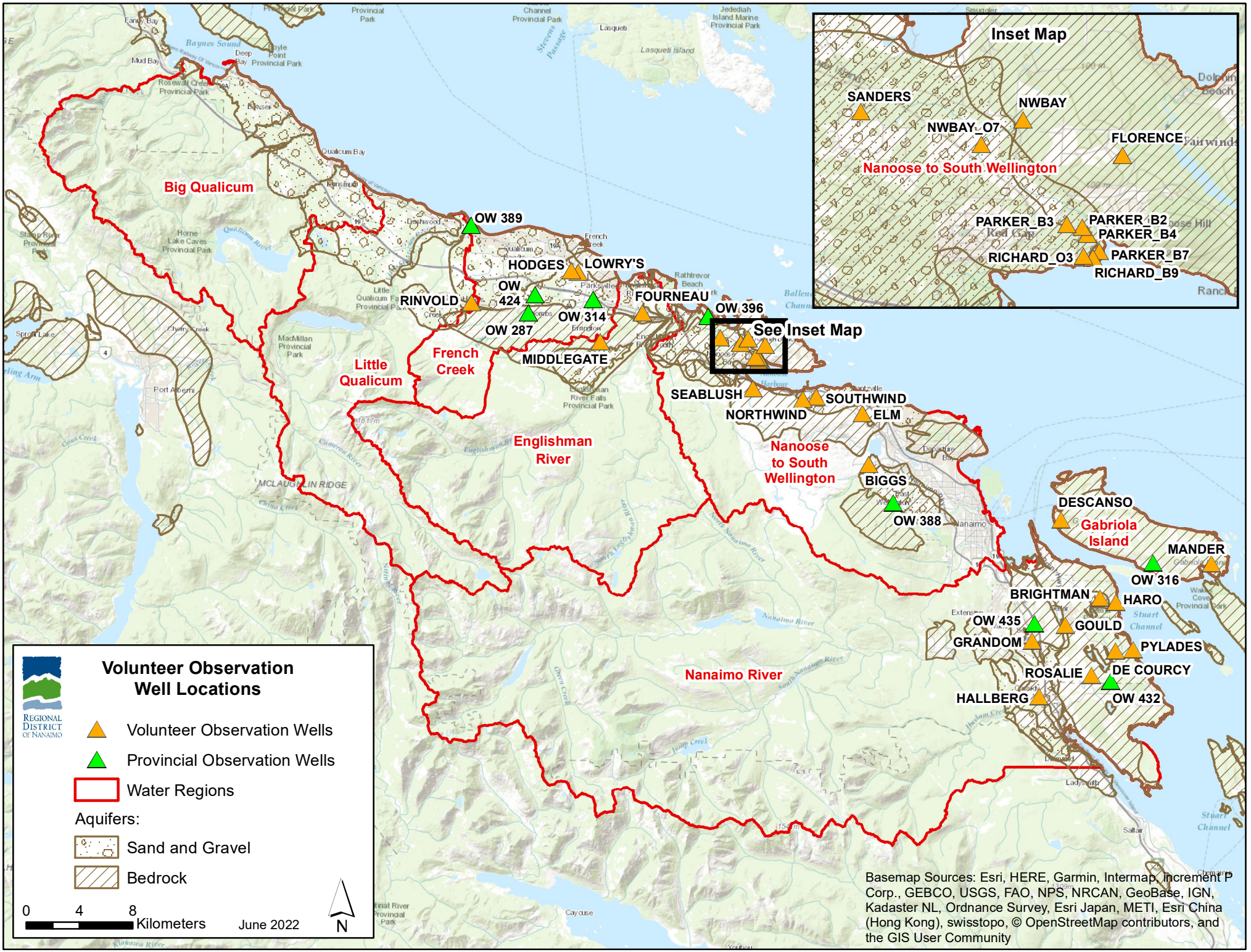
Figure 1 – Volunteer Observation Well Locations

REGIONAL DISTRICT OF NANAIMO


Inset Map
SANDERS
NWBAY
NWBAY_O7
FLORENCE
Nanoose to South Wellington
PARKER_B3
PARKER_B2
PARKER_B4
RICHARD_O3
PARKER_B7
RICHARD_B9
Big Qualicum
OW 389
HODGES
LOWRY'S
OW 424
RINVOLD
FOURNEAU
OW 396
OW 314
OW 287
See Inset Map
MIDDLEGATE
Little Qualicum
French Creek
SEABLUSH
SOUTHWIND
NORTHWIND
ELM
Englishman River
Nanoose to South Wellington
BIGGS
OW 388
DESCANSO
Gabriola Island
MANDER
OW 316
BRIGHTMAN
HARO
OW 435
GOULD
GRANDOM
PYLADES
Nanaimo River
ROSALIE
DE COURCY
HALLBERG
OW 432
Volunteer Observation Well Locations
Volunteer Observation Wells
Provincial Observation Wells
Water Regions
Aquifers:
Sand and Gravel
Bedrock
0 4 8 Kilometers
June 2022
N
Basemap Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Appendix A – Overview of Groundwater Observation Well Data

REGIONAL DISTRICT OF NANAIMO

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 - 2022)	Groundwater Level Trend 2022	Seasonal Groundwater Level Charts (Figure #)	Water Service Wells (provided in 2021 report) Correlated to Each Mapped Aquifer	Total Number of Registered Wells Correlated to Each Mapped Aquifer (2022)
	Active Provincial Groundwater Observation Wells used in 2022 Analysis	Active RDN Volunteer Observation Wells (Site Name and Number) used in 2022 Analysis						
Little Qualicum	OW 389	-	664-Surficial (UNC)	Increasing	Above	Figure B-1 Figure C-1	Town of Qualicum Beach – 9 Wells Regional District of Nanaimo – 2 Wells Small Water Systems - 1 Well	43
French Creek	-	Rinvold (VOW 16)	217-Surficial (CON)	Increasing	Average	Figure B-2 Figure C-2	Town of Qualicum Beach – 6 Wells Regional District of Nanaimo – 7 Wells EPCOR Utilities – 1 Well Small Water Systems - 12 Wells	33
	-	Lowrys (VOW 15)	212-Bedrock	Increasing	Above	Figure B-3 Figure C-3	Small Water Systems - 1 Well	19
Englishman River	OW 314 and OW 424	Hodges (VOW 14) and Fourneau (VOW 01)	216-Surficial (CON)	Increasing	Average to Above	Figure B-4-B-7 Figure C-4-C-7	City of Parksville – 20 Wells EPCOR Utilities – 5 Wells Small Water Systems - 6 Wells	24
	OW 287	Middlegate (VOW 18)	220-Bedrock	Large Decline to Stable	Below to Above	Figure B-8-B-9 Figure C-8-C-9	BC Parks - Vancouver Island Region – 1 Well Small Water Systems - 7 Wells	279
Nanoose to South Wellington	-	Biggs (VOW 12)	167-Surficial (CON)	Stable	Above	Figure B-10 Figure C-10	Small Water Systems - 2 Wells	18
	OW 388	-	211-Bedrock	Large Decline	Average	Figure B-11 Figure C-11	Small Water Systems - 2 Wells	214
	-	Sea Blush (VOW 13), Northwind (VOW 02) and Elm (VOW 03)	213-Bedrock	Increasing	Average to Above	Figure B-12-B-14 Figure C-12-C-14	Small Water Systems - 14 Wells	132
	-	B2 (VOW 30), B3 (VOW 31), B4 (VOW 32), B7 (VOW 33) and B9 (VOW 34)	214-Bedrock	Large Decline to Increasing	Average	Figure B-15-B-19 Figure C-15-C-19	Regional District of Nanaimo – 1 Well Small Water Systems - 3 Wells	40
	-	NWB (VOW 27) and Florence (VOW 26)	218-Bedrock	Moderate Decline to Stable	Average	Figure B-20-B-21 Figure C-20-C-21	Regional District of Nanaimo – 2 Wells Small Water Systems - 5 Wells	41
	-	Southwind (VOW 28)	215-Surficial (CON)	Moderate Decline	Average	Figure B-22 Figure C-22	District of Lantzville – 7 Wells Nanoose First Nation – 3 Wells Small Water Systems - 5 Wells	142
	OW 396	Sanders (VOW 25)	219-Surficial (CON)	Stable to Increasing	Above	Figure B-23-B-24 Figure C-23-C-24	Regional District of Nanaimo – 9 Wells EPCOR Utilities – 1 Well Small Water Systems - 9 Wells	53
	-	O3 (VOW 29) and O7 (VOW 17)	1098-Surficial (CON)	Stable to Increasing	Average	Figure B-25-B-26 Figure C-25-C-26	Qualicum School District – 2 Wells Regional District of Nanaimo – 14 Wells Small Water Systems - 1 Well	89
Nanaimo River	-	Hallberg (VOW 04)	160-Surficial (CON)	Increasing	Average	Figure B-27 Figure C-27	Small Water Systems - 1 Well	36
	-	Brightman (VOW 24)	163-Surficial (CON)	Moderate Decline	Average	Figure B-28	None	17
	OW 432	Pylades (VOW 06), DeCourcy (VOW 19), Rosalie (VOW 21), Gould (VOW 22), and Haro (VOW 23)	162-Bedrock	Moderate Decline to Increasing	Average to Above	Figure B-29-B-34 Figure C-29-C-34	Regional District of Nanaimo – 1 Wells Chemainus First Nation – 6 Wells Shell Beach Water Utility – 4 Wells Small Water Systems - 21 Wells	1237
	OW 435	Grandom (VOW 05)	165-Bedrock	Moderate Decline to Increasing	Above	Figure B-35-B-36 Figure C-35-C-36	Small Water Systems - 5 Wells	327
Gabriola	OW 316	Mander (VOW 08) and Descansco (VOW 07)	709-Bedrock	Large Decline to Stable	Average to Above	Figure B-37-B-39 Figure C-37-C-39	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 wells database (BC MoE, 2022); OW 393 (aquifer 219) not included in 2022 analysis as site was vandalized and components stolen; Ritten (VOW 20) not included in 2022 analysis due to site access limitations; OW trend data included in Appendix A is from Regional Groundwater Level Analysis 2021 (Waterline, 2021).

Appendix B – Long-Term Groundwater Level Trend Results

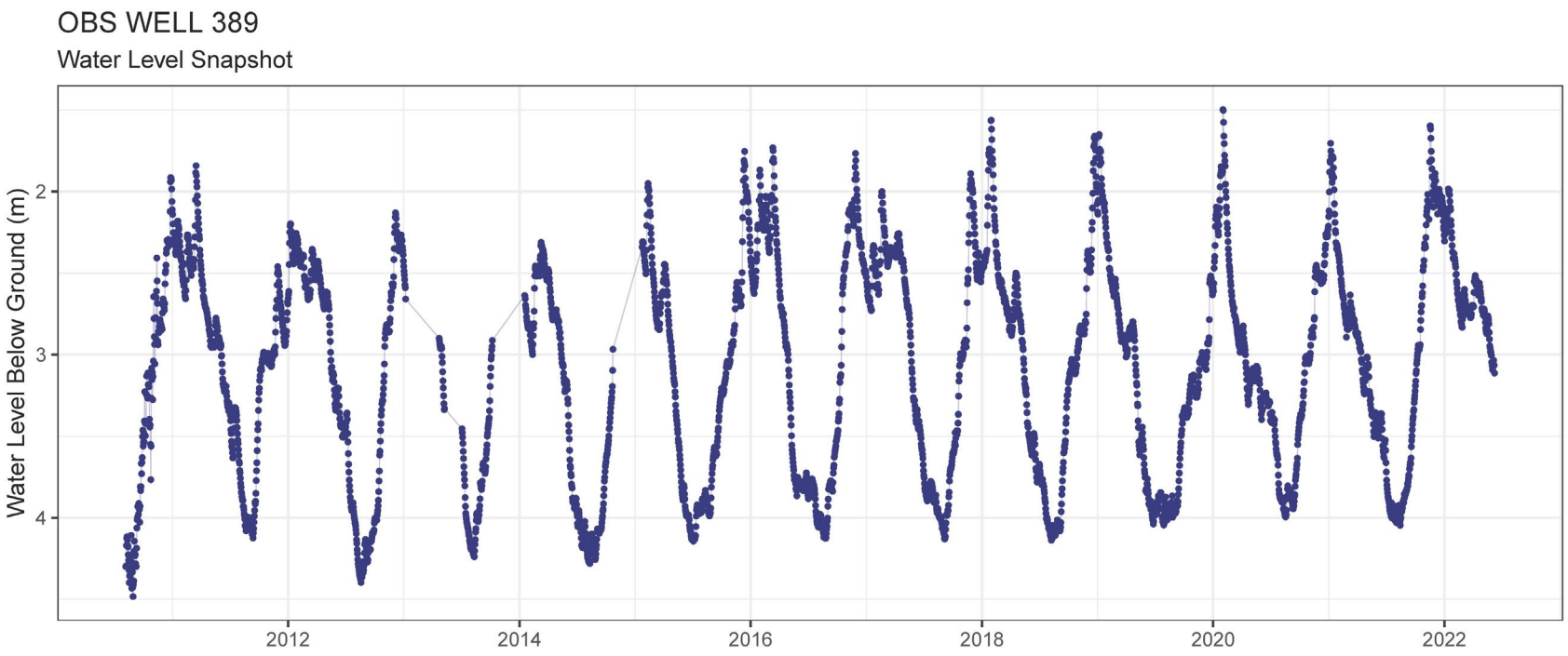
REGIONAL DISTRICT OF NANAIMO

Table B1: Long-Term Groundwater Level Trench Results for the VOWN and PGOWN in 2022

Chart ID	Water Regions	Observation Well Number	Aquifer	Aquifer Type	Date Range (whole years)	Trend Slope	trend Result (m per year)	Historical Groundwater Level Trend (2013 - 2021)
1	Little Qualicum	OW 389	664	Surficial	2013-2021	-	-	-
2	French Creek	VOW 16	217	Surficial	2018-2021	-1.87E-04	0.07	Increasing
3		VOW 15	212	Bedrock	2018-2021	-7.21E-04	0.26	Increasing
4	Englishman River	OW 314	216	Surficial	2013-2021	-	-	-
5		OW 424	216	Surficial	2013-2021	-	-	-
6		VOW 14	216	Surficial	2018-2021	-4.60E-04	0.17	Increasing
7		VOW 01	216	Surficial	2014-2021	-1.47E-04	0.05	Increasing
8		OW 287	220	Bedrock	2013-2021	-	-	-
9		VOW 18	220	Bedrock	2018-2021	-5.63E-04	0.21	Increasing
10	Nanoose to South Wellington	VOW 12	167	Surficial	2017-2021	2.04E-05	-0.01	Stable
11		OW 388	211	Bedrock	2013-2021	-	-	-
12		VOW 02	213	Bedrock	2014-2021	-8.75E-04	0.32	Increasing
13		VOW 03	213	Bedrock	2014-2021	-4.90E-04	0.18	Increasing
14		VOW 13	213	Bedrock	2017-2021	-2.53E-04	0.09	Increasing
15		VOW 30	214	Bedrock	2016-2021	-1.34E-03	0.49	Increasing
16		VOW 31	214	Bedrock	2016-2021	-5.02E-04	0.18	Increasing
17		VOW 32	214	Bedrock	2016-2021	-6.75E-04	0.25	Increasing
18		VOW 33	214	Bedrock	2016-2021	1.27E-03	-0.46	Large Decline
19		VOW 34	214	Bedrock	2016-2021	-5.94E-04	0.22	Increasing
20		VOW 27	218	Bedrock	2018-2021	5.08E-04	-0.19	Large Decline
21		VOW 26	218	Bedrock	2018-2021	2.24E-04	-0.08	Moderate Decline
22		VOW 28	215	Surficial	2018-2021	4.89E-05	-0.02	Stable
23		OW 396	219	Surficial	2013-2021	-	-	-
24		VOW 25	219	Surficial	2018-2021	-4.33E-04	0.16	Increasing
25		VOW 29	1098	Surficial	2016-2021	-9.31E-05	0.03	Stable
26		VOW 17	1098	Surficial	2016-2021	-7.05E-04	0.26	Increasing
27	Nanaimo River	VOW 04	160	Surficial	2014-2021	-9.43E-05	0.03	Stable
28		VOW 24	163	Surficial	2018-2021	1.11E-04	-0.04	Moderate Decline
29		OW 432	162	Bedrock	2014-2021	-	-	-
30		VOW 06	162	Bedrock	2014-2021	3.69E-04	-0.13	Moderate Decline
31		VOW 19	162	Bedrock	2018-2021	-1.46E-03	0.53	Increasing
32		VOW 21	162	Bedrock	2018-2021	-1.77E-04	0.06	Increasing
33		VOW 22	162	Bedrock	2018-2021	-3.27E-04	0.12	Increasing
34		VOW 23	162	Bedrock	2018-2021	1.81E-04	-0.07	Moderate Decline
35		OW 435	165	Bedrock	2014-2021	-	-	-
36		VOW 05	165	Bedrock	2014-2021	-2.41E-04	0.09	Increasing
37	Gabriola	OW 316	709	Bedrock	2014-2021	-	-	-
38		VOW 08	709	Bedrock	2014-2021	4.76E-04	-0.17	Large Decline
39		VOW 07	709	Bedrock	2014-2021	-6.45E-05	0.02	Stable

Notes: The province completes trend analysis every five years on OWs, trends listed above are from Regional Groundwater Level Analysis 2021. OW - Wells associated with the PGOWN. VOW - Wells associated with the VOWN.

OW 389 (WR2 – Little Qualicum) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations.
The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

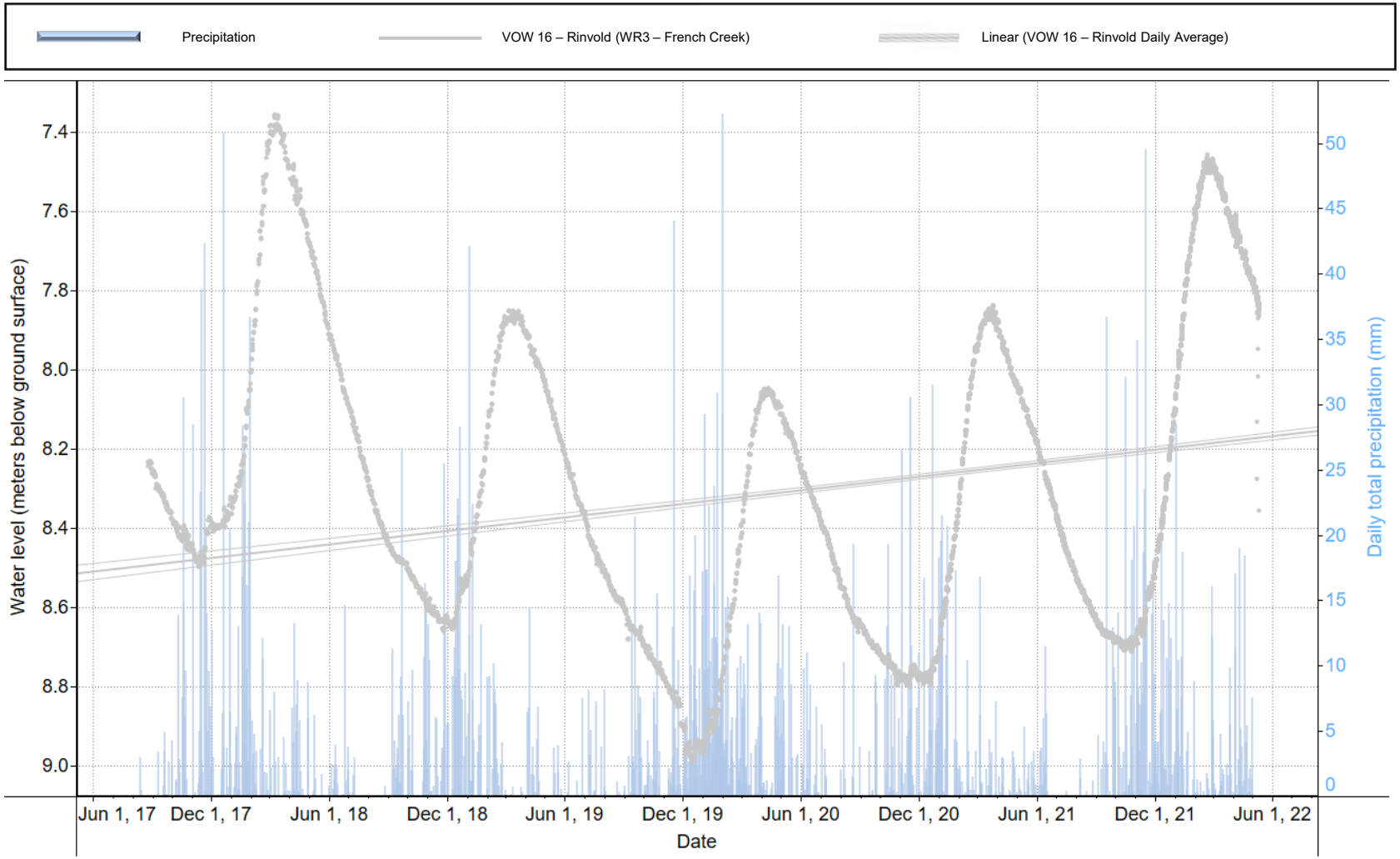
NOTES:
Observation Well Associated with Aquifer 664

Aquifer 664 is Unconfined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-1



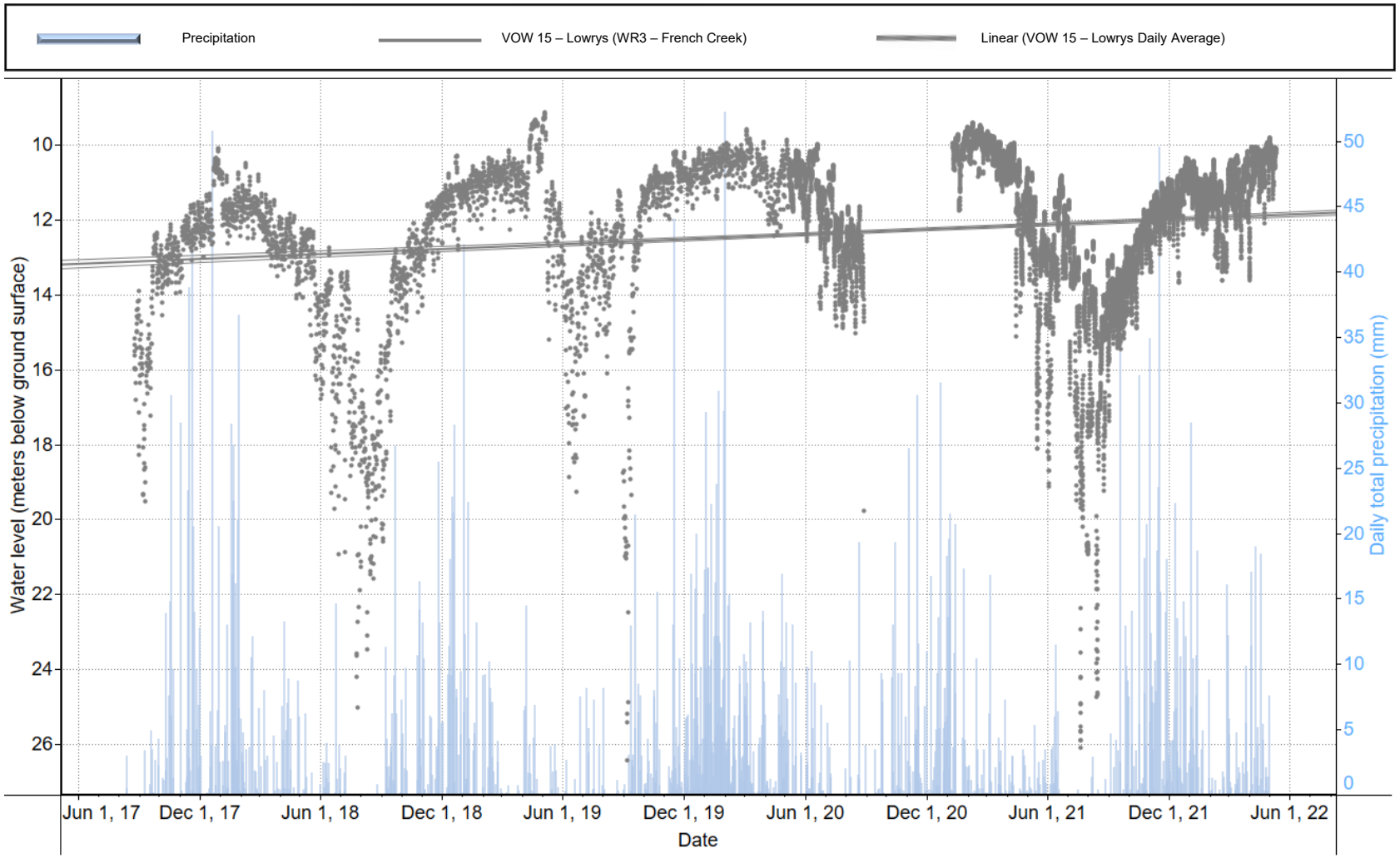
NOTES:
Observation Well Associated with Aquifer 217

Aquifer 217 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-2



NOTES:
Observation Well Associated with Aquifer 212

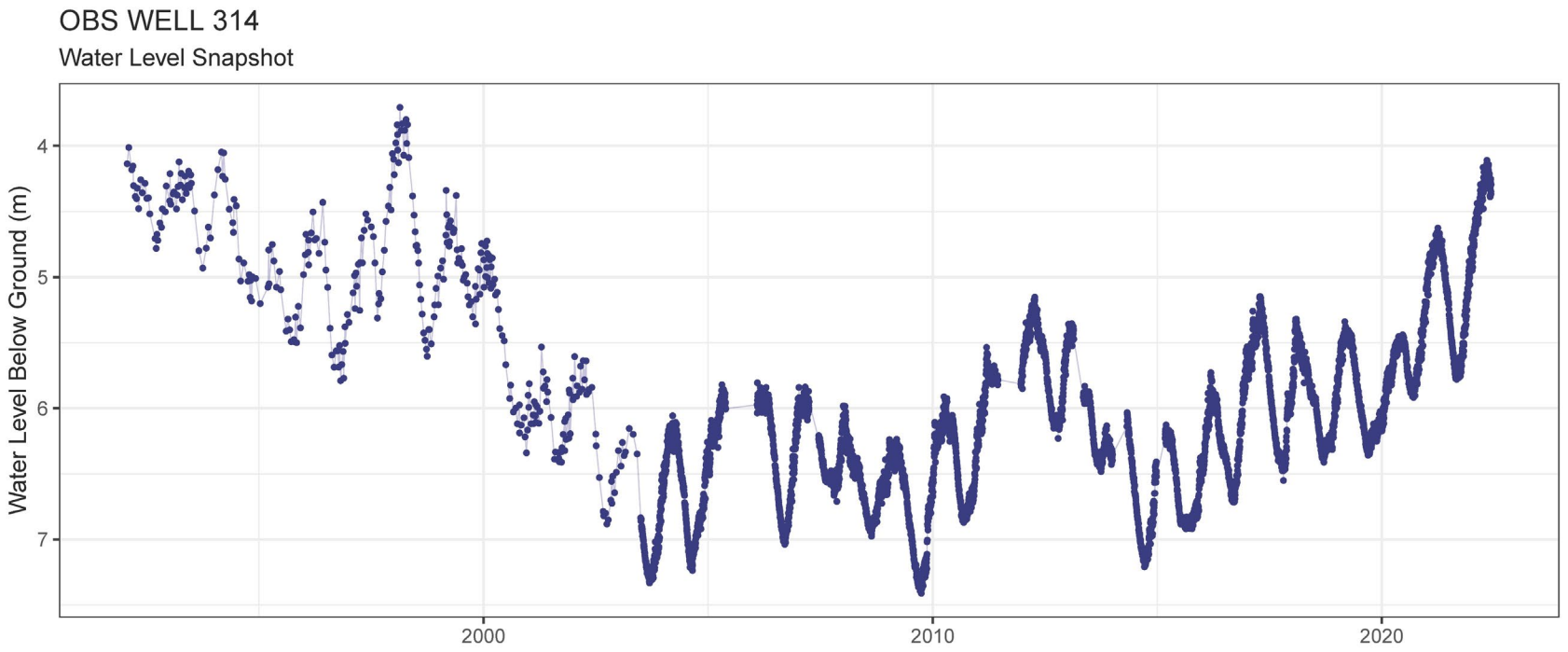
Aquifer 212 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
VOW 15 – Lowrys (WR3 – French Creek)

FIGURE B-3

OW 314 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

NOTES:
Observation Well Associated with Aquifer 216

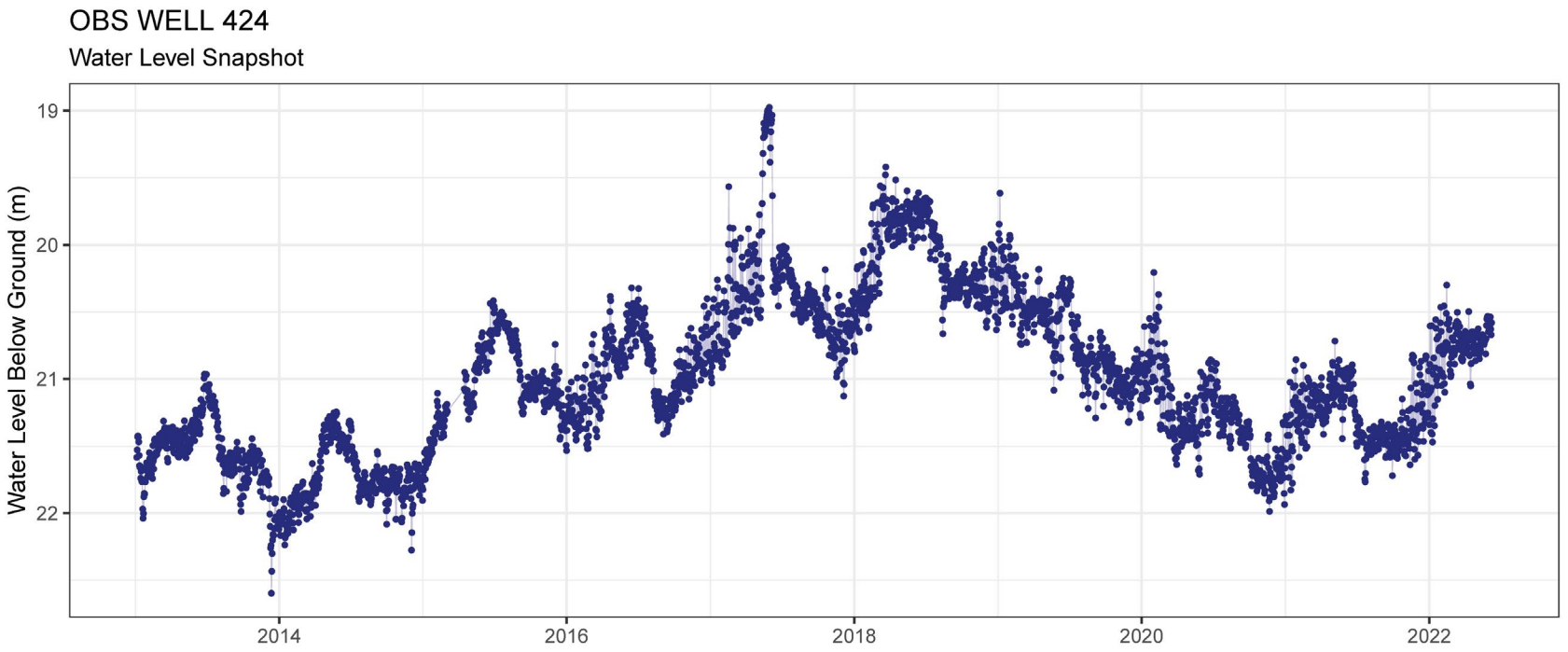
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART OW 314 (WR4 – Englishman River)

FIGURE B-4

OW 424 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

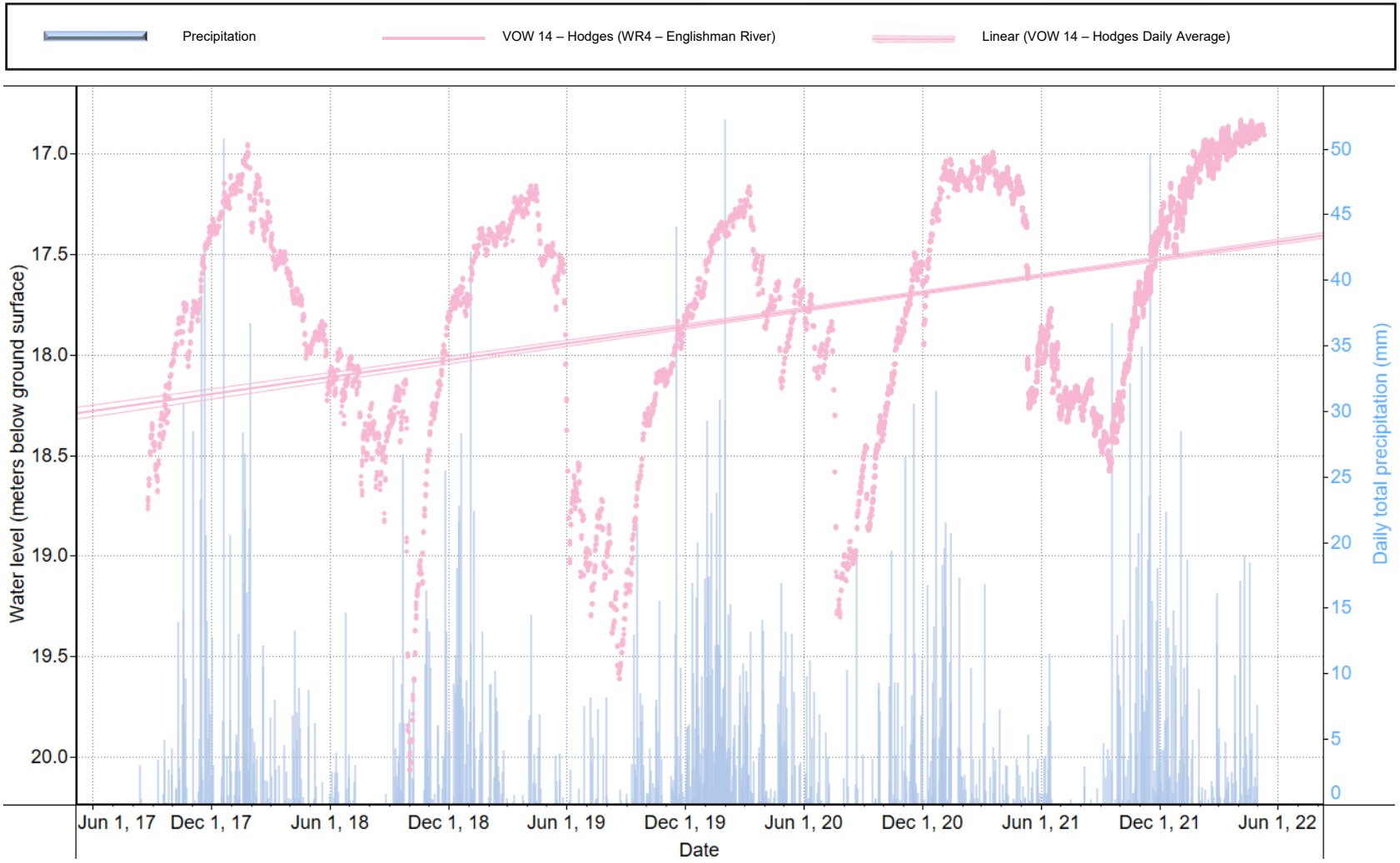
NOTES:
Observation Well Associated with Aquifer 216

Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART OW 424 (WR4 – Englishman River)

FIGURE B-5



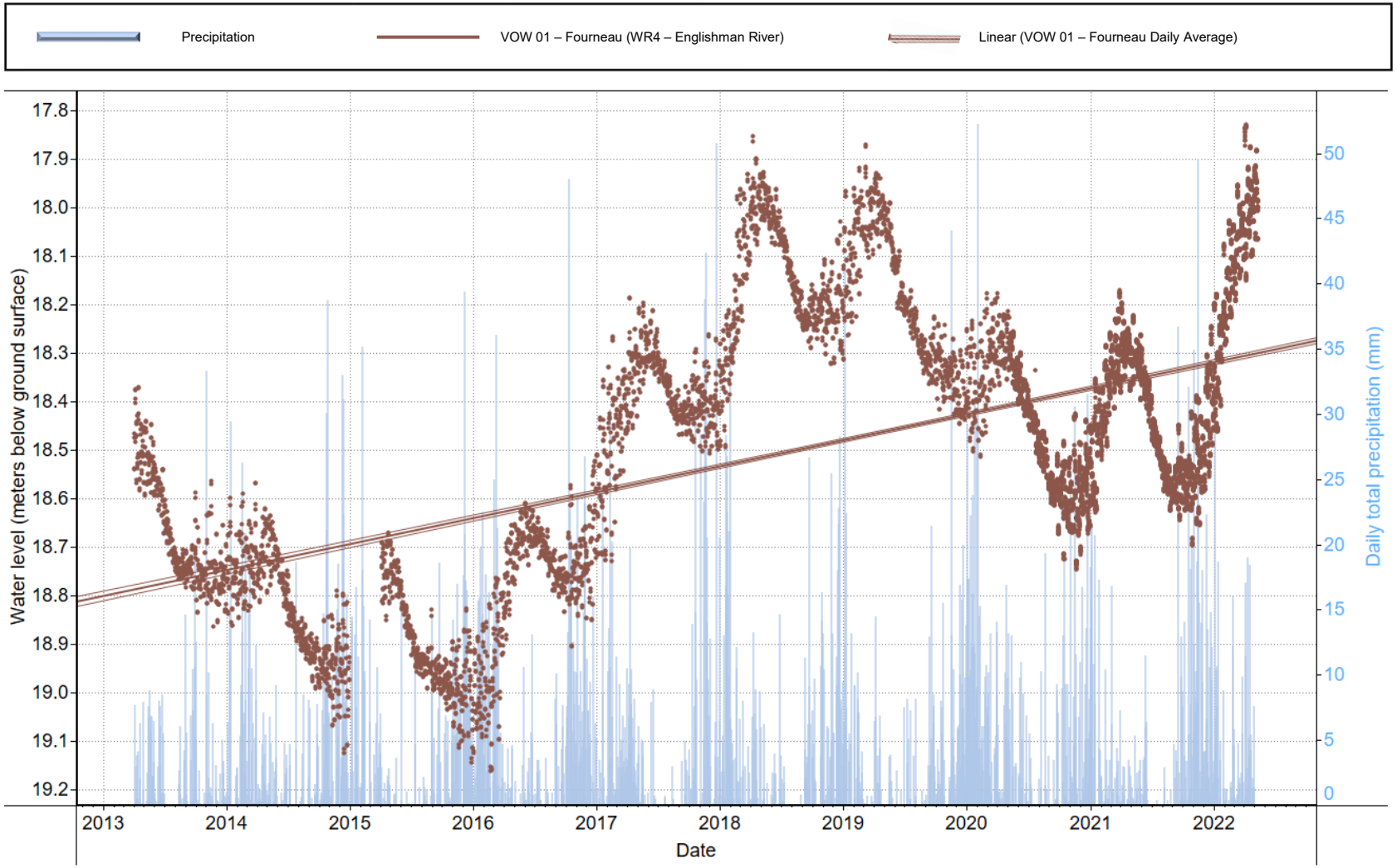
NOTES:
Observation Well Associated with Aquifer 216

Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
VOW 14 – Hodges (WR4 – Englishman River)

FIGURE B-6



NOTES:
Observation Well Associated with Aquifer 216

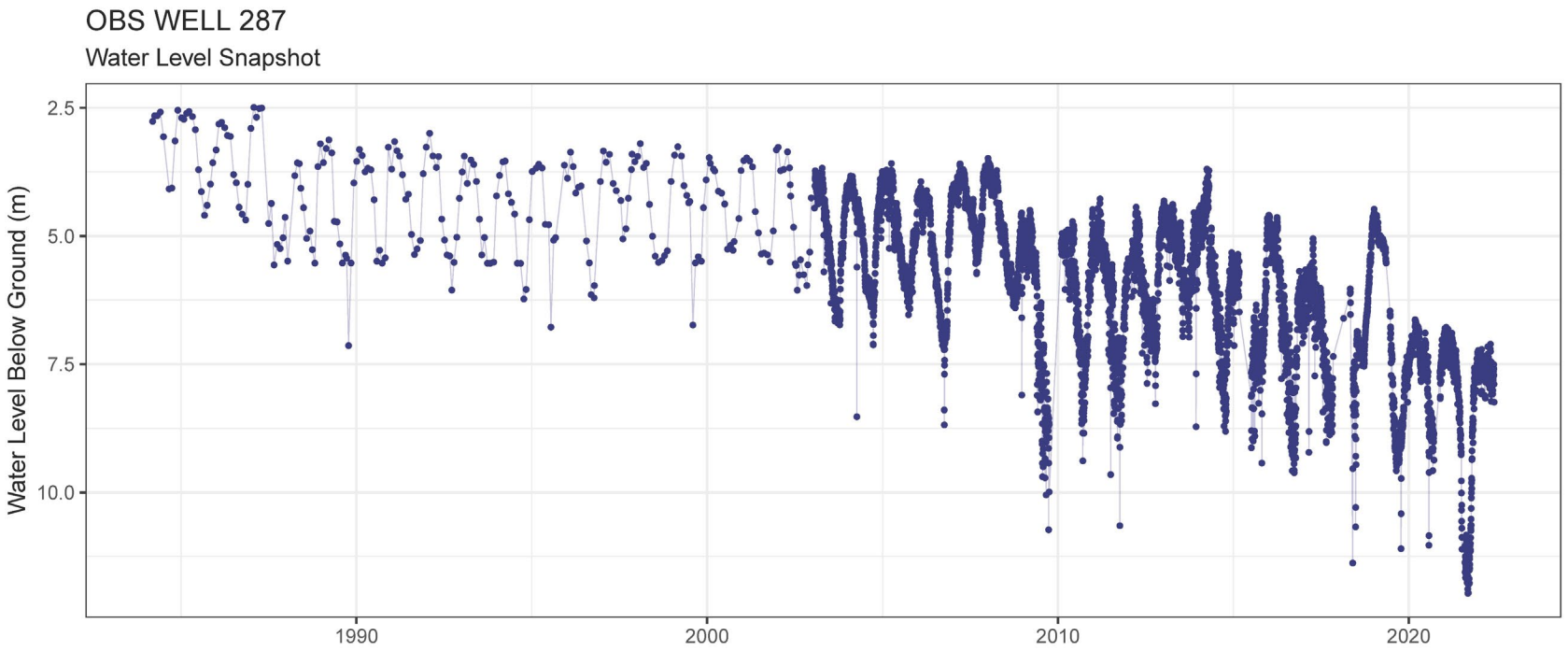
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-7

OW 287 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

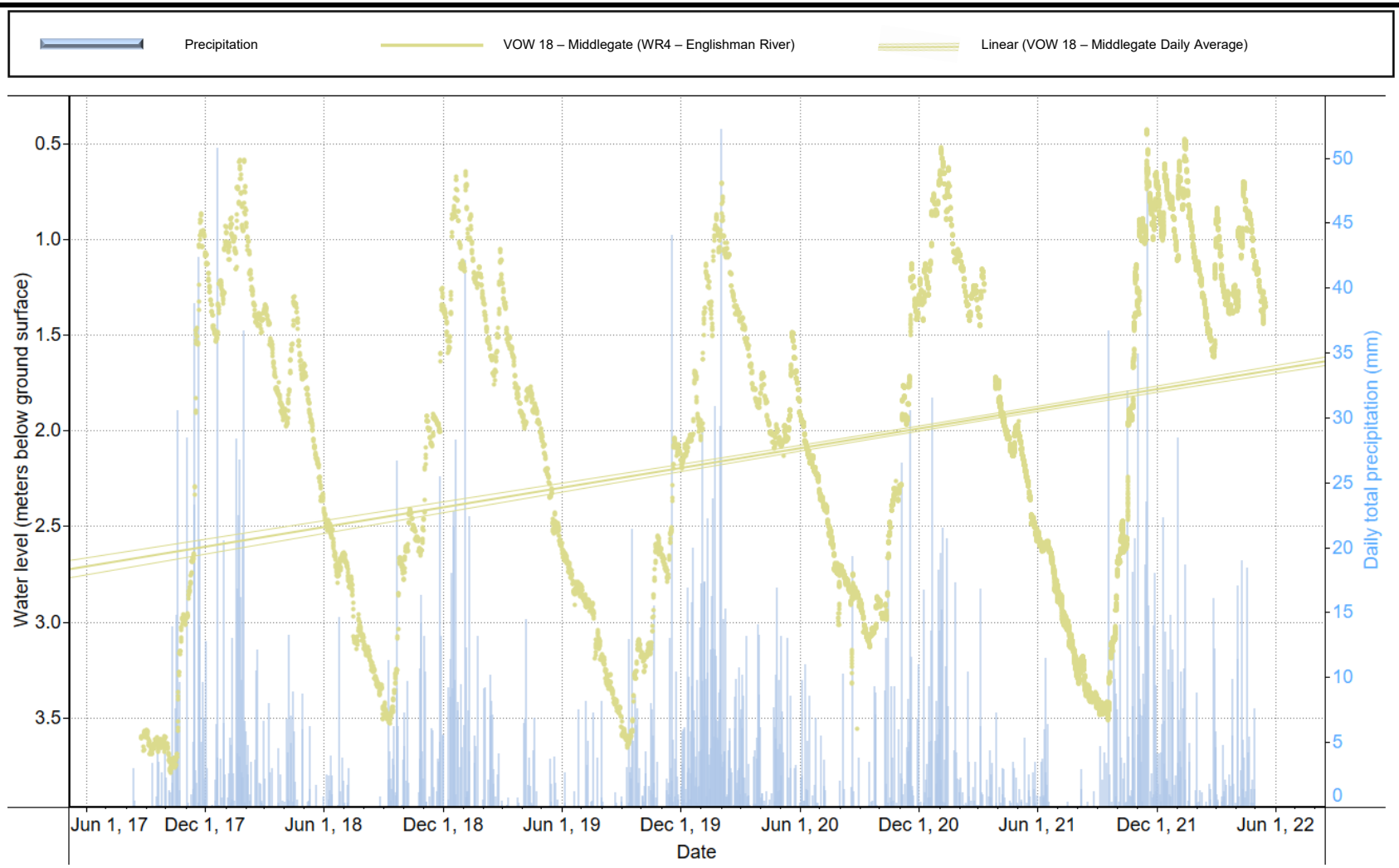
NOTES:
Observation Well Associated with Aquifer 220

Aquifer 220 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART OW 287 (WR4 – Englishman River)

FIGURE B-8



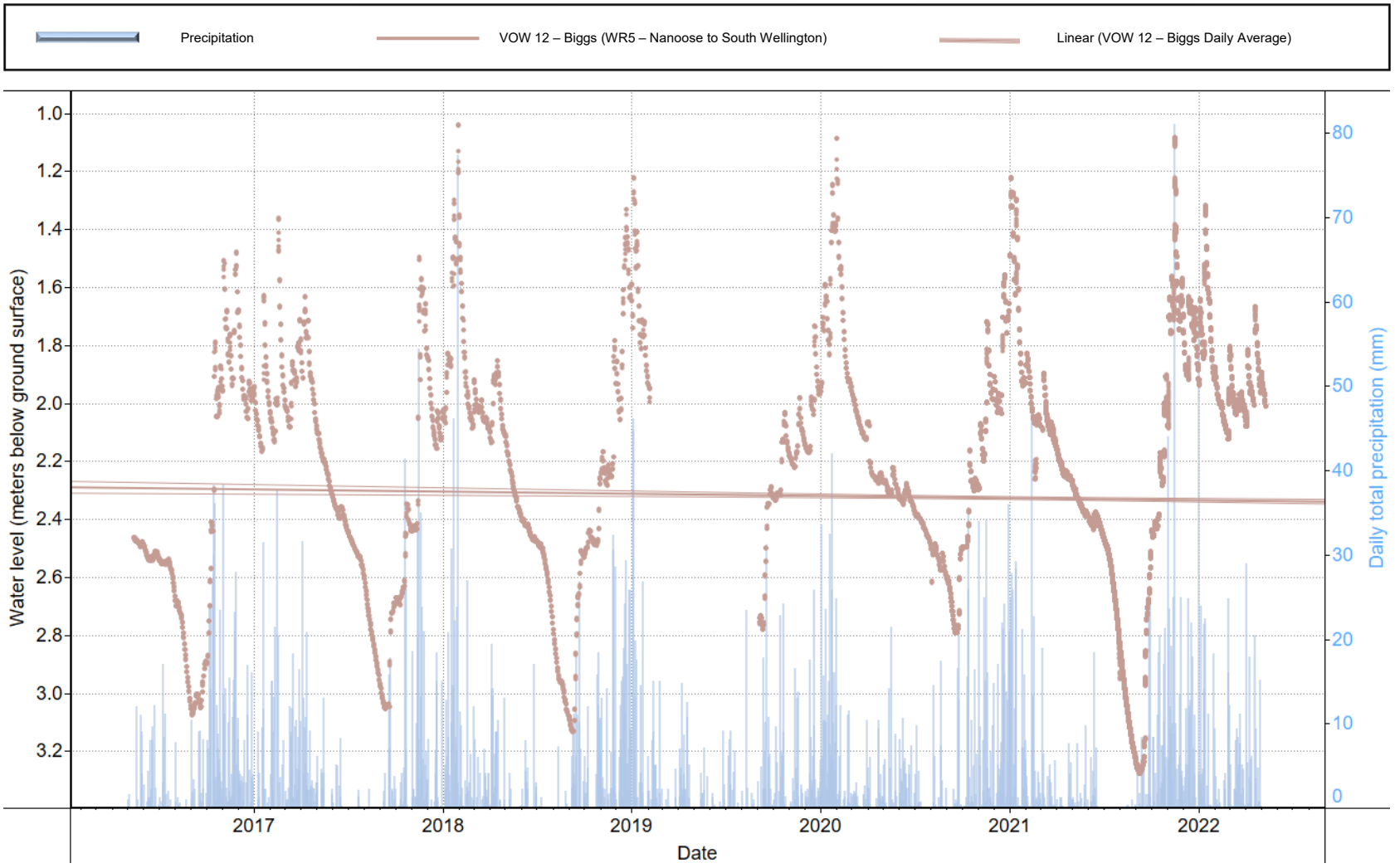
NOTES:
Observation Well Associated with Aquifer 220

Aquifer 220 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-9



NOTES:
Observation Well Associated with Aquifer 167

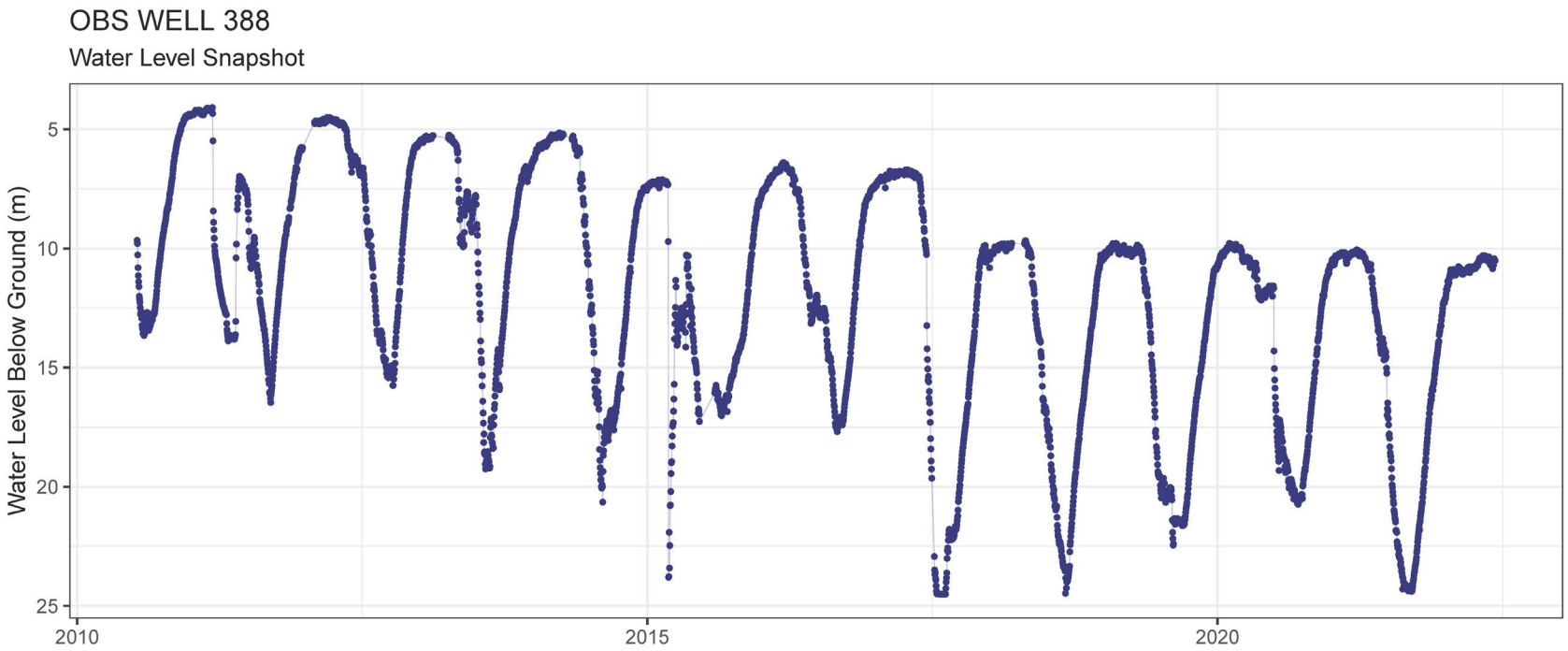
Aquifer 167 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-10

OW 388 (WR5 – Nanoose to South Wellington) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

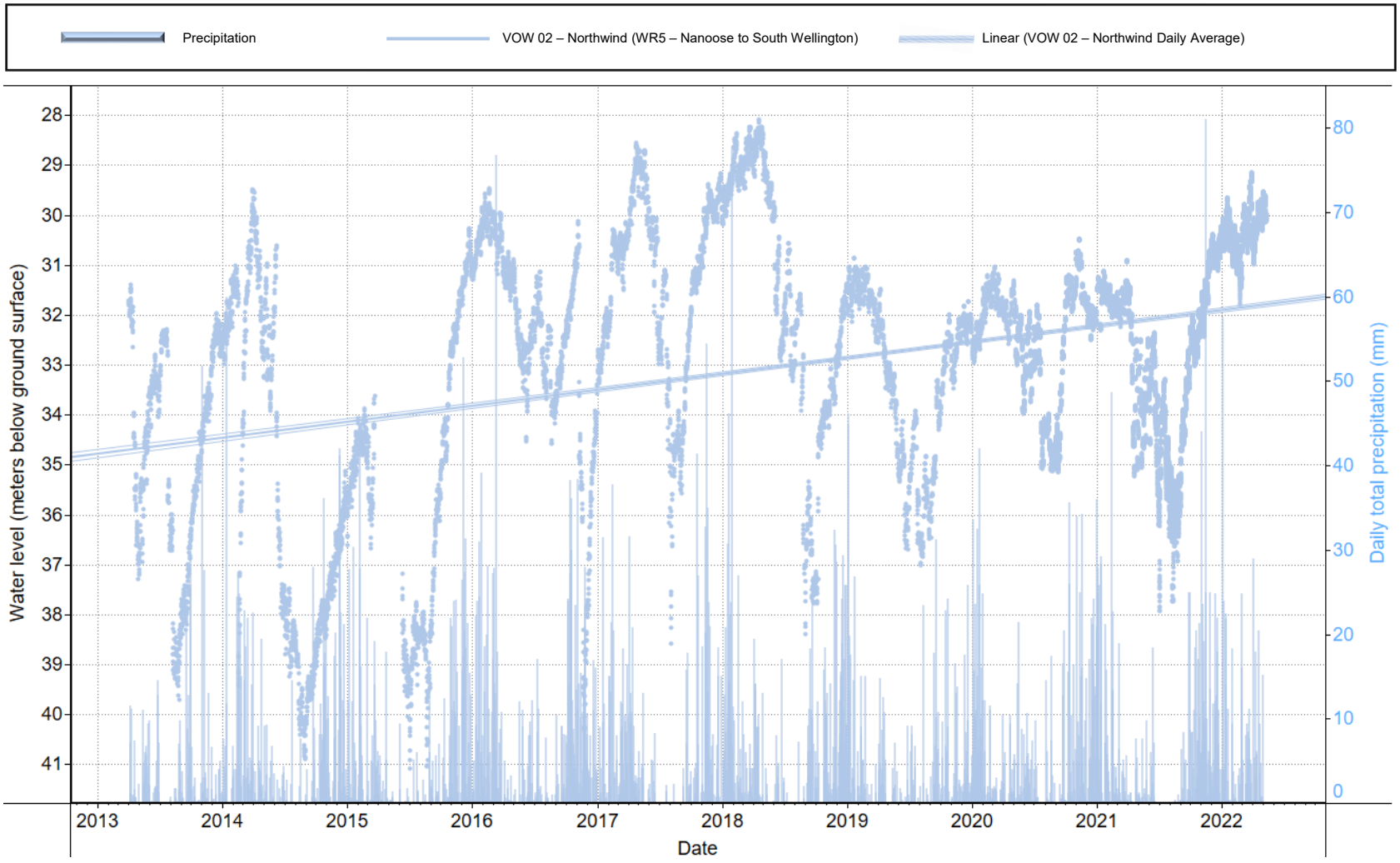
NOTES:
Observation Well Associated with Aquifer 211

Aquifer 211 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-11



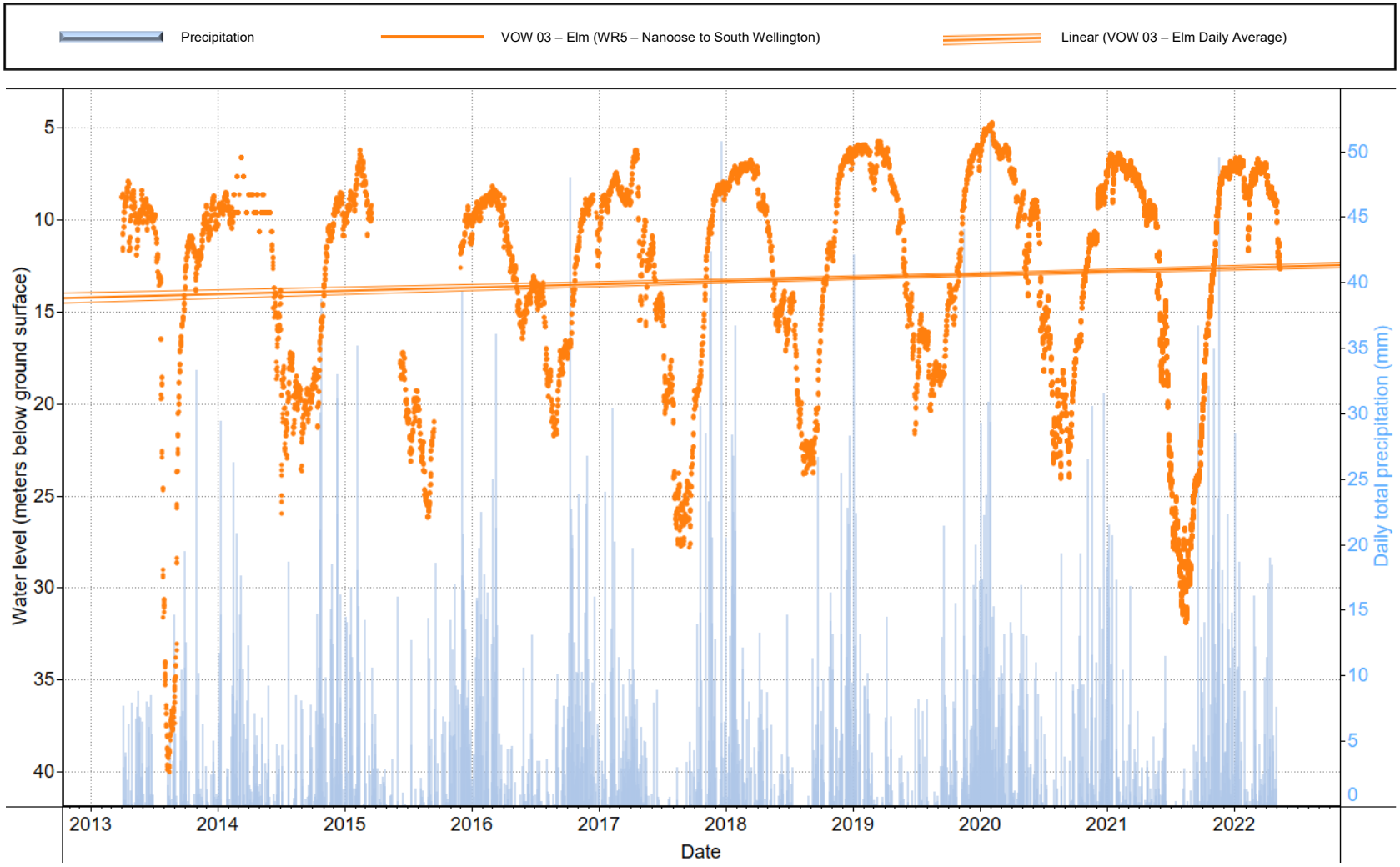
NOTES:
Observation Well Associated with Aquifer 213

Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-12



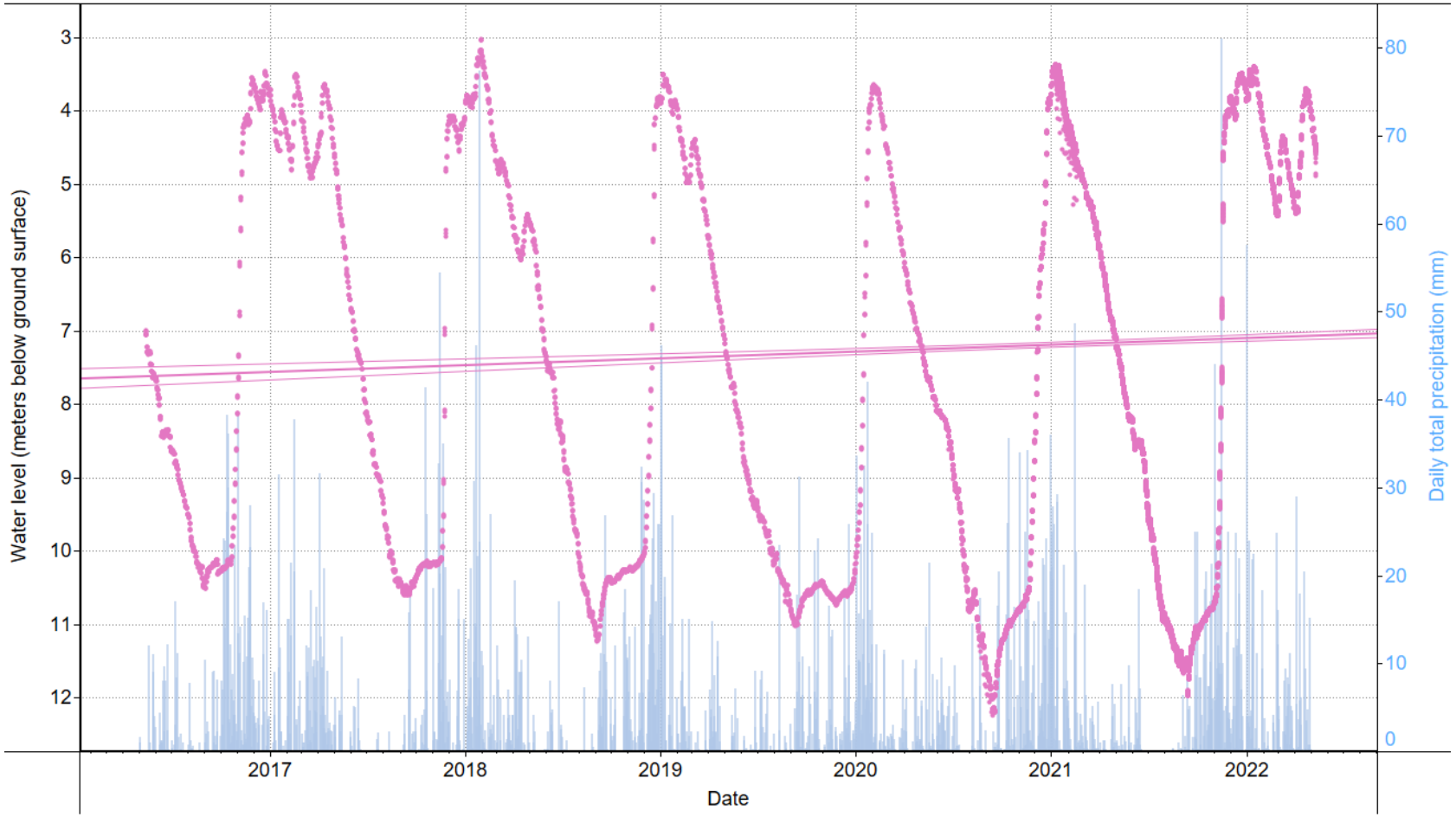
NOTES:
Observation Well Associated with Aquifer 213

Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-13



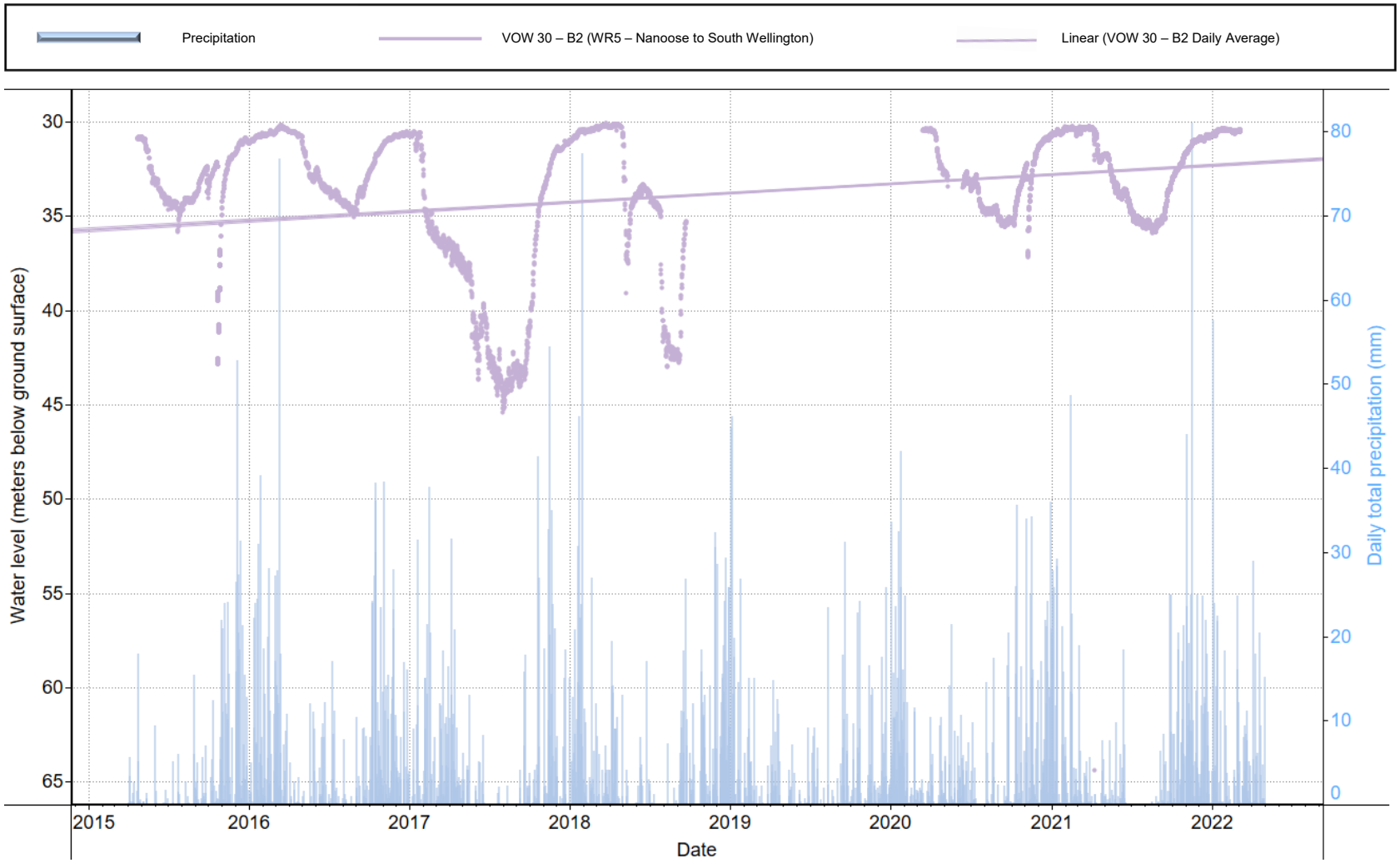
NOTES:
Observation Well Associated with Aquifer 213

Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-14



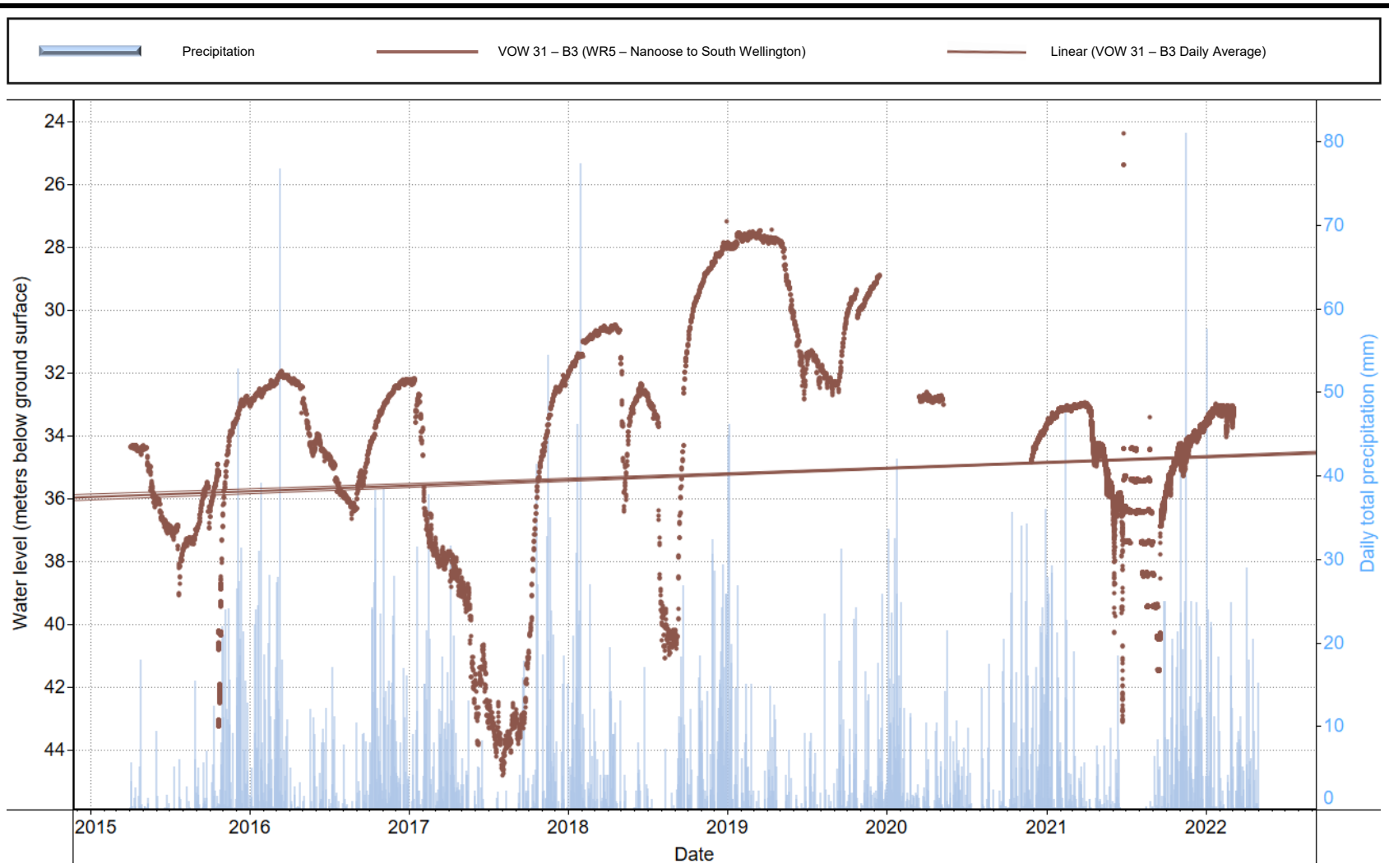
NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-15



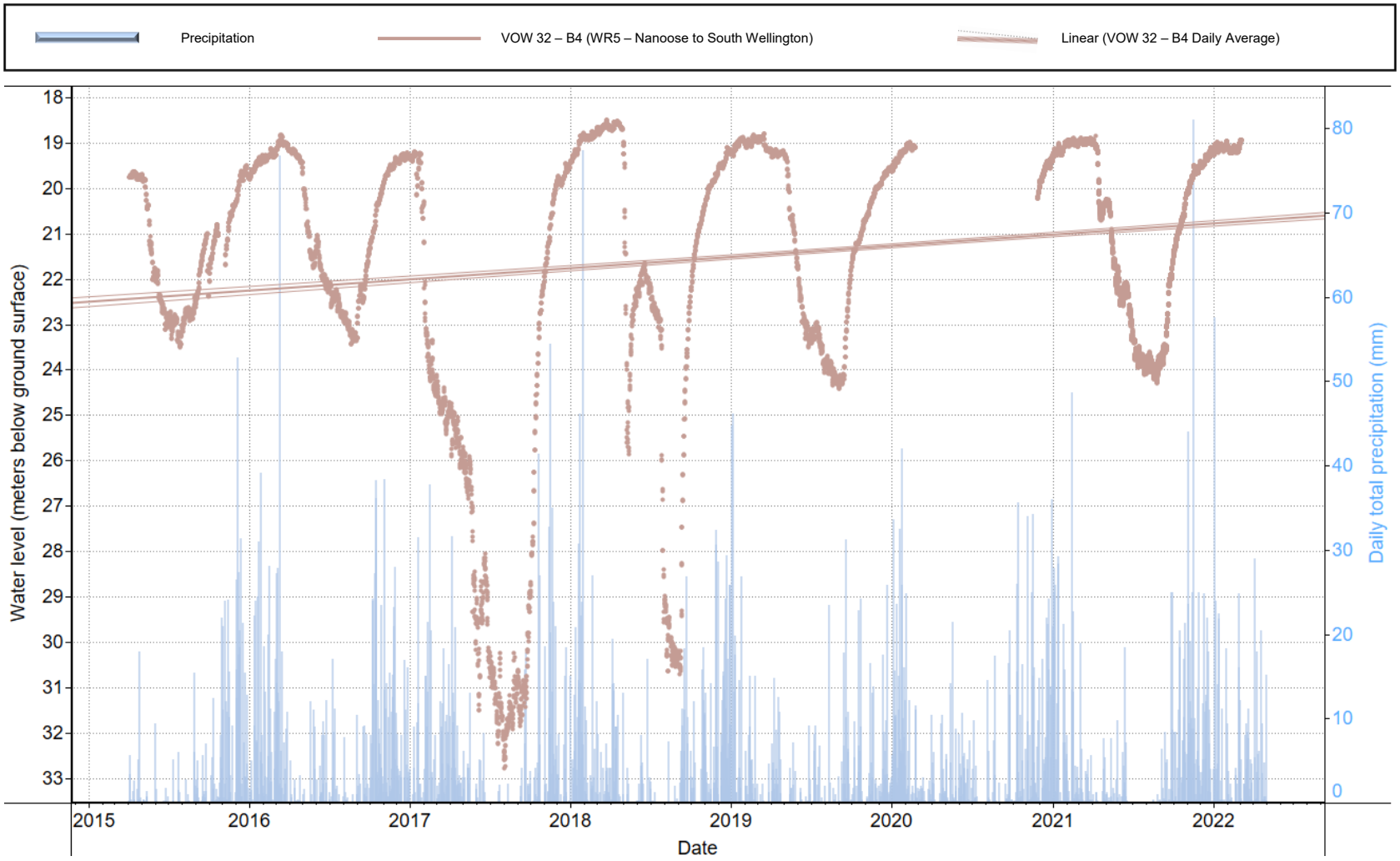
NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-16



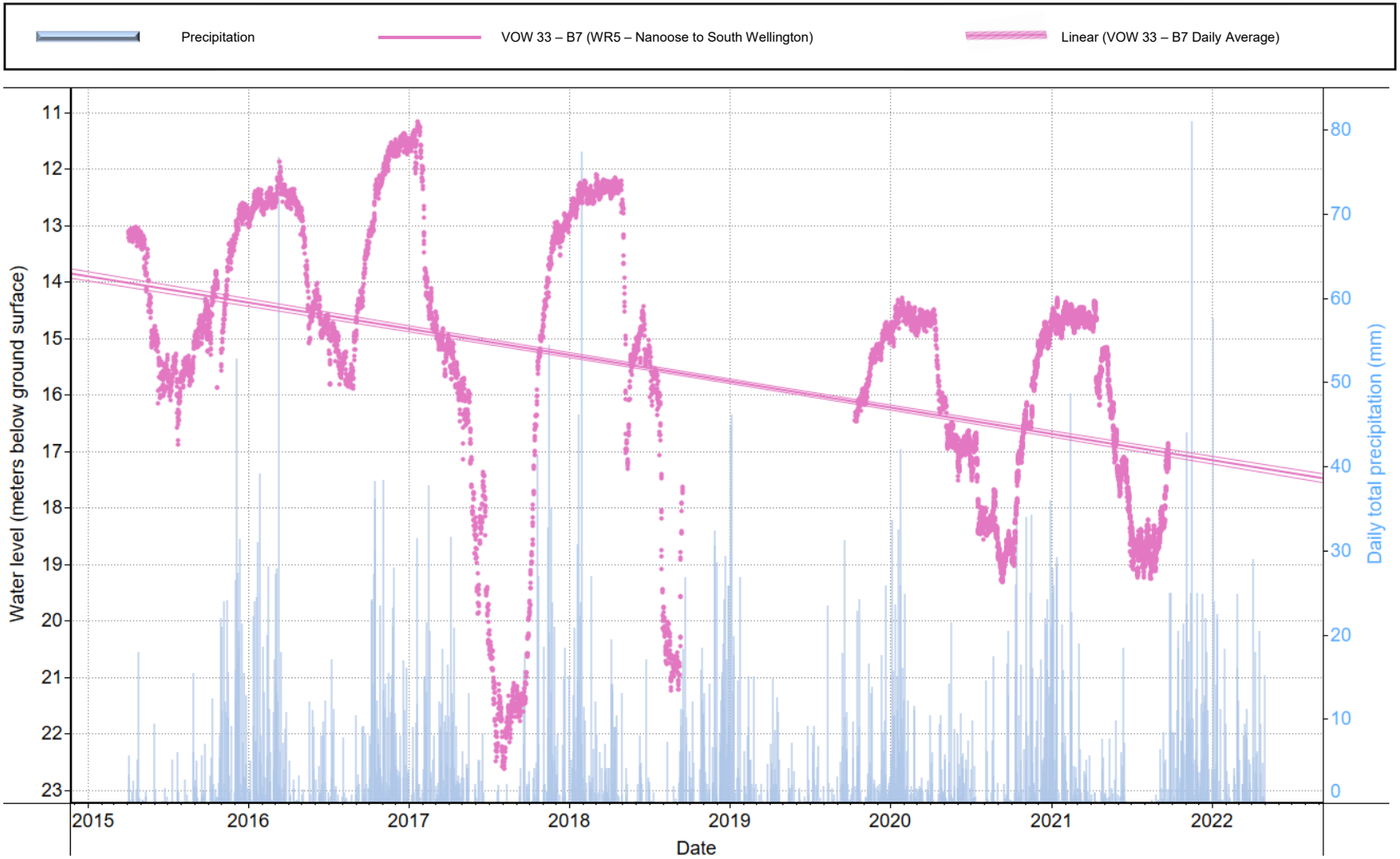
NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-17



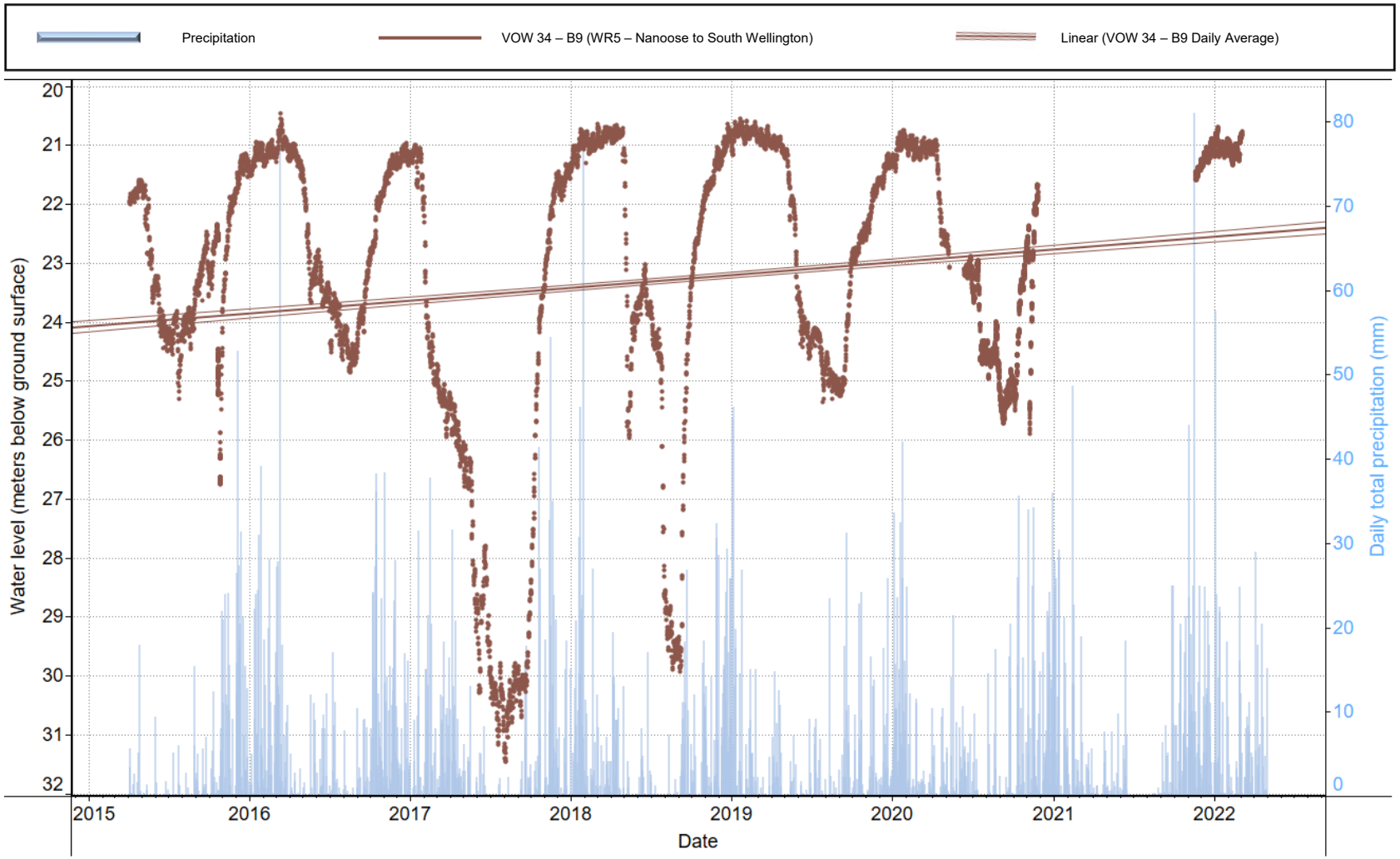
NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-18



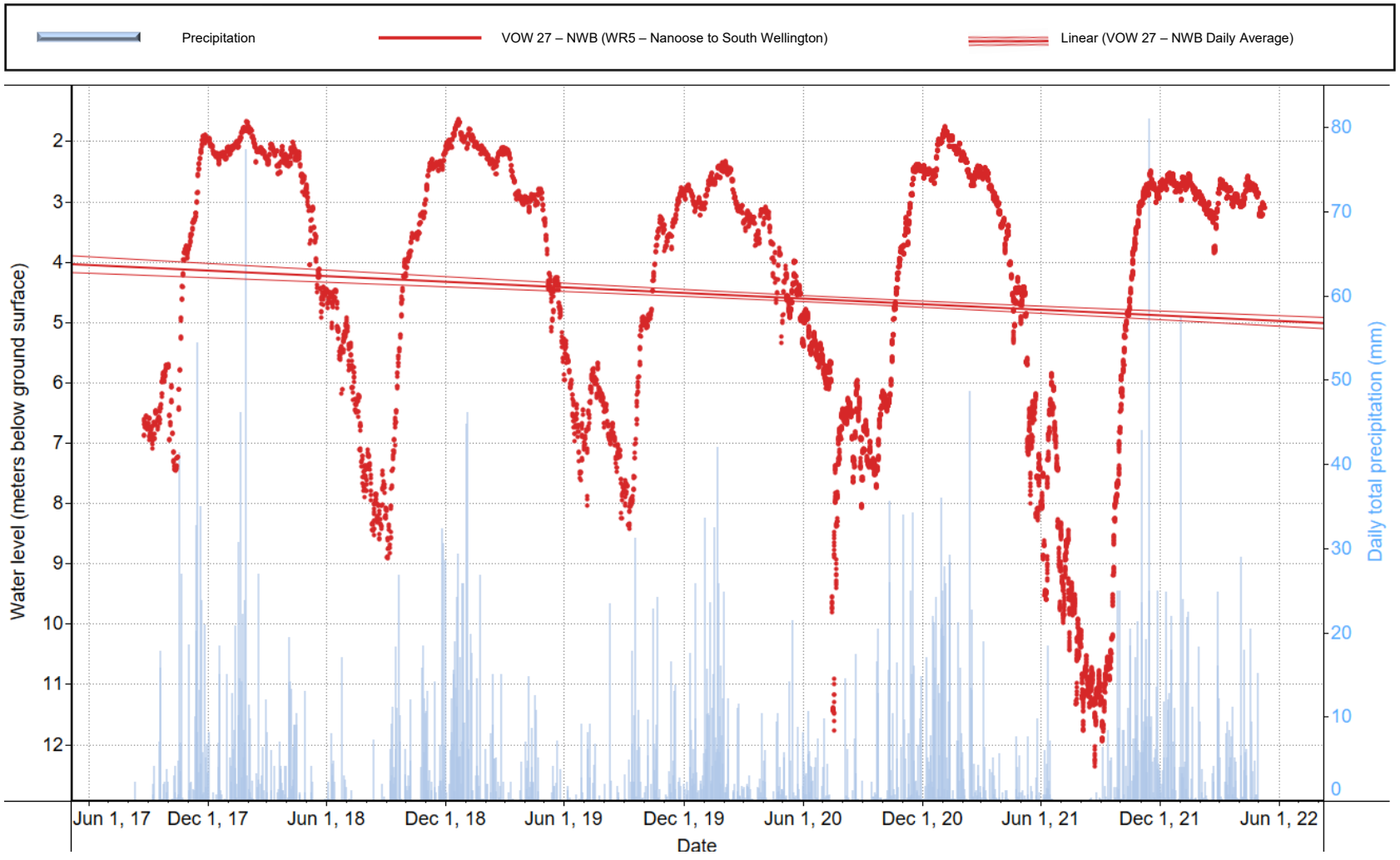
NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-19



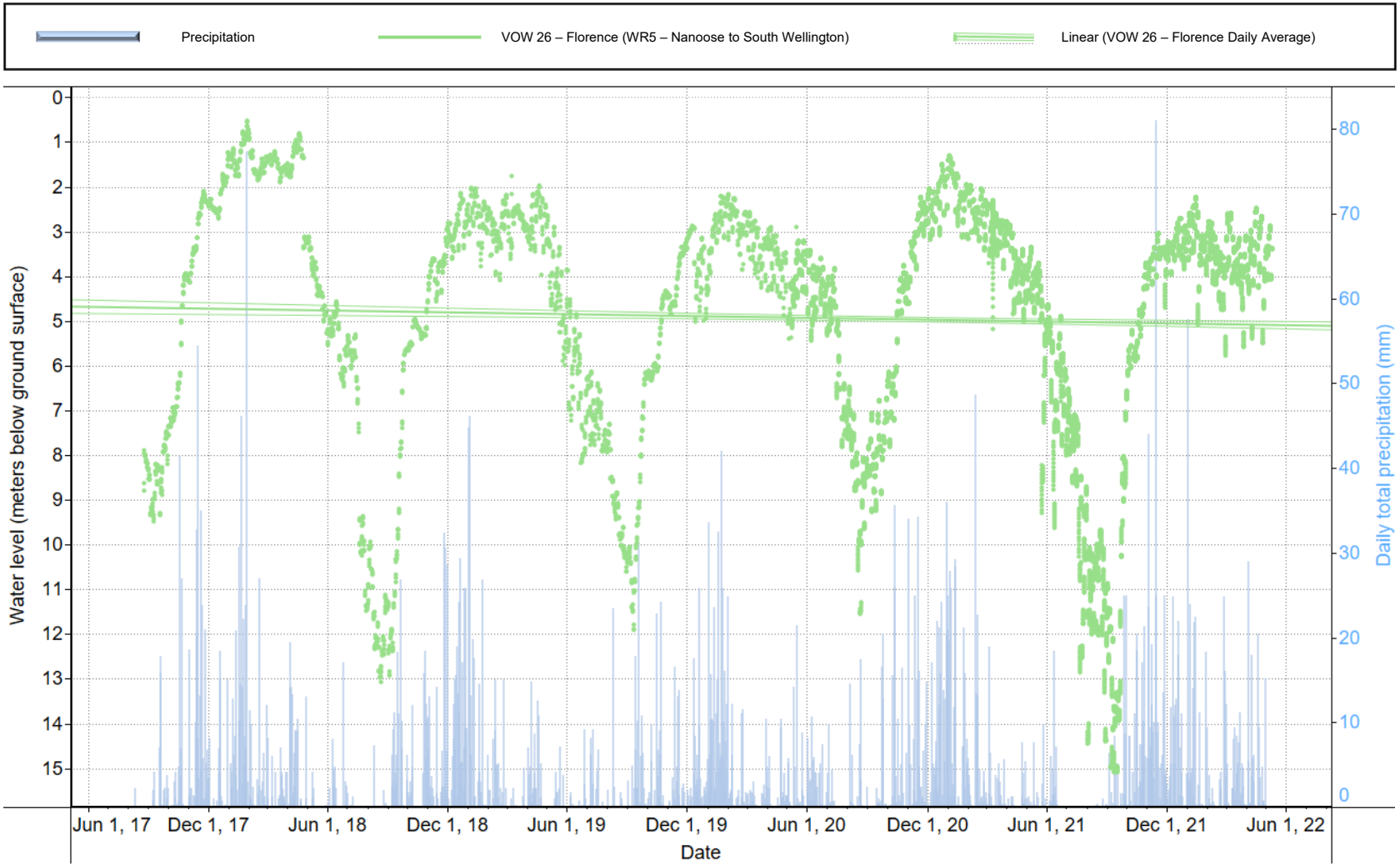
NOTES:
Observation Well Associated with Aquifer 218

Aquifer 218 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-20



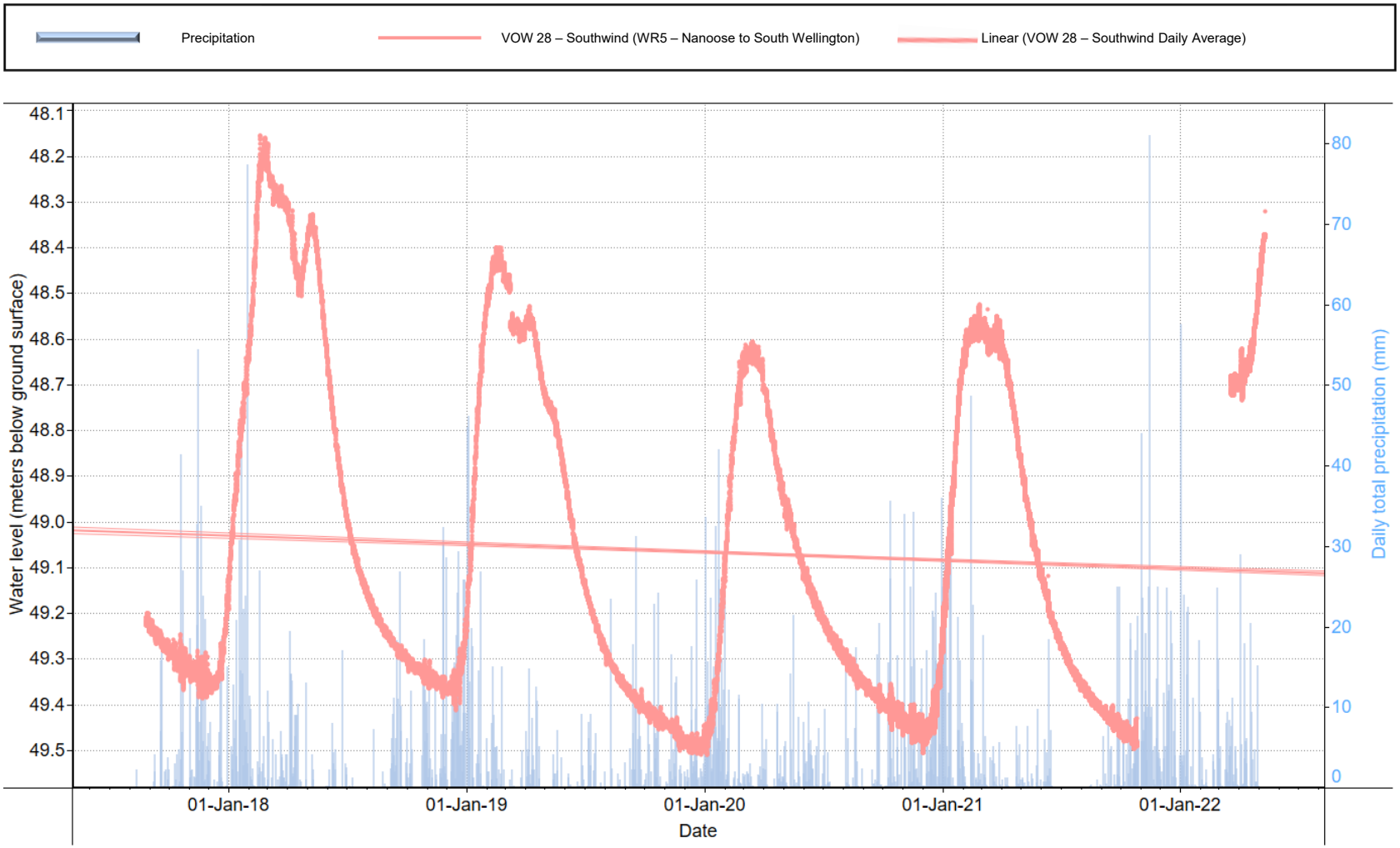
NOTES:
Observation Well Associated with Aquifer 218

Aquifer 218 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-21



NOTES:
Observation Well Associated with Aquifer 215

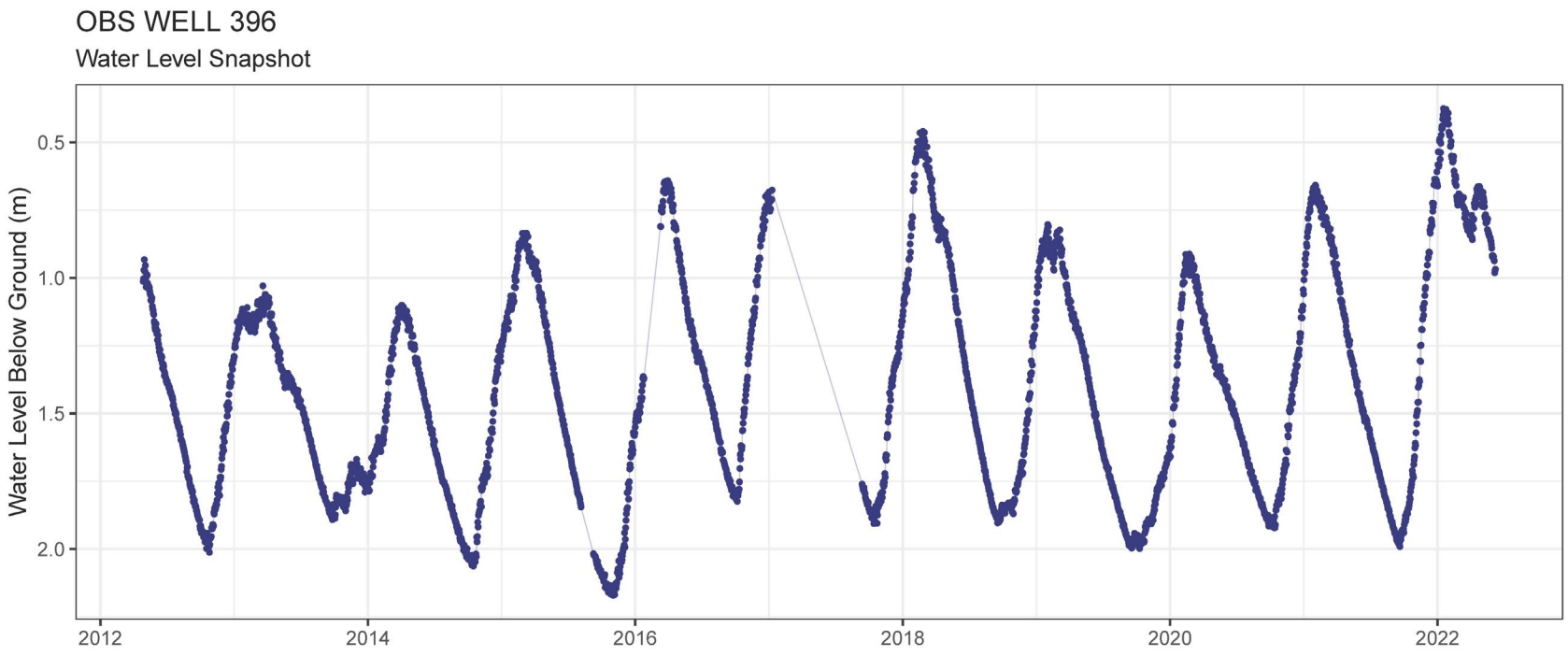
Aquifer 215 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-22

OW 396 (WR5 – Nanoose to South Wellington) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

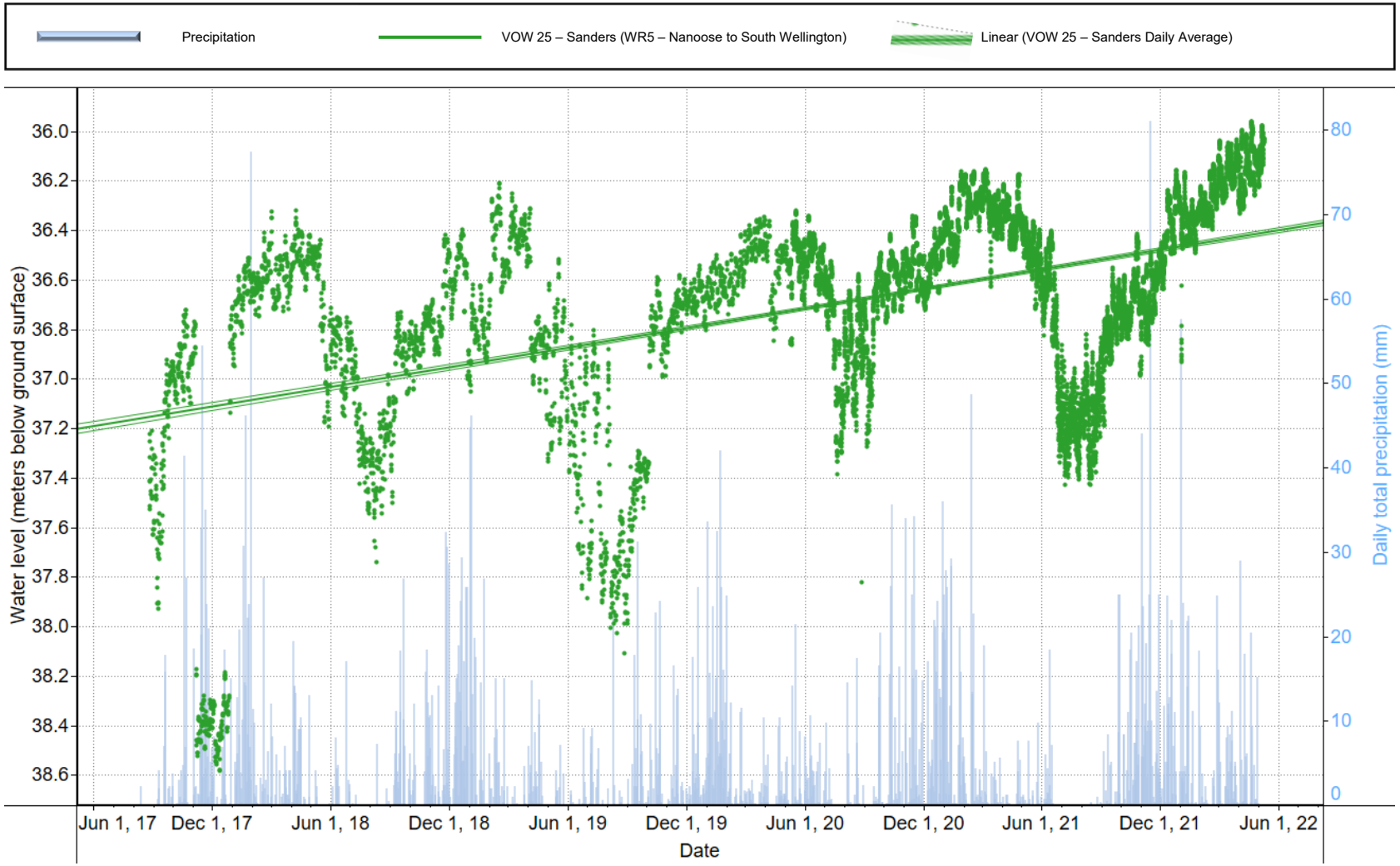
NOTES:
Observation Well Associated with Aquifer 219

Aquifer 219 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-23



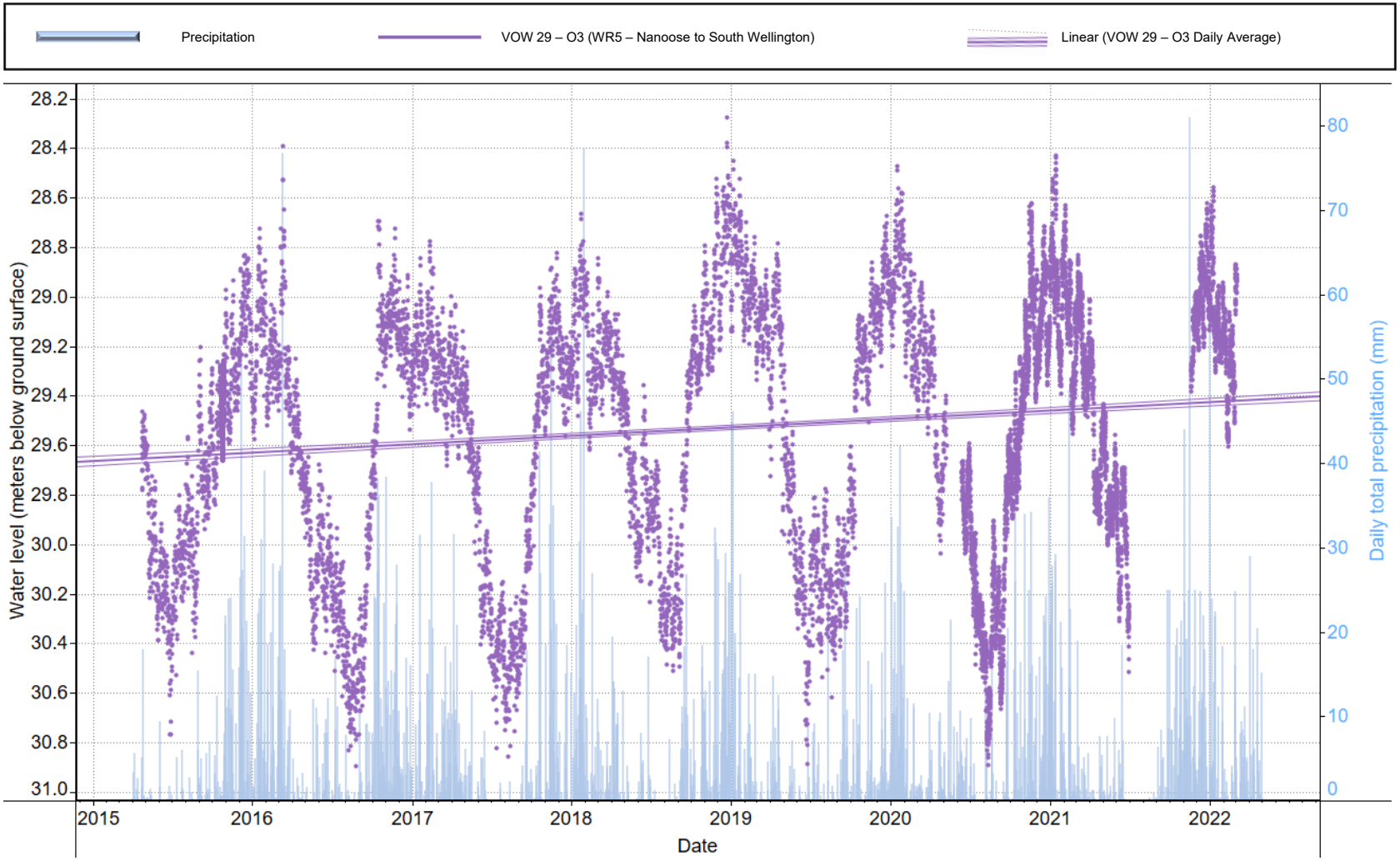
NOTES:
Observation Well Associated with Aquifer 219

Aquifer 219 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-24



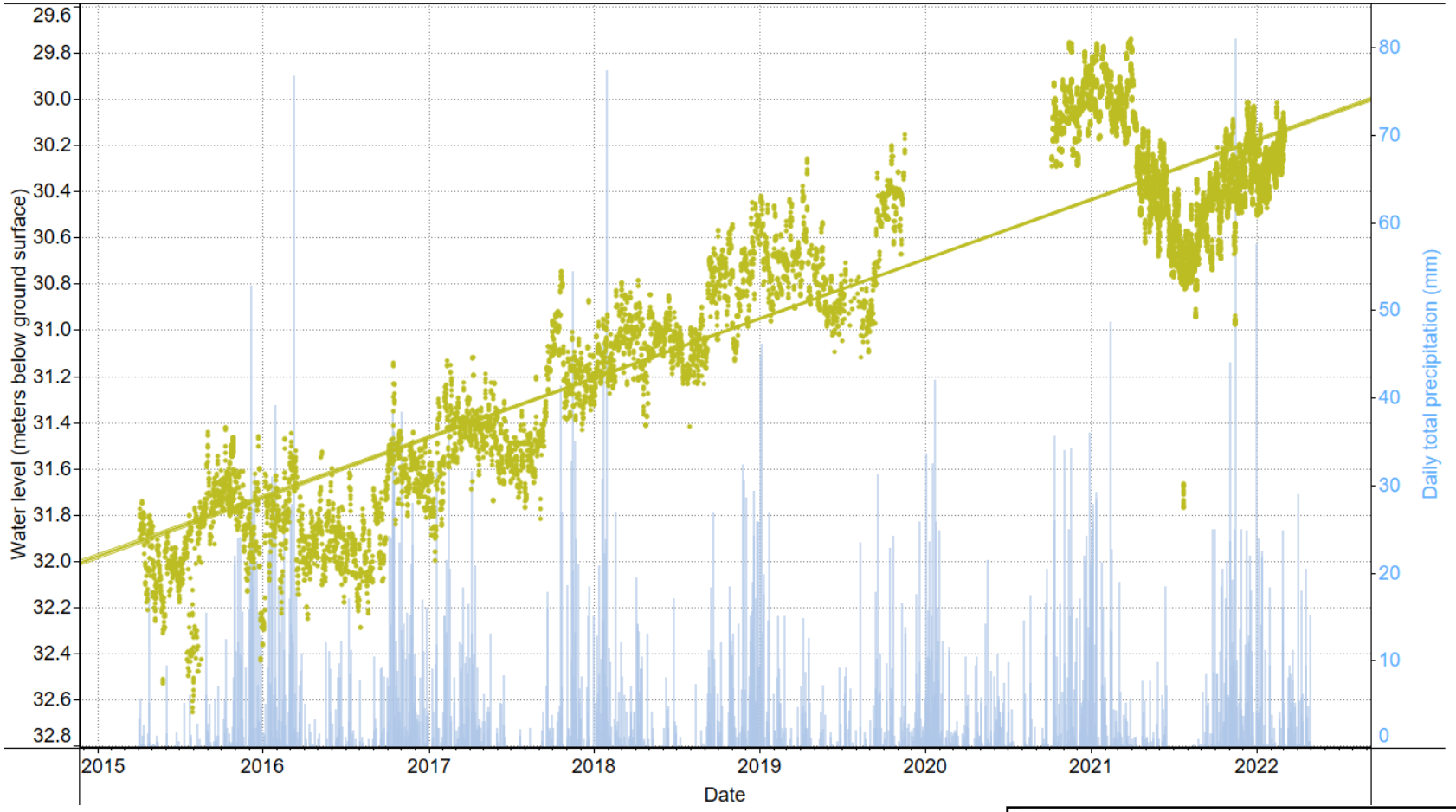
NOTES:
Observation Well Associated with Aquifer 1098

Aquifer 1098 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-25



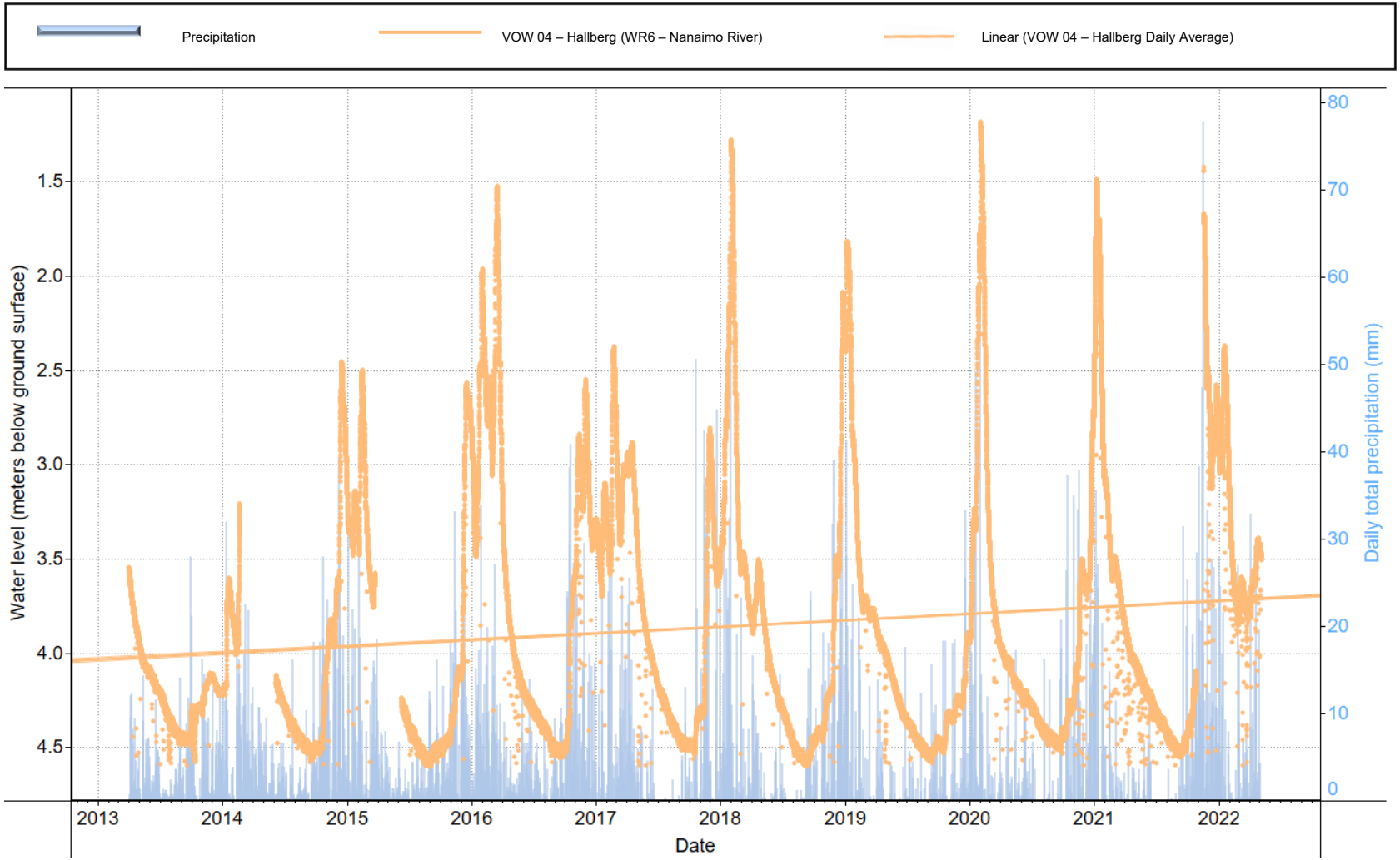
NOTES:
Observation Well Associated with Aquifer 1098

Aquifer 1098 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-26



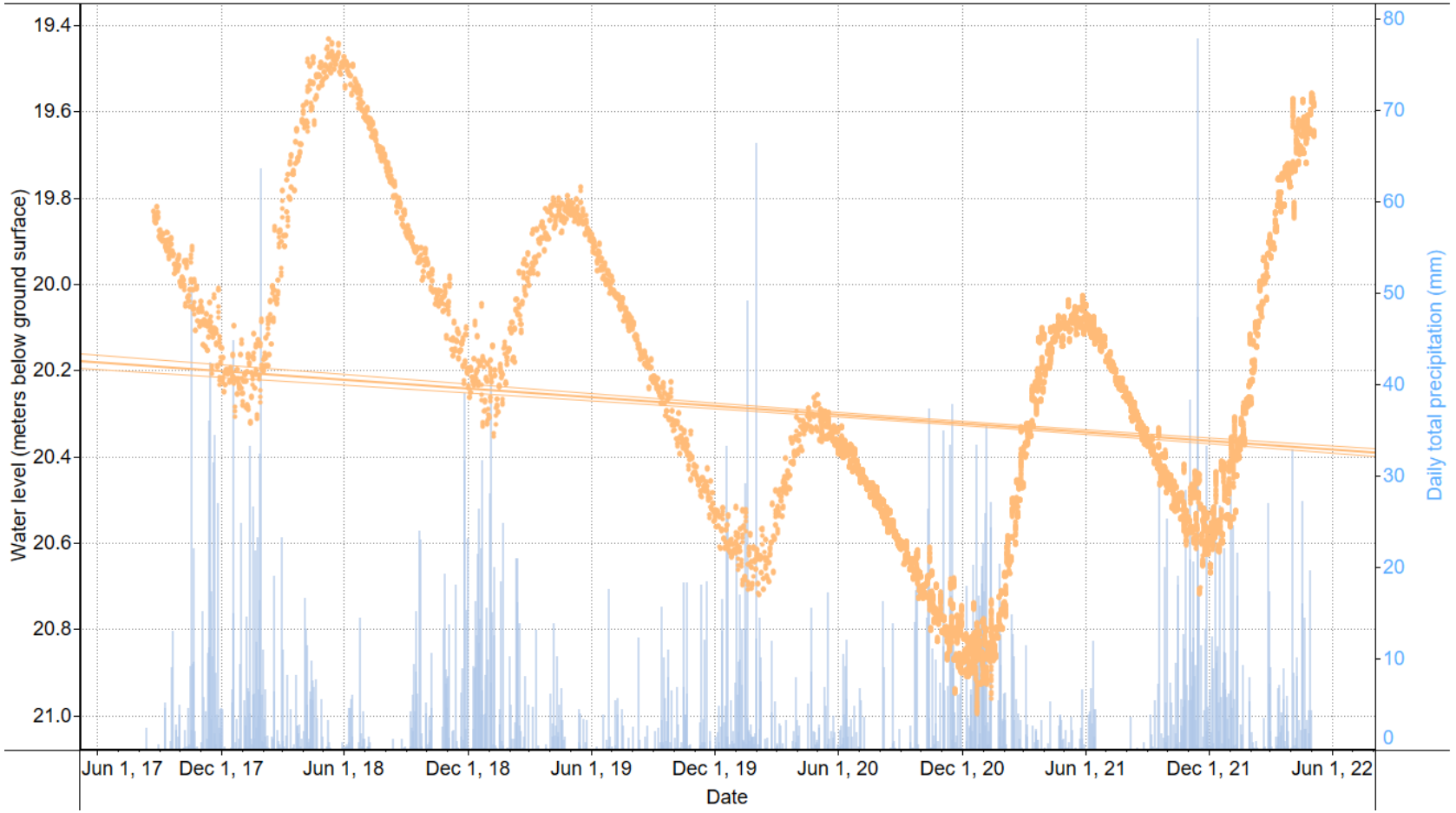
NOTES:
Observation Well Associated with Aquifer 160

Aquifer 160 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-27



NOTES:
Observation Well Associated with Aquifer 163

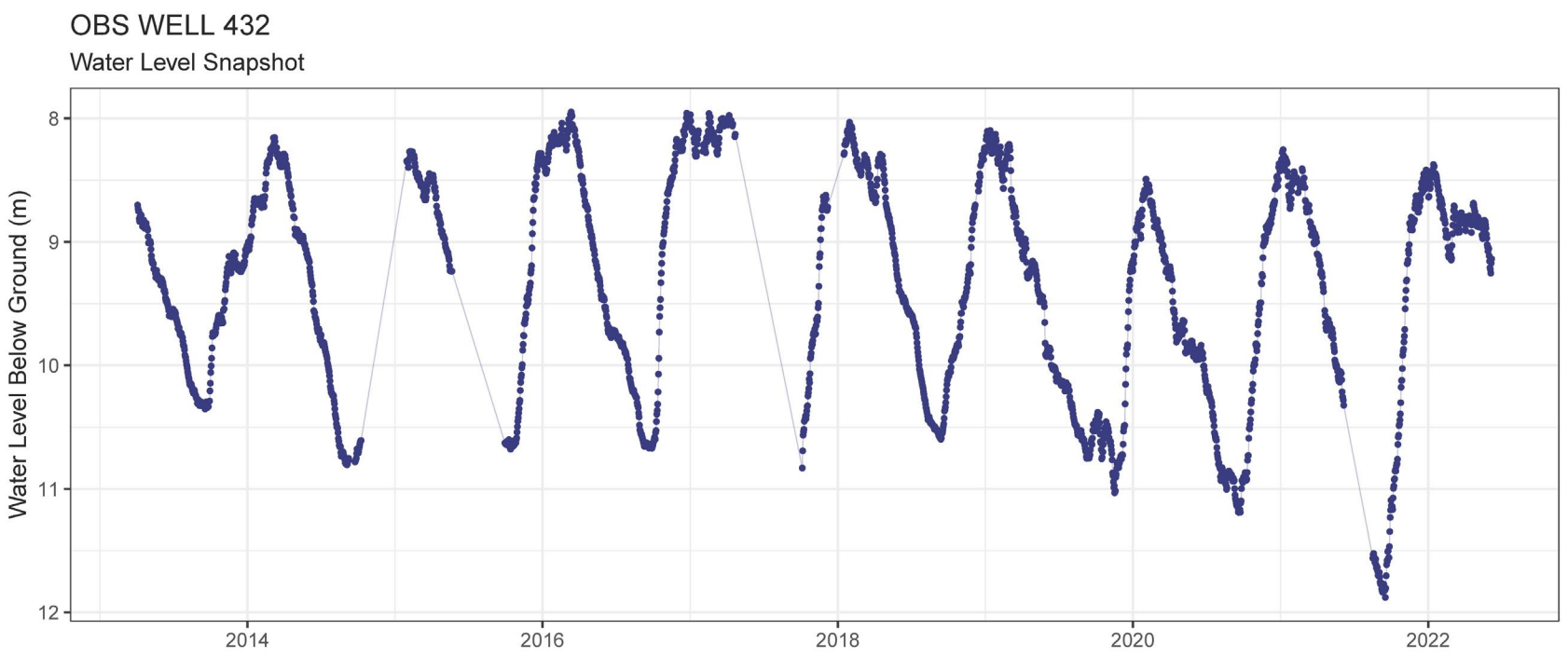
Aquifer 163 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-28

OW 432 (WR5 – Nanoose to South Wellington) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations. The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

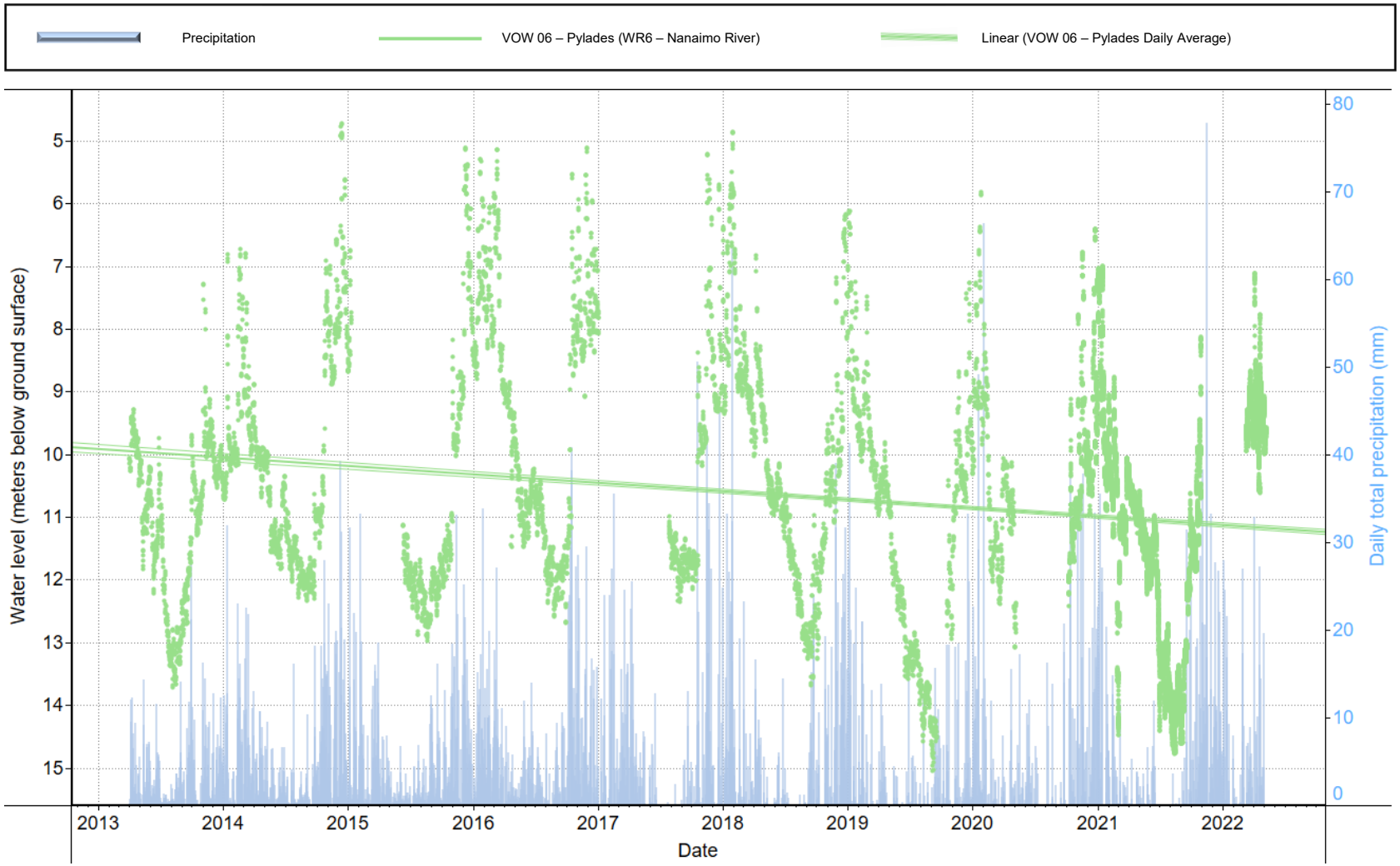
NOTES:
Observation Well Associated with Aquifer 162

Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART OW 432 (WR5 – Nanoose to South Wellington)

FIGURE B-29



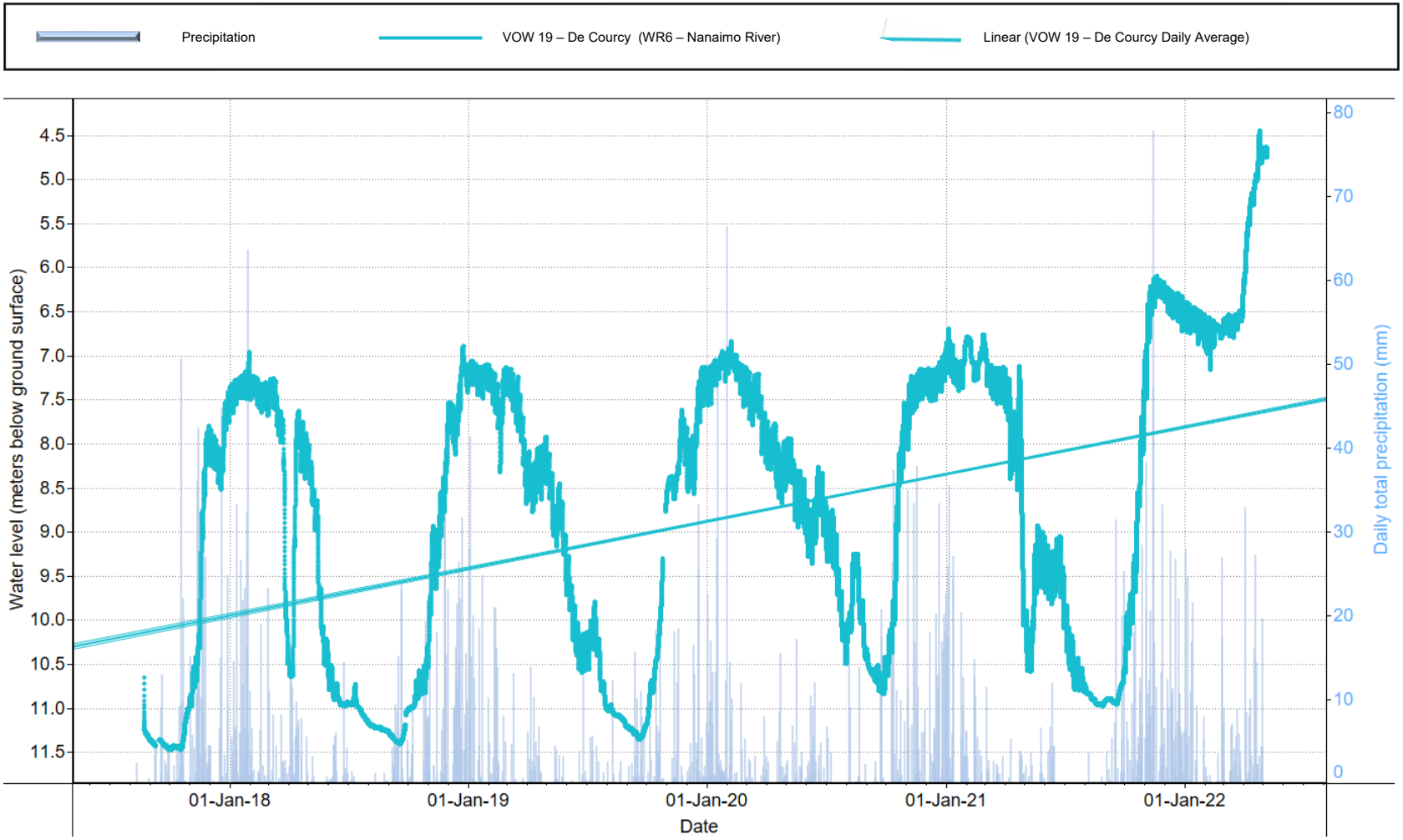
NOTES:
Observation Well Associated with Aquifer 162

Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-30



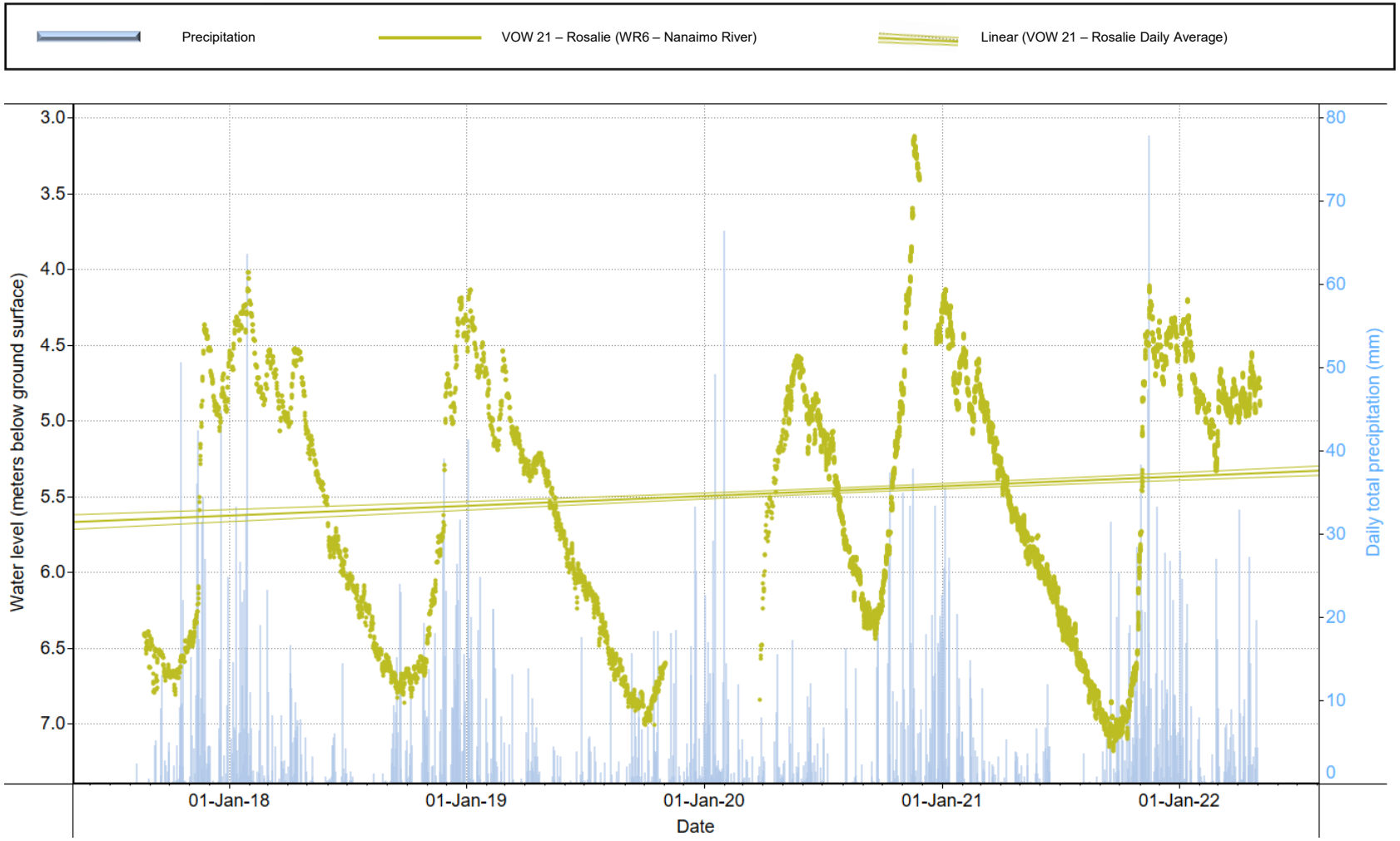
NOTES:
Observation Well Associated with Aquifer 162

Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
VOW 19 – De Courcy (WR6 – Nanaimo River)

FIGURE B-31



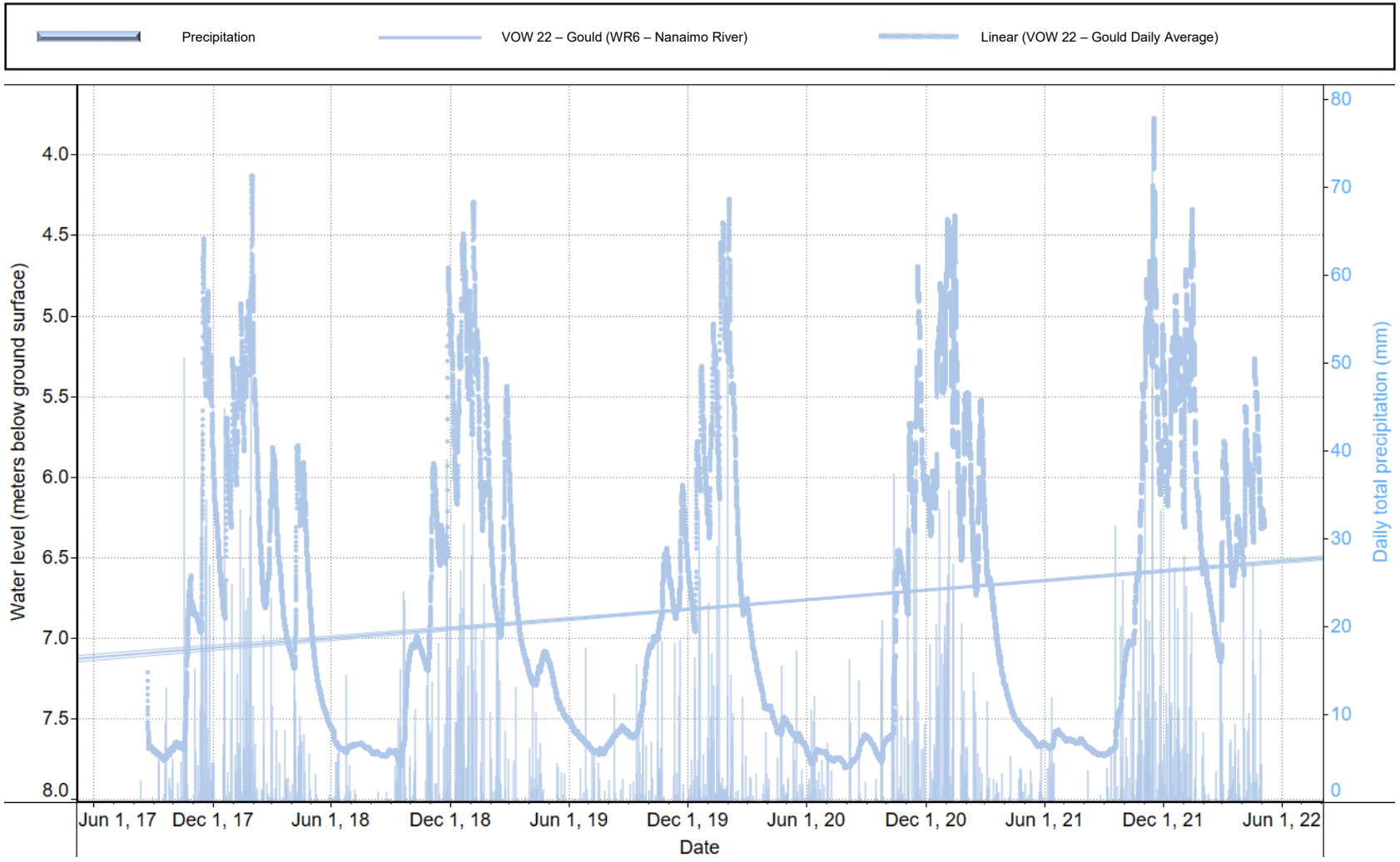
NOTES:
Observation Well Associated with Aquifer 162

Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-32



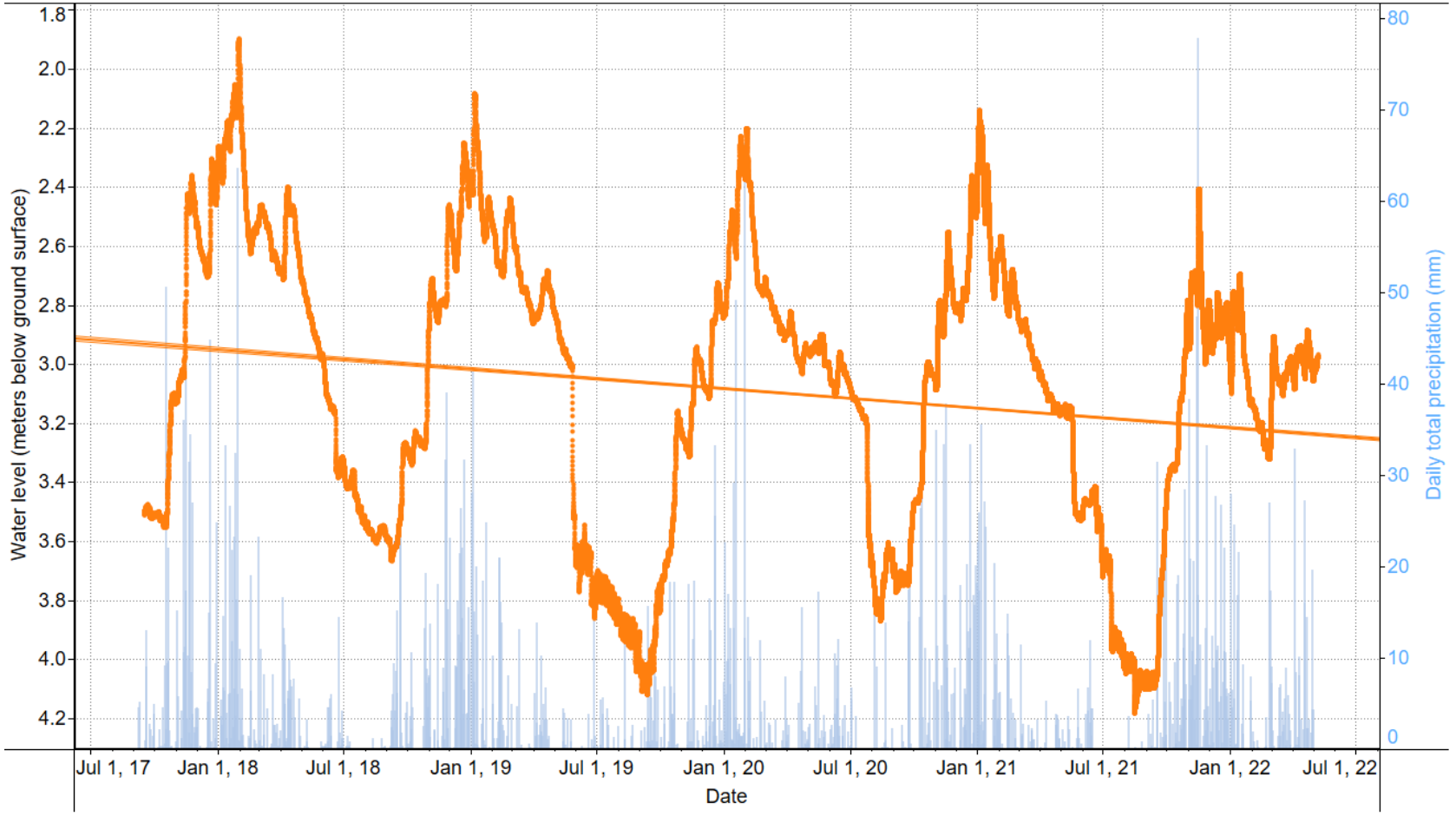
NOTES:
Observation Well Associated with Aquifer 162

Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-33



NOTES:
Observation Well Associated with Aquifer 162

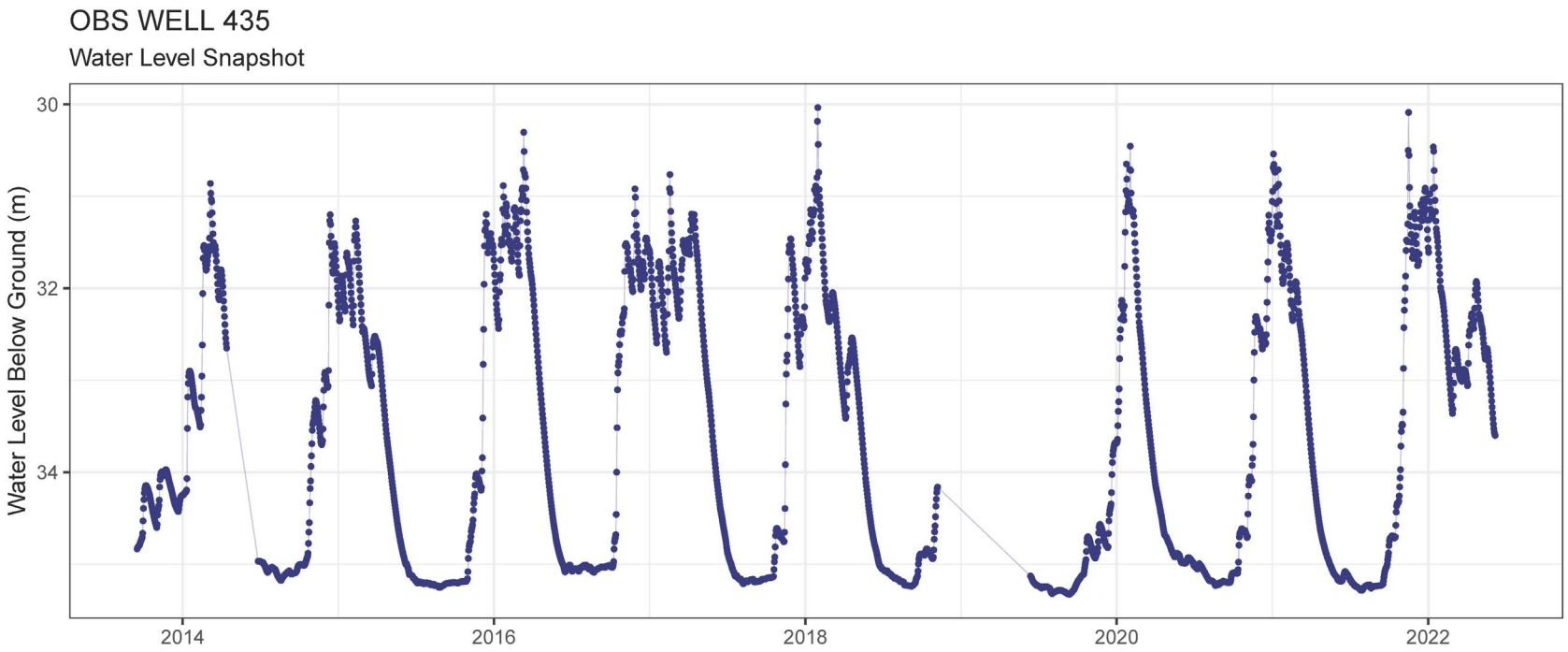
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-34

OW 435 (WR6 – Nanaimo River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations.
The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

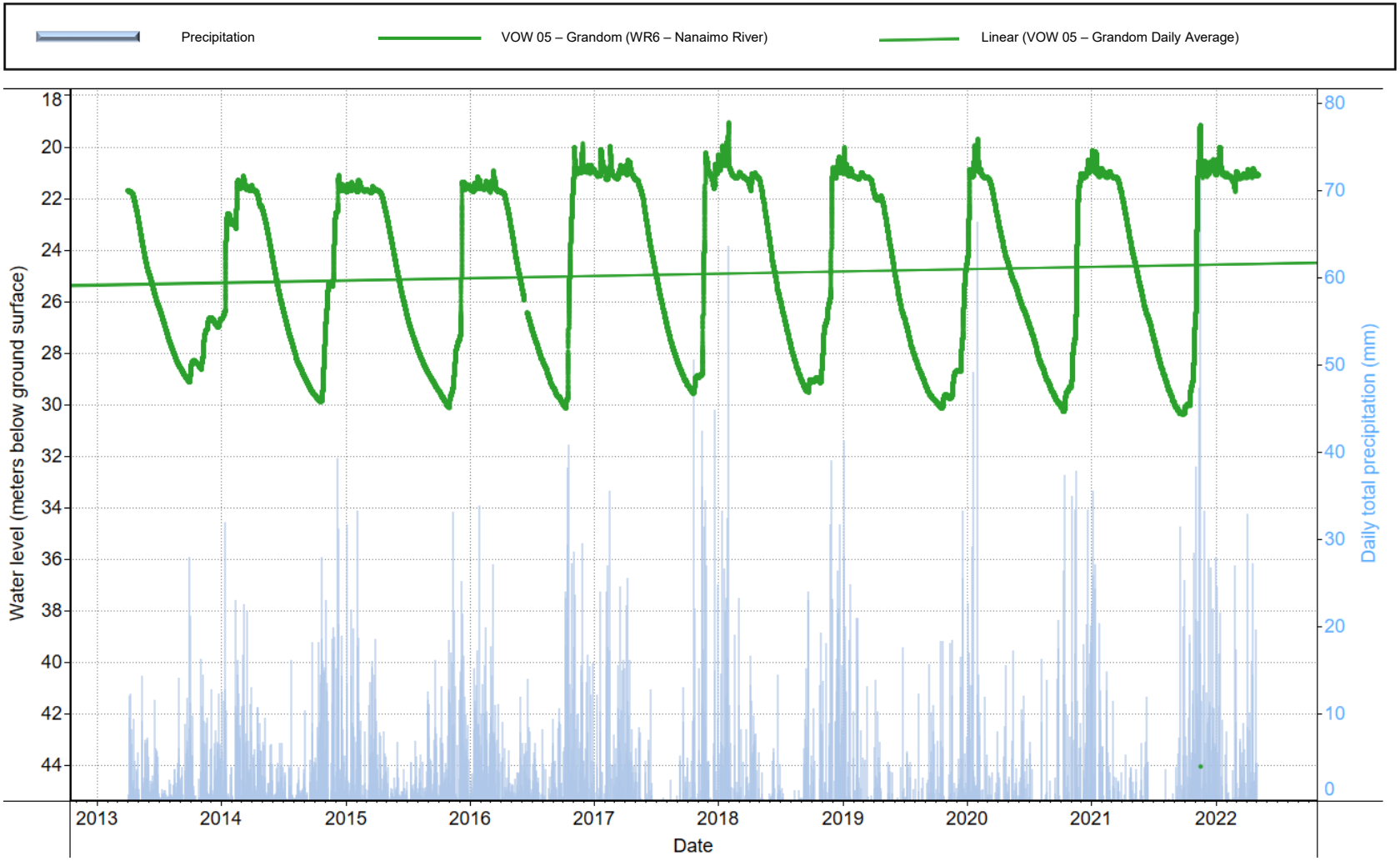
NOTES:
Observation Well Associated with Aquifer 165

Aquifer 165 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-35



NOTES:
Observation Well Associated with Aquifer 165

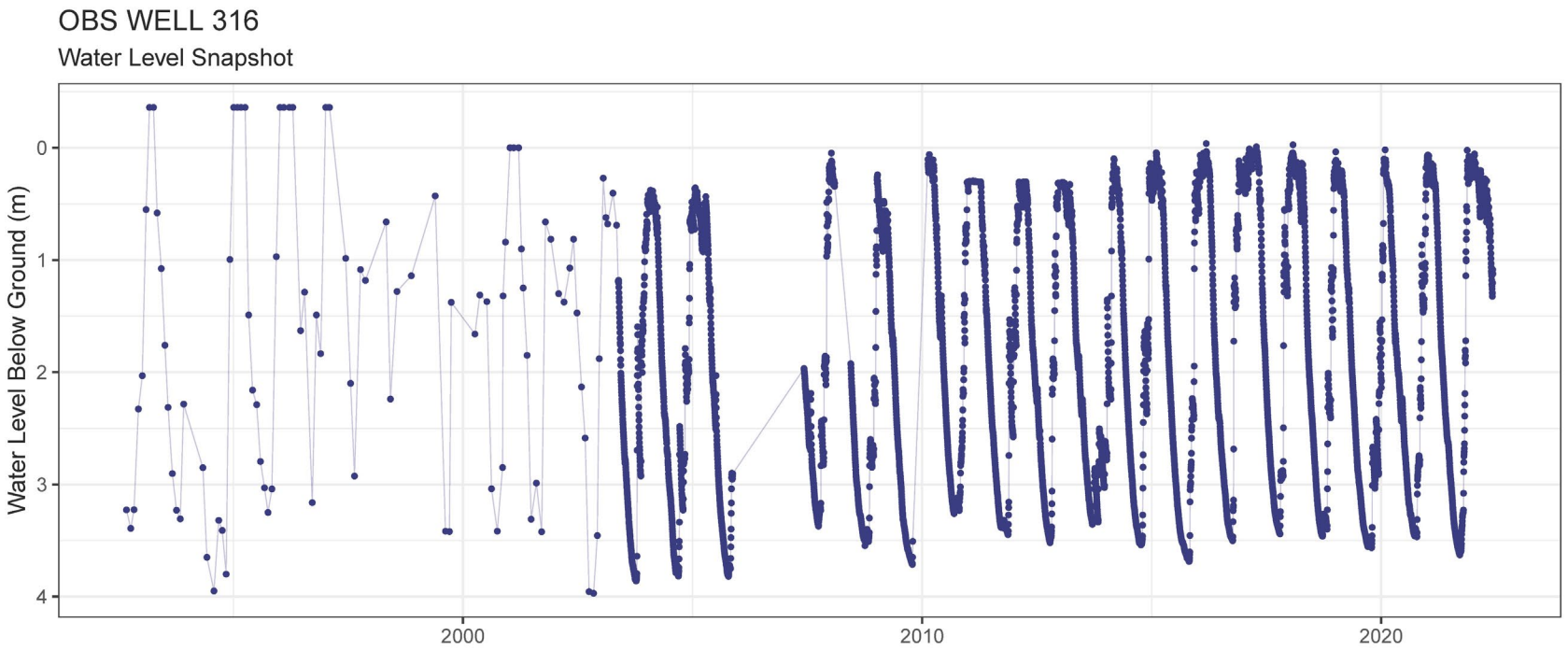
Aquifer 165 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE B-36

OW 316 (WR7 – Gabriola) Chart Downloaded from B.C. Observation Well Network Website https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



Note: True data are marked with a dot, the thin line connecting points is a visual aid only and does not represent true observations.
The full data set can be downloaded via the BC Data Catalogue or the BC Real−time Water Data tool.

BRITISH COLUMBIA

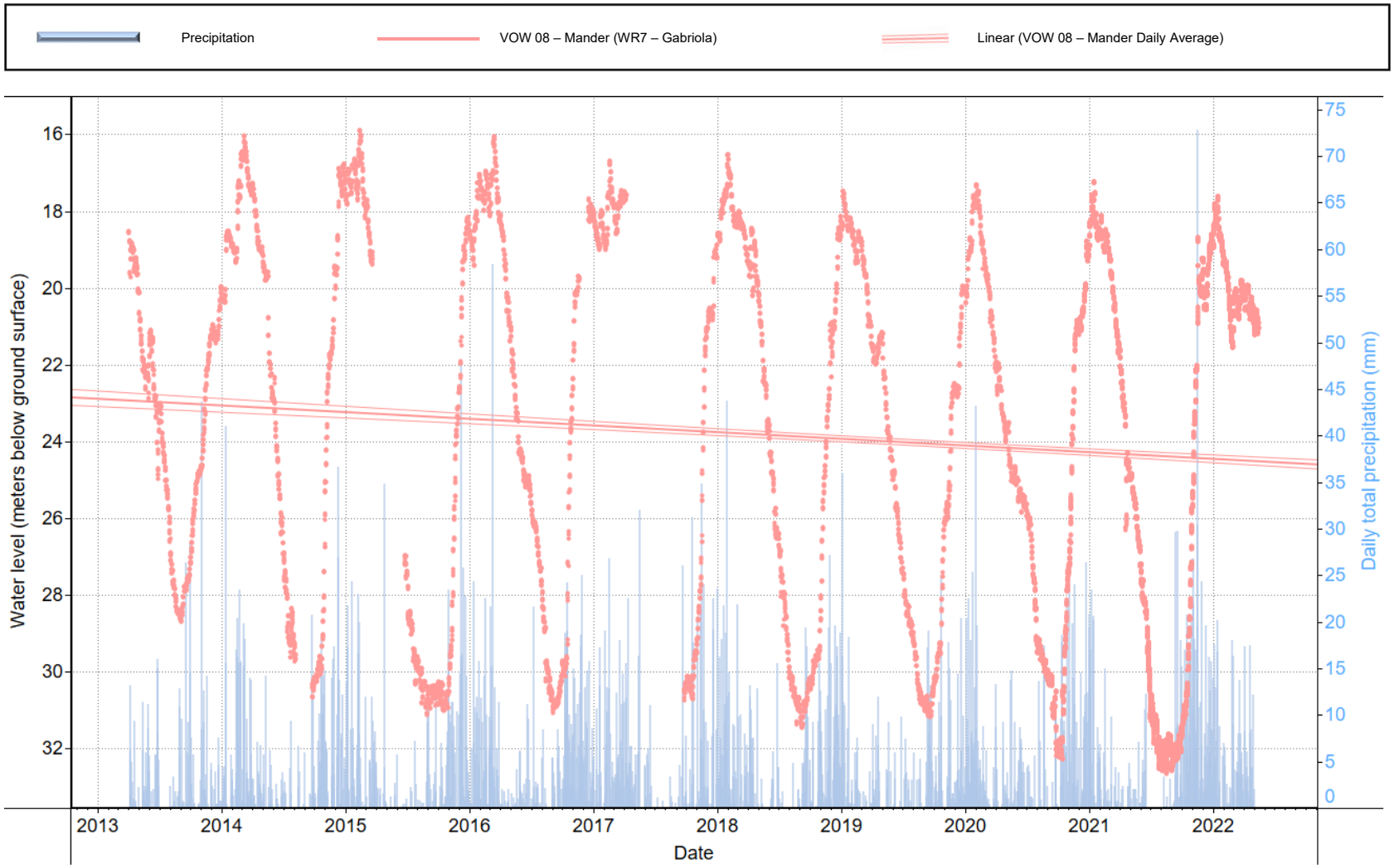
NOTES:
Observation Well Associated with Aquifer 709

Aquifer 709 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
OW 316 (WR7 – Gabriola)

FIGURE B-37



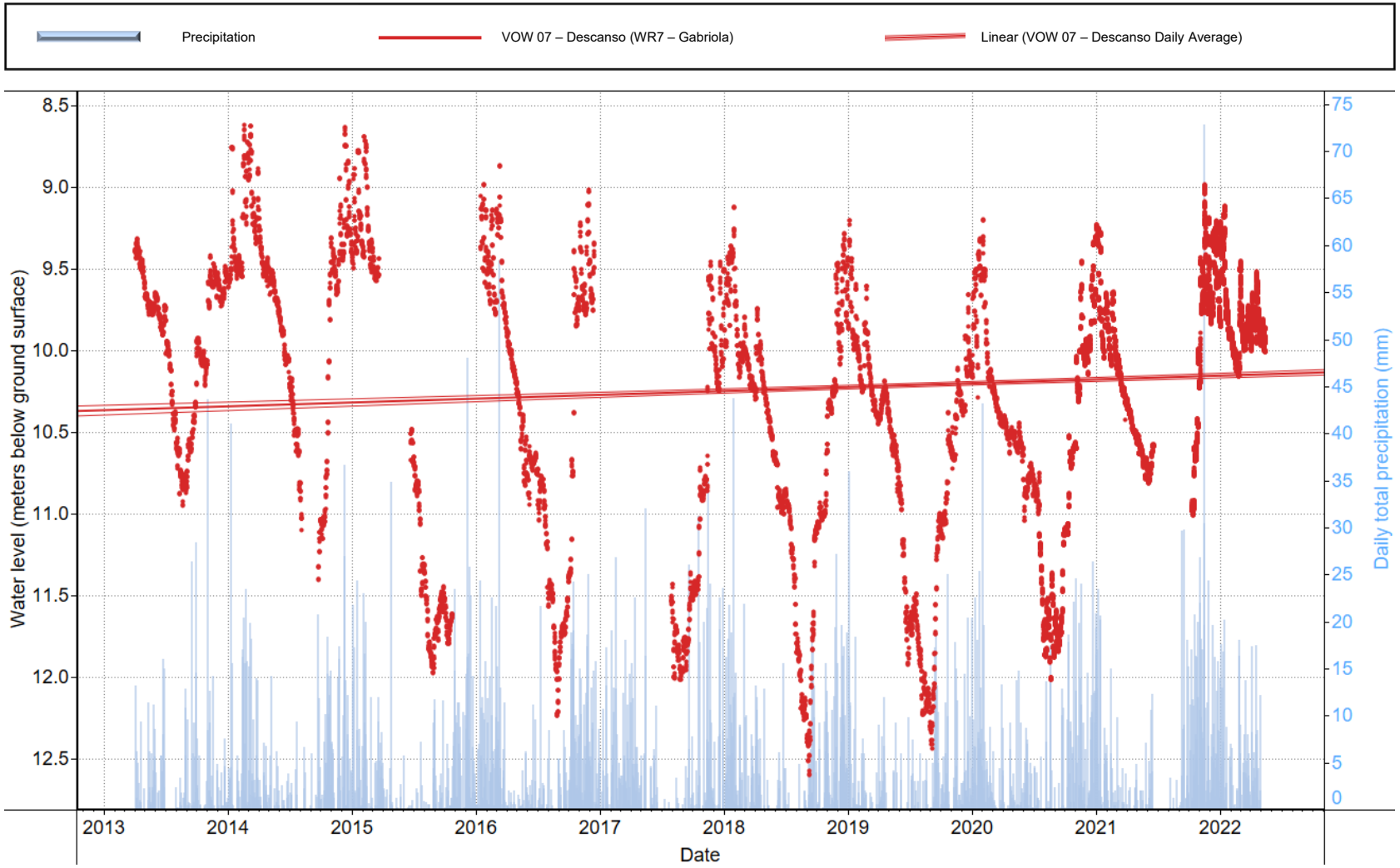
NOTES:
Observation Well Associated with Aquifer 709

Aquifer 709 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
VOW 08 – Mander (WR7 – Gabriola)

FIGURE B-38



NOTES:
Observation Well Associated with Aquifer 709

Aquifer 709 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

HISTORICAL GROUNDWATER LEVEL CHART
VOW 07 – Descanso (WR7 – Gabriola)

FIGURE B-39

Appendix C – Seasonal Groundwater Level Trend Results

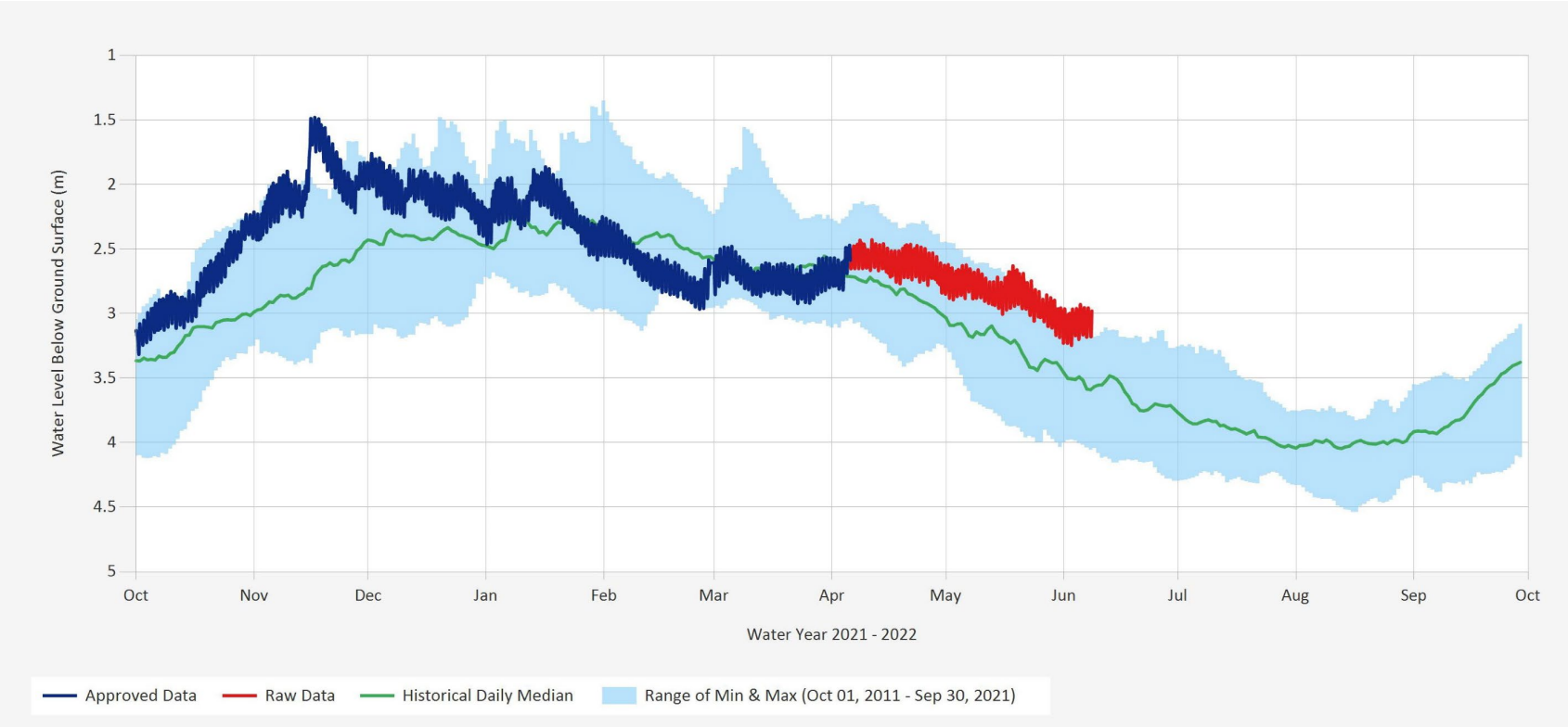
REGIONAL DISTRICT OF NANAIMO

Table C1: Seasonal Groundwater Level Trench Results for the VOWN and PGOWN in 2022

Chart ID	Water Regions	Observation Well Number	Aquifer	Aquifer Type	Groundwater Level Trend 2022
1	Little Qualicum	OW 389	664	Surficial	Above
2	French Creek	VOW 16	217	Surficial	Average
3		VOW 15	212	Bedrock	Above
4	Englishman River	OW 314	216	Surficial	Above
5		OW 424	216	Surficial	Above
6		VOW 14	216	Surficial	Above
7		VOW 01	216	Surficial	Average
8		OW 287	220	Bedrock	Below
9		VOW 18	220	Bedrock	Above
10	Nanoose to South Wellington	VOW 12	167	Surficial	Above
11		OW 388	211	Bedrock	Average
12		VOW 02	213	Bedrock	Average
13		VOW 03	213	Bedrock	Average
14		VOW 13	213	Bedrock	Above
15		VOW 30	214	Bedrock	Average
16		VOW 31	214	Bedrock	Average
17		VOW 32	214	Bedrock	Average
18		VOW 33	214	Bedrock	NO DATA
19		VOW 34	214	Bedrock	Average
20		VOW 27	218	Bedrock	Average
21		VOW 26	218	Bedrock	Average
22		VOW 28	215	Surficial	Average
23		OW 396	219	Surficial	Above
24		VOW 25	219	Surficial	Above
25		VOW 29	1098	Surficial	Average
26		VOW 17	1098	Surficial	Average
27	Nanaimo River	VOW 04	160	Surficial	Average
28		VOW 24	163	Surficial	Average
29		OW 432	162	Bedrock	Above
30		VOW 06	162	Bedrock	Average
31		VOW 19	162	Bedrock	Above
32		VOW 21	162	Bedrock	Average
33		VOW 22	162	Bedrock	Above
34		VOW 23	162	Bedrock	Average
35		OW 435	165	Bedrock	Above
36		VOW 05	165	Bedrock	Above
37	Gabriola	OW 316	709	Bedrock	Above
38		VOW 08	709	Bedrock	Average
39		VOW 07	709	Bedrock	Average

OW - Wells associated with the PGOWN. VOW - Wells associated with the VOWN.

OW 389 (WR2 – Little Qualicum) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 664

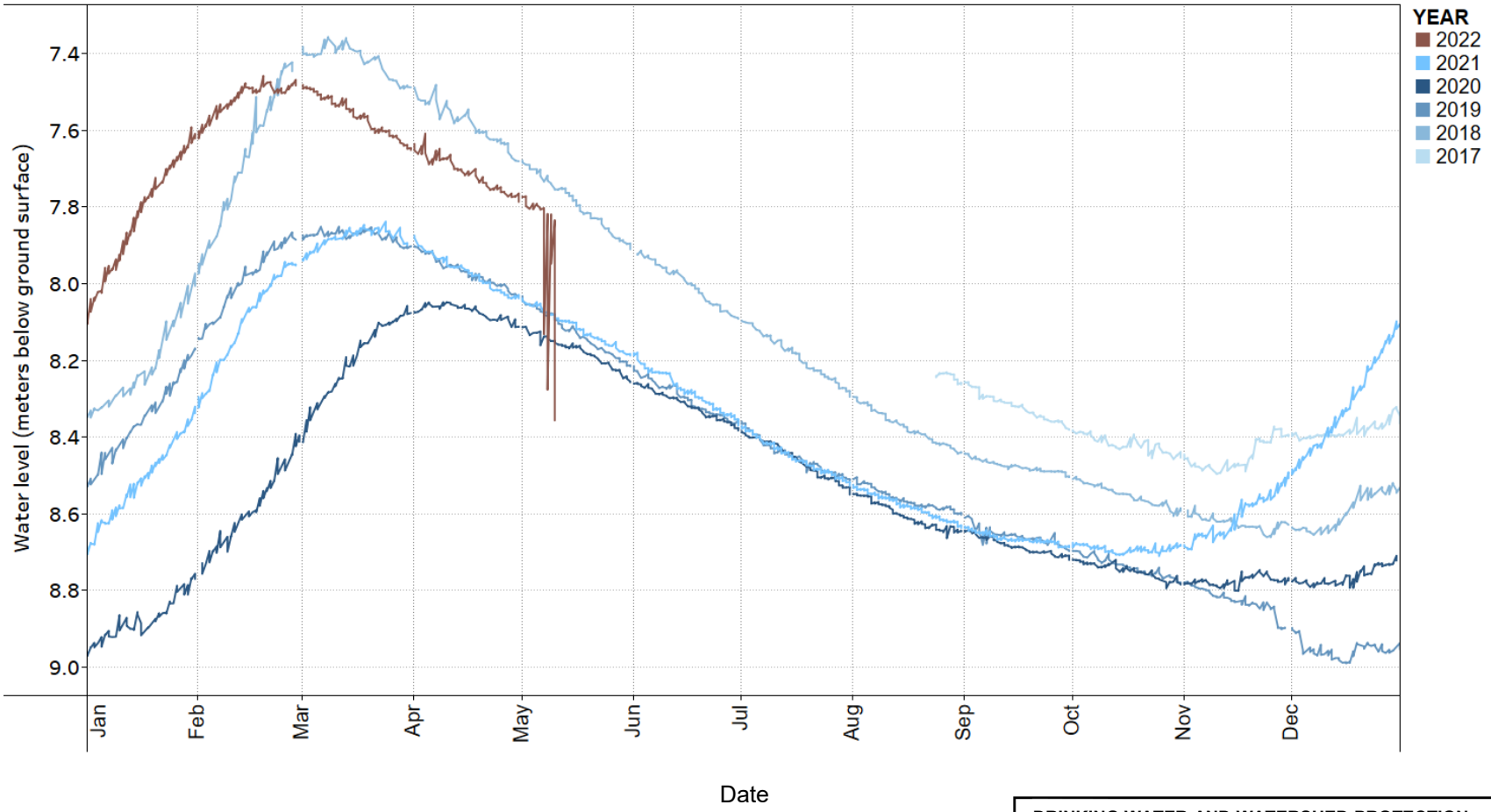
Aquifer 664 is Unconfined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-1

VOW 16 – Rinvold (WR3 – French Creek) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 217

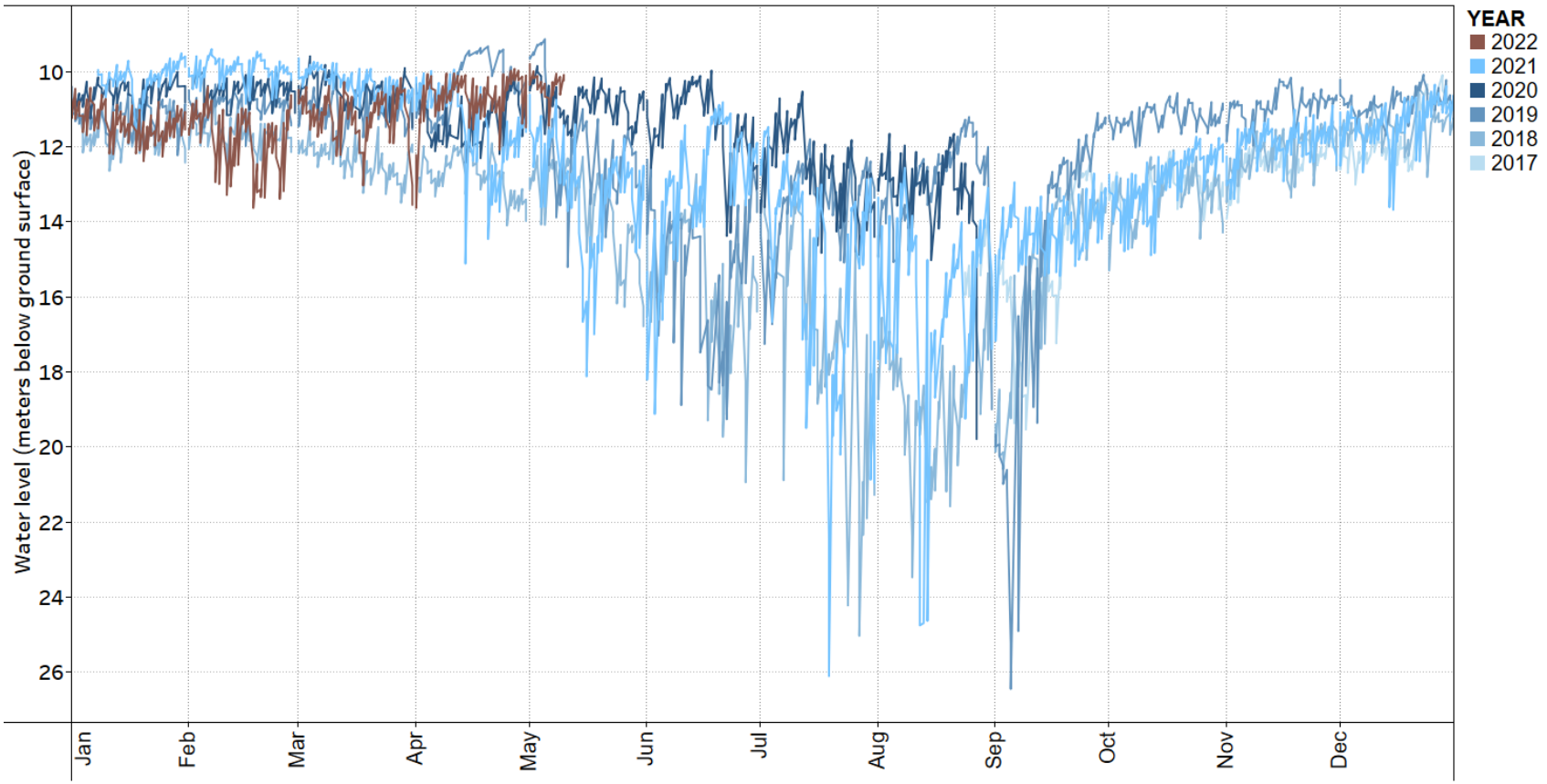
Aquifer 217 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-2

VOW 15 – Lowrys (WR3 – French Creek) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 212

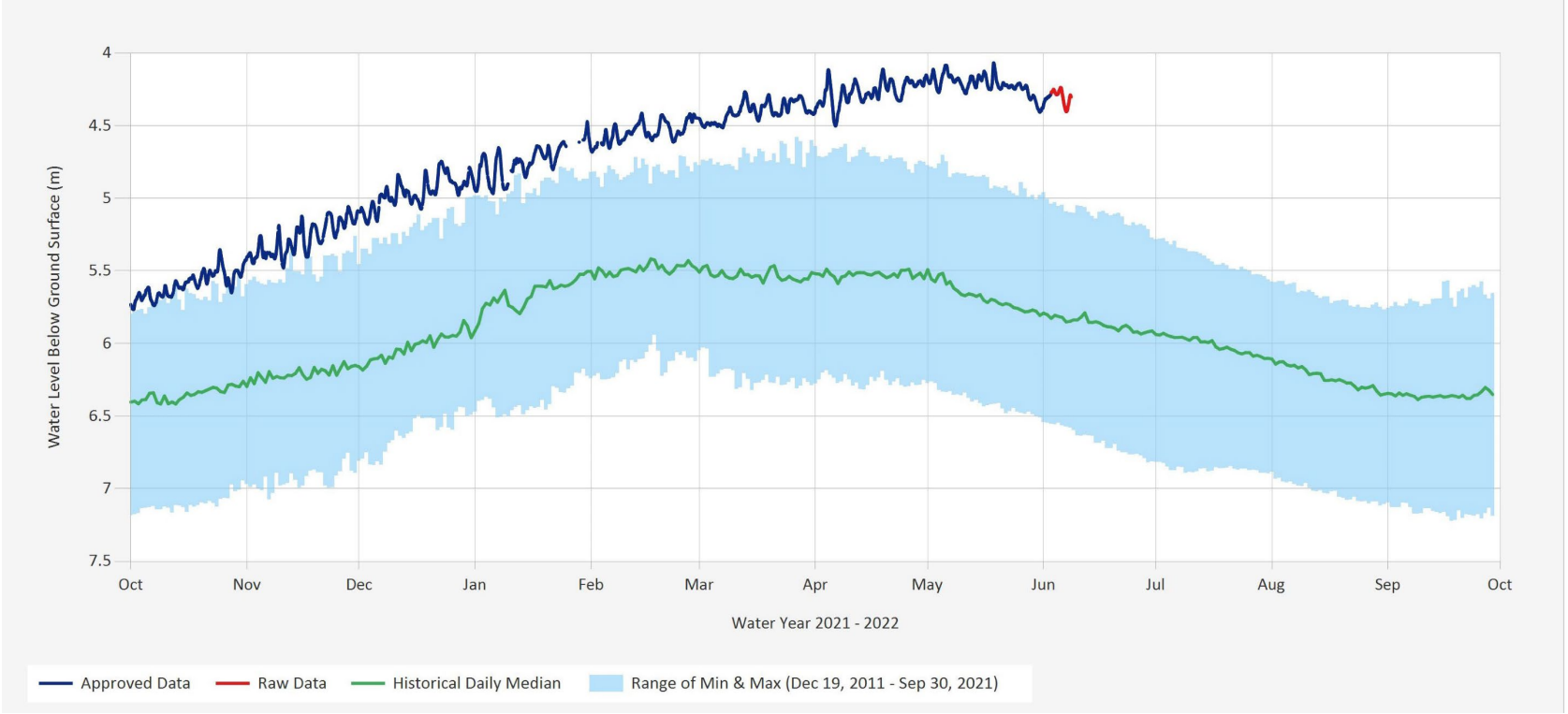
Aquifer 212 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART VOW 15 – Lowrys (WR3 – French Creek)

FIGURE C-3

OW 314 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 216

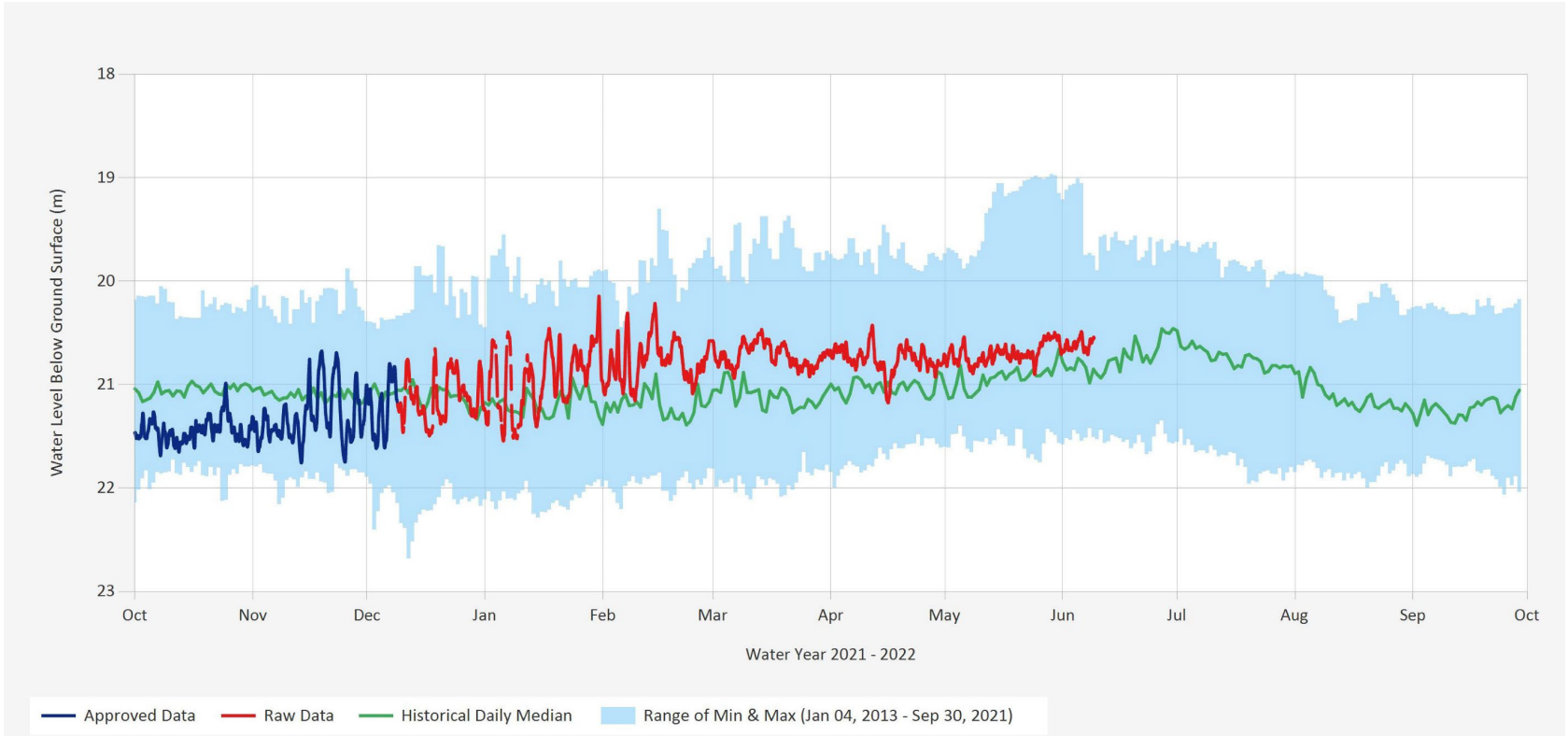
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART OW 314 (WR4 – Englishman River)

FIGURE C-4

OW 424 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 216

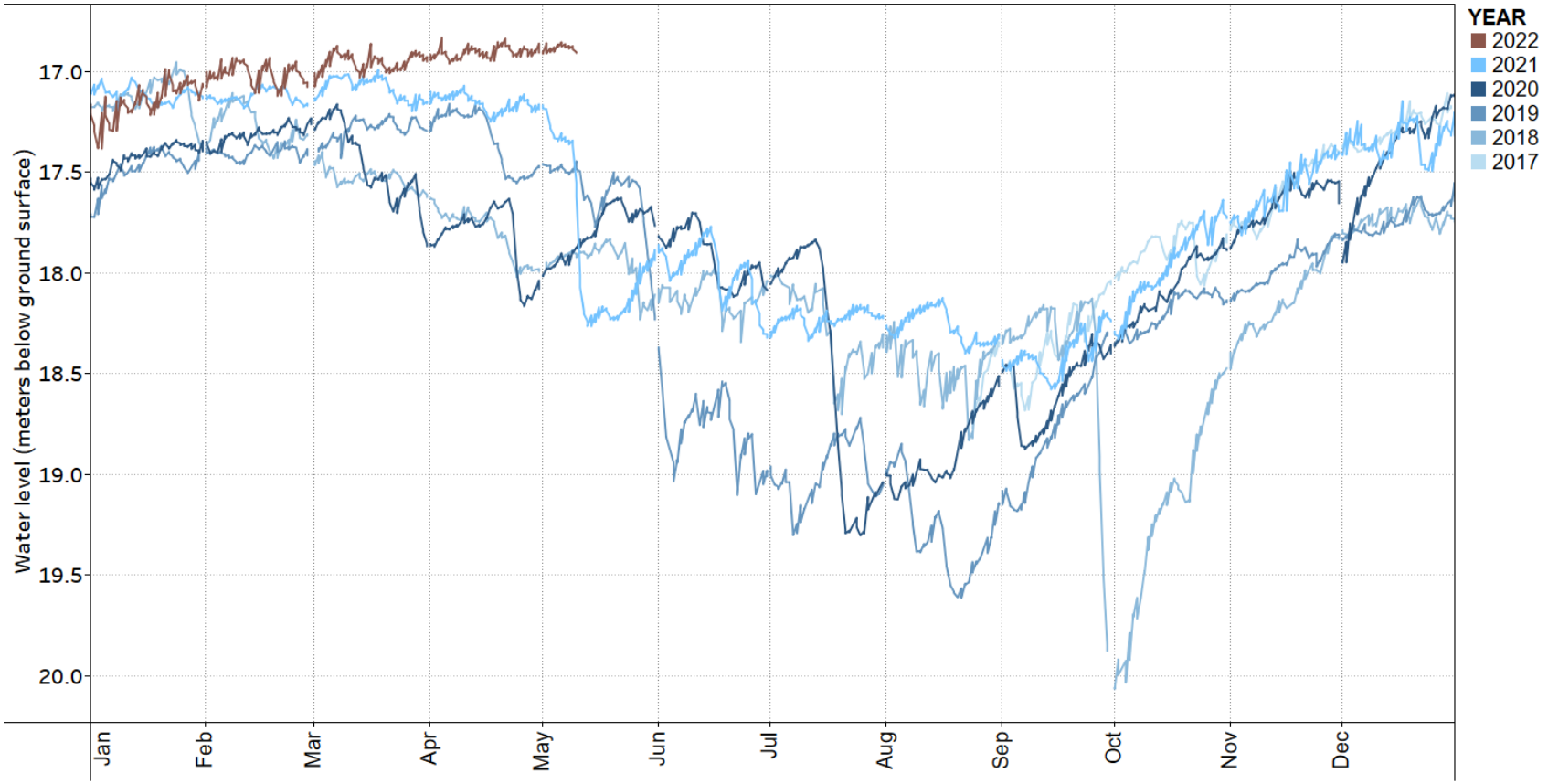
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART OW 424 (WR4 – Englishman River)

FIGURE C-5

VOW 14 – Hodges (WR4 – Englishman River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 216

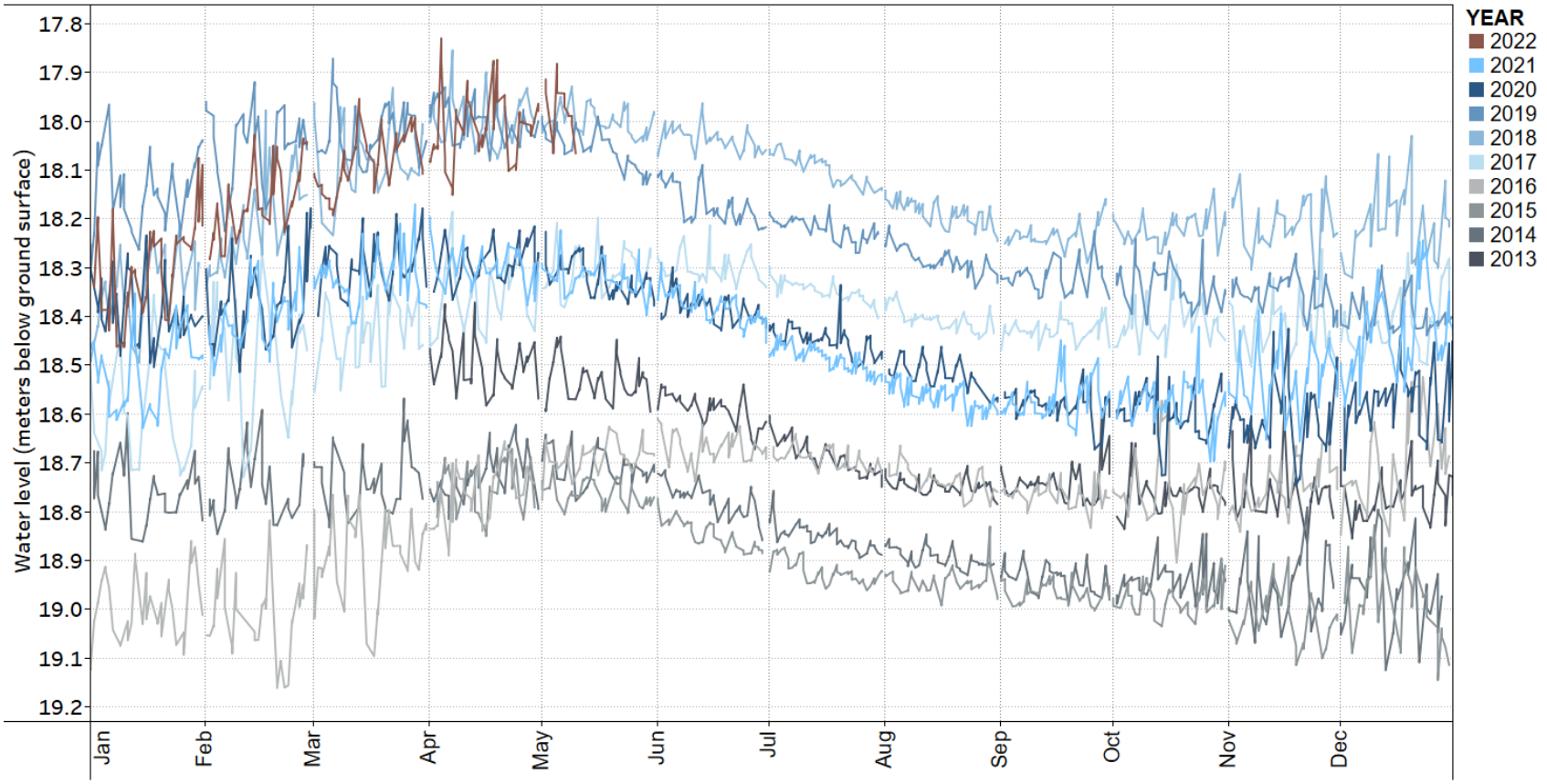
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART VOW 14 – Hodges (WR4 – Englishman River)

FIGURE C-6

VOW 01 – Fourneau (WR4 – Englishman River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 216

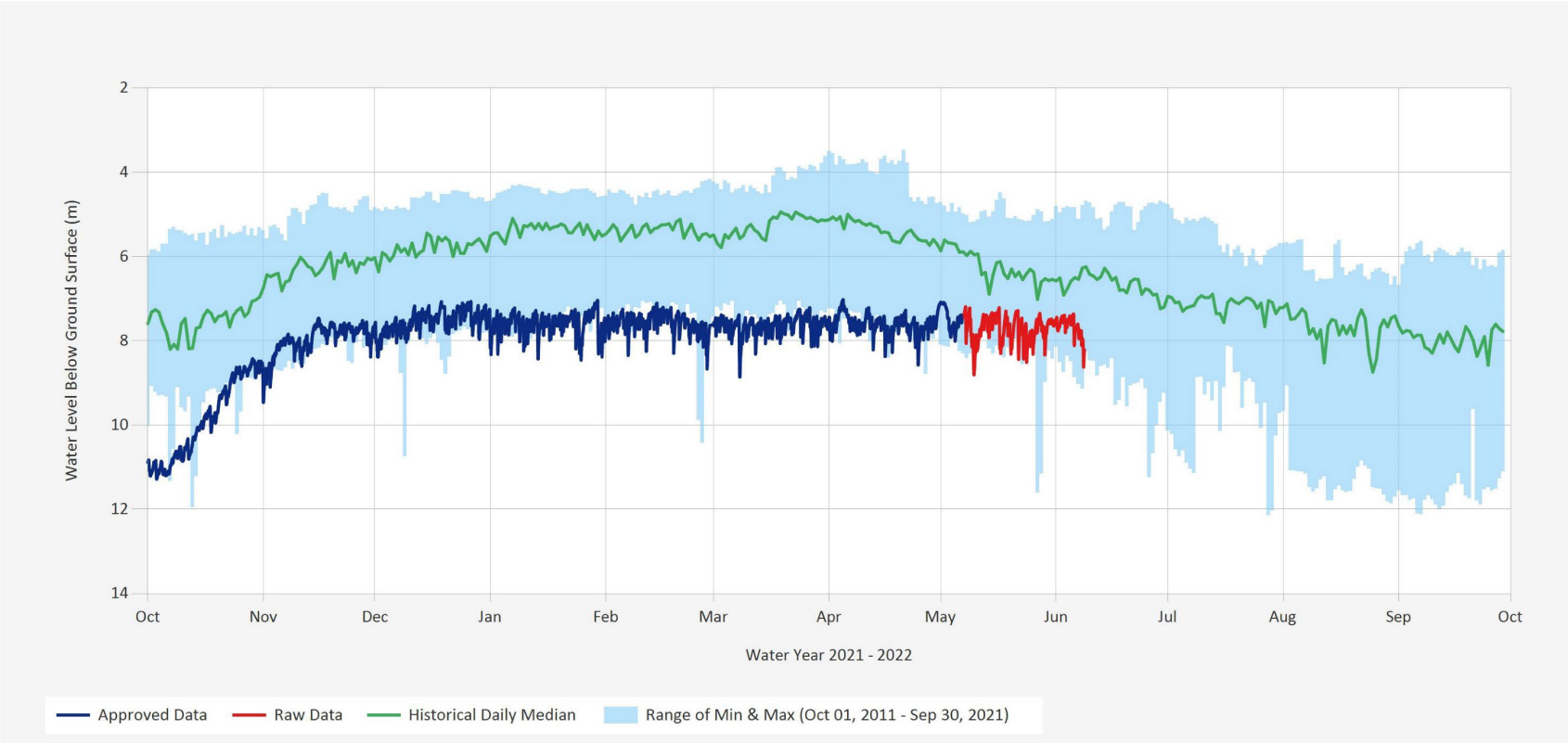
Aquifer 216 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-7

OW 287 (WR4 – Englishman River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 220

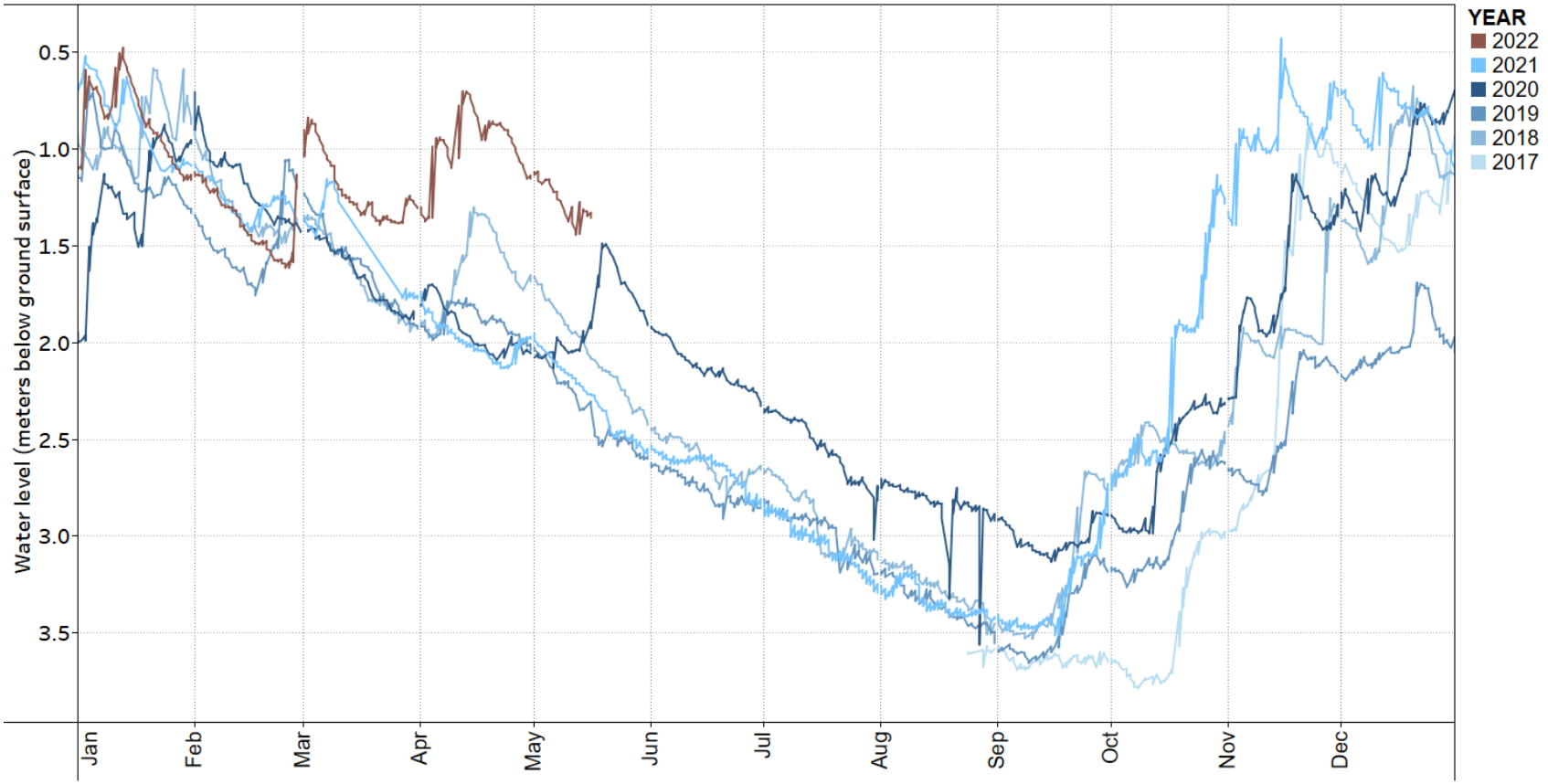
Aquifer 220 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART OW 287 (WR4 – Englishman River)

FIGURE C-8

VOW 18 – Middlegate (WR4 – Englishman River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 220

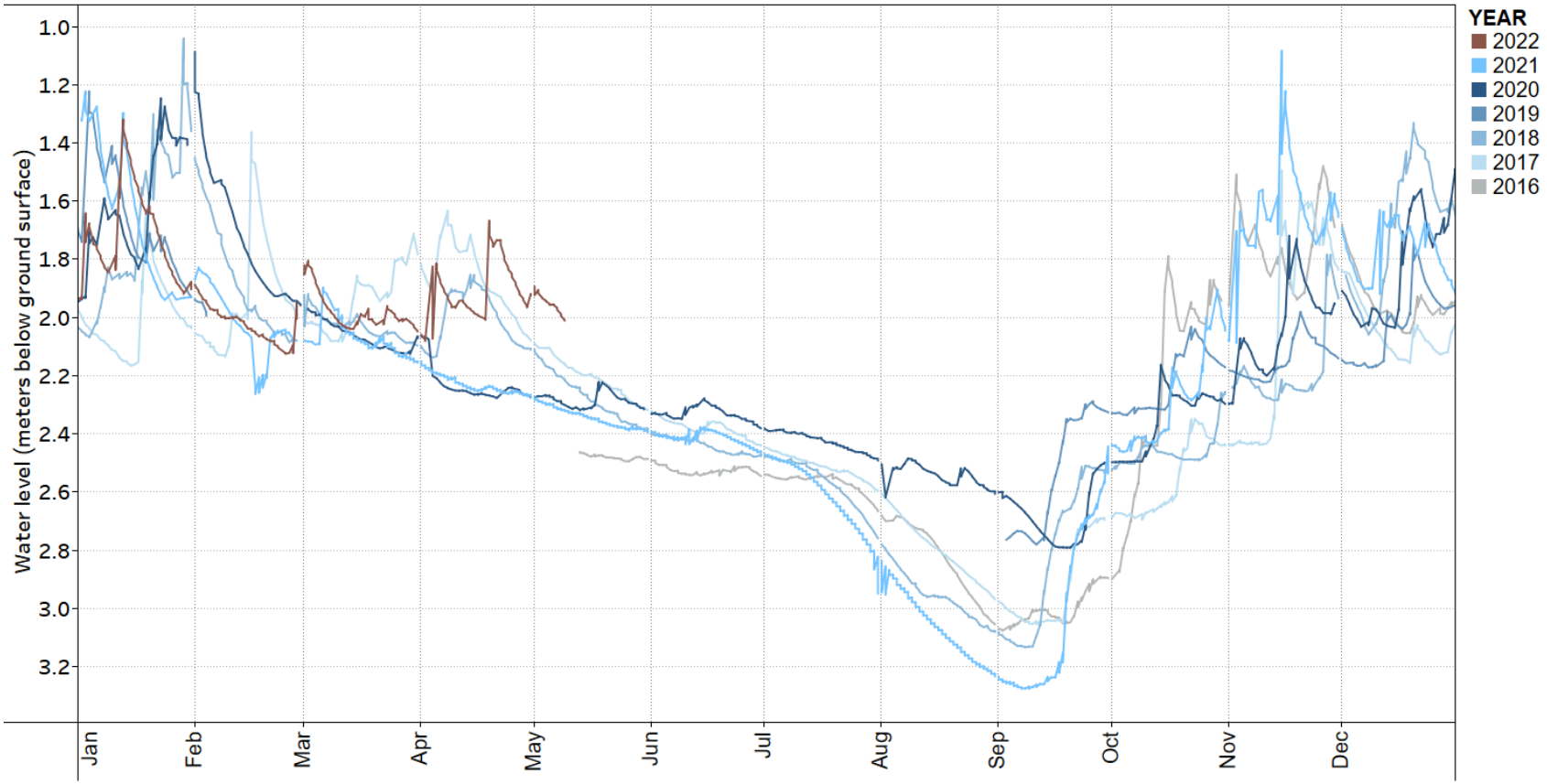
Aquifer 220 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-9

VOW 12 – Biggs (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 167

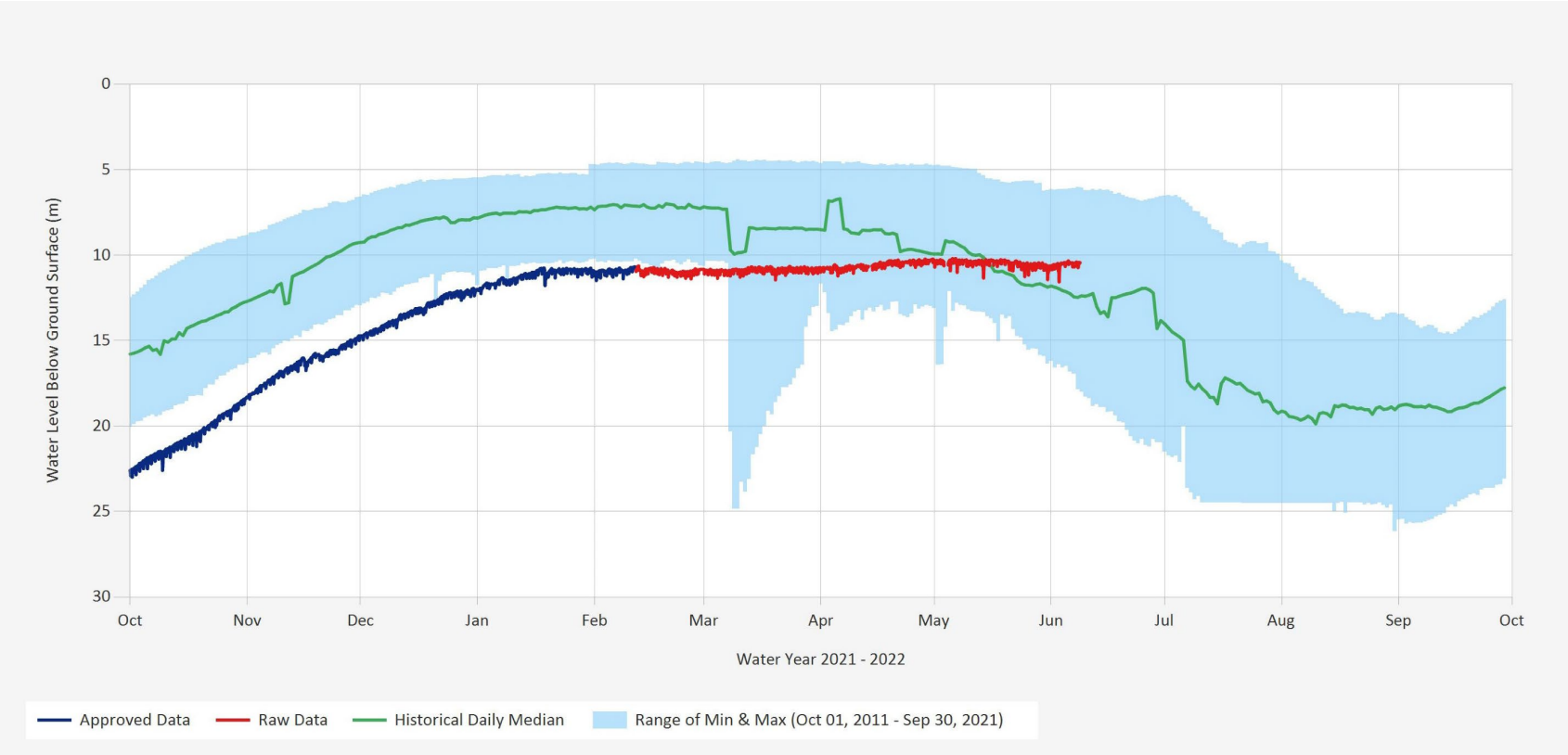
Aquifer 167 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-10

OW 388 (WR5 – Nanoose to South Wellington) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 211

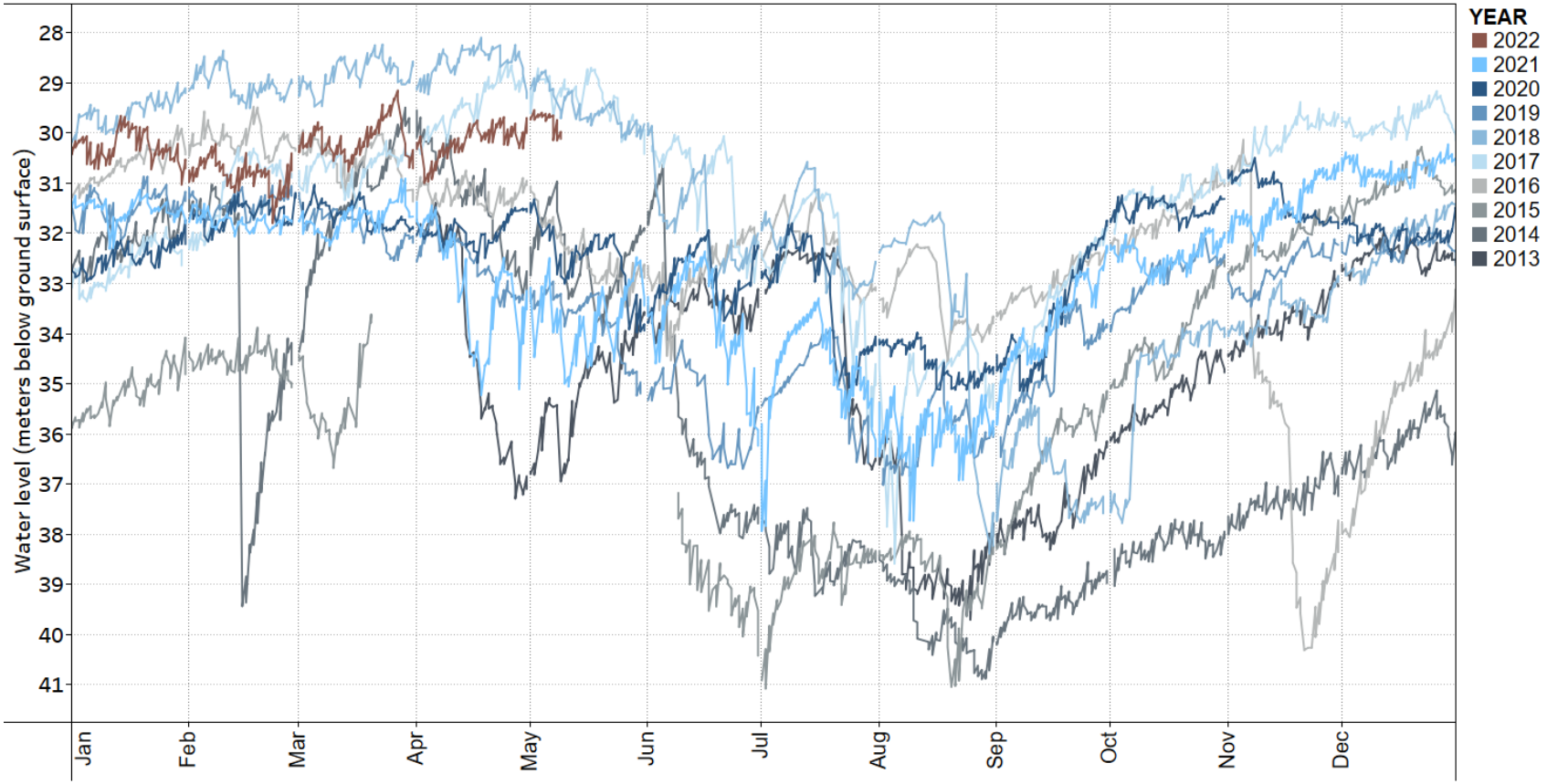
Aquifer 211 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-11

VOW 02 – Northwind (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 213

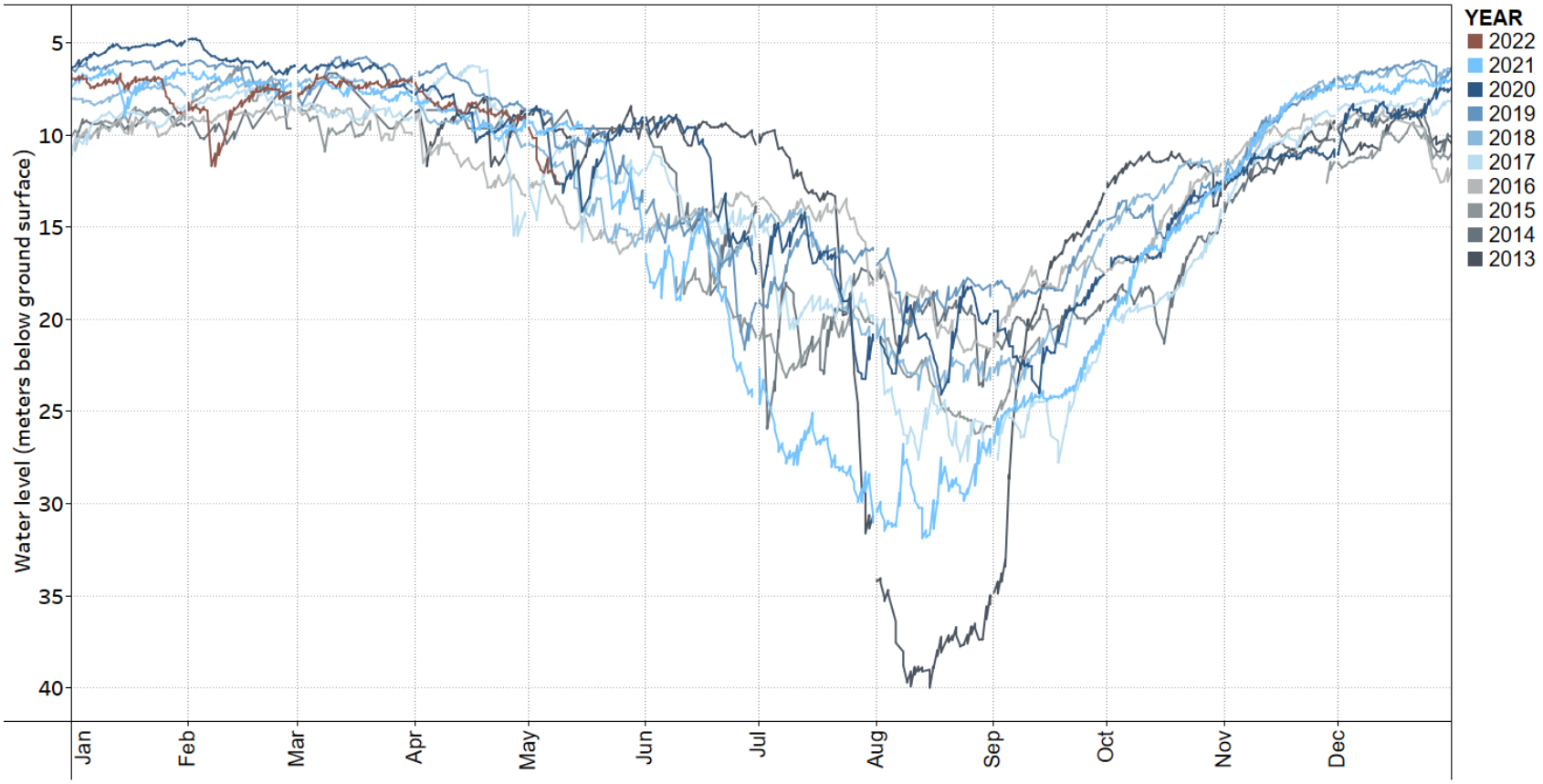
Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-12

VOW 03 – Elm (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 213

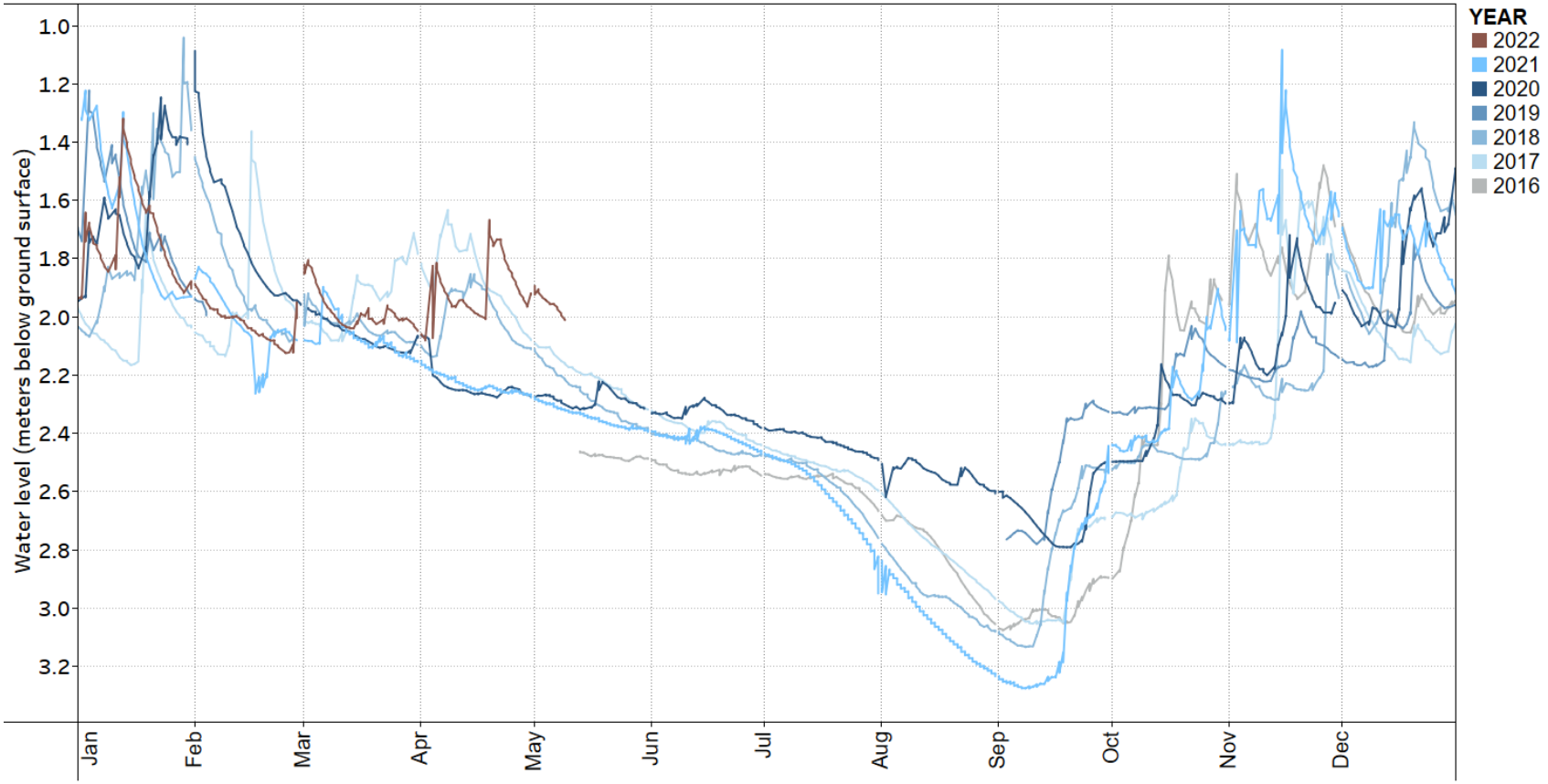
Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-13

VOW 13 – Sea Blush (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 213

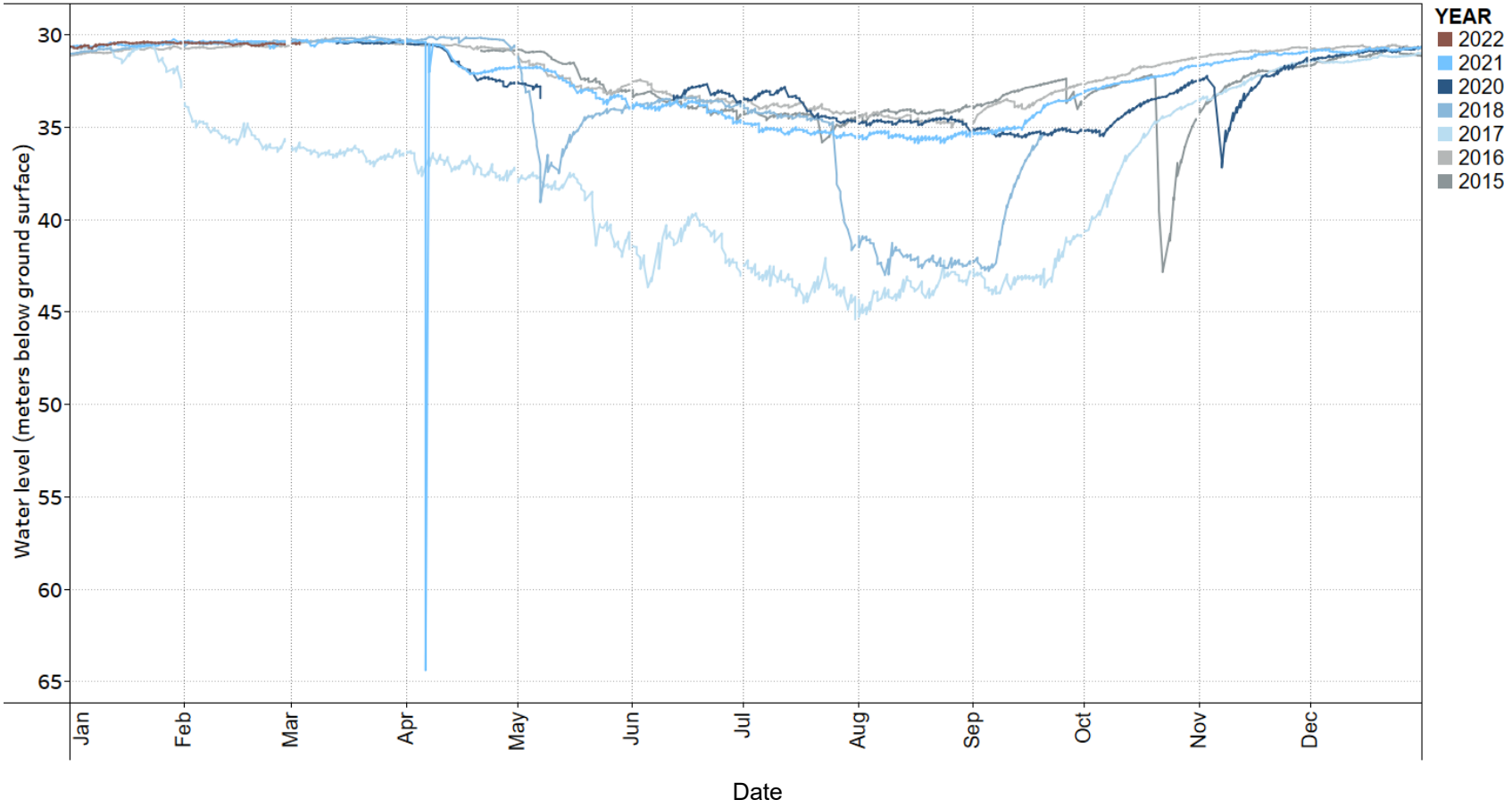
Aquifer 213 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-14

VOW 30 – B2 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 214

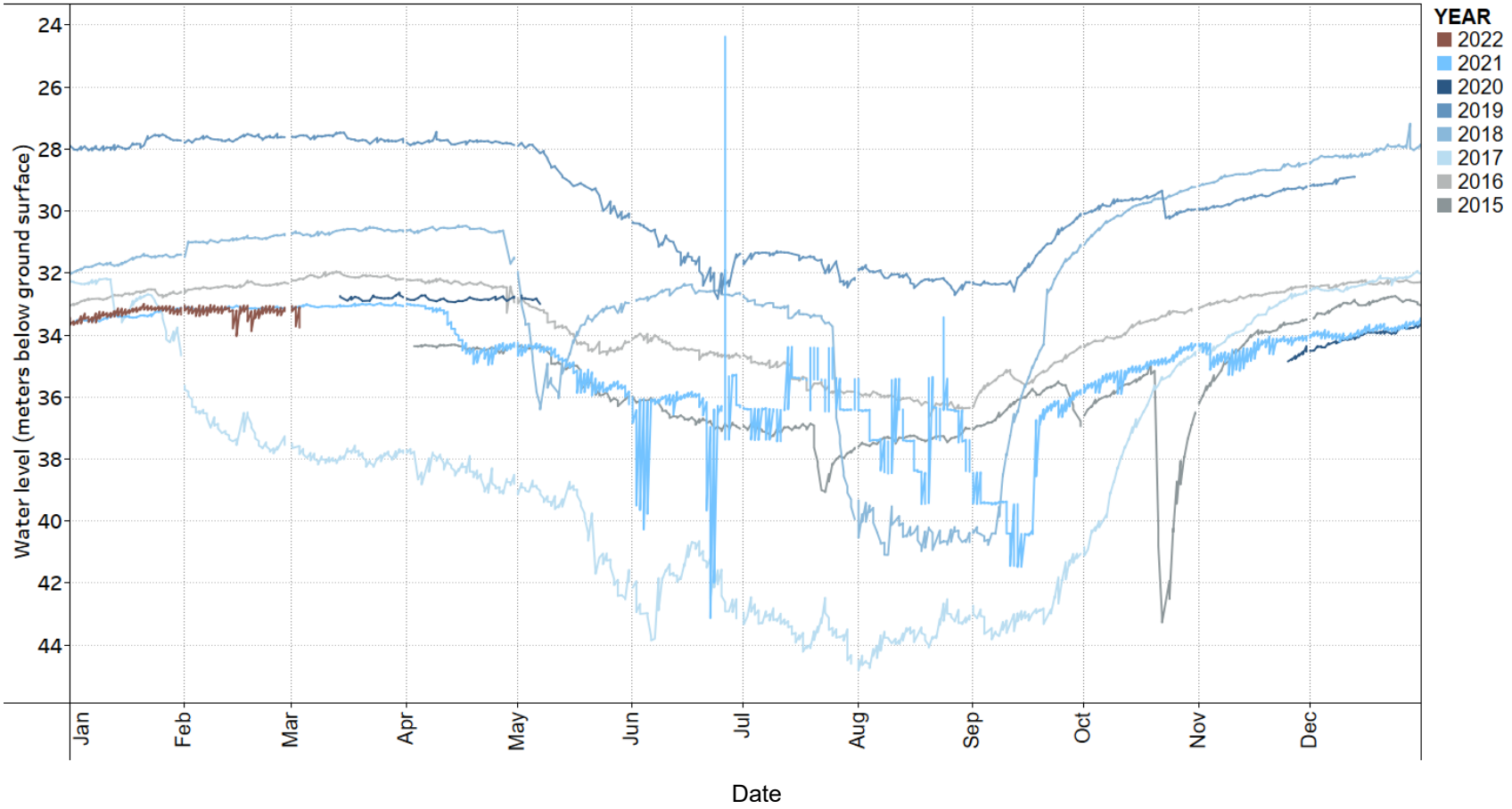
Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-15

VOW 31 – B3 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 214

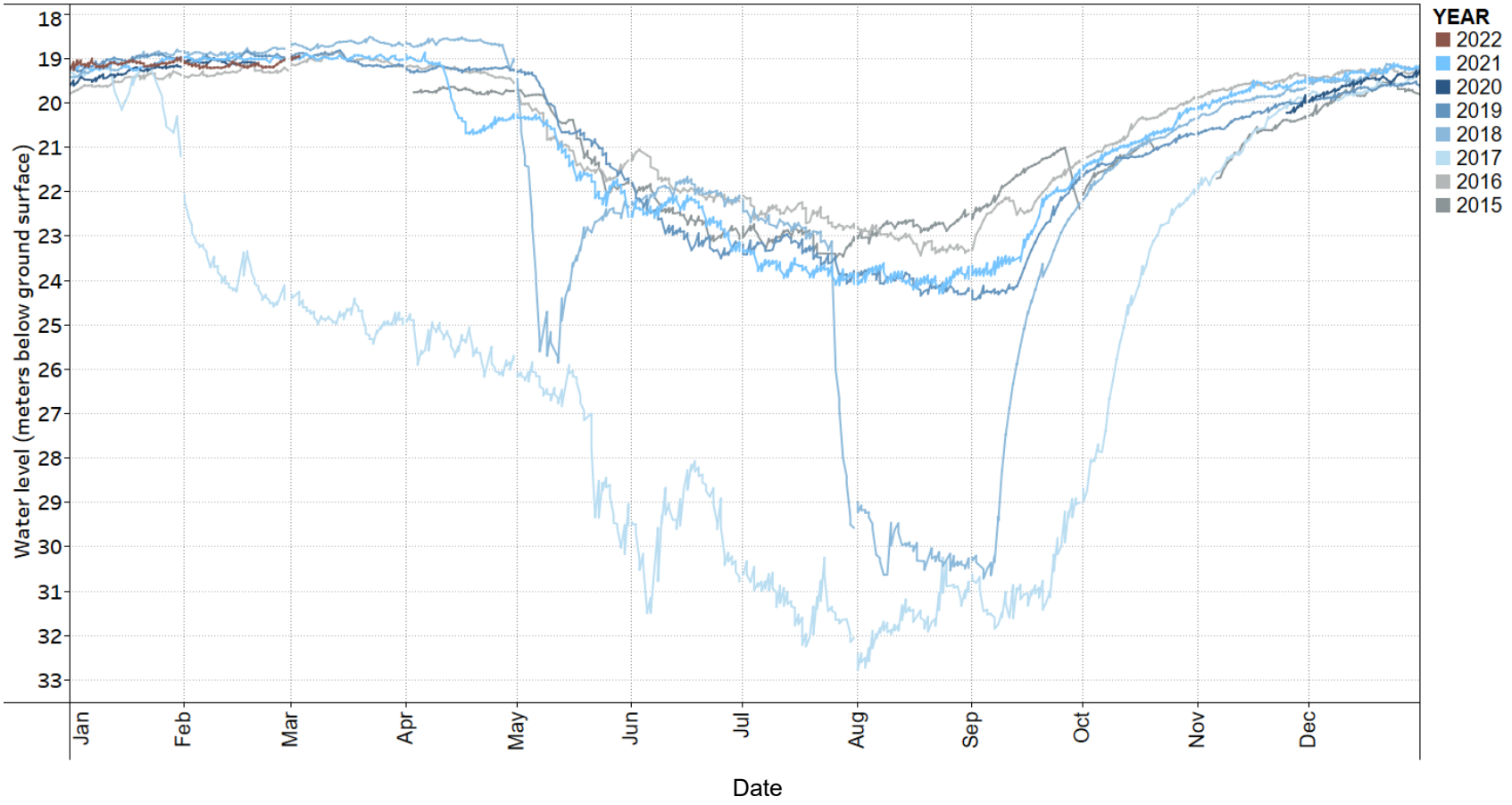
Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-16

VOW 32 – B4 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 214

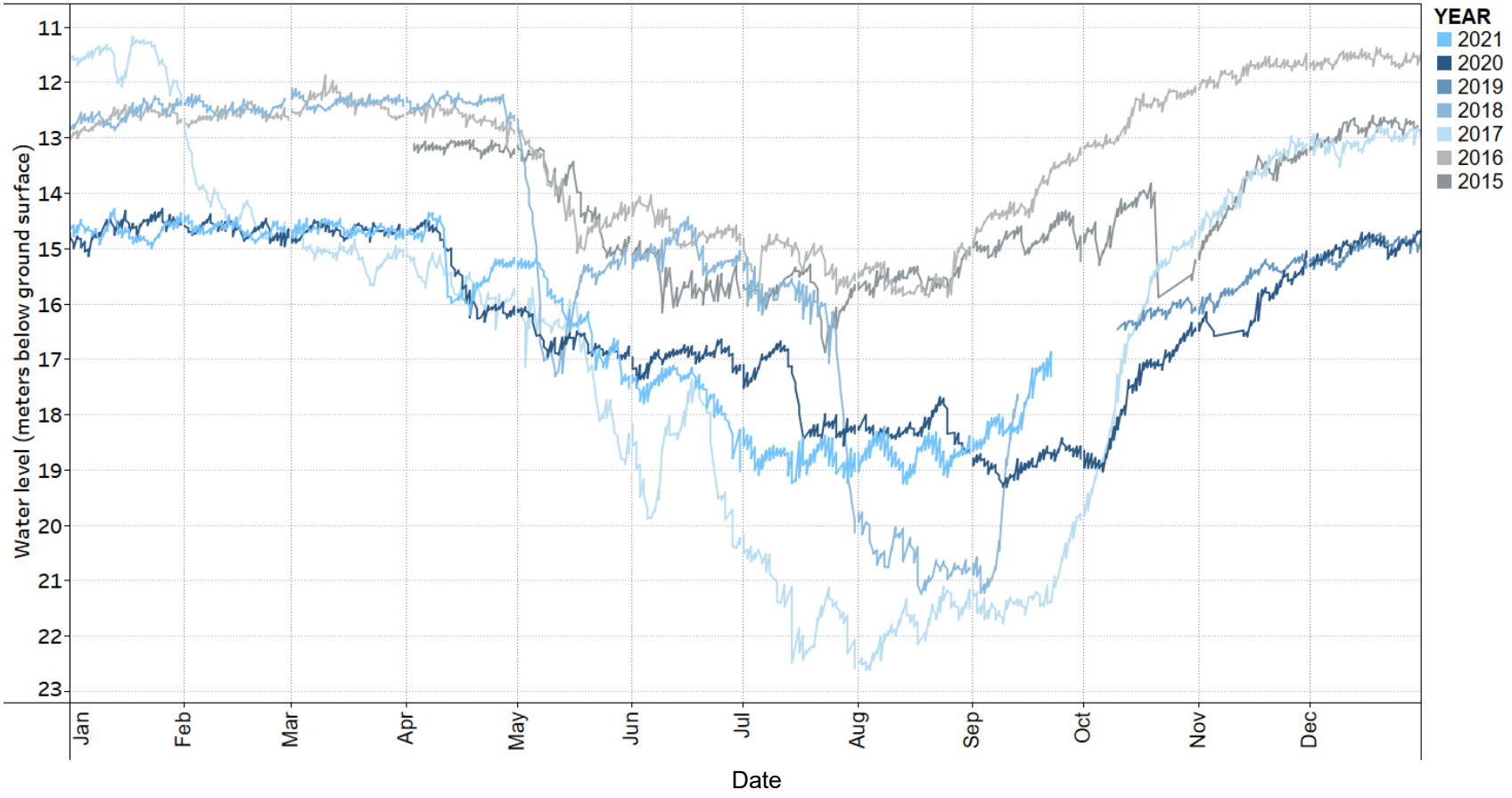
Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-17

VOW 33 – B7 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 214

Aquifer 214 is Fractured Bedrock

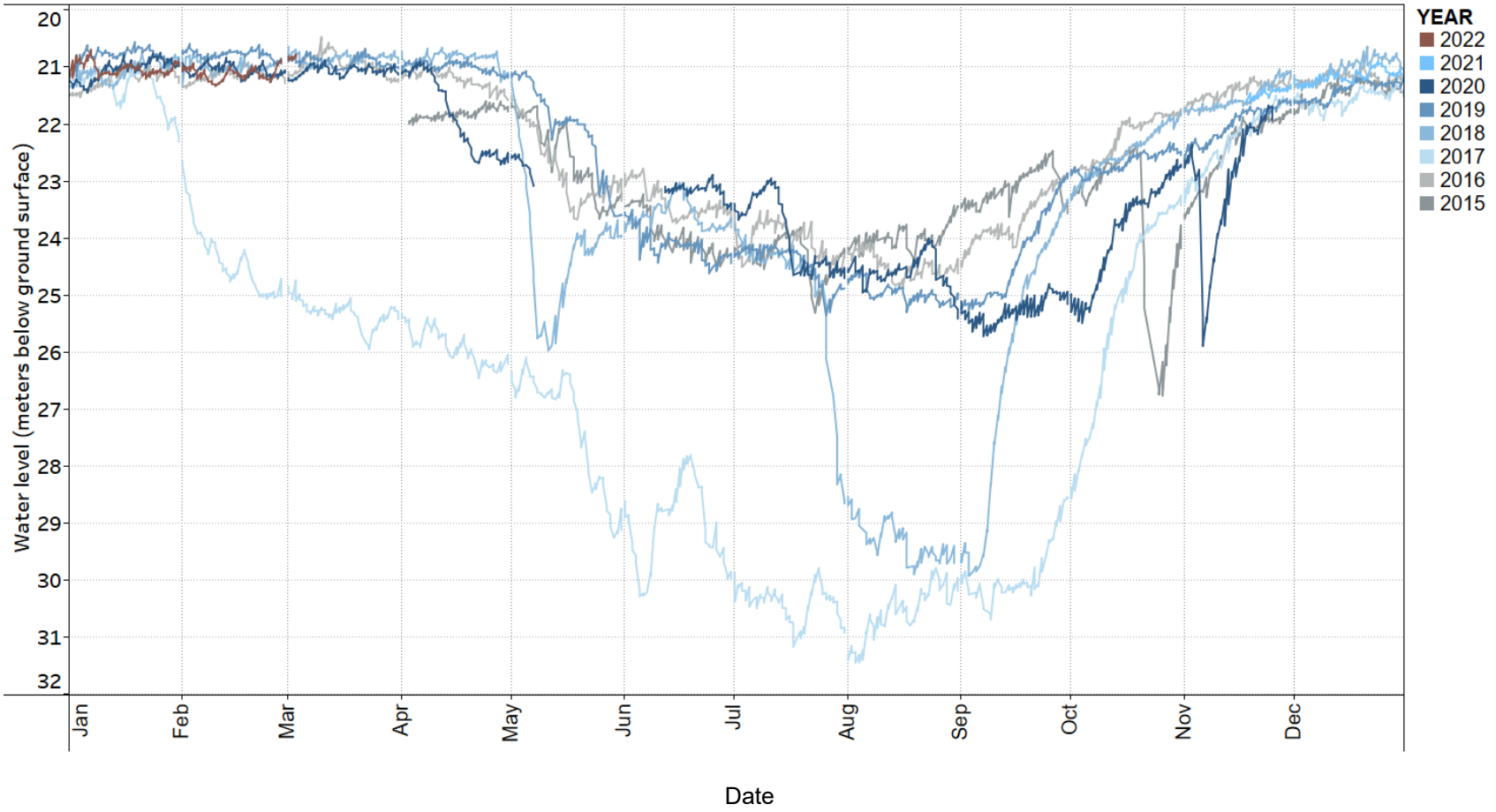
No data for 2022 at time of report

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-18

VOW 34 – B9 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 214

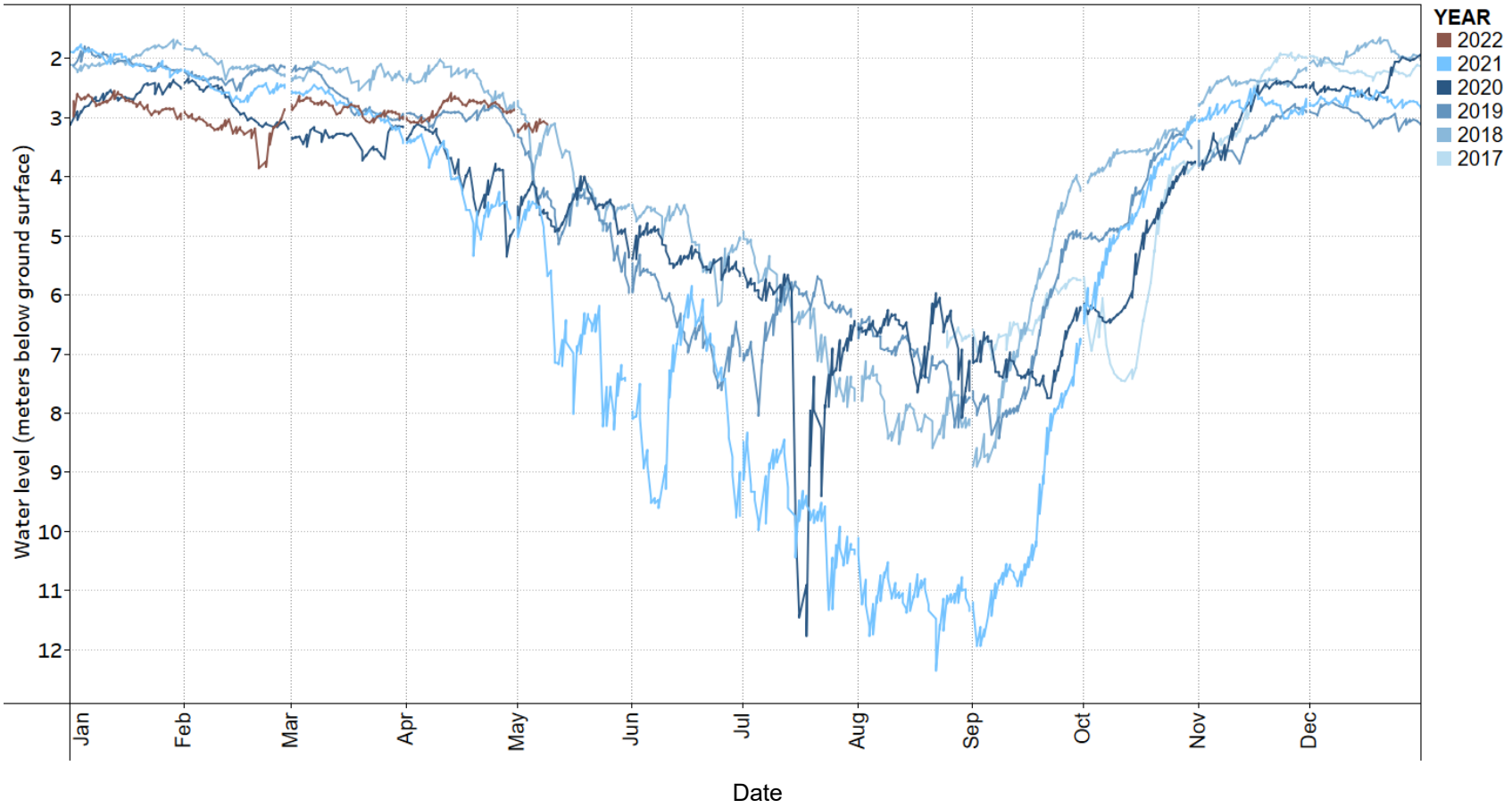
Aquifer 214 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-19

VOW 27 – NWB (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 218

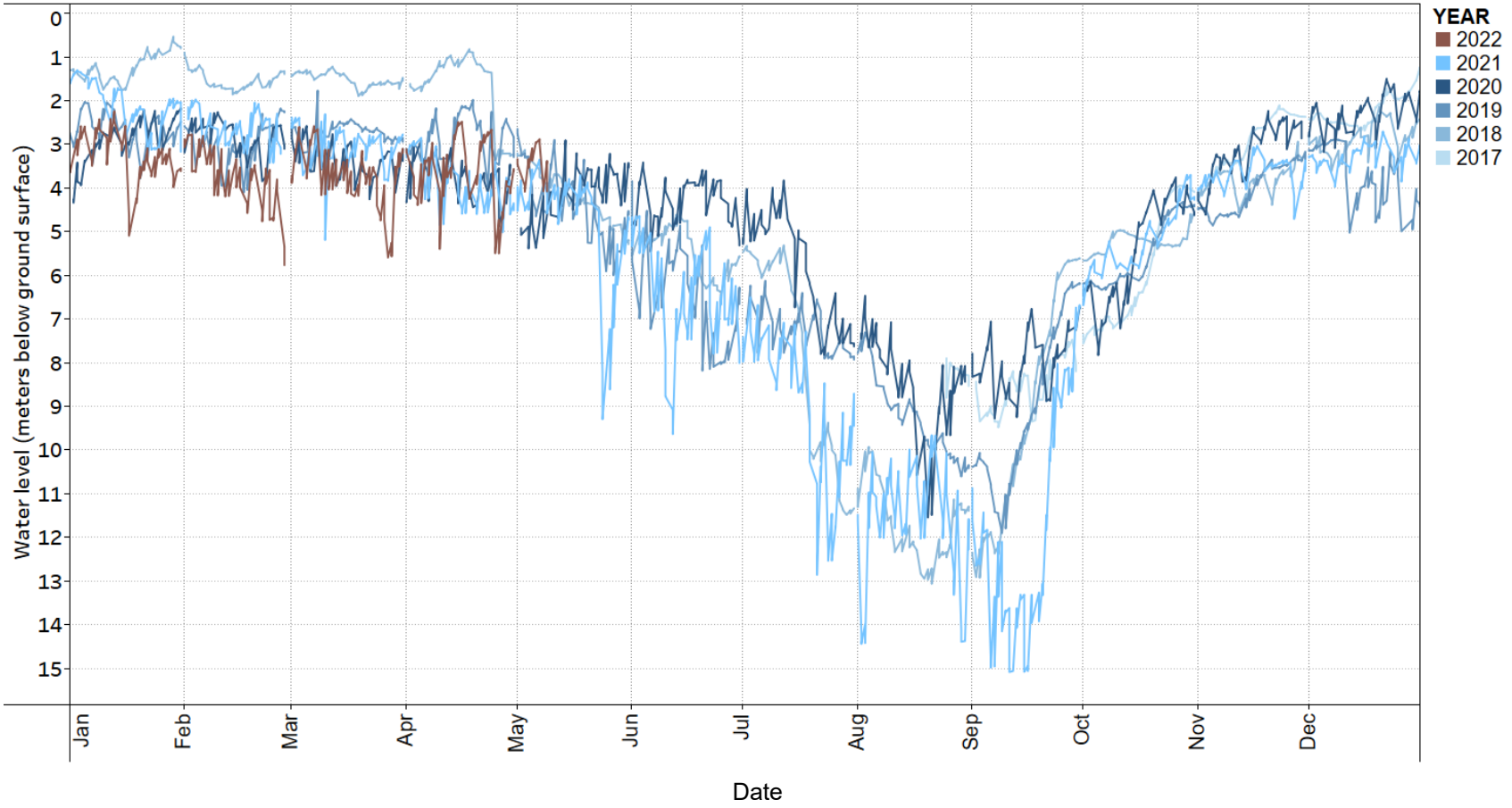
Aquifer 218 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-20

VOW 26 – Florence (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 218

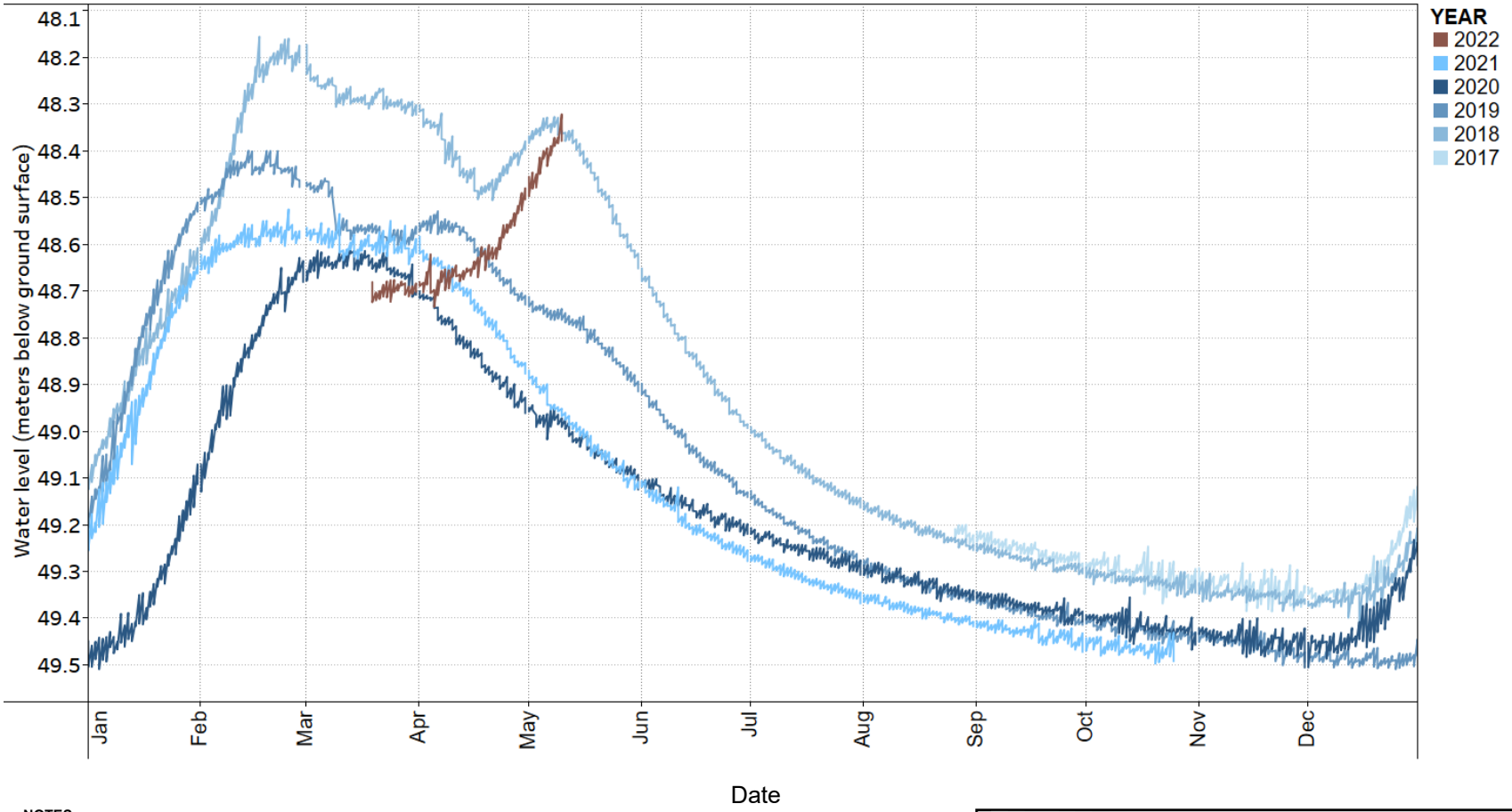
Aquifer 218 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-21

VOW 28 – Southwind (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 215

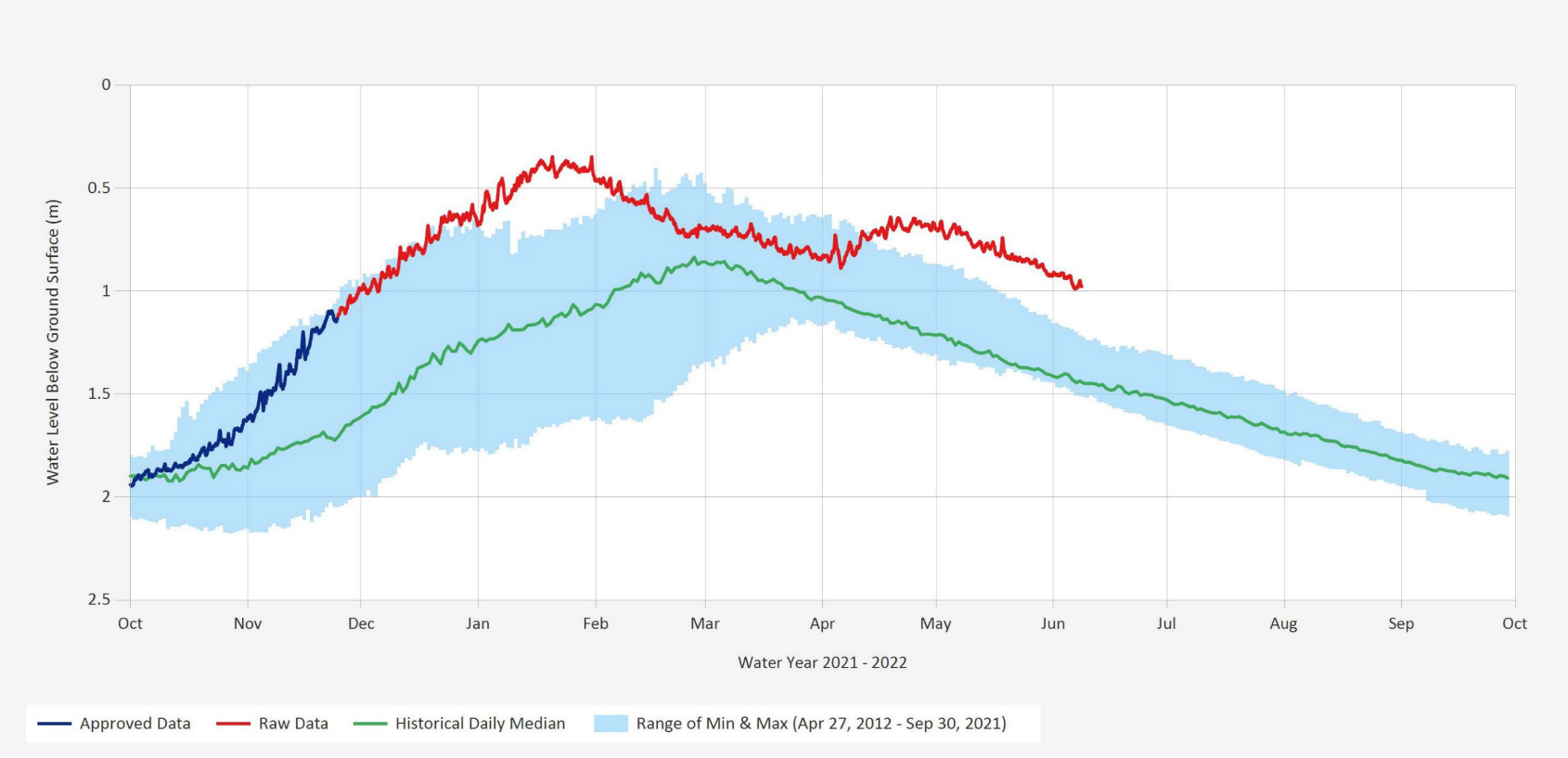
Aquifer 215 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-22

OW 396 (WR5 – Nanoose to South Wellington) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 219

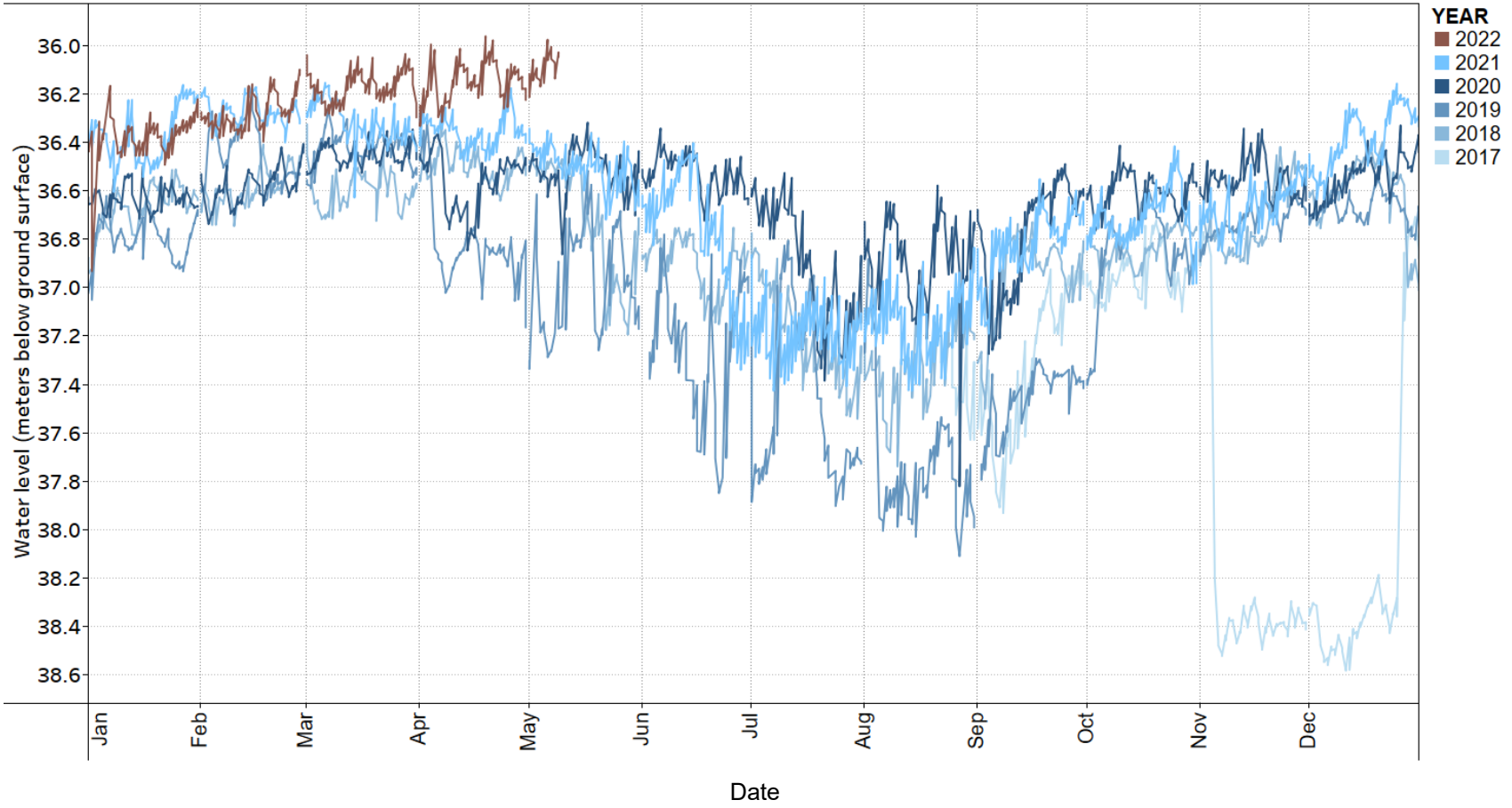
Aquifer 219 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-23

VOW 25 – Sanders (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 219

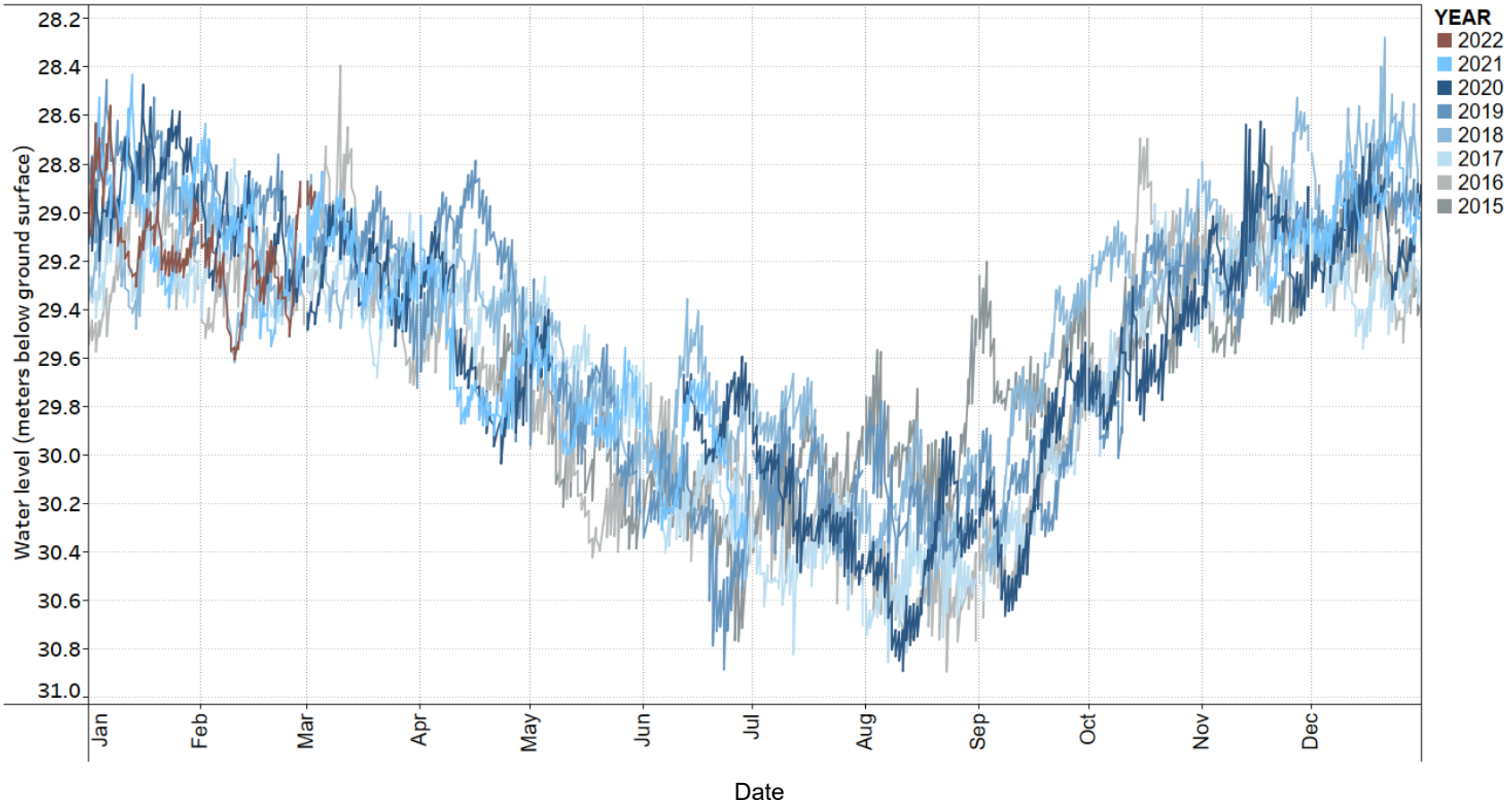
Aquifer 219 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-24

VOW 29 – O3 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 1098

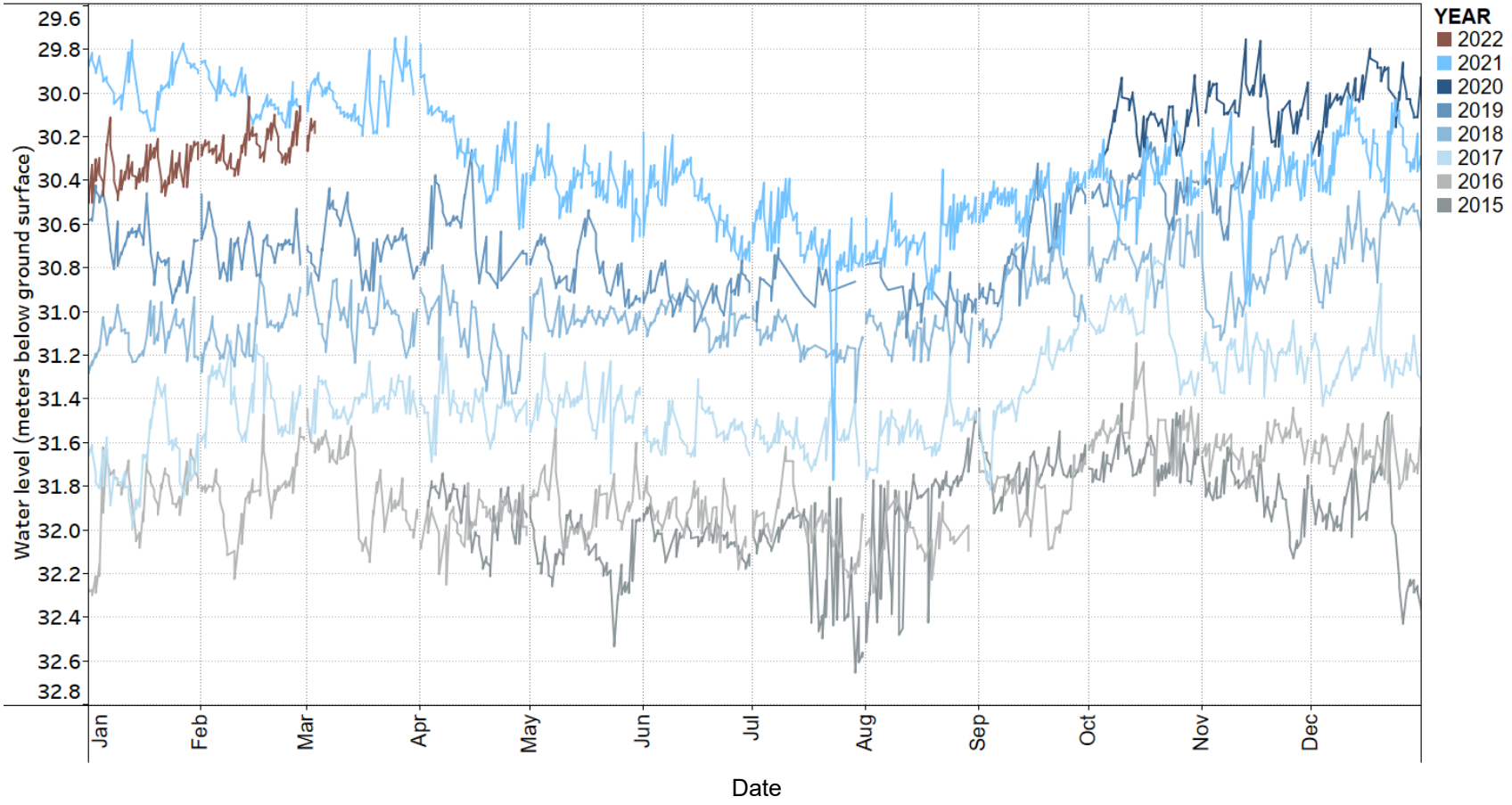
Aquifer 1098 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-25

VOW 17 – O7 (WR5 – Nanoose to South Wellington) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 1098

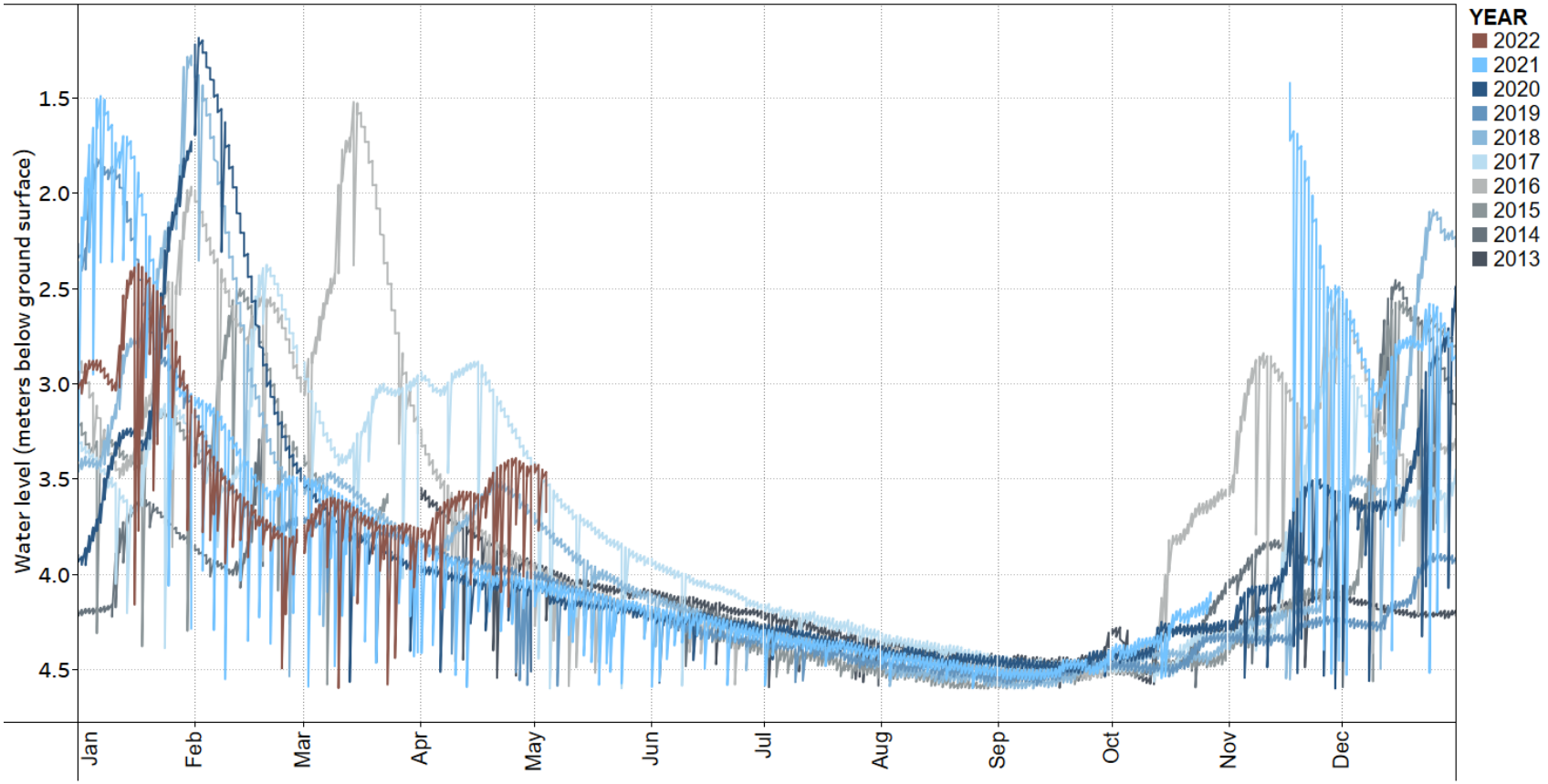
Aquifer 1098 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-26

VOW 04 – Hallberg (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 160

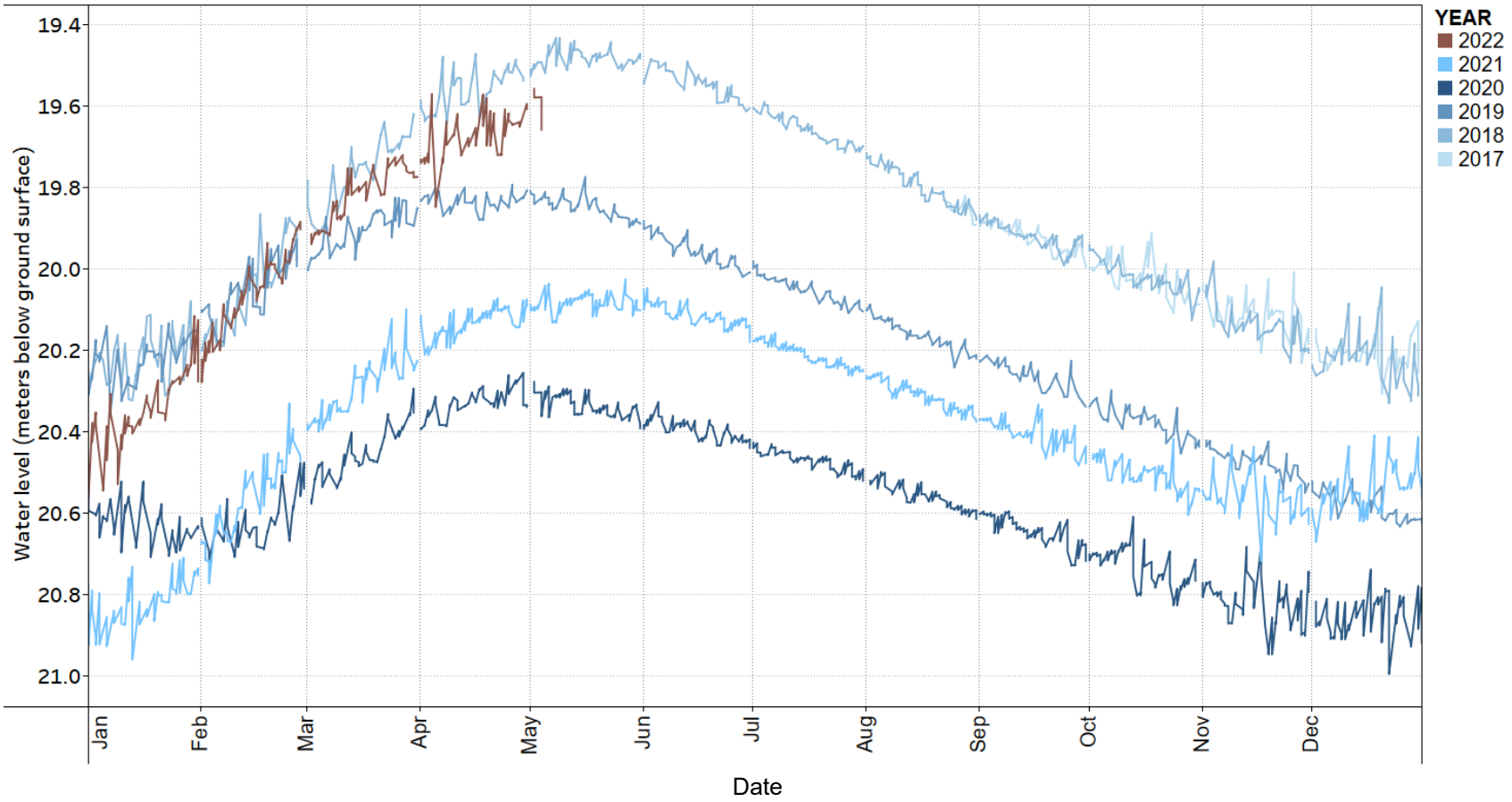
Aquifer 160 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-27

VOW 24 – Brightman (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 163

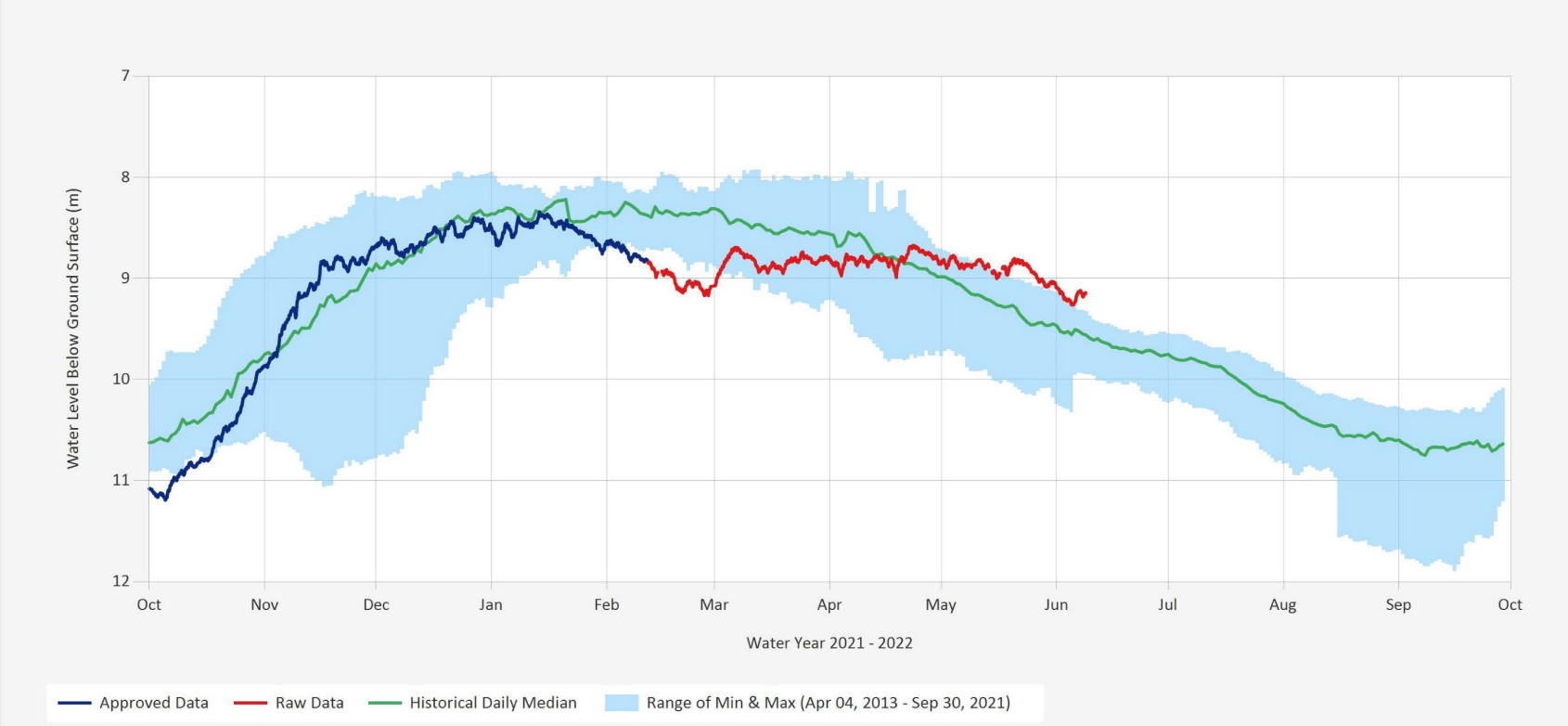
Aquifer 163 is Confined Surficial Sediments

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-28

OW 432 (WR6 – Nanaimo River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 162

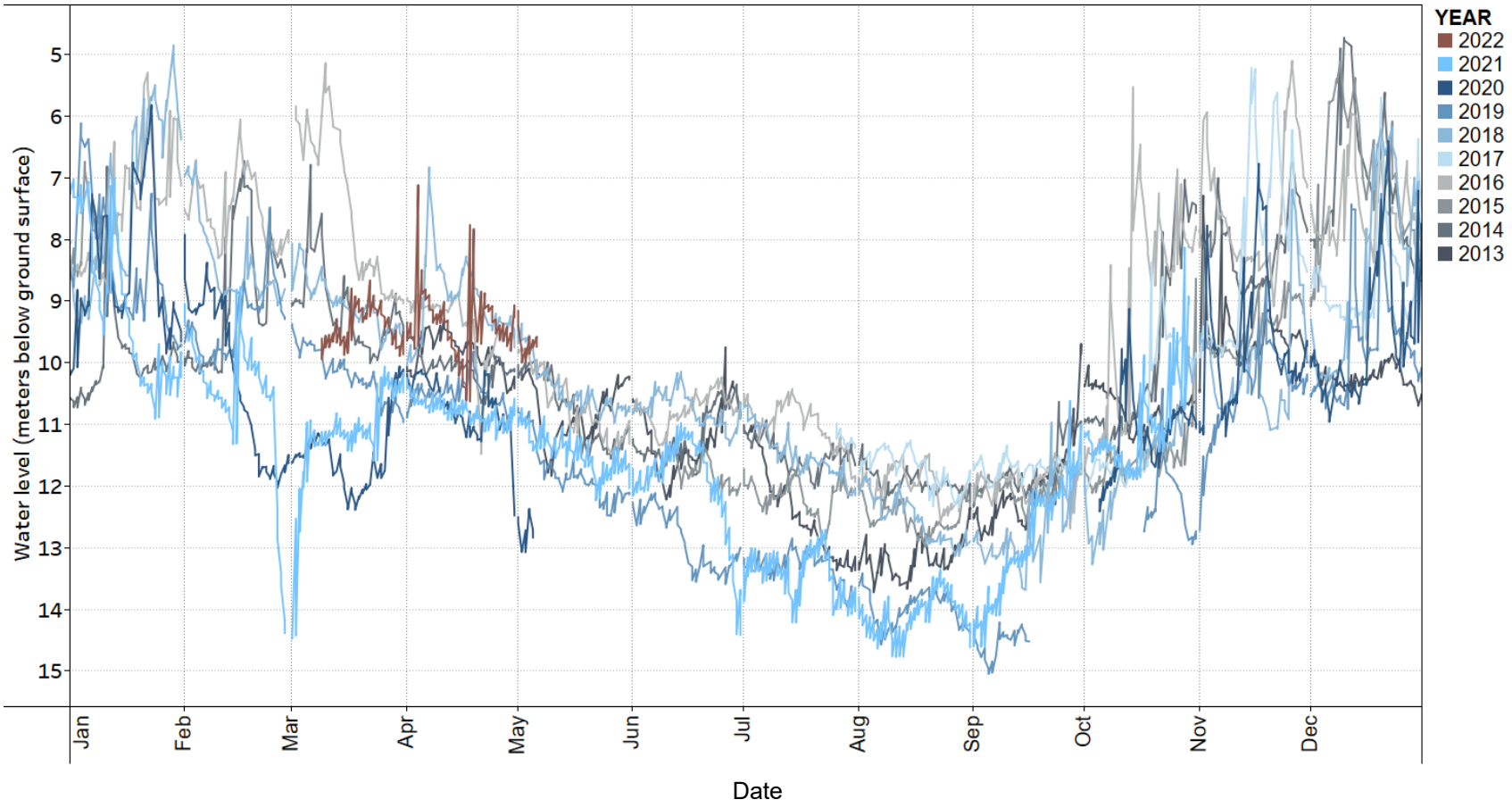
Aquifer 162 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-29

VOW 06 – Pylades (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 162

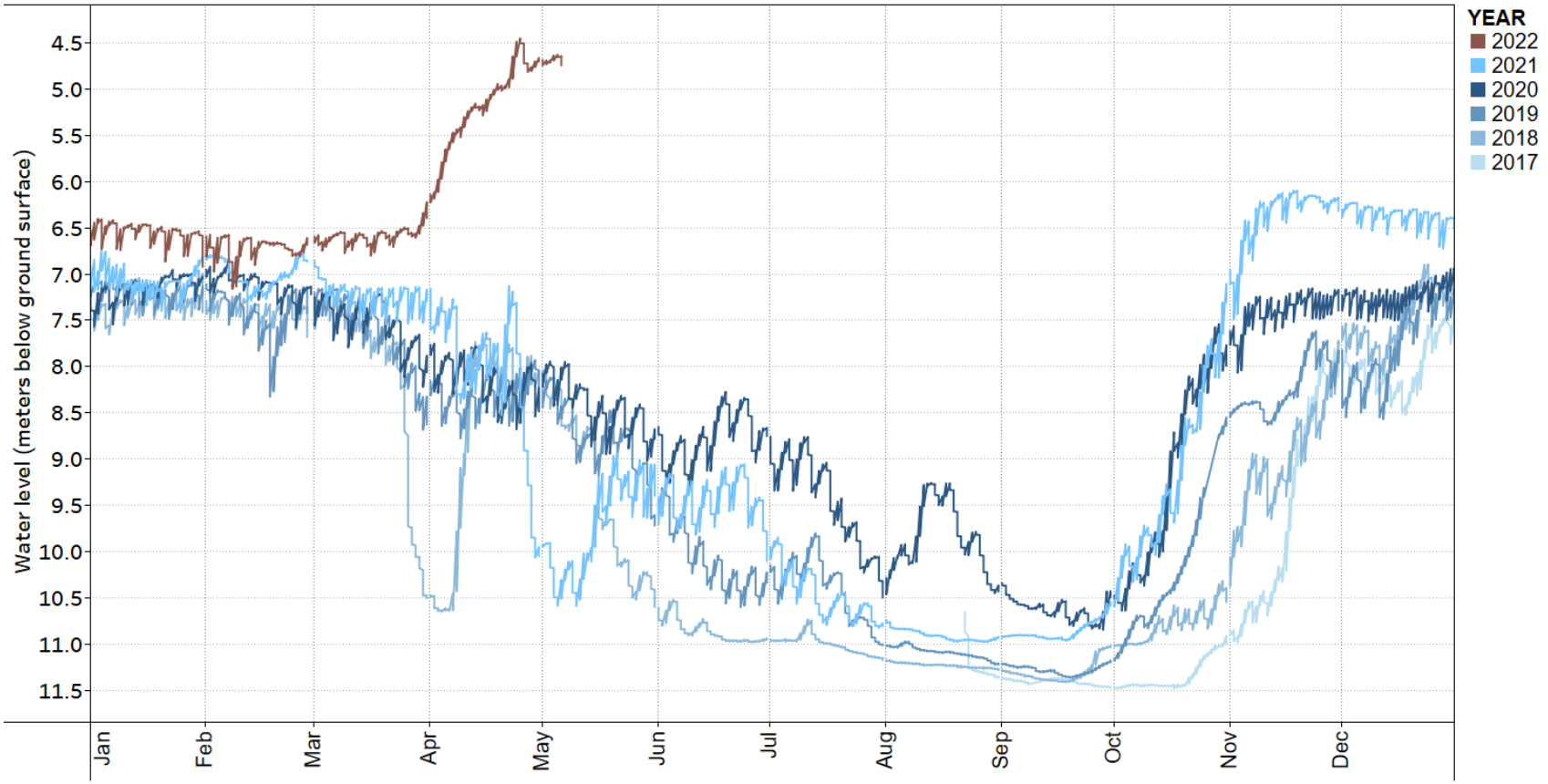
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-30

VOW 19 – De Courcy (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 162

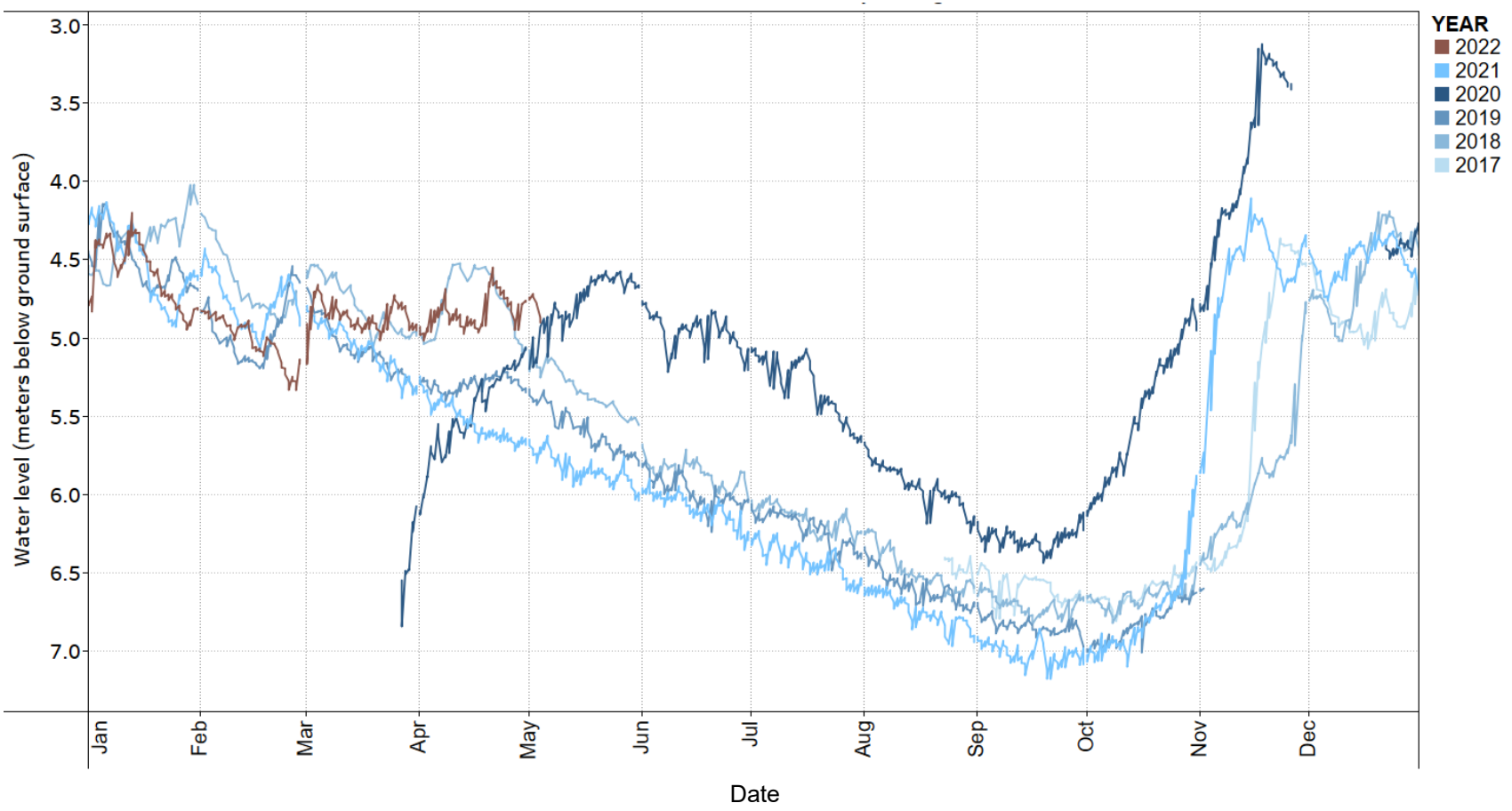
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART
VOW 19 – De Courcy (WR6 – Nanaimo River)

FIGURE C-31

VOW 21 – Rosalie (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 162

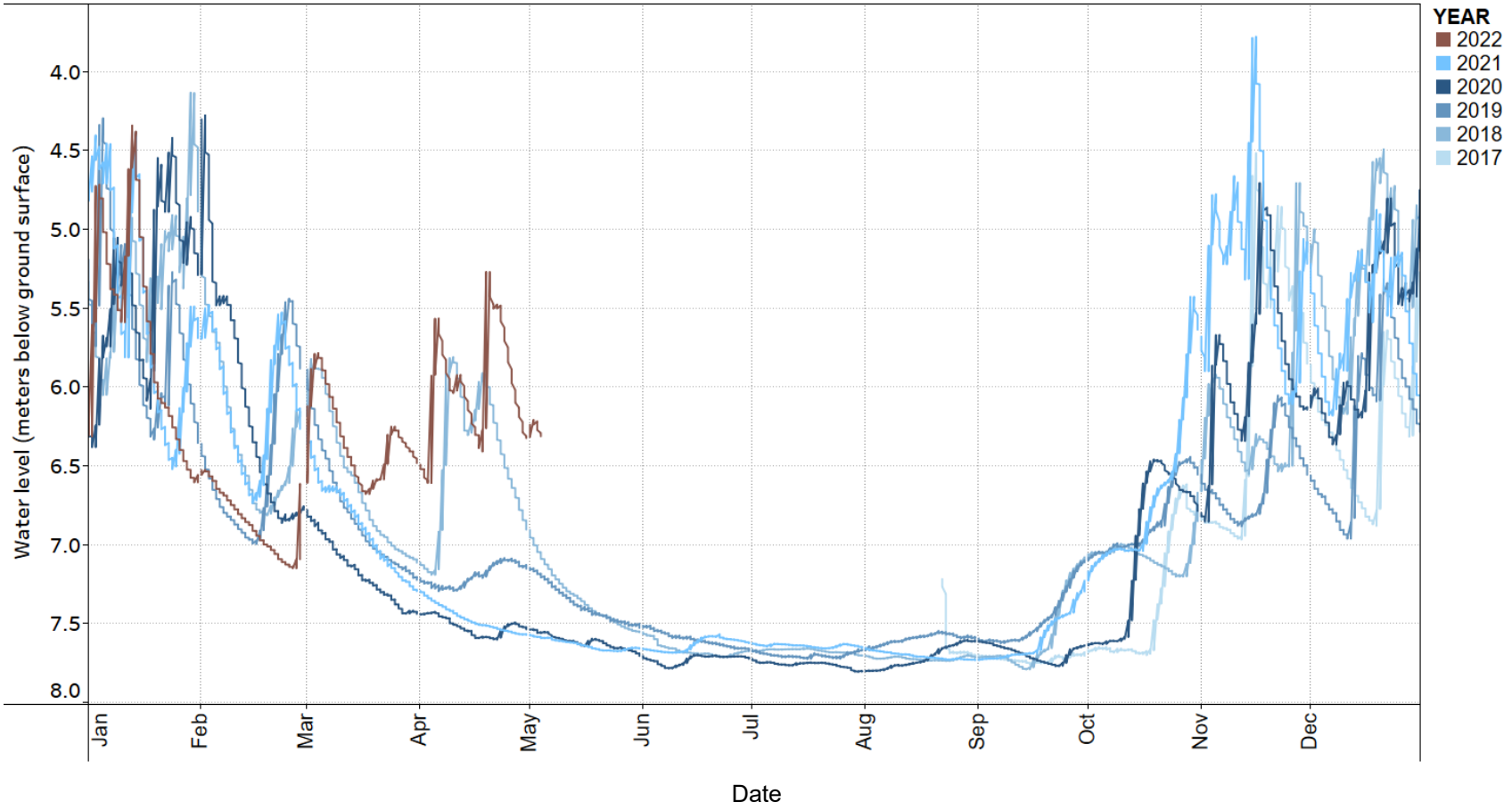
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-32

VOW 22 – Gould (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 162

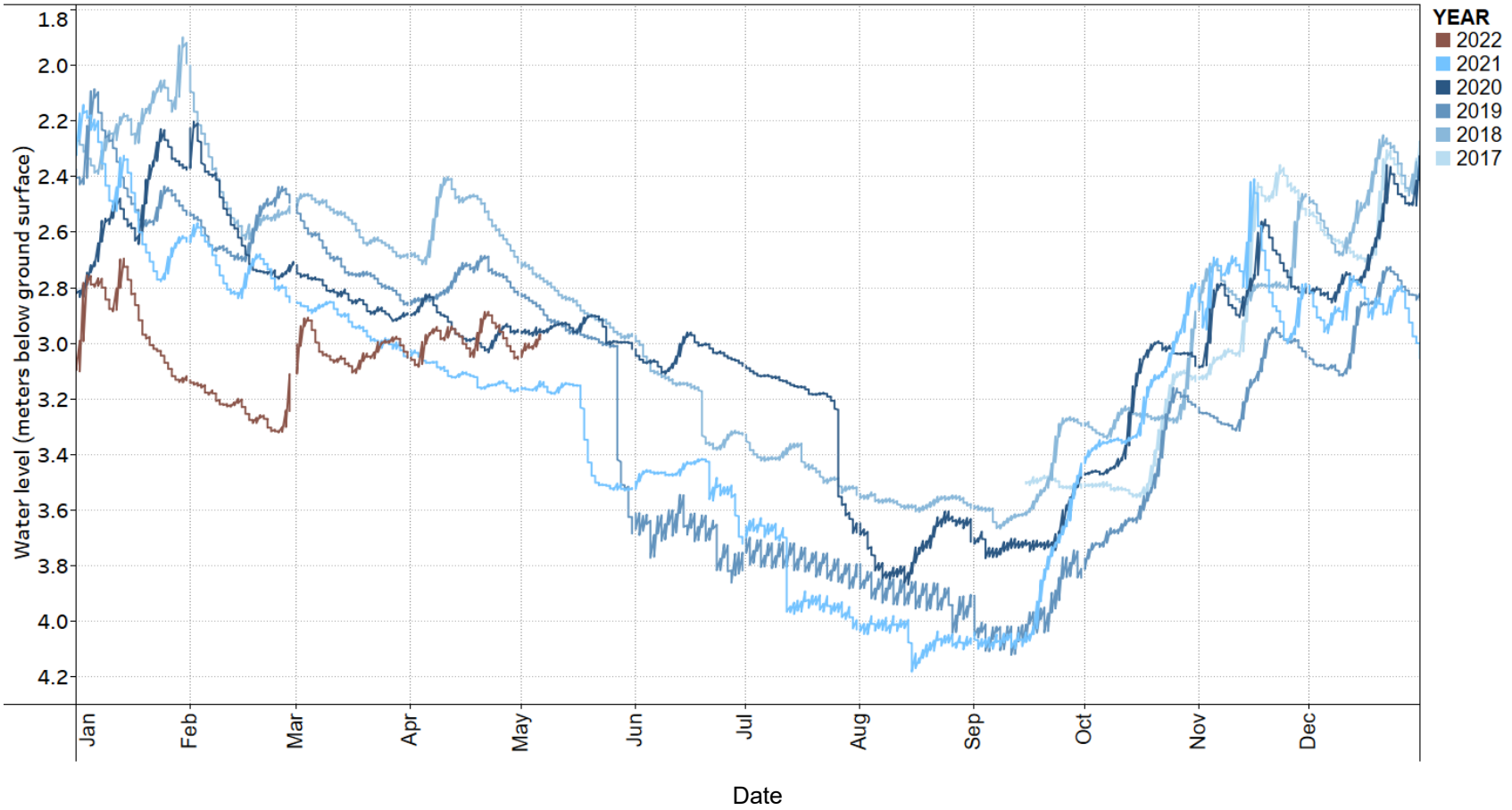
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-33

VOW 23 – Haro (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 162

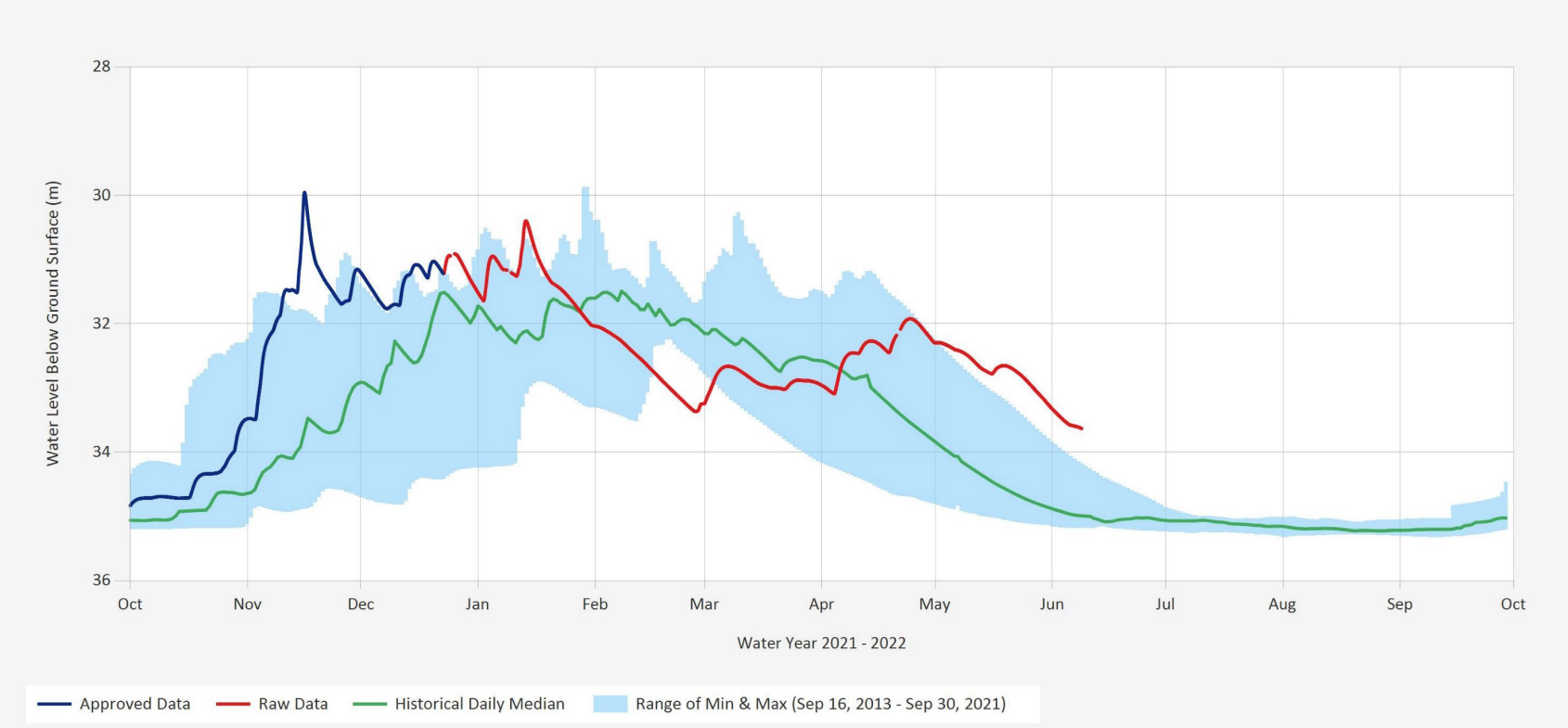
Aquifer 162 is Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-34

OW 435 (WR6 – Nanaimo River) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 165

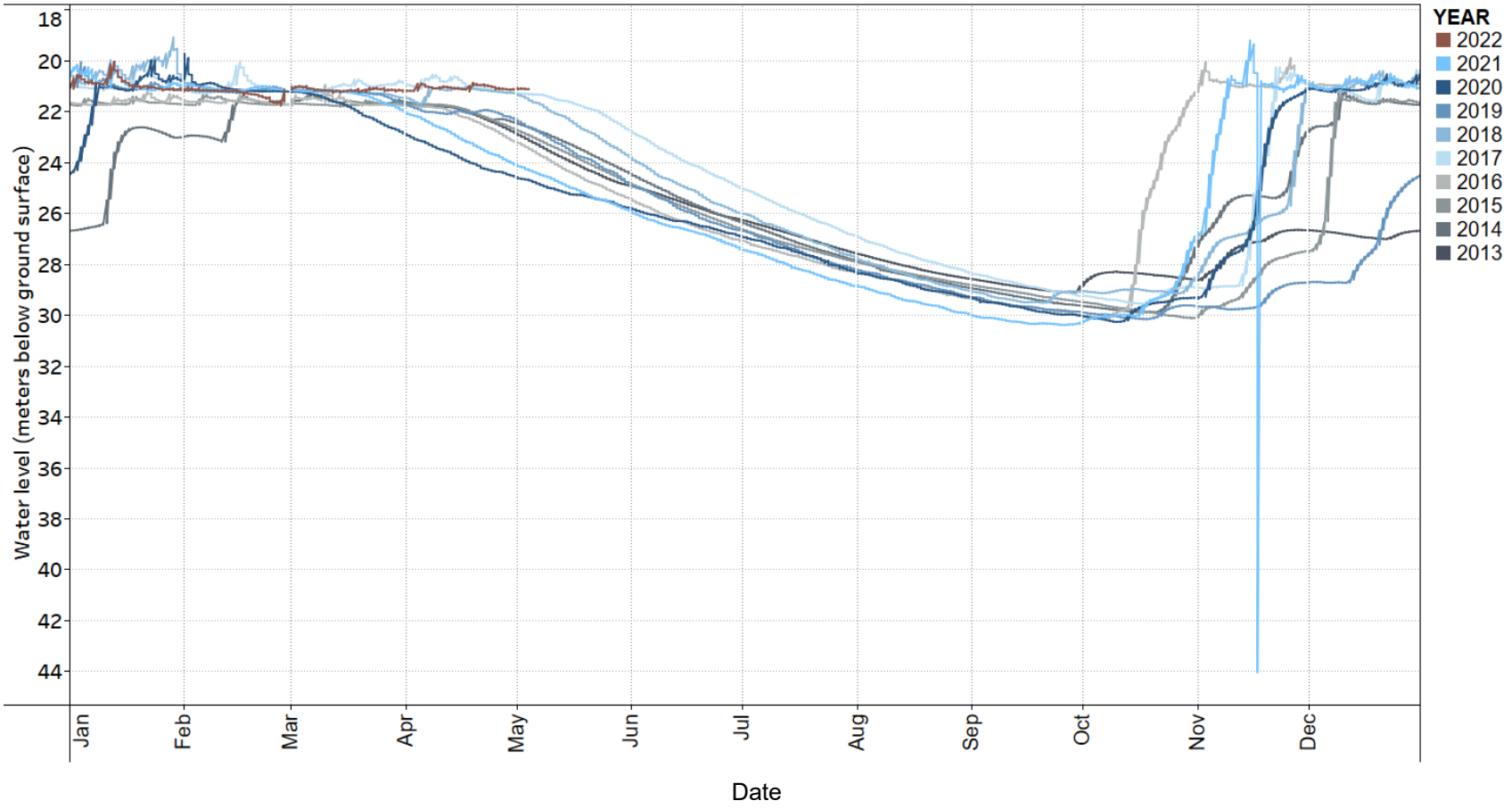
Aquifer 165 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-35

VOW 05 – Grandom (WR6 – Nanaimo River) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 165

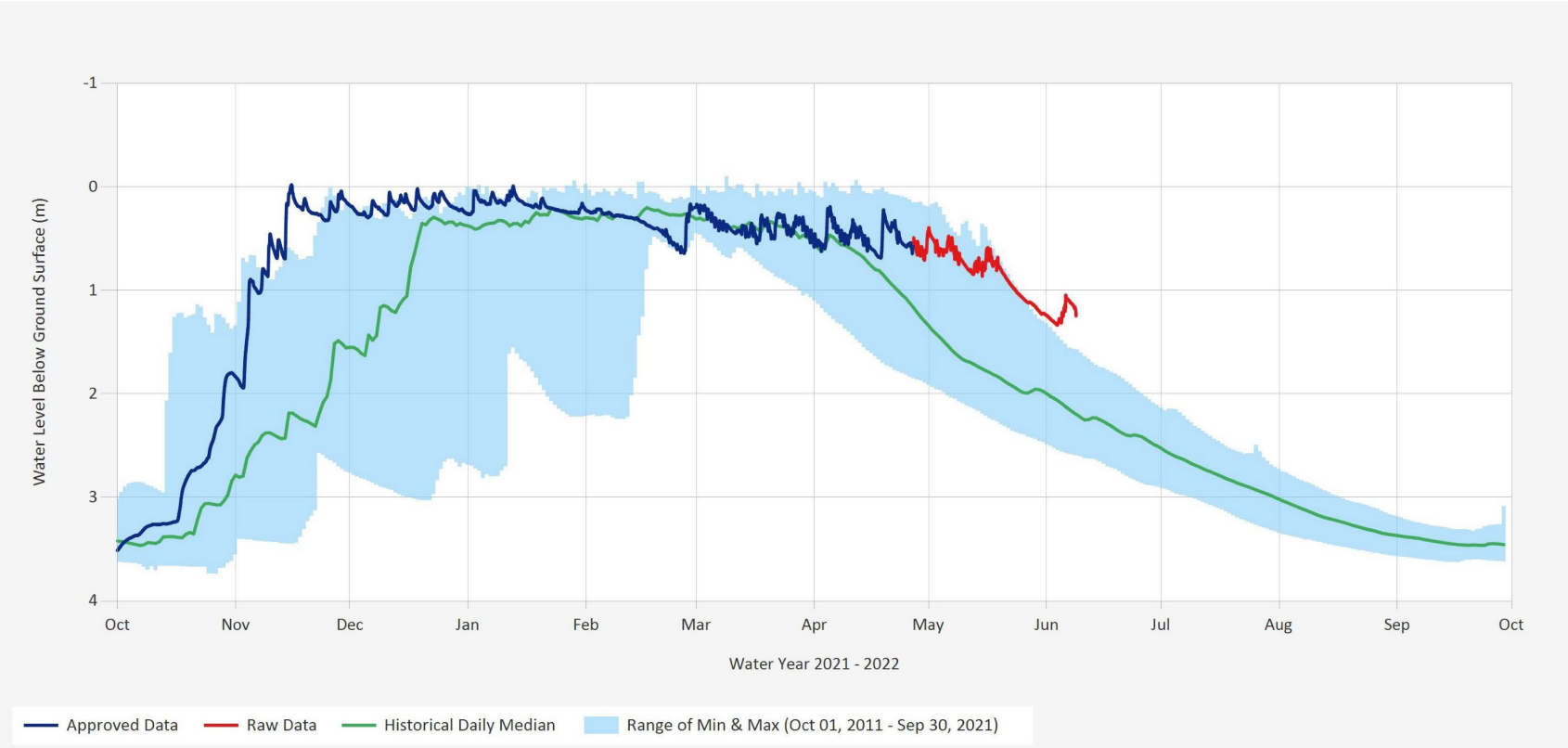
Aquifer 165 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

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

FIGURE C-36

OW 316 (WR7 – Gabriola) Chart Downloaded from B.C. Observation Well Network Website: https://aqrt.nrs.gov.bc.ca/Data/DataSet/Chart/Location



NOTES:
Observation Well Associated with Aquifer 709

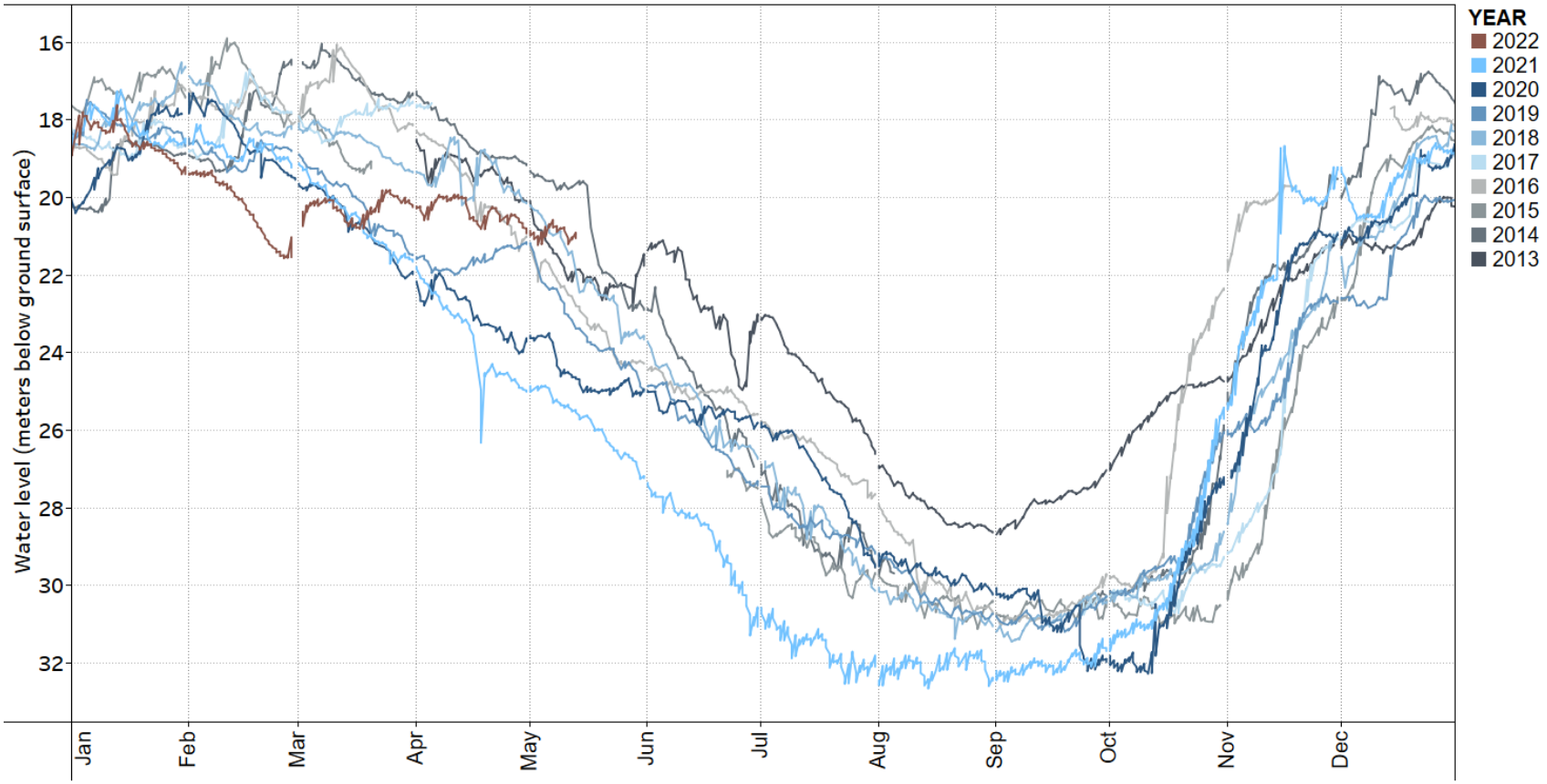
Aquifer 709 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART OW 316 (WR7 – Gabriola)

FIGURE C-37

VOW 08 – Mander (WR7 – Gabriola) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 709

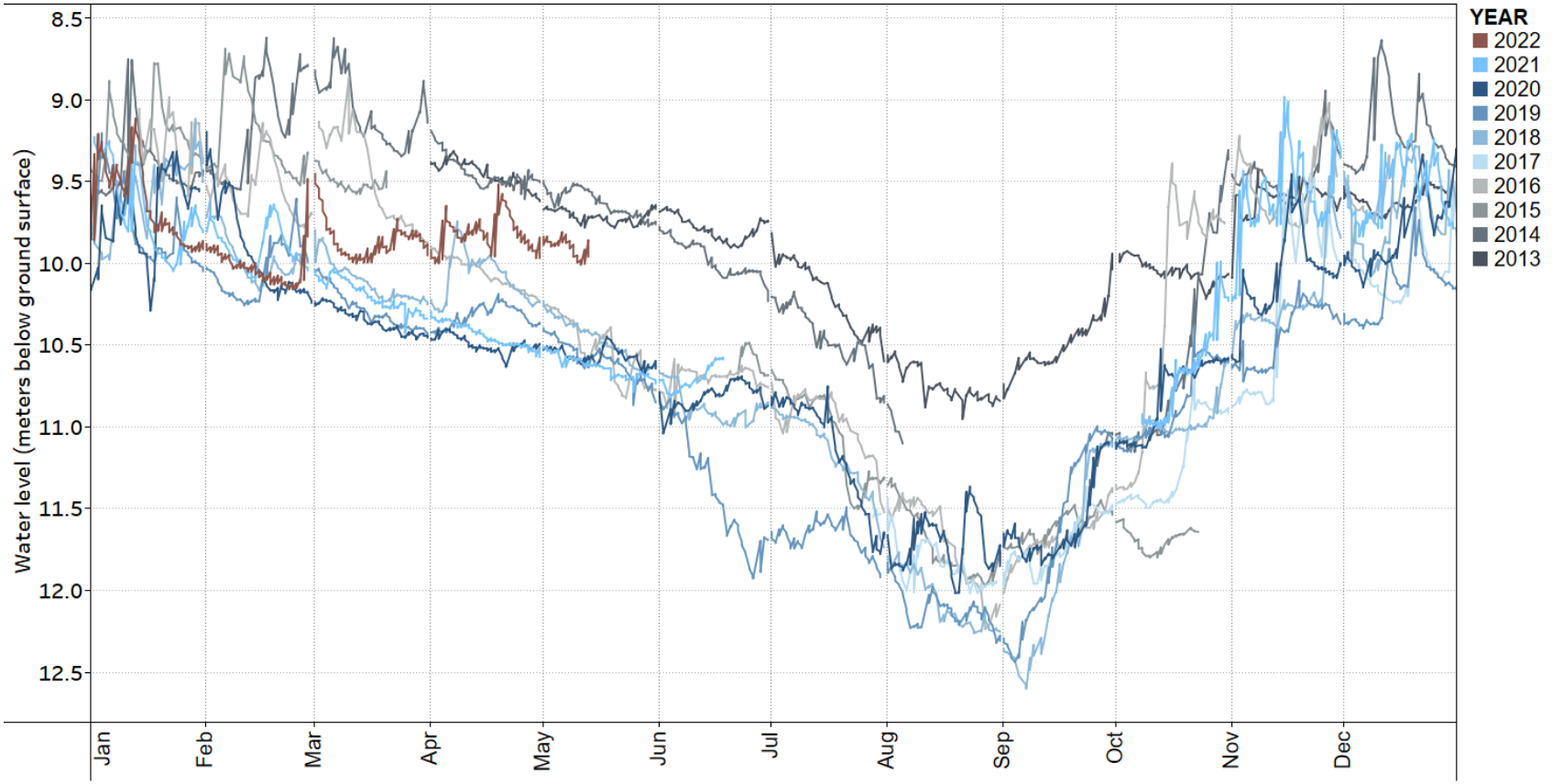
Aquifer 709 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART VOW 08 – Mander (WR7 – Gabriola)

FIGURE C-38

VOW 07 – Descanso (WR7 – Gabriola) Seasonal Static Water Level Daily Average



NOTES:
Observation Well Associated with Aquifer 709

Aquifer 709 Fractured Bedrock

DRINKING WATER AND WATERSHED PROTECTION – REGIONAL GROUNDWATER LEVEL ANALYSIS 2022

SEASONAL GROUNDWATER LEVEL CHART
VOW 07 – Descanso (WR7 – Gabriola)

FIGURE C-39