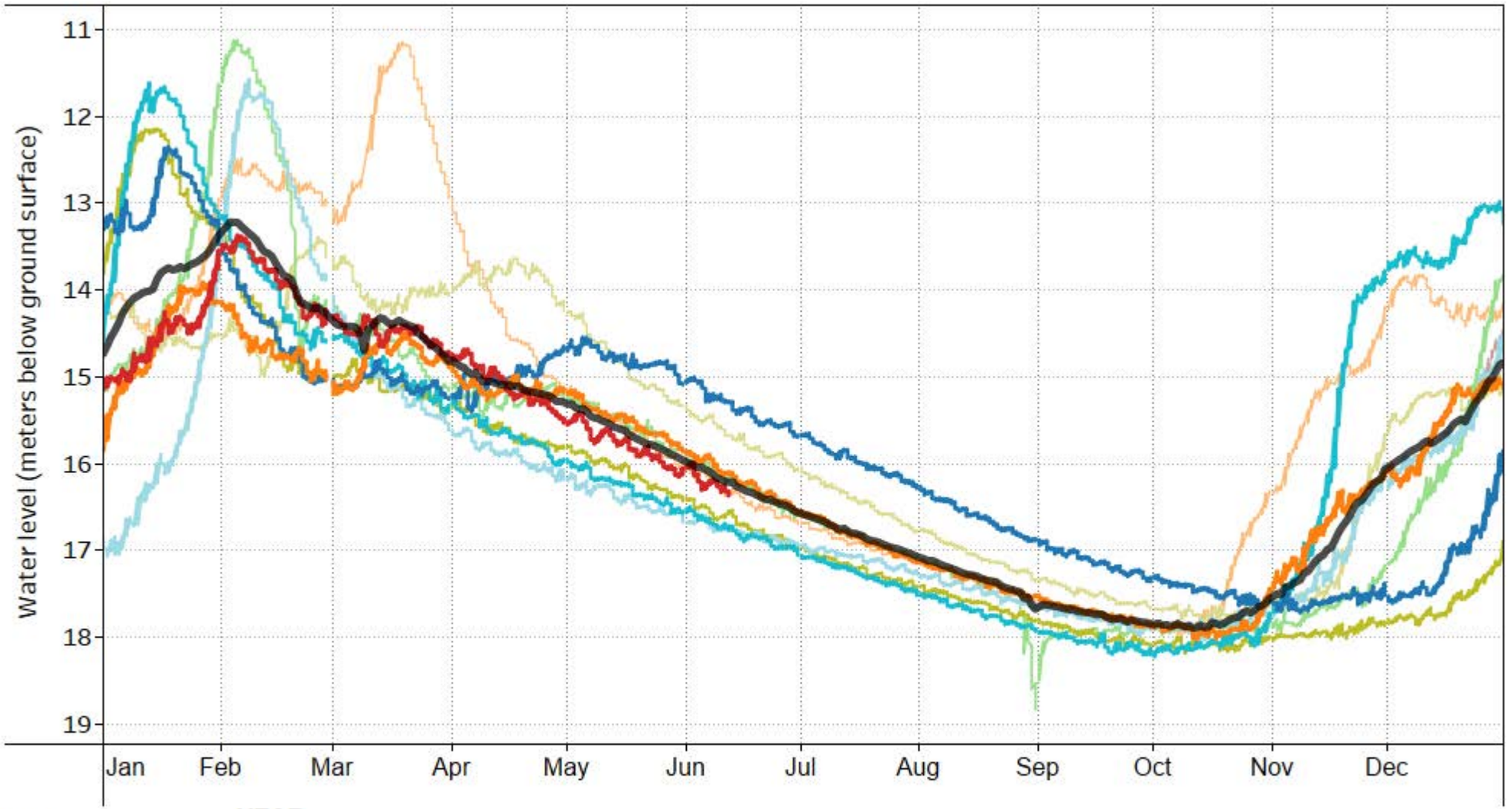
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 43-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from December 2015 to December 2023

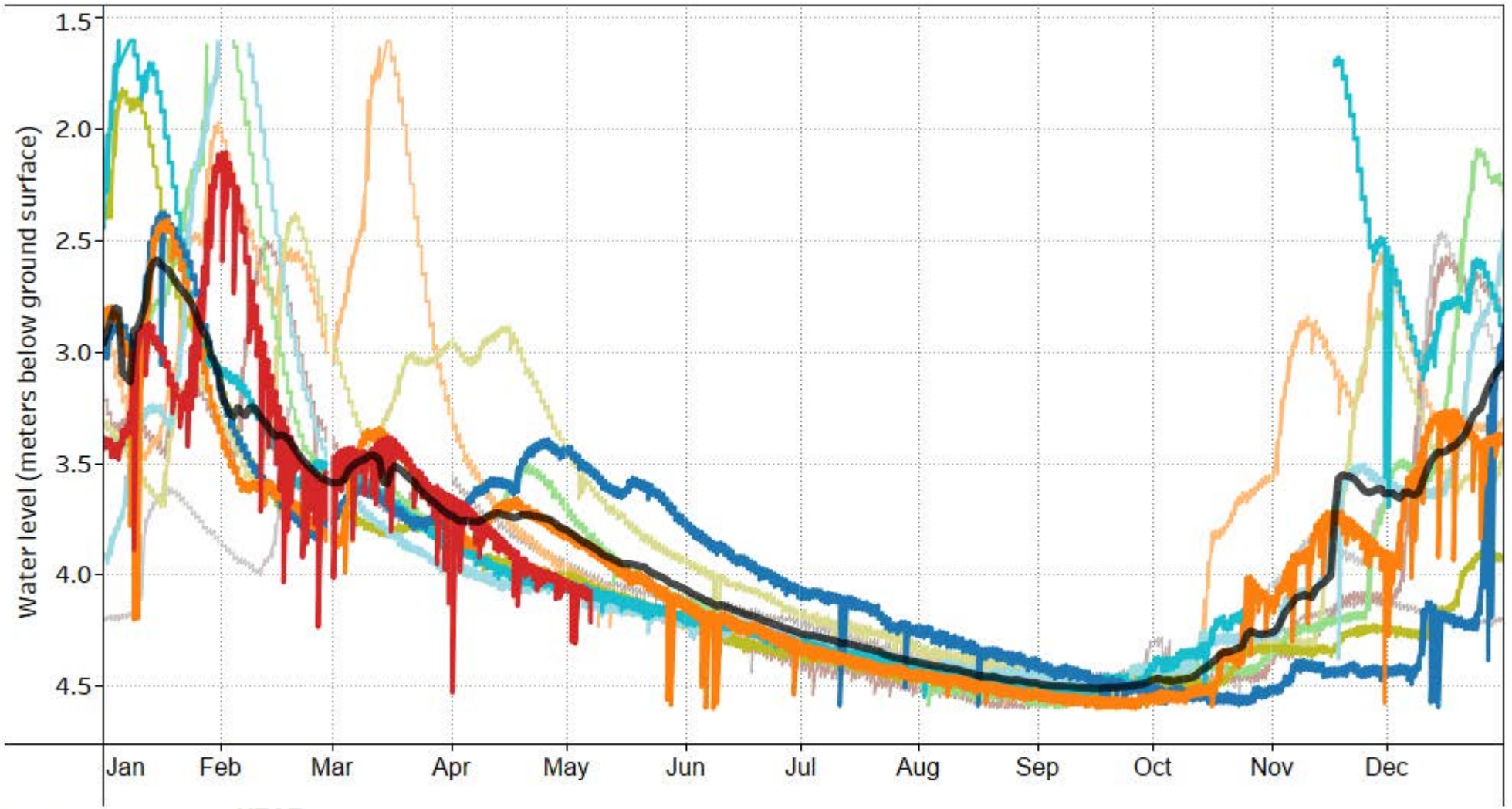
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 44-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

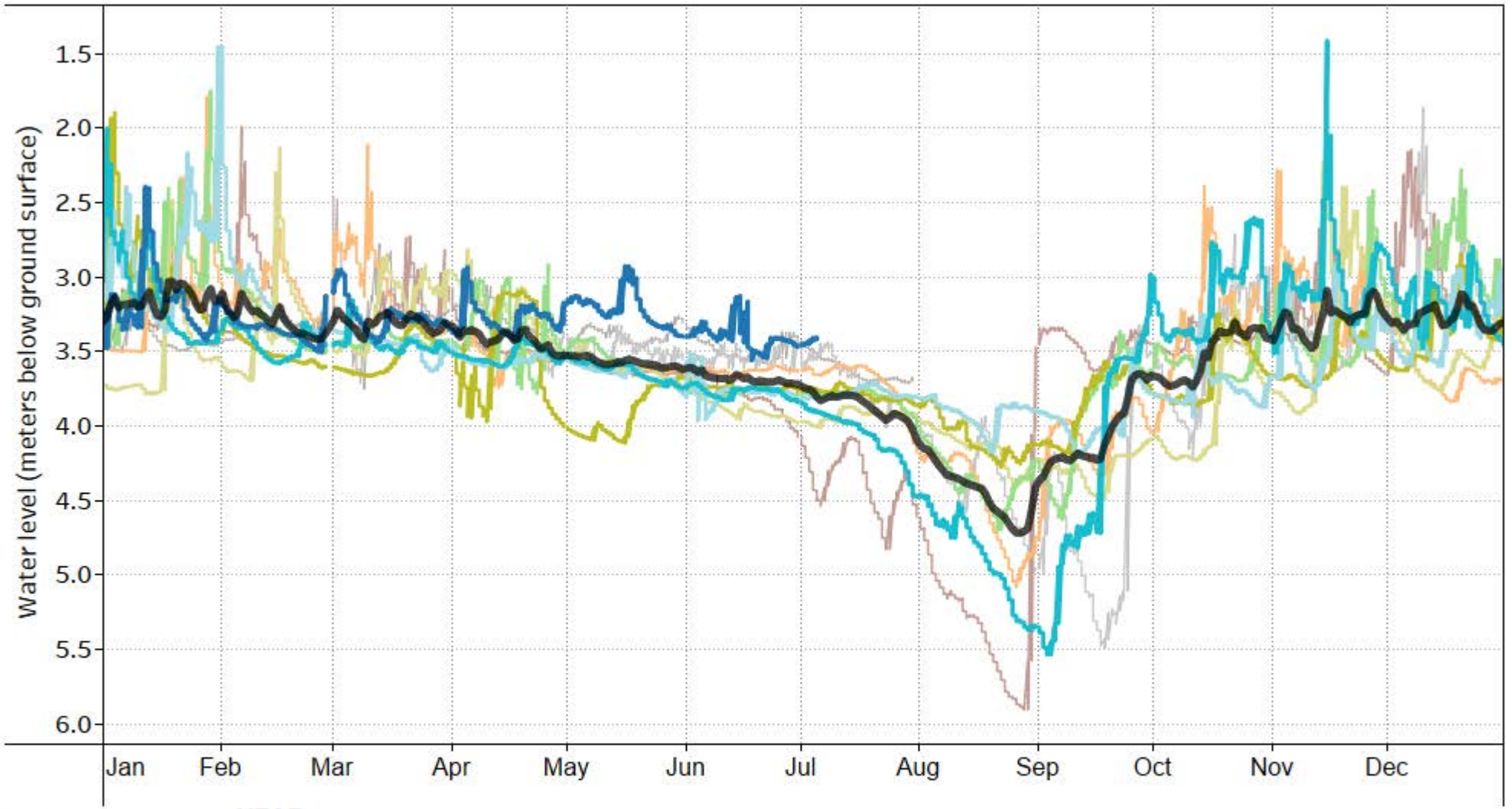
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 45-C

REGIONAL DISTRICT OF NANAIMO

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	2017
2021	2016
2020	2015
2019	2014
2018	2013

Average Groundwater Level

Data included from January 2013 to July 2022

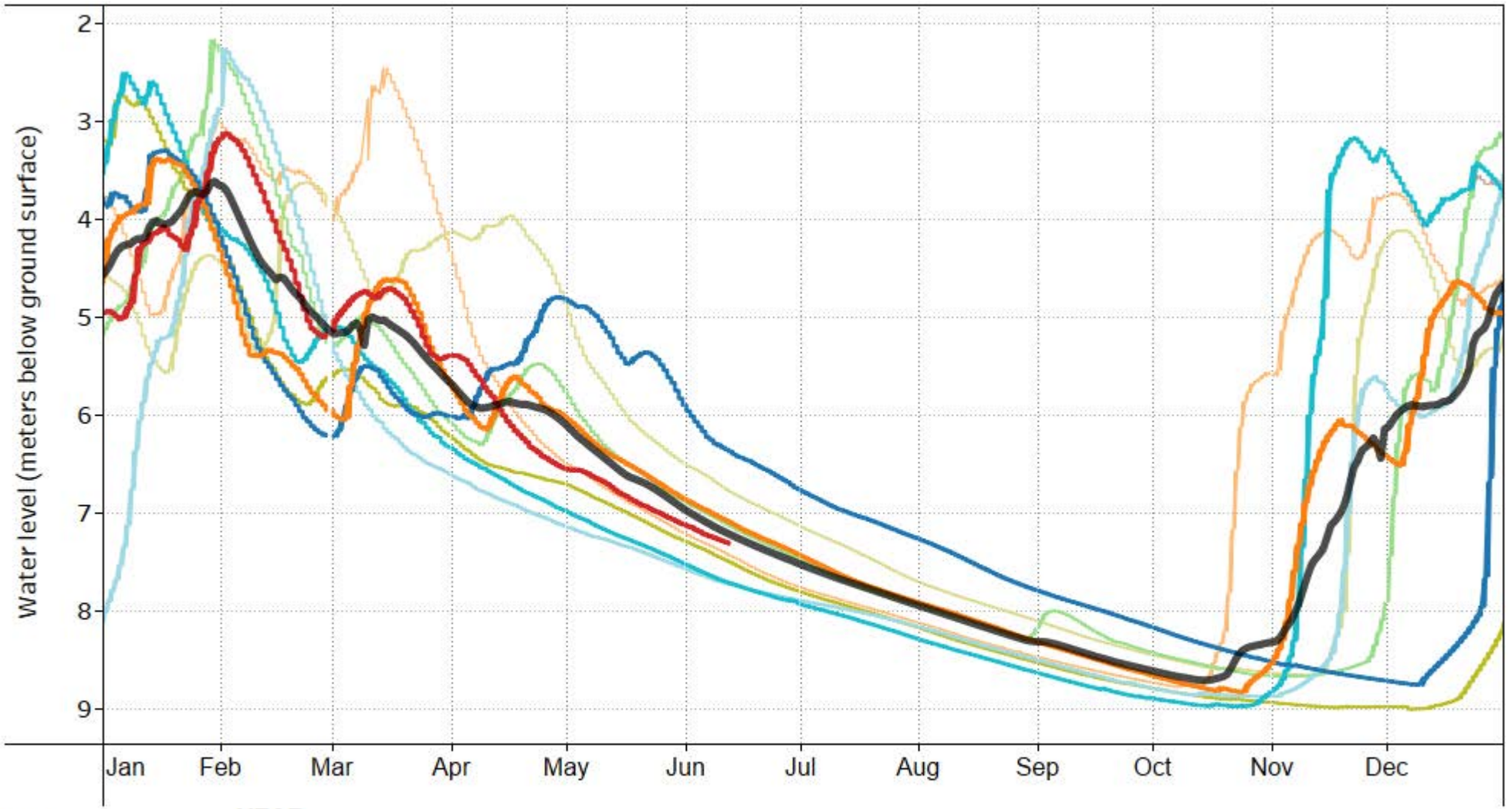
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 46-C

REGIONAL DISTRICT OF NANAIMO

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

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015

Average Groundwater Level

Data included from December 2015 to December 2023

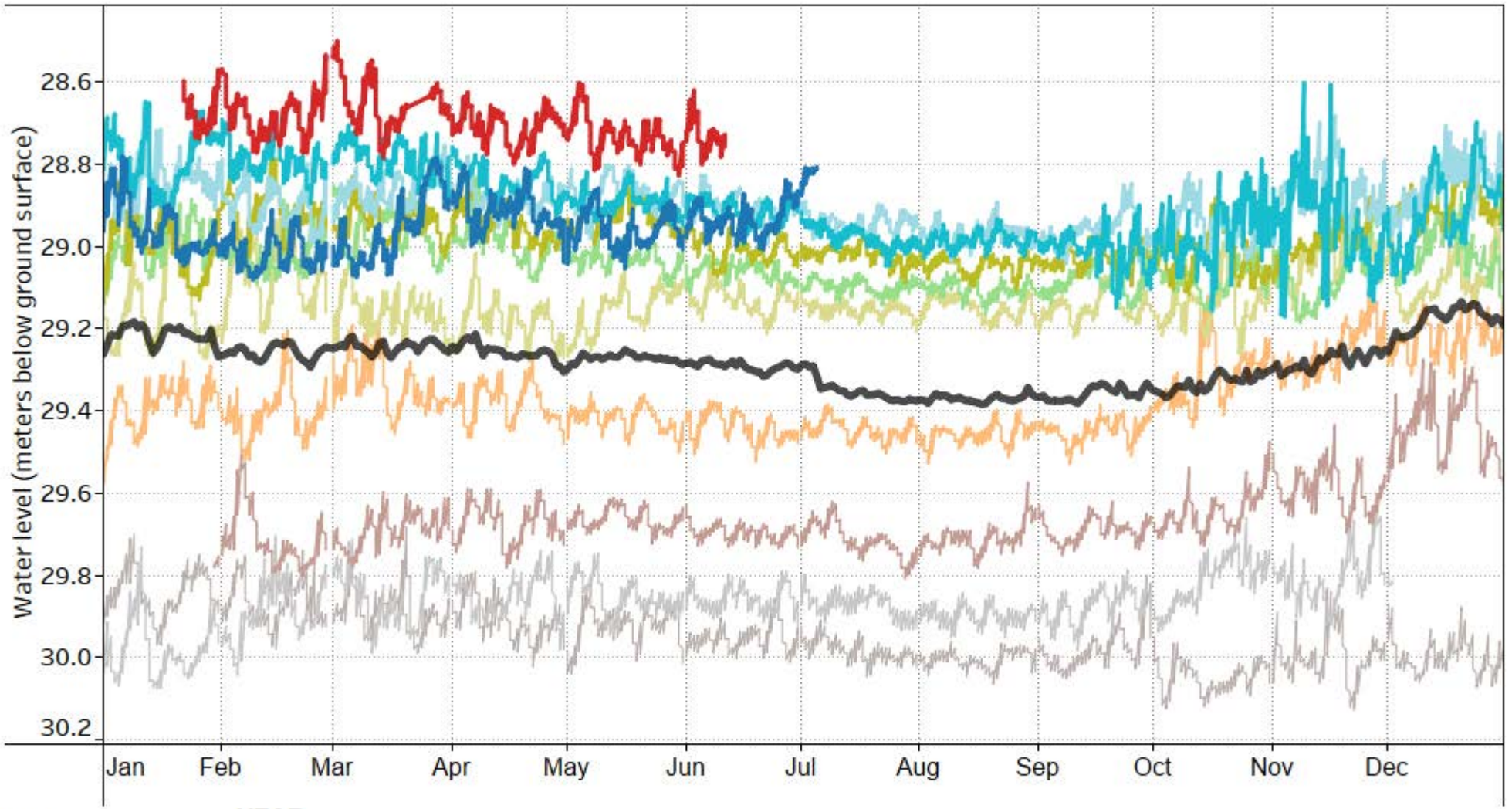
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 47-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2018	2013
2022	2017	
2021	2016	
2020	2015	
2019	2014	

Average Groundwater Level

Data included from January 2013 to December 2023

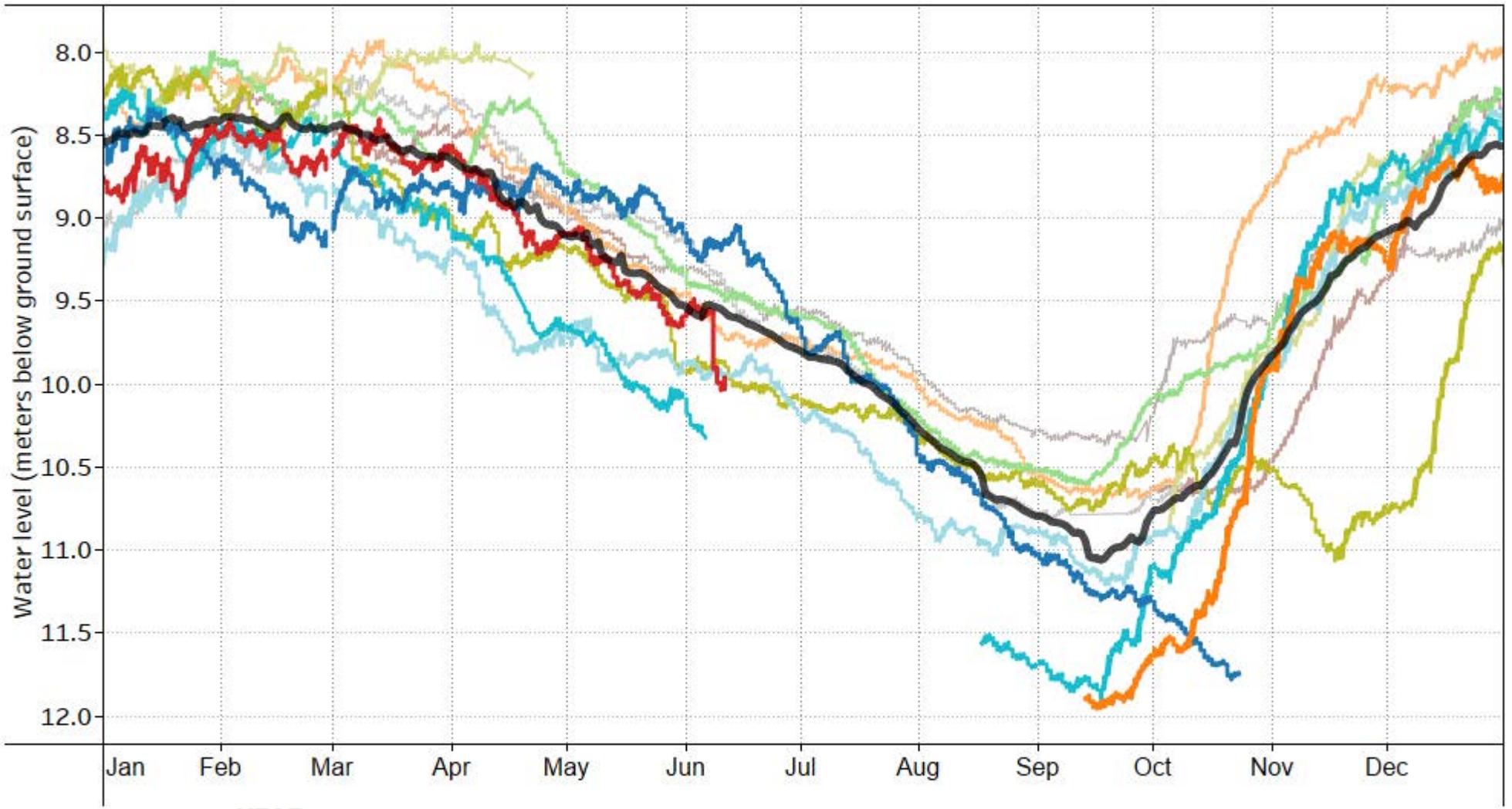
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 48-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

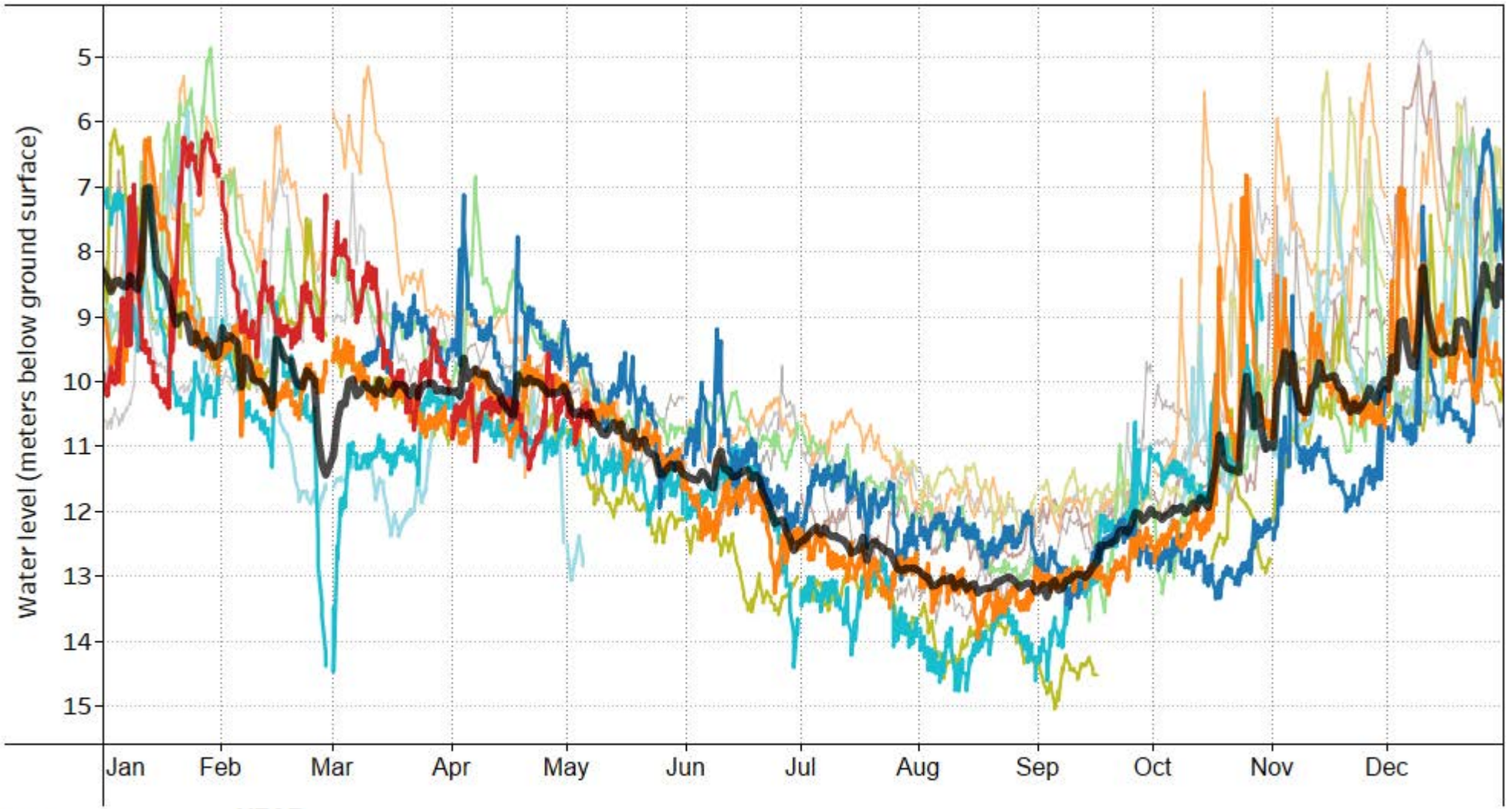
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 49-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

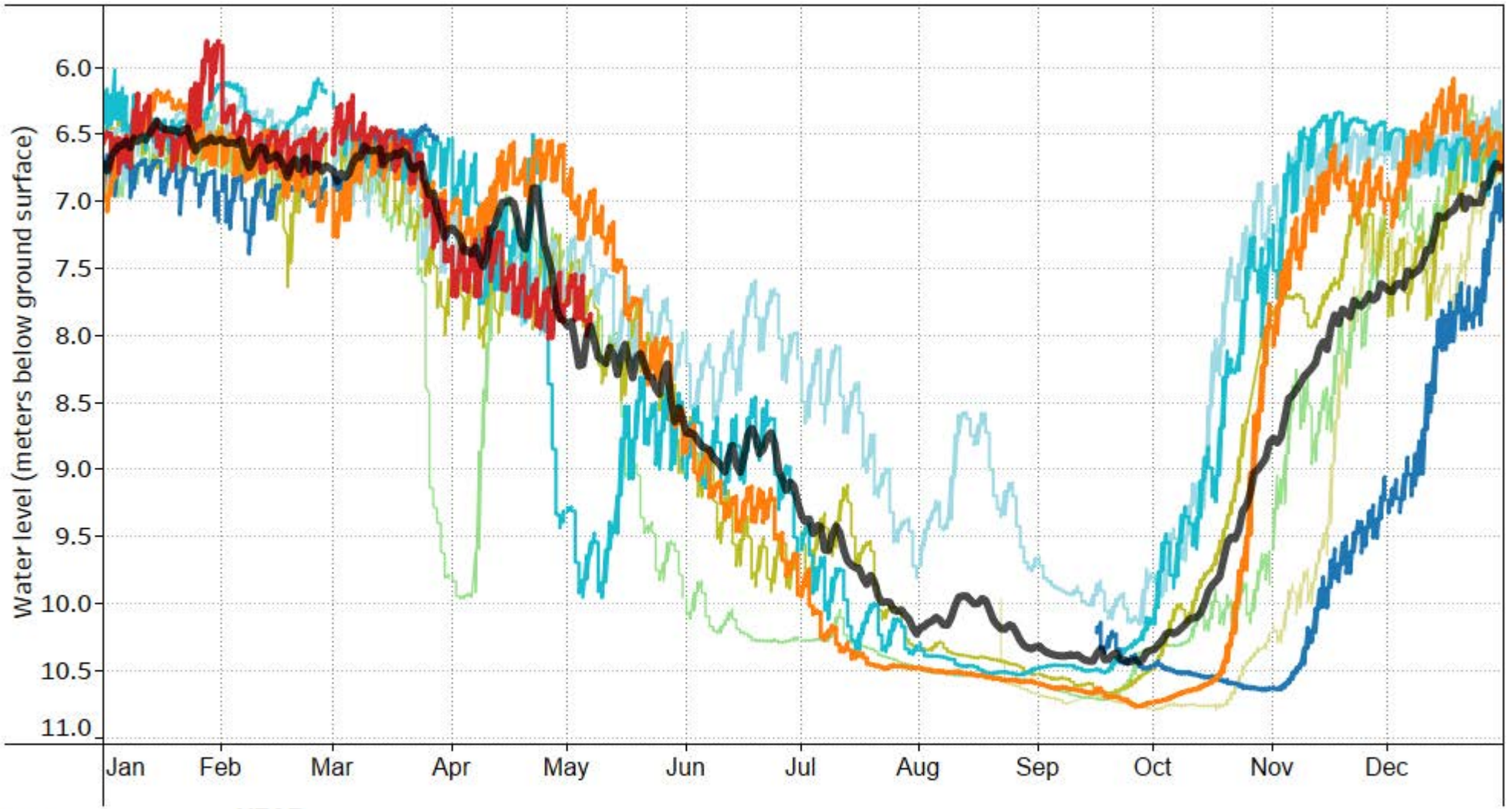
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 50-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

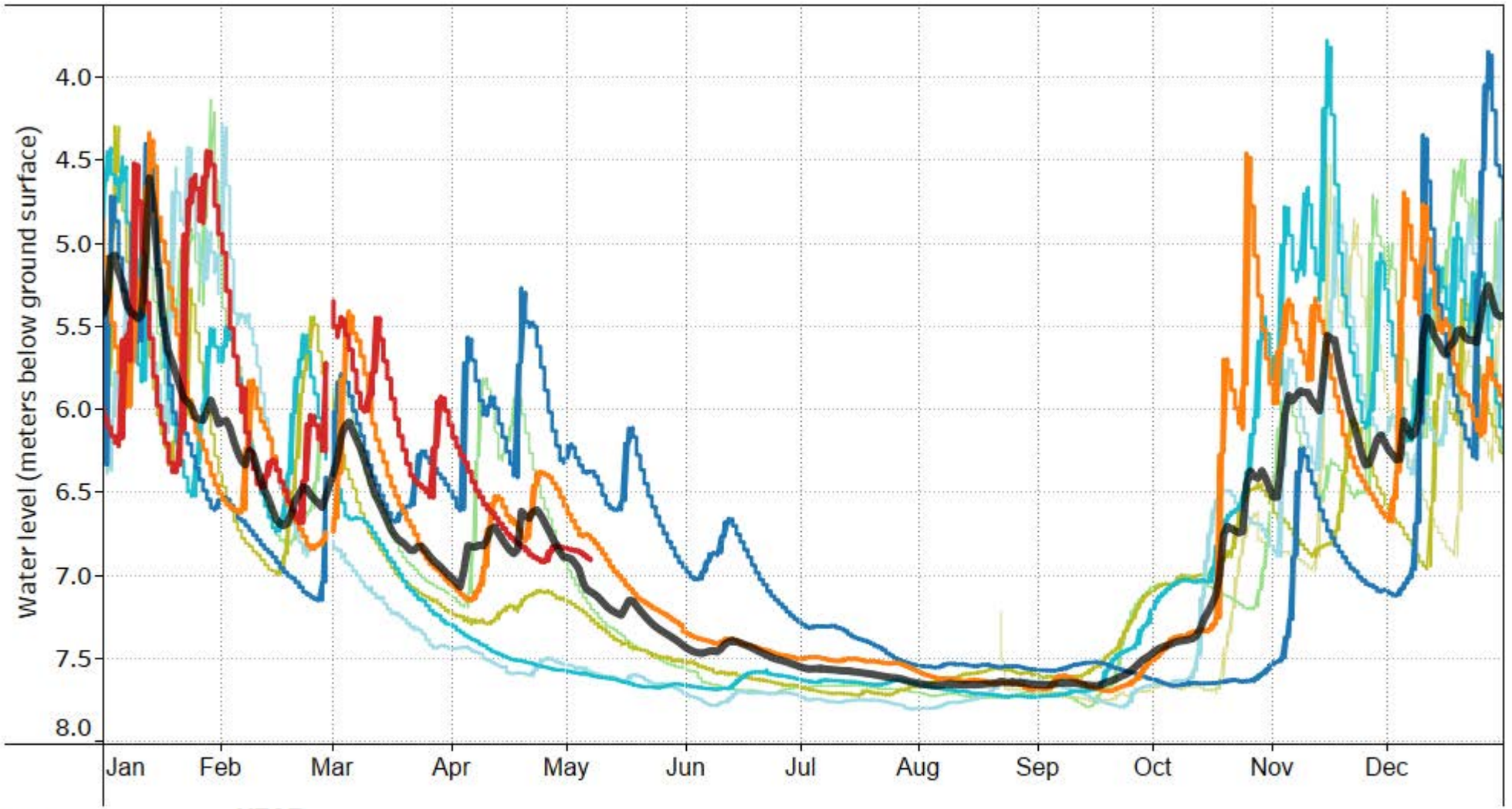
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 51-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

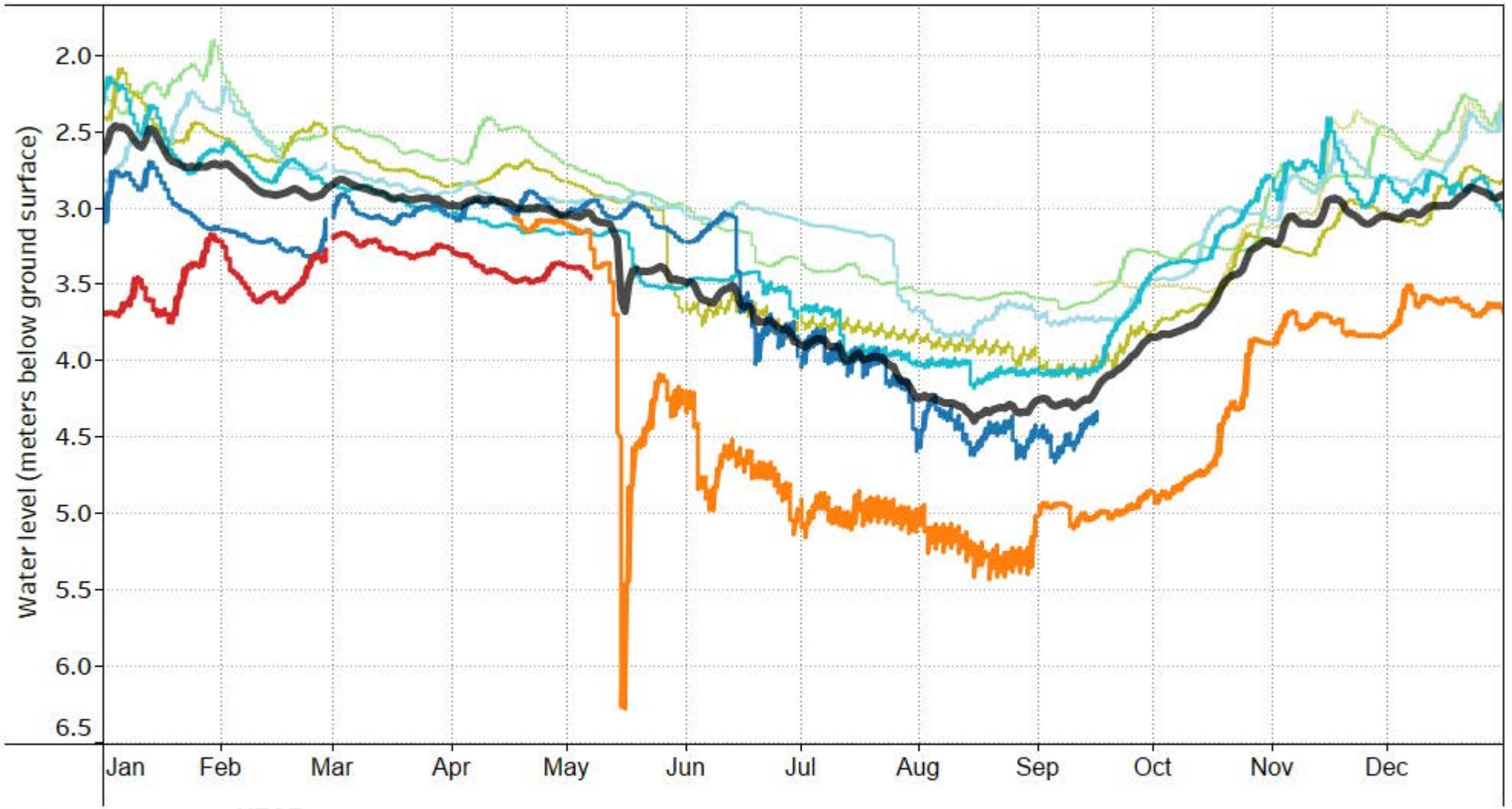
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 52-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 162 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from September 2017 to December 2023

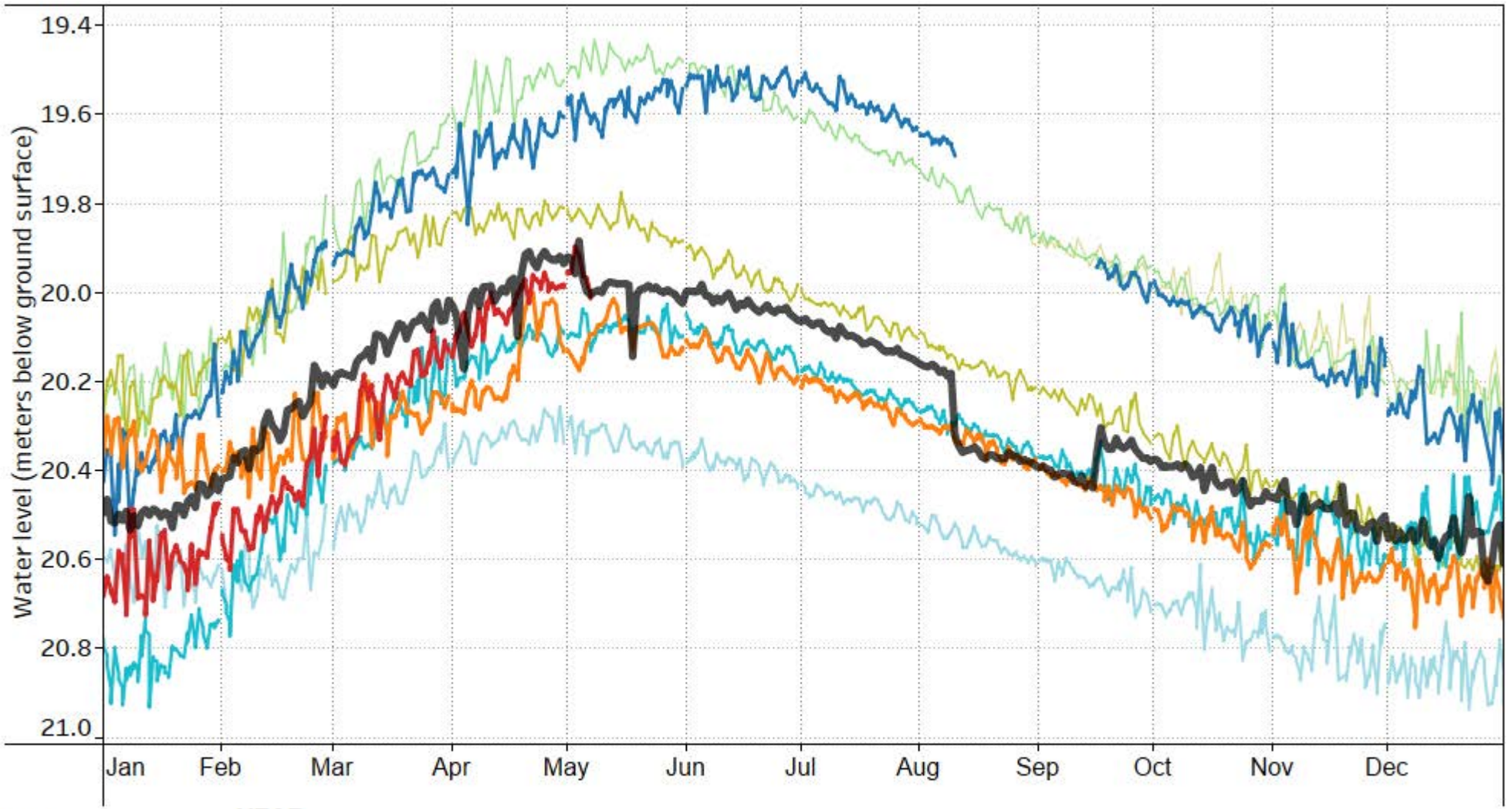
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 53-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

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

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017

Average Groundwater Level

Data included from August 2017 to December 2023

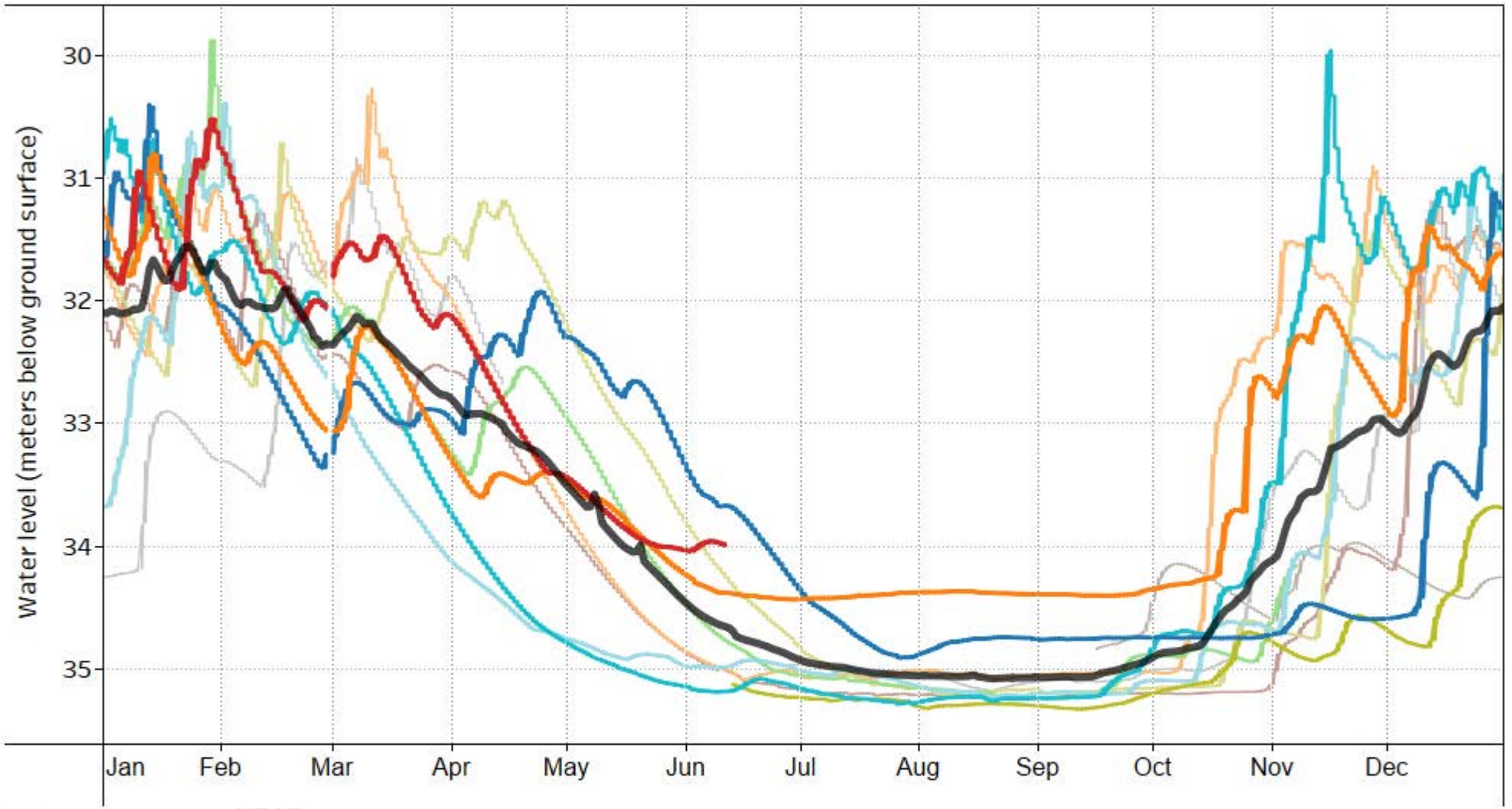
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 54-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 165 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from September 2013 to December 2023

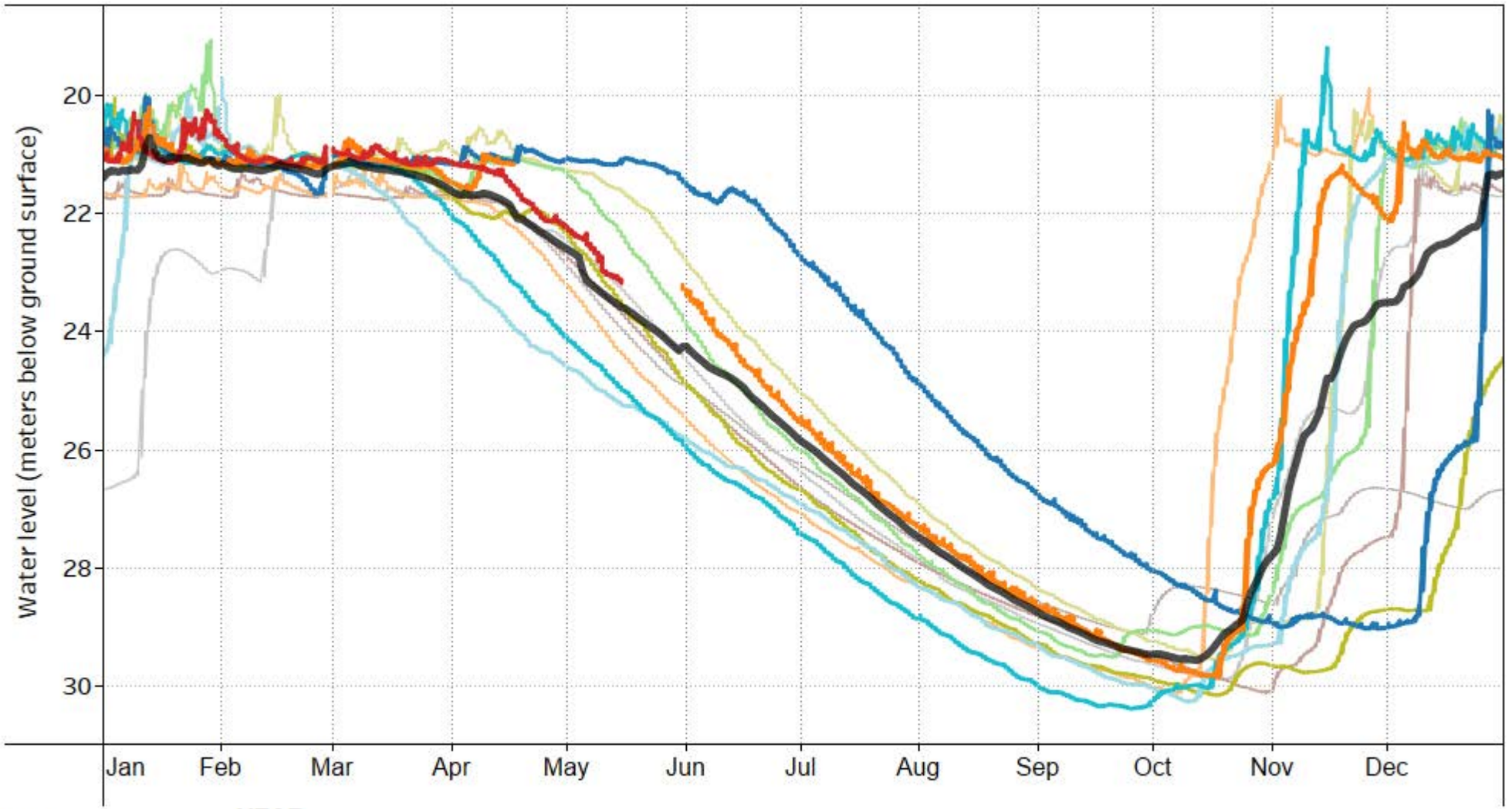
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 55-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 165 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

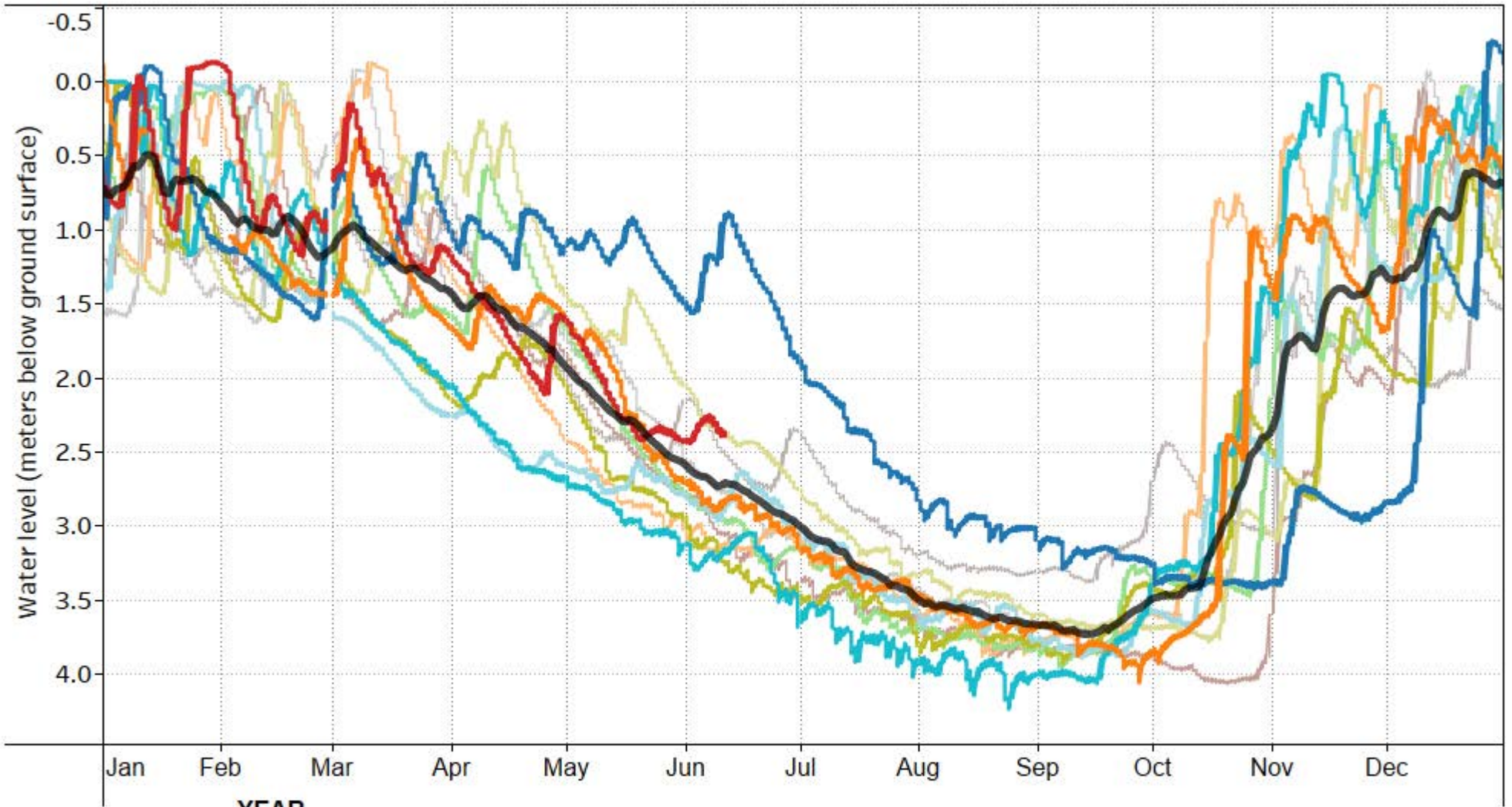
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 56-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013

Average Groundwater Level

Data included from January 2013 to December 2023

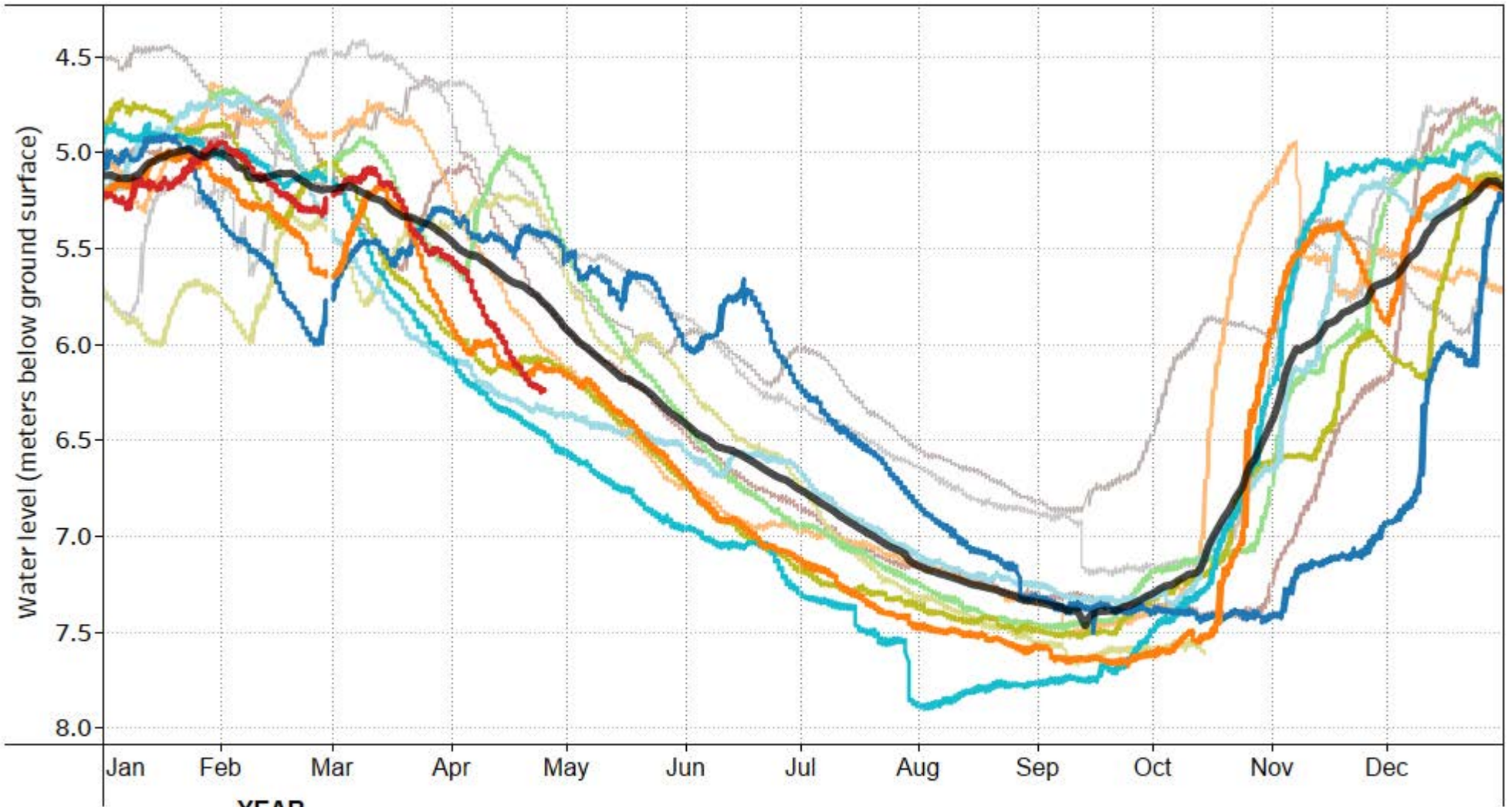
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 57-C

REGIONAL DISTRICT OF NANAIMO

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



YEAR

2024	2018
2023	2017
2022	2016
2021	2015
2020	2014
2019	2013

Average Groundwater Level

Data included from January 2013 to December 2023

NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

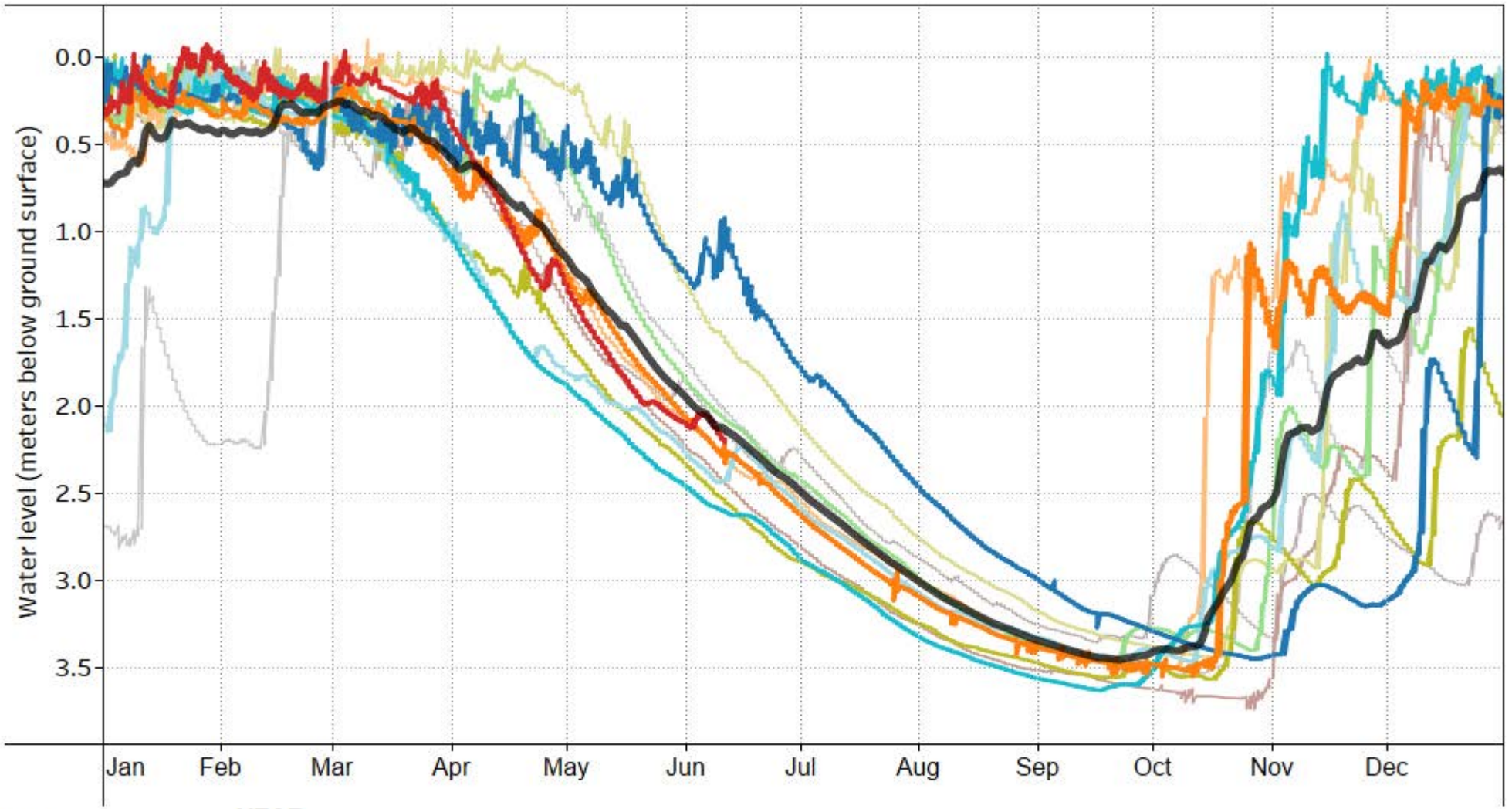
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 58-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

- 2024
- 2023
- 2022
- 2021
- 2020
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013

Average Groundwater Level

Data included from February 2013 to December 2023

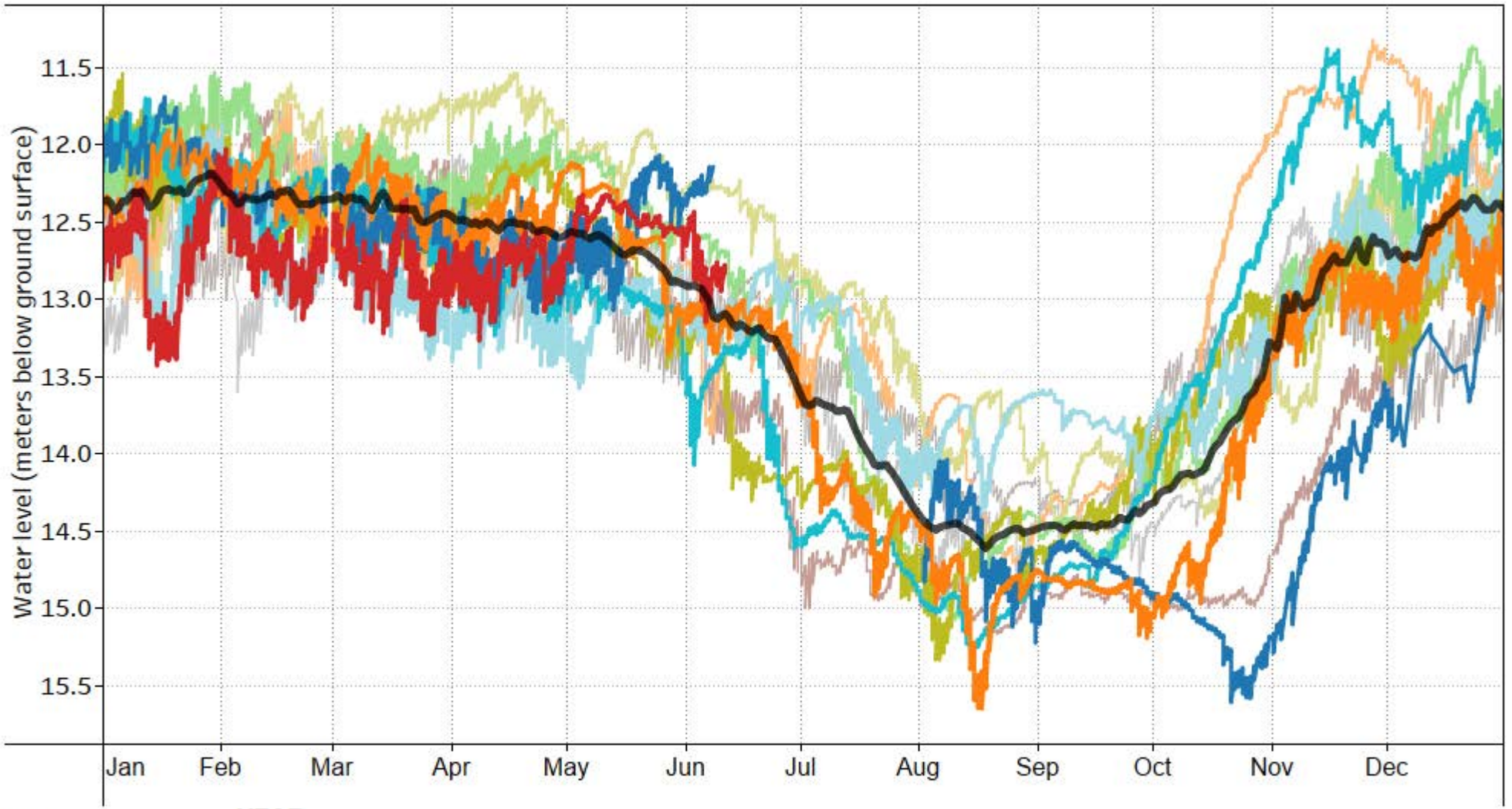
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 59-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from January 2013 to December 2023

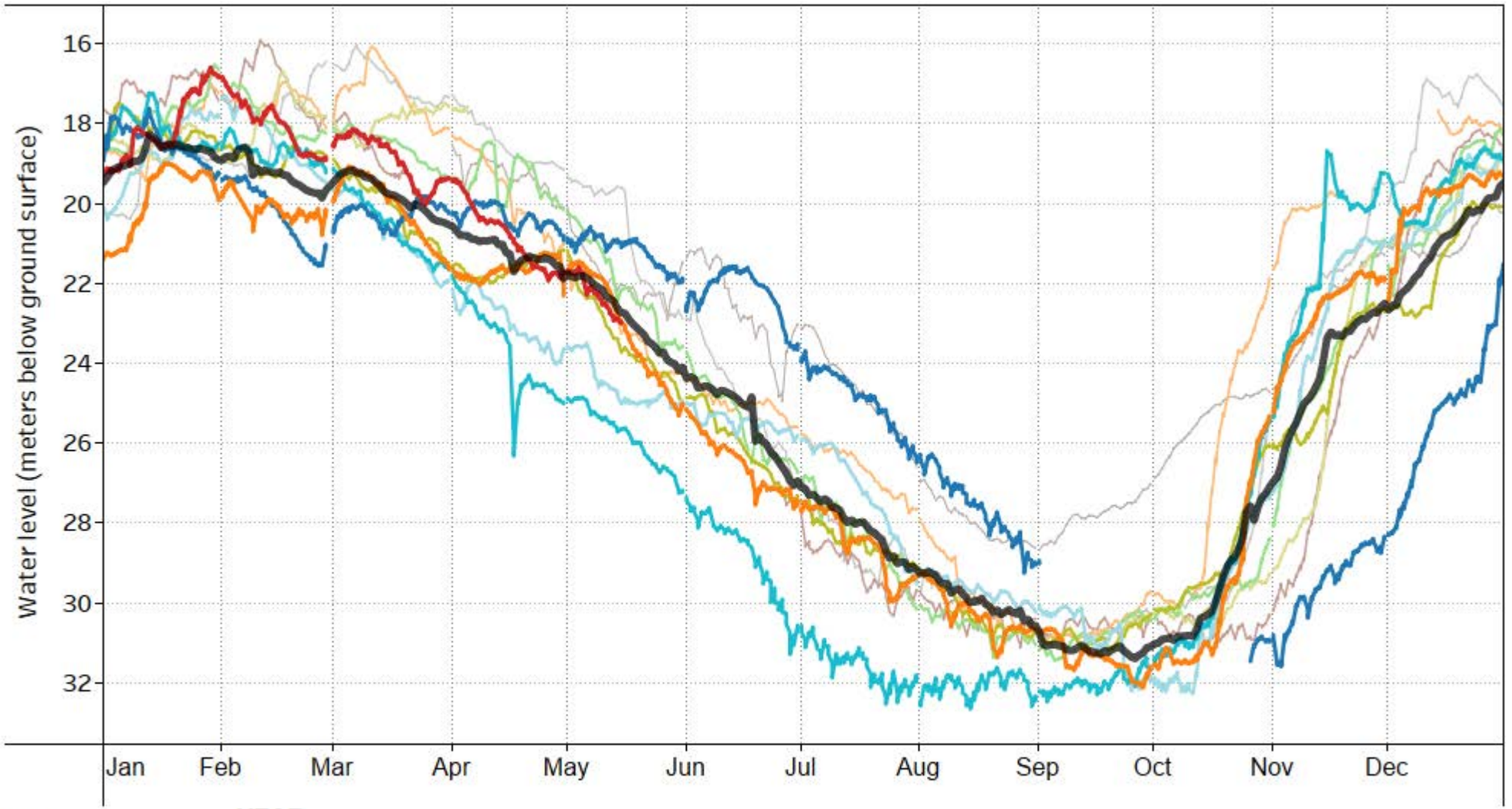
DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 60-C

REGIONAL DISTRICT OF NANAIMO

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



NOTES:

Observation Well Associated with Aquifer 709 (Fractured sedimentary rock)

YEAR

2024	2019	2014
2023	2018	2013
2022	2017	
2021	2016	
2020	2015	

Average Groundwater Level

Data included from April 2013 to December 2023

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2024

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

FIGURE 61-C

REGIONAL DISTRICT OF NANAIMO