

APPENDIX D

Hydraulic Testing

Appendix D - Table of Contents

D.1 INTRODUCTION	D-1
D.2 PACKER TESTING	D-2
D.3 SINGLE WELL RESPONSE TESTING	D-5
REFERENCES	D-9

TABLES

D.2.1	Summary of Packer Test Analysis	D-2
D.2.2	Summary of Packer Test Hydraulic Conductivity in Stratigraphic Units	D-4
D.2.3	Summary of Historical Packer Testing Results	D-4
D.3.1	Estimated Hydraulic Conductivity from Slug Test Analyses	D-5
D.3.2	Summary of Slug Test Hydraulic Conductivity in Stratigraphic Units	D-6
D.3.3	Summary of Historical Slug Test Results	D-6

FIGURES

D-1 to D-7	Summary of Packer Test Interpretation	Appendix D-1
D-1-1 to D-1-8	BH75 Lugeon Packer Test Data	Appendix D-1
D-2-1 to D-2-8	BH76 Lugeon Packer Test Data	Appendix D-1
D-3-1 to D-3-8	BH77 Lugeon Packer Test Data	Appendix D-1
D-4-1 to D-4-10	BH78 Lugeon Packer Test Data	Appendix D-1
D-5-1 to D-5-10	BH79 Lugeon Packer Test Data	Appendix D-1
D-6-1 to D-6-7	BH80 Lugeon Packer Test Data	Appendix D-1
D-7-1 to D-7-8	BH81 Lugeon Packer Test Data	Appendix D-1
D-8 to D-36	Single Well Response Test Analyses	Appendix D-2

APPENDICES

APPENDIX D-1

Packer Test Data

APPENDIX D-2

Single Well Response Test Analyses

D.1 INTRODUCTION

Various methods were used to perform the hydraulic conductivity testing at the Site, all of which are summarized in this Appendix. A description of the testing undertaken at the Site is provided below.

Section D.2 Packer testing completed during borehole advancement to assess relative hydraulic conductivity of discrete bedrock intervals during 2024 / 2025 drilling program, undertaken between December 18, 2024, and May 14, 2025. Test data and analyses included in **Appendix D-1**.

Section D.3 Single well response testing completed to determine local in-situ hydraulic conductivity undertaken between May 6 – June 24, 2025. Test data and analyses included in **Appendix D-2**.

D.2 PACKER TESTING

A total of seven (7) monitoring well nests were analyzed using the Lugeon packer testing method (Houlsby, November 1976) during advancement of the deep 'I' series boreholes to assess the hydraulic conductivity along the depth of the borehole at 3 m (10') intervals. The packer testing data are included in **Appendix D-1** and summarized in **Tables D.2.1 and D.2.2** below, along with the test interval, interpreted stratigraphy and other relevant notes. Packer test results from previous studies (Gartner Lee Limited, 2006) are summarized in **Table D.2.3**.

Table D.2.1 Summary of Packer Testing Analyses

Borehole ID	Figure	Depth Interval (mbgs)	Stratigraphy	Lugeon	Hydraulic Conductivity (m/s)	Notes
BH75	D-1-1	32.9 – 29.9	Rochester	1.3	1.7×10^{-7}	
	D-1-2	29.9 – 26.9	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-1-3	26.8 – 23.8	Rochester	28.5	3.7×10^{-6}	
	D-1-4	23.8 – 20.8	DeCew / Gasport		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-1-5	20.8 – 17.8	Gasport	56.6	7.4×10^{-6}	
	D-1-6	17.8 – 14.8	Gasport / Goat Island	2.6	3.4×10^{-7}	
	D-1-7	14.8 – 11.8	Goat Island	76.7	1.0×10^{-5}	
	D-1-8	11.8 – 8.8	Goat Island	154.7	2.0×10^{-5}	
BH76	D-2-1	28.9 – 25.9	Irondequoit / Rochester	4.2	5.5×10^{-7}	
	D-2-2	25.9 – 22.9	Rochester	1.9	2.5×10^{-7}	
	D-2-3	22.9 – 19.9	Rochester	3.3	4.3×10^{-7}	
	D-2-4	19.9 – 16.9	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-2-5	16.9 – 13.9	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-2-6	13.9 – 11.9	Rochester	123.3	1.6×10^{-5}	
	D-2-7	10.9 – 7.9	DeCew	160.0	2.1×10^{-5}	
	D-2-8	7.9 – 4.9	Gasport	9.1	1.2×10^{-6}	
BH77	D-3-1	34.3 – 31.3	Irondequoit / Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-3-2	31.3 – 28.3	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-3-3	28.3 – 25.3	Rochester	5.4	7.0×10^{-7}	
	D-3-4	25.3 – 22.3	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-3-5	22.3 – 19.3	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-3-6	19.3 – 16.3	Rochester	2.1	2.7×10^{-7}	
	D-3-7	16.3 – 13.3	Rochester / DeCew	4.7	6.1×10^{-7}	
	D-3-8	13.3 – 10.3	Gasport	0.3	3.8×10^{-8}	
BH78	D-4-1	37.6 – 34.6	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-4-2	34.6 – 31.6	Rochester	18.4	2.4×10^{-6}	
	D-4-3	31.6 – 28.6	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-4-4	28.6 – 25.6	Rochester		$< 1 \times 10^{-8}$	(very low, cannot calculate)
	D-4-5	25.6 – 22.6	Rochester	4.3	5.5×10^{-7}	
	D-4-6	22.6 – 19.6	Rochester / DeCew		$< 1 \times 10^{-8}$	(very low, cannot calculate)

Borehole ID	Figure	Depth Interval (mbgs)	Stratigraphy	Lugeon	Hydraulic Conductivity (m/s)	Notes
	D-4-7	19.6 – 16.6	DeCew / Gasport		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-4-8	16.6 – 13.6	Gasport	1.6	2.1×10^{-7}	
	D-4-9	13.6 – 10.6	Gasport	5.9	7.7×10^{-7}	
	D-4-10	11.6 – 8.6	Gasport	86.5	1.1×10^{-5}	
BH79	D-5-1	39.3 – 36.3	Irondequoit / Rochester		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-2	36.3 – 33.2	Rochester		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-3	33.2 – 30.2	Rochester		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-4	30.2 – 27.1	Rochester		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-5	27.1 – 24.1	Rochester	0.3	4.1×10^{-8}	
	D-5-6	24.1 – 21.0	Rochester / DeCew	0.5	6.2×10^{-8}	
	D-5-7	21.0 – 18.0	DeCew / Gasport		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-8	18.0 – 14.9	Gasport		$<1 \times 10^{-8}$	(very low, cannot calculate)
	D-5-9	14.9 – 11.9	Gasport	5.4	6.0×10^{-7}	
	D-5-10	11.9 – 8.8	Gasport / Goat Island	87.8	1.1×10^{-5}	
BH80	D-6-1	32.7 – 29.6	Rochester	10.5	1.4×10^{-6}	
	D-6-2	29.6 – 26.6	Rochester	21.8	2.8×10^{-6}	
	D-6-3	26.6 – 23.5	Rochester	20.0	2.6×10^{-6}	
	D-6-4	23.5 – 20.5	Rochester	2.8	3.6×10^{-7}	
	D-6-5	20.5 – 17.4	Rochester / DeCew	2.0	2.6×10^{-7}	
	D-6-6	17.4 – 14.4	DeCew	13.3	1.7×10^{-6}	
	D-6-7	14.4 – 11.4	Gasport	110.0	1.4×10^{-5}	
BH81	D-7-1	31.3 – 28.2	Rochester	0.3	4.1×10^{-8}	
	D-7-2	28.2 – 25.2	Rochester	0.5	6.2×10^{-8}	
	D-7-3	25.2 – 22.2	Rochester	1.2	1.5×10^{-7}	
	D-7-4	22.2 – 19.1	Rochester	3.1	4.1×10^{-7}	
	D-7-5	19.1 – 16.1	Rochester	12.1	1.6×10^{-6}	
	D-7-6	16.1 – 13.0	Rochester	66.0	8.6×10^{-6}	
	D-7-7	13.0 – 10.0	DeCew / Gasport	175.8	2.3×10^{-5}	
	D-7-8	11.0 – 7.9	Gasport	186.3	2.4×10^{-5}	

Table D.2.2 Summary of Packer Test Hydraulic Conductivity in Stratigraphic Units

Stratigraphic Unit	No. of Intervals	Hydraulic Conductivity (m/s)		Published Range * (m/s)
		Minimum	Maximum	
Lockport Fm. – Goat Island Mb.	3	1.0×10^{-5}	2.0×10^{-5}	$1 \times 10^{-9} - 6 \times 10^{-6}$ ⁽¹⁾
Lockport Fm. – Gasport Mb.	11	$<1 \times 10^{-8}$	2.4×10^{-5}	
Rochester Fm. – Upper	7	4.1×10^{-8}	1.6×10^{-5}	$1 \times 10^{-13} - 2 \times 10^{-9}$ ⁽²⁾
Rochester Fm. – Middle	7	$<1 \times 10^{-8}$	2.6×10^{-6}	
Rochester Fm. – Lower	18	$<1 \times 10^{-8}$	2.8×10^{-6}	
Irondequoit Fm.	3	$<1 \times 10^{-8}$	5.5×10^{-7}	$1 \times 10^{-9} - 6 \times 10^{-6}$ ⁽¹⁾

Notes: * From (Domenico & Schwartz, 1990).

⁽¹⁾ Sound limestone and dolomite⁽²⁾ Shale**Table D.2.3 Summary of Historical Packer Testing Results**

Borehole ID	Depth Interval (mbgs)	Stratigraphy	Hydraulic Conductivity (m/s)
66	23.4 – 20.4	Rochester Fm. – Upper	2.1×10^{-8}
	26.5 – 23.4	Rochester Fm. – Middle	2.3×10^{-8}
	29.5 – 26.5	Rochester Fm. – Lower	1.4×10^{-8}
67	25.9 – 22.9	Rochester Fm. – Upper	1.1×10^{-7}
	29.0 – 25.9	Rochester Fm. – Middle	1.5×10^{-7}
	32.0 – 29.0	Rochester Fm. – Lower	4.1×10^{-8}
	35.1 – 32.0	Rochester Fm. – Lower	7.5×10^{-8}
68	24.8 – 21.7	Rochester Fm. – Upper	3.2×10^{-8}
	27.8 – 24.8	Rochester Fm. – Middle	2.2×10^{-7}
	30.9 – 27.8	Rochester Fm. – Lower	6.6×10^{-8}
69	22.0 – 19.0	Rochester Fm. – Upper	5.3×10^{-8}
	25.1 – 22.0	Rochester Fm. – Middle	3.1×10^{-8}
	28.1 – 25.1	Rochester Fm. – Lower	$<1 \times 10^{-8}$

D.3 SINGLE WELL RESPONSE TESTING

In-situ single well response hydraulic conductivity (slug) tests have been completed at the twenty-nine (29) newly installed monitoring wells distributed around the SSA to confirm the hydraulic conductivity in the various bedrock units. The slug test analyses are included in **Appendix D-2** and summarized in **Tables D.3.1 and D.3.2** below. Slug test results from previous studies (Gartner Lee Limited, 2006) are summarized in **Table D.3.3**.

Table D.3.1 Estimated Hydraulic Conductivity from Slug Test Analyses

Borehole ID	Well	Figure	Stratigraphy	Hydraulic Conductivity (m/s)	Notes
BH75	75-I	D-8	Irondequoit	2.3×10^{-7}	
	75-II	D-9	Middle Rochester	2.6×10^{-8}	
	75-III	D-10	Upper Rochester	1.2×10^{-5}	Very fast recovery
	75-IV	D-11	Lockport Fm. Gasport Mb.	9.1×10^{-6}	Fast recovery
	75-V	D-12	Lockport Fm. Goat Is. Mb.	2.5×10^{-5}	Very fast recovery
BH76	76-I	D-13	Irondequoit	9.4×10^{-7}	
	76-II	D-14	Lower Rochester	1.4×10^{-7}	
	76-III	D-15	Middle Rochester	3.6×10^{-12}	Very slow recovery
	76-IV	D-16	Upper Rochester	6.8×10^{-11}	Very slow recovery
BH77	77-I	D-17	Irondequoit	8.1×10^{-12}	Very slow recovery
	77-II	D-18	Lower Rochester	1.3×10^{-8}	
	77-III	D-19	Middle Rochester	5.3×10^{-12}	Very slow recovery
	77-IV	D-20	Upper Rochester	2.3×10^{-7}	
	77-V	D-21	Lockport Fm. Gasport Mb.	8.9×10^{-5}	Very fast recovery
BH78	78-I	D-22	Irondequoit	1.9×10^{-7}	
	78-II	D-23	Middle Rochester	5.6×10^{-8}	
	78-III	D-24	Upper Rochester	6.7×10^{-11}	Very slow recovery
	78-IV	D-25	Lockport Fm. Gasport Mb.	4.3×10^{-10}	Very slow recovery
	78-V	D-26	Lockport Fm. Gasport Mb.	1.1×10^{-6}	
BH79	79-I	D-27	Middle Rochester	1.2×10^{-9}	Slow recovery
	79-II	D-28	Upper Rochester	6.5×10^{-10}	Very slow recovery
	79-III	D-29	Lockport Fm. Gasport Mb.	1.2×10^{-7}	
	79-IV	D-30	Lockport Fm. Goat Is. Mb.	1.8×10^{-5}	Very fast recovery
BH80	80-I	D-31	Middle Rochester	3.4×10^{-6}	Fast recovery
	80-II	D-32	Upper Rochester	9.5×10^{-10}	Very slow recovery
	80-III	D-33	Lockport Fm. Gasport Mb.	6.0×10^{-6}	Fast recovery
BH81	81-I	D-34	Middle Rochester	7.4×10^{-8}	
	81-II	D-35	Upper Rochester	1.2×10^{-5}	Very fast recovery
	81-III	D-36	Lockport Fm. Gasport Mb.	1.3×10^{-4}	Very fast recovery

Table D.3.2 Summary of Slug Test Hydraulic Conductivity in Stratigraphic Units

Stratigraphic Unit	No. of Wells	Hydraulic Conductivity (m/s)			Published Range * (m/s)
		Minimum	Maximum	Geometric Mean	
Lockport Fm. – Goat Island Mb.	2	1.8×10^{-5}	2.5×10^{-5}	2×10^{-5}	$1 \times 10^{-9} - 6 \times 10^{-6}$ ⁽¹⁾
Lockport Fm. – Gasport Mb.	7	4.3×10^{-10}	1.3×10^{-4}	2×10^{-6}	
Rochester Fm. – Upper	7	6.7×10^{-11}	1.2×10^{-5}	1×10^{-8}	$1 \times 10^{-13} - 2 \times 10^{-9}$ ⁽²⁾
Rochester Fm. – Middle	7	3.6×10^{-12}	3.4×10^{-6}	4×10^{-9}	
Rochester Fm. – Lower	2	1.3×10^{-8}	1.4×10^{-7}	4×10^{-8}	
Irondequoit Fm.	4	8.1×10^{-12}	9.4×10^{-7}	2×10^{-8}	$1 \times 10^{-9} - 6 \times 10^{-6}$ ⁽¹⁾

Notes: * From (Domenico & Schwartz, 1990).

⁽¹⁾ Sound limestone and dolomite⁽²⁾ Shale**Table D.3.3 Summary of Historical Slug Test Results**

Borehole ID	Well	Stratigraphy	Hydraulic Conductivity (m/s)	Notes
BH16	16-3	Lockport Fm. – Lower	3.9×10^{-9}	
BH17	17-1	Rochester Fm. – Middle	7.0×10^{-8}	
BH18	18-3	Lockport Fm. – Lower	1.7×10^{-6}	
	18-1	Rochester Fm. – Middle	2.3×10^{-7}	
BH19	19-2	Lockport Fm. – Lower	3.0×10^{-8}	
BH23	23-1R	Rochester Fm. – Middle	9.4×10^{-8}	
BH45	45-2	Rochester Fm. – Middle	5.9×10^{-7}	February 2005
			1.9×10^{-6}	February 2005
BH46	46-3	Lockport Fm. – Upper	4.8×10^{-6}	February 2005
			3.5×10^{-6}	February 2005
			1.9×10^{-5}	March 1987
	46-2	Lockport Fm. – Lower	5.6×10^{-7}	
	46-1R	Rochester Fm. – Middle	1.8×10^{-9}	
BH47	47-3	Lockport Fm. – Upper	2.1×10^{-5}	February 2005
			2.5×10^{-5}	February 2005
	47-2*	Lockport Fm. – Lower	6.7×10^{-7}	February 2005
			1.3×10^{-7}	February 2005
			4.4×10^{-8}	March 1987
	47-1	Rochester Fm. – Middle	4.9×10^{-7}	February 2005
			2.4×10^{-7}	March 1987
BH48	48-2	Lockport Fm. – Upper	4.2×10^{-4}	February 2005
			2.1×10^{-6}	March 1987
	48-1	Rochester Fm. – Middle	2.4×10^{-8}	February 2005
			1.6×10^{-8}	February 2005
			1.3×10^{-9}	March 1987

Borehole ID	Well	Stratigraphy	Hydraulic Conductivity (m/s)	Notes
BH49	49-2	Lockport Fm. – Upper	8.6×10^{-4}	
	49-1	Rochester Fm. – Middle	4.8×10^{-8}	February 2005
			5.2×10^{-8}	February 2005
BH50	50-3	Lockport Fm. – Upper	7.0×10^{-7}	
	50-2	DeCew Fm.	3.2×10^{-8}	
	50-1	Rochester Fm. – Middle	9.0×10^{-11}	
BH51	51-3	Lockport Fm. – Upper	3.0×10^{-5}	February 2005
			4.0×10^{-5}	February 2005
			2.0×10^{-5}	March 1987
	51-2	Lockport Fm. – Lower	3.7×10^{-10}	
	51-1	Rochester Fm. – Middle	6.5×10^{-9}	February 2005
			6.3×10^{-9}	February 2005
			1.5×10^{-11}	March 1987
BH53	53-2	Lockport Fm. – Upper	3.1×10^{-5}	February 2005
			4.0×10^{-5}	March 1987
	53-1	DeCew Fm.	1.1×10^{-6}	February 2005
			1.1×10^{-6}	February 2005
			6.6×10^{-5}	March 1987
	53-4	Rochester Fm. – Middle	3.5×10^{-7}	
BH54	54-3	Lockport Fm. – Upper	9.6×10^{-6}	February 2005
			9.1×10^{-6}	February 2005
	54-2	DeCew Fm.	2.3×10^{-6}	February 2005
			2.6×10^{-6}	February 2005
	54-1	Rochester Fm. – Middle	1.2×10^{-6}	February 2005
			1.4×10^{-7}	February 2005
BH61	61-1	Irondequoit Fm.	$\sim 3.0 \times 10^{-5}$	
BH62	62-3	DeCew Fm.	1.2×10^{-6}	
	62-1	Rochester Fm. – Middle	1.2×10^{-5}	
BH63	63-3	DeCew Fm.	1.5×10^{-6}	
BH64	64-4	Lockport Fm. – Lower	4.7×10^{-7}	
	64-2	Rochester Fm. – Middle	6.2×10^{-7}	
	64-1	Irondequoit Fm.	$\sim 3.0 \times 10^{-5}$	
BH65	65-3	Lockport Fm. – Lower	1.5×10^{-4}	
	65-2	Rochester Fm. – Upper	9.4×10^{-6}	
	65-1	Rochester Fm. – Middle	5.7×10^{-6}	
BH66	66-2	Rochester Fm. – Upper	6.5×10^{-7}	
BH69	69-3	Lockport Fm. – Lower	3.3×10^{-8}	
	69-1	Rochester Fm. – Middle	4.7×10^{-7}	

Borehole ID	Well	Stratigraphy	Hydraulic Conductivity (m/s)	Notes
BH70	70-2	Rochester Fm. – Upper	1.9×10^{-6}	
	70-1	Rochester Fm. – Middle	3.3×10^{-6}	
MM1	MM1-2	Rochester Fm. – Upper	1.4×10^{-4}	
	MM1-1	Rochester Fm. – Middle	1.1×10^{-4}	
MM2	MM2-2	Rochester Fm. – Upper	1.8×10^{-4}	
	MM2-1	Rochester Fm. – Middle	2.5×10^{-4}	
MM3	MM3-2	Rochester Fm. – Upper	2.0×10^{-4}	
	MM3-1	Rochester Fm. – Middle	9.4×10^{-4}	
MM4	MM4-2	Rochester Fm. – Upper	9.6×10^{-5}	
	MM4-1	Rochester Fm. – Middle	2.1×10^{-4}	

Notes: * Screened in the gradational transition zone across the lower Lockport and upper DeCew Formations.

REFERENCES

- Butler Jr., J. (2020). *The Design, Performance, and Analysis of Slug Tests, 2nd Ed.* Boca Raton, FL: CRC Press, Taylor & Francis Group.
- Domenico, P. A., & Schwartz, F. W. (1990). *Physical and Chemical Hydrogeology*. New York: John Wiley & Sons.
- Gartner Lee Limited. (2006). *Walker Environmental Assessment, Groundwater / Surface Water Impact Assessment*.
- Houlsby, A. C. (November 1976). Routine Interpretation of the Lugeon Water Test. *The Quarterly Journal of Engineering Geology*, 303-313.

APPENDIX D-1

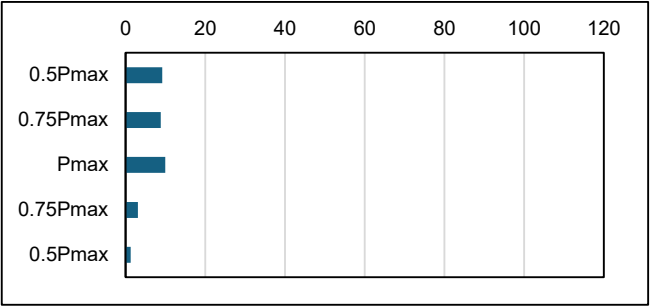
Packer Test Data

Figure D-1
BOREHOLE ID

BH75

INTERVAL
32.9 - 29.9 mbgs
ROCHESTER SHALE

0.5P _{max}	9.2
0.75P _{max}	8.8
P _{max}	10.0
0.75P _{max}	3.1
0.5P _{max}	1.3



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

tight, low conductivity

tight, low conductivity

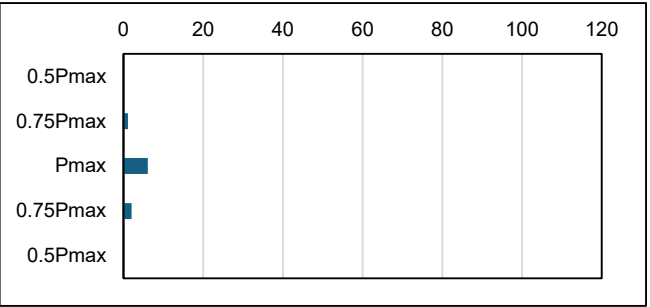
Lugeon Pattern

void filling, therefore use final Lugeon value of 1.3

K = 1.7E-07 m/s

INTERVAL
29.9 - 26.9 mbgs
ROCHESTER SHALE

0.5P _{max}	0.0
0.75P _{max}	1.2
P _{max}	6.1
0.75P _{max}	2.1
0.5P _{max}	0.0



Interpreted Rock Condition

very tight, very low conductivity

tight, low conductivity

few partly open voids/fractures, moderate conductivity

tight, low conductivity

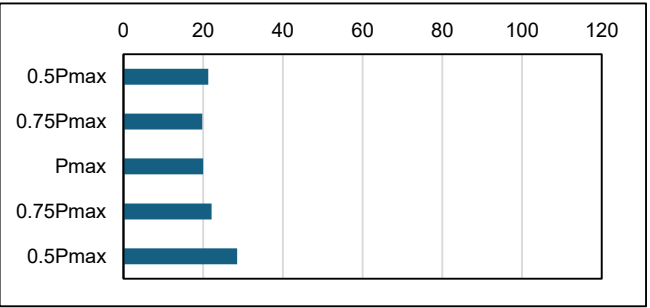
very tight, very low conductivity

Lugeon Pattern

dilation, therefore use Lugeon value for lowest pressure of 0.0

INTERVAL
26.8 - 23.8 mbgs
ROCHESTER SHALE

0.5P _{max}	21.3
0.75P _{max}	19.8
P _{max}	20.0
0.75P _{max}	22.1
0.5P _{max}	28.5



Interpreted Rock Condition

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

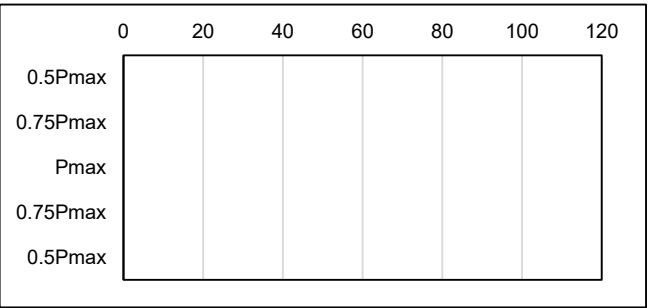
Lugeon Pattern

washout, therefore use highest Lugeon value of 28.5

K = 3.7E-06 m/s

INTERVAL
23.8 - 20.8 mbgs
DECEW / GASPORT

0.5P _{max}	0.0
0.75P _{max}	0.1
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern

Figure D-1

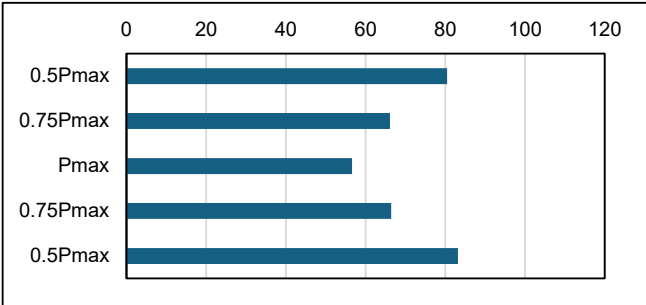
BOREHOLE ID		BH75			
INTERVAL	20.8 - 17.8 mbgs				
	GASPORT				
0.5P _{max}		80.4			
0.75P _{max}		66.1			
P _{max}		56.6			
0.75P _{max}		66.4			
0.5P _{max}		83.2			
Interpreted Rock Condition					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
Lugeon Pattern					
turbulent flow, therefore use highest pressure Lugeon value of 56.6					
K = 7.4E-06 m/s					
Interpreted Rock Condition					
very tight, very low conductivity					
tight, low conductivity					
tight, low conductivity					
tight, low conductivity					
tight, low conductivity					
Lugeon Pattern					
washout, therefore use highest Lugeon value of 2.6					
K = 3.4E-07 m/s					
Interpreted Rock Condition					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
many open voids/fractures, high conductivity					
open, closely spaced voids/fractures, very high conductivity					
Lugeon Pattern					
turbulent flow, therefore use highest pressure Lugeon value of 76.7					
K = 1.0E-05 m/s					
Interpreted Rock Condition					
open, closely spaced voids/fractures, very high conductivity					
open, closely spaced voids/fractures, very high conductivity					
open, closely spaced voids/fractures, very high conductivity					
open, closely spaced voids/fractures, very high conductivity					
open, closely spaced voids/fractures, very high conductivity					
Lugeon Pattern					
turbulent flow, therefore use highest pressure Lugeon value of 154.7					
K = 2.0E-05 m/s					

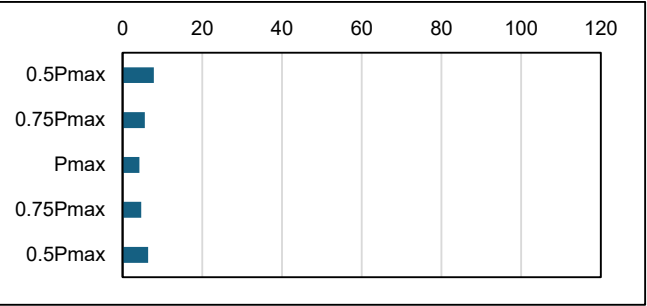
Figure D-2

BOREHOLE ID

BH76

INTERVAL
28.9 - 25.9 mbgs
IRONDEQUOIT / ROCHESTER

0.5P _{max}	7.9
0.75P _{max}	5.6
P _{max}	4.2
0.75P _{max}	4.7
0.5P _{max}	6.4



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

tight, low conductivity

tight, low conductivity

few partly open voids/fractures, moderate conductivity

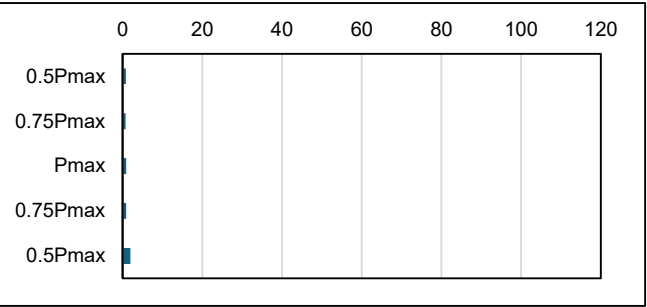
Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 4.2

K = 5.5E-07 m/s

INTERVAL
25.9 - 22.9 mbgs
ROCHESTER

0.5P _{max}	0.8
0.75P _{max}	0.8
P _{max}	0.9
0.75P _{max}	0.9
0.5P _{max}	1.9



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

tight, low conductivity

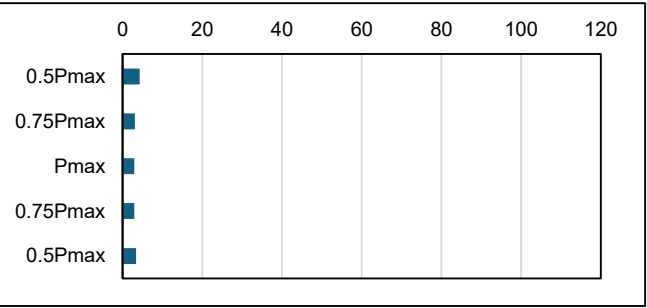
Lugeon Pattern

washout, therefore use highest Lugeon value of 1.9

K = 2.5E-07 m/s

INTERVAL
22.9 - 19.9 mbgs
ROCHESTER

0.5P _{max}	4.3
0.75P _{max}	3.1
P _{max}	2.9
0.75P _{max}	2.9
0.5P _{max}	3.4



Interpreted Rock Condition

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

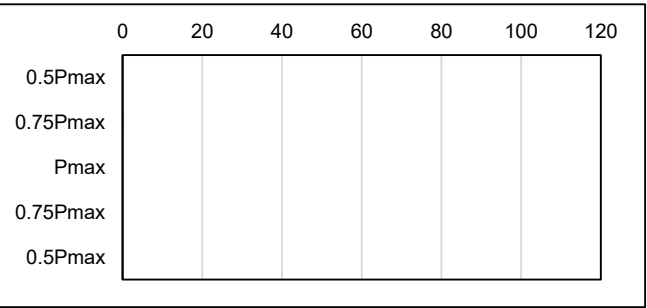
Lugeon Pattern

laminar flow, therefore use average Lugeon value of 3.3

K = 4.3E-07 m/s

INTERVAL
19.9 - 16.9 mbgs
ROCHESTER

0.5P _{max}	0.0
0.75P _{max}	0.2
P _{max}	0.1
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

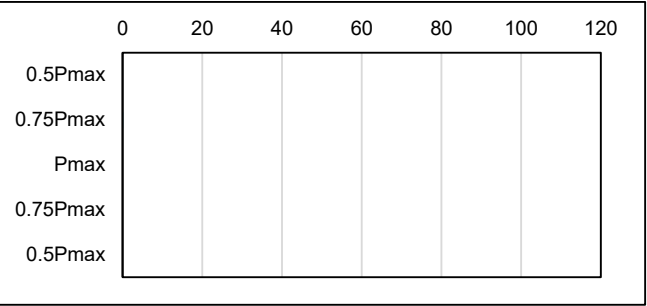
Lugeon Pattern

Figure D-2

BOREHOLE ID

BH76

INTERVAL	16.9 - 13.9 mbgs
	ROCHESTER
0.5P _{max}	0.0
0.75P _{max}	0.1
P _{max}	0.1
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

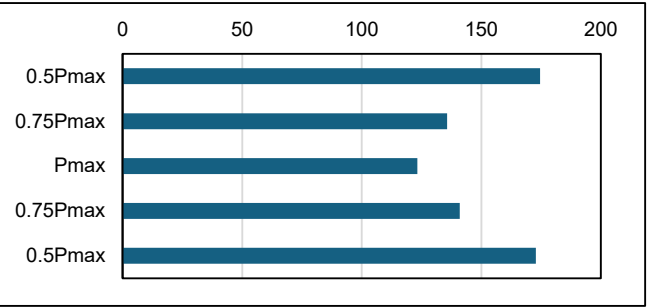
very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern



INTERVAL	13.9 - 11.9 mbgs
	ROCHESTER
0.5P _{max}	174.5
0.75P _{max}	135.7
P _{max}	123.3
0.75P _{max}	141.0
0.5P _{max}	172.8



Interpreted Rock Condition

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

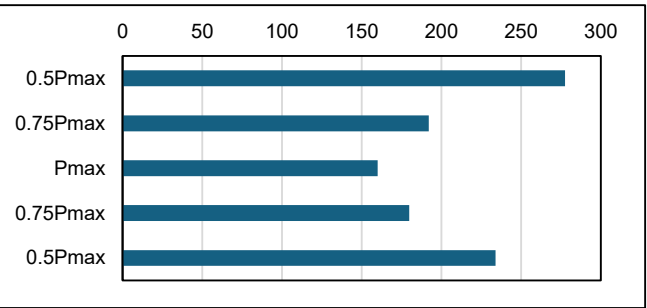
open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 123.3

K = 1.6E-05 m/s

INTERVAL	10.9 - 7.9 mbgs
	DECEW
0.5P _{max}	277.5
0.75P _{max}	192.1
P _{max}	160.0
0.75P _{max}	179.8
0.5P _{max}	234.0



Interpreted Rock Condition

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

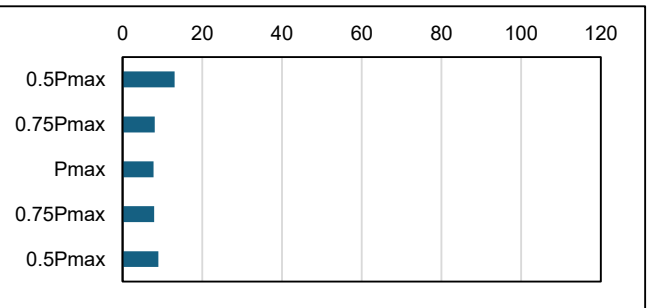
open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 160.0

K = 2.1E-05 m/s

INTERVAL	7.9 - 4.9 mbgs
	GASPORT
0.5P _{max}	13.1
0.75P _{max}	8.1
P _{max}	7.7
0.75P _{max}	7.9
0.5P _{max}	8.9



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

Lugeon Pattern

laminar flow, therefore use average Lugeon value of 9.1

K = 1.2E-06 m/s

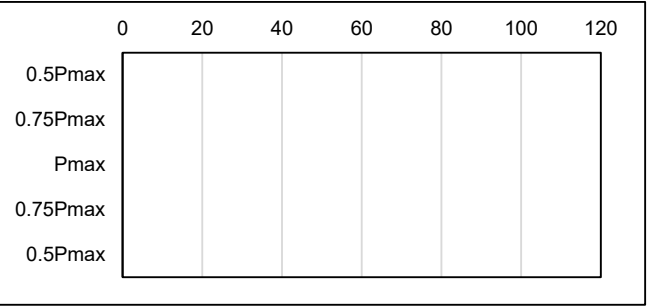
Figure D-3

BOREHOLE ID

BH77

INTERVAL
34.3 - 31.3 mbgs
IRONDEQUOIT / ROCHESTER

0.5P_{max} 0.0
0.75P_{max} 0.0
P_{max} 0.0
0.75P_{max}
0.5P_{max}



Interpreted Rock Condition

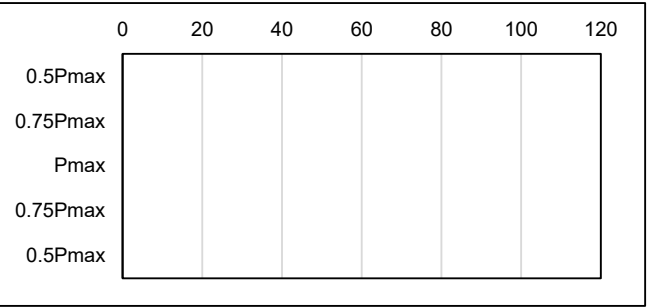
very tight, very low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern



INTERVAL
31.3 - 28.3 mbgs
ROCHESTER

0.5P_{max} 0.0
0.75P_{max} 0.0
P_{max} 0.0
0.75P_{max}
0.5P_{max}



Interpreted Rock Condition

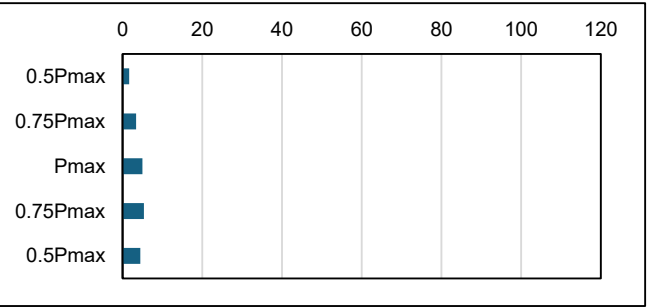
very tight, very low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern



INTERVAL
28.3 - 25.3 mbgs
ROCHESTER

0.5P_{max} 1.7
0.75P_{max} 3.4
P_{max} 5.0
0.75P_{max} 5.4
0.5P_{max} 4.4



Interpreted Rock Condition

tight, low conductivity
tight, low conductivity
tight, low conductivity
few partly open voids/fractures, moderate conductivity
tight, low conductivity

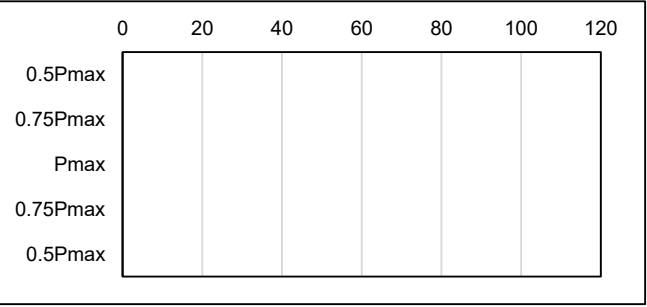
Lugeon Pattern

washout, therefore use highest Lugeon value of 5.4

K = 7.0E-07 m/s

INTERVAL
25.3 - 22.3 mbgs
ROCHESTER

0.5P_{max} 0.0
0.75P_{max} 0.0
P_{max} 0.0
0.75P_{max}
0.5P_{max}



Interpreted Rock Condition

very tight, very low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern

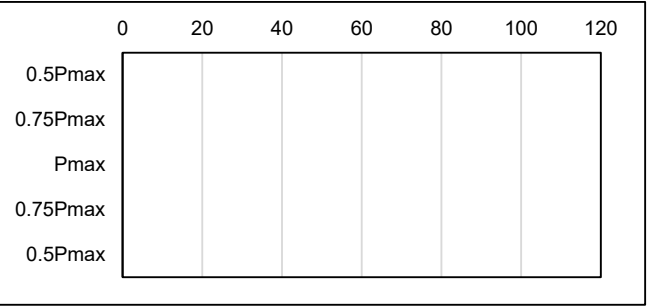


Figure D-3

BOREHOLE ID

BH77

INTERVAL	22.3 - 19.3 mbgs	
	ROCHESTER	
0.5P _{max}		0.0
0.75P _{max}		0.0
P _{max}		0.0
0.75P _{max}		
0.5P _{max}		



Interpreted Rock Condition

very tight, very low conductivity

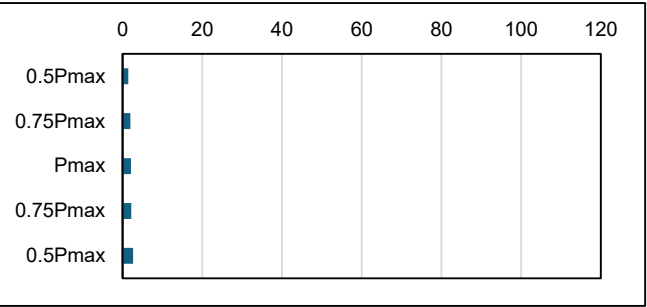
very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern



INTERVAL	19.3 - 16.3 mbgs	
	ROCHESTER	
0.5P _{max}		1.5
0.75P _{max}		1.9
P _{max}		2.1
0.75P _{max}		2.1
0.5P _{max}		2.7



Interpreted Rock Condition

tight, low conductivity

tight, low conductivity

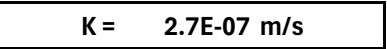
tight, low conductivity

tight, low conductivity

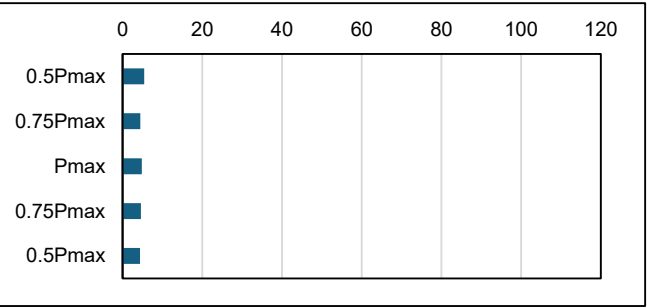
tight, low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 2.1



INTERVAL	16.3 - 13.3 mbgs	
	ROCHESTER / DECEW	
0.5P _{max}		5.4
0.75P _{max}		4.5
P _{max}		4.8
0.75P _{max}		4.6
0.5P _{max}		4.4



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

tight, low conductivity

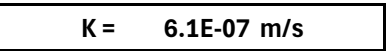
tight, low conductivity

tight, low conductivity

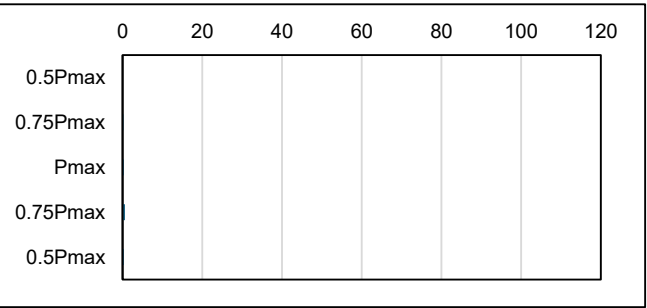
tight, low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 4.7



INTERVAL	13.3 - 10.3 mbgs	
	GASPORT	
0.5P _{max}		0.0
0.75P _{max}		0.2
P _{max}		0.3
0.75P _{max}		0.6
0.5P _{max}		0.3



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 0.3

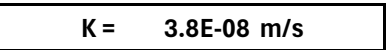


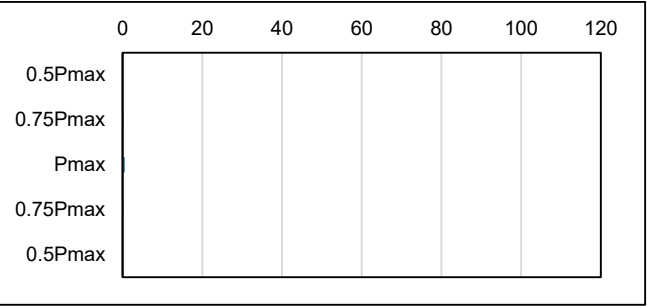
Figure D-4

BOREHOLE ID

BH78

INTERVAL
37.6 - 34.6 mbgs
ROCHESTER

0.5P _{max}	0.0
0.75P _{max}	0.2
P _{max}	0.5
0.75P _{max}	0.2
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

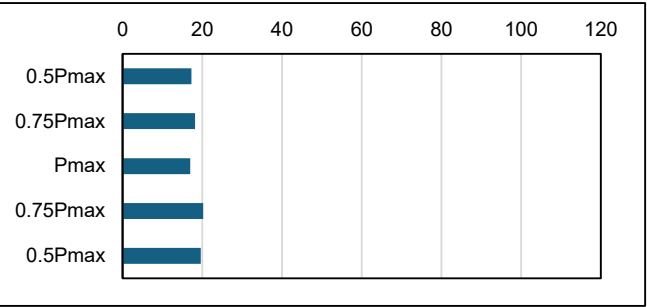
very tight, very low conductivity

Lugeon Pattern



INTERVAL
34.6 - 31.6 mbgs
ROCHESTER

0.5P _{max}	17.2
0.75P _{max}	18.2
P _{max}	17.0
0.75P _{max}	20.3
0.5P _{max}	19.6



Interpreted Rock Condition

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

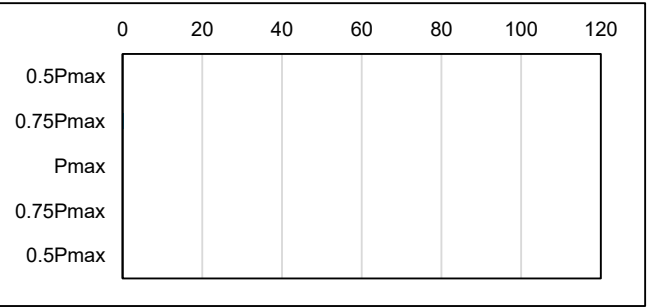
Lugeon Pattern

all values nearly even, therefore use average of 18.4

K = 2.4E-06 m/s

INTERVAL
31.6 - 28.6 mbgs
ROCHESTER

0.5P _{max}	0.0
0.75P _{max}	0.3
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

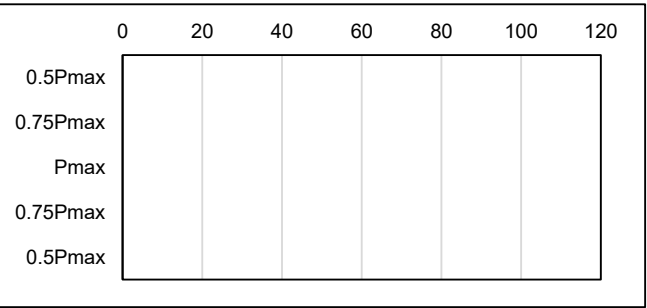
very tight, very low conductivity

Lugeon Pattern



INTERVAL
28.6 - 25.6 mbgs
ROCHESTER

0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern

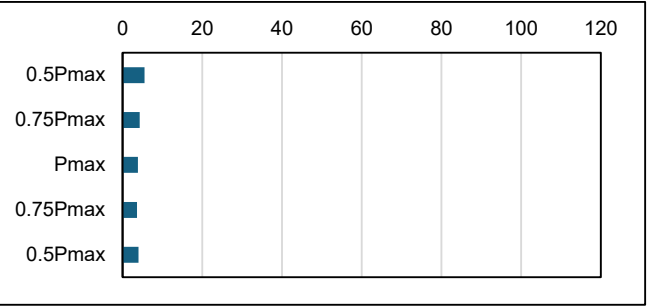


Figure D-4

BOREHOLE ID

BH78

INTERVAL	25.6 - 22.6 mbgs
	ROCHESTER
0.5P _{max}	5.5
0.75P _{max}	4.3
P _{max}	3.9
0.75P _{max}	3.7
0.5P _{max}	4.0



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

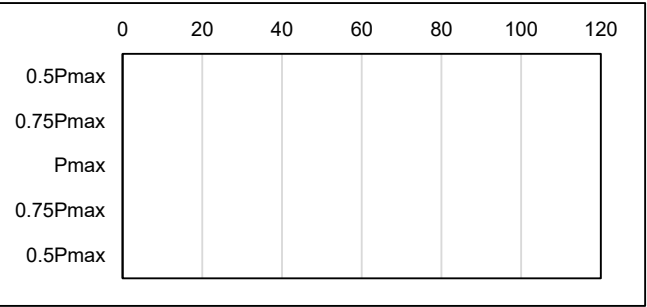
tight, low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 4.3

K = 5.5E-07 m/s

INTERVAL	22.6 - 19.6 mbgs
	ROCHESTER / DECEW
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

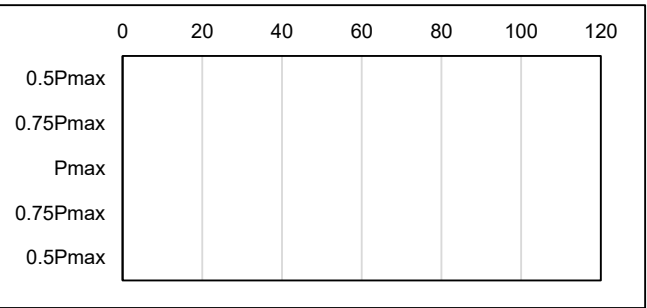
very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern

INTERVAL	19.6 - 16.6 mbgs
	DECEW / GASPORT
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

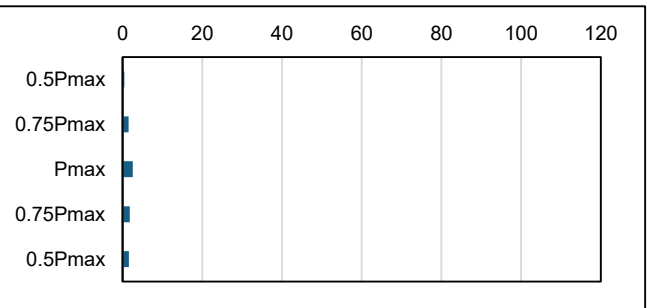
very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern

INTERVAL	16.6 - 13.6 mbgs
	GASPORT
0.5P _{max}	0.5
0.75P _{max}	1.5
P _{max}	2.6
0.75P _{max}	1.8
0.5P _{max}	1.6



Interpreted Rock Condition

very tight, very low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 1.6

K = 2.1E-07 m/s

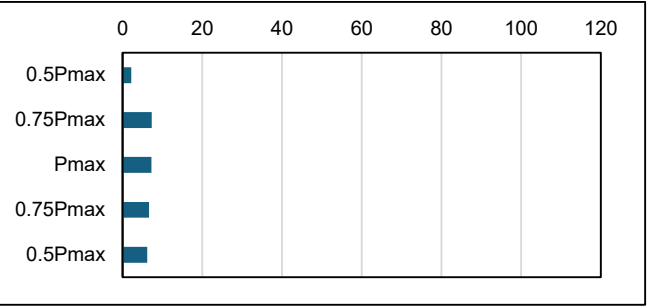
Figure D-4

BOREHOLE ID

BH78

INTERVAL
13.6 - 10.6 mbgs
GASPORT

0.5P _{max}	2.2
0.75P _{max}	7.3
P _{max}	7.3
0.75P _{max}	6.7
0.5P _{max}	6.2



Interpreted Rock Condition

tight, low conductivity
few partly open voids/fractures, moderate conductivity
few partly open voids/fractures, moderate conductivity
few partly open voids/fractures, moderate conductivity
few partly open voids/fractures, moderate conductivity

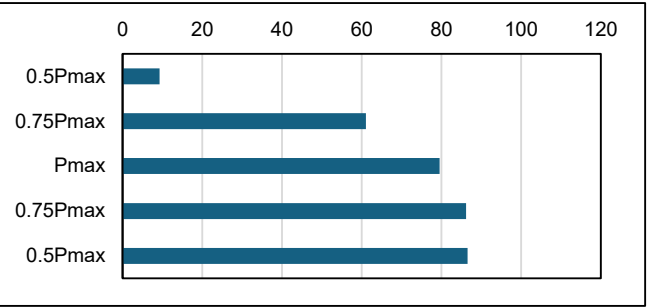
Lugeon Pattern

all values nearly even, therefore use average of 5.9

K = 7.7E-07 m/s

INTERVAL
11.6 - 8.6 mbgs
GASPORT

0.5P _{max}	9.3
0.75P _{max}	61.1
P _{max}	79.5
0.75P _{max}	86.2
0.5P _{max}	86.5



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity
many open voids/fractures, high conductivity
many open voids/fractures, high conductivity
many open voids/fractures, high conductivity
many open voids/fractures, high conductivity

Lugeon Pattern

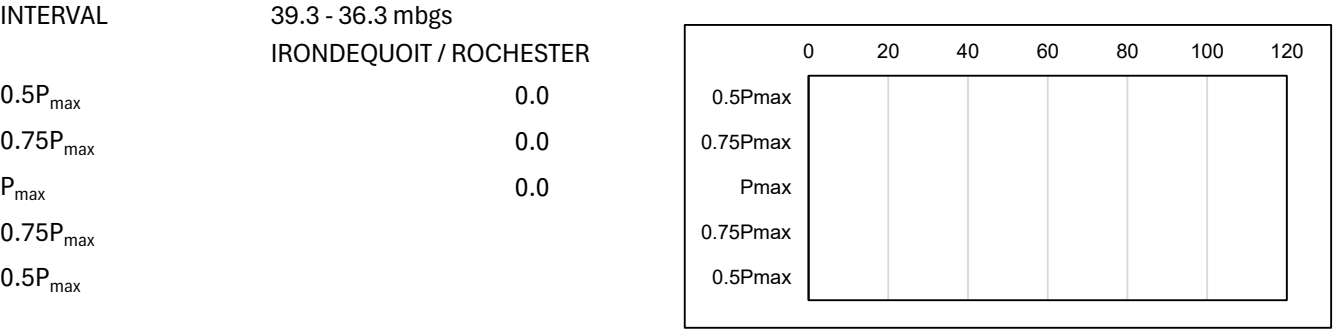
washout, therefore use highest Lugeon value of 86.5

K = 1.1E-05 m/s

Figure D-5

BOREHOLE ID

BH79



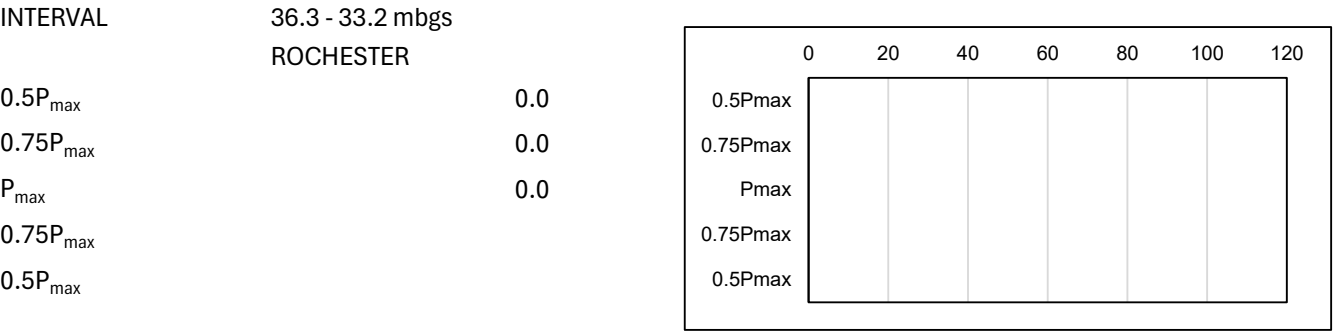
Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern



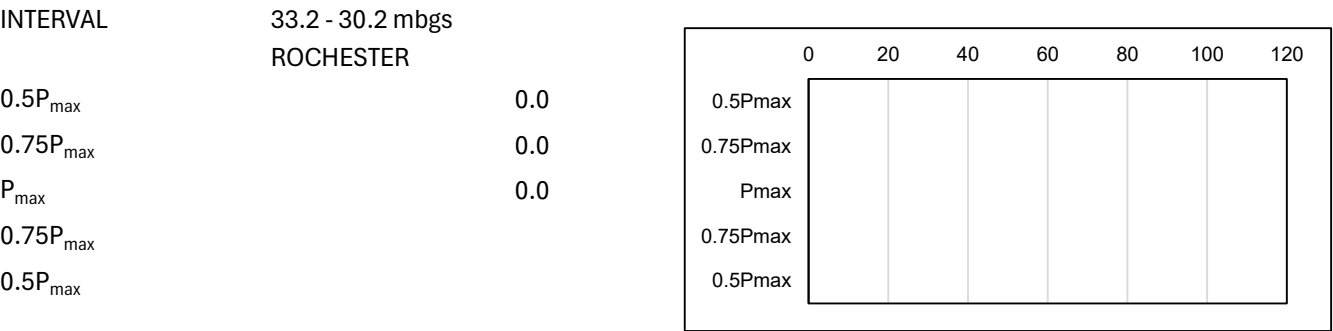
Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern



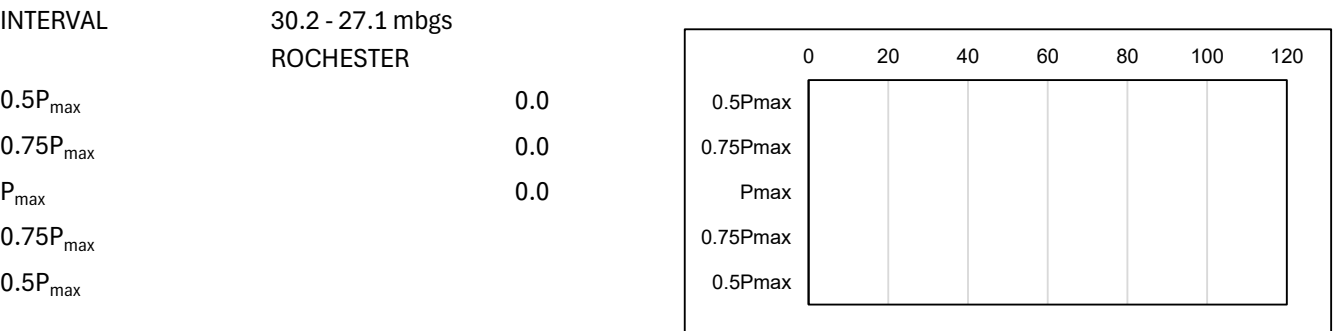
Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

Lugeon Pattern



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

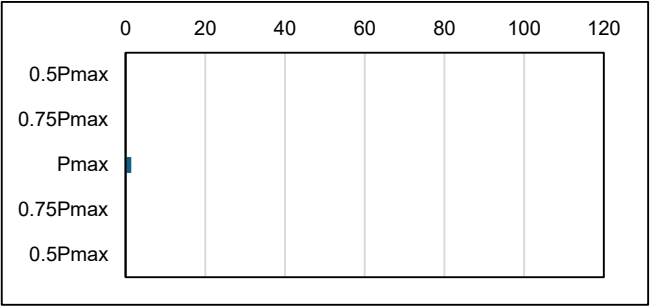
Lugeon Pattern



Figure D-5
BOREHOLE ID

BH79

INTERVAL	27.1 - 24.1 mbgs
	ROCHESTER
0.5P _{max}	0.0
0.75P _{max}	0.2
P _{max}	1.4
0.75P _{max}	0.0
0.5P _{max}	0.0



Interpreted Rock Condition

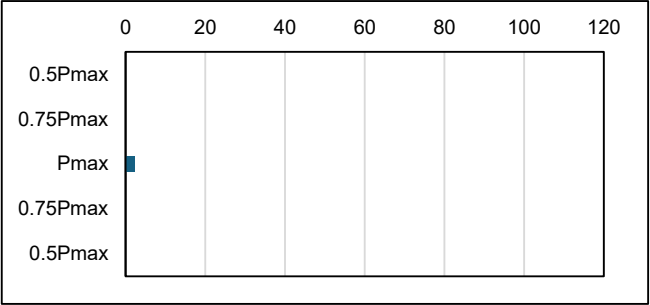
very tight, very low conductivity
very tight, very low conductivity
tight, low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 0.3

K = 4.1E-08 m/s

INTERVAL	24.1 - 21 mbgs
	ROCHESTER / DECEW
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	2.4
0.75P _{max}	0.0
0.5P _{max}	0.0



Interpreted Rock Condition

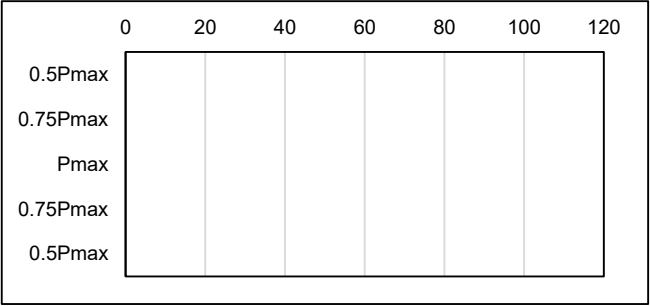
very tight, very low conductivity
very tight, very low conductivity
tight, low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern

all values nearly even, therefore use average of 0.5

K = 6.2E-08 m/s

INTERVAL	21 - 18 mbgs
	DECEW / GASPORT
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	

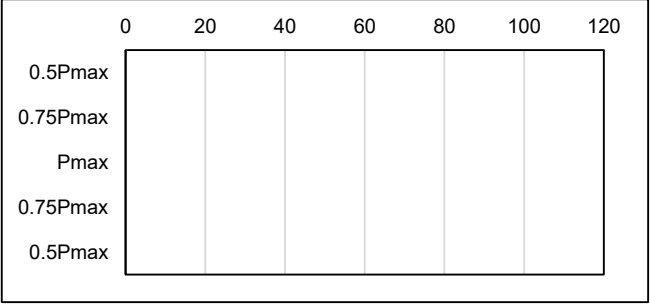


Interpreted Rock Condition

very tight, very low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern

INTERVAL	18 - 14.9 mbgs
	GASPORT
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.0
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

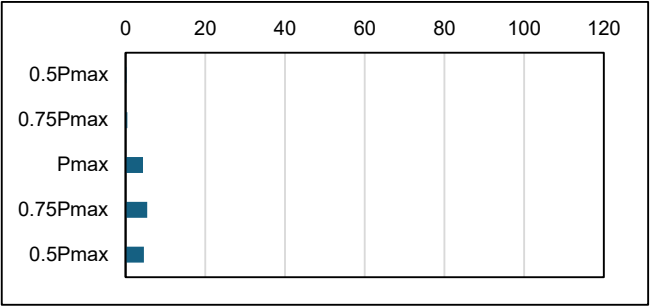
very tight, very low conductivity
very tight, very low conductivity
very tight, very low conductivity

Lugeon Pattern

Figure D-5

BOREHOLE ID BH79

INTERVAL	14.9 - 11.9 mbgs
	GASPORT
0.5P _{max}	0.2
0.75P _{max}	0.4
P _{max}	4.4
0.75P _{max}	5.4
0.5P _{max}	4.6



Interpreted Rock Condition

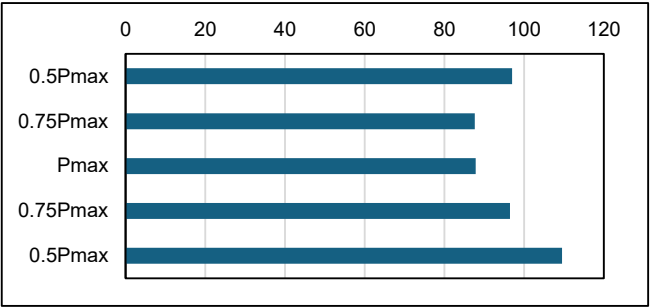
very tight, very low conductivity
very tight, very low conductivity
tight, low conductivity
few partly open voids/fractures, moderate conductivity
tight, low conductivity

Lugeon Pattern

washout, therefore use highest Lugeon value of 5.4

K = 6.0E-07 m/s

INTERVAL	11.9 - 8.8 mbgs
	GASPORT / GOAT ISLAND
0.5P _{max}	97.0
0.75P _{max}	87.6
P _{max}	87.8
0.75P _{max}	96.5
0.5P _{max}	109.5



Interpreted Rock Condition

many open voids/fractures, high conductivity
many open voids/fractures, high conductivity
many open voids/fractures, high conductivity
many open voids/fractures, high conductivity
open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

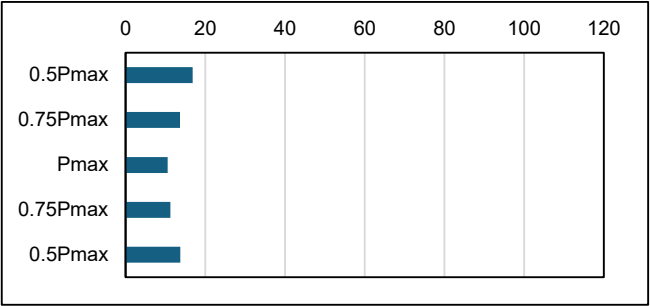
turbulent flow, therefore use highest pressure Lugeon value of 87.8

K = 1.1E-05 m/s

Figure D-6
BOREHOLE ID

BH80

INTERVAL	32.7 - 29.6 mbgs
	ROCHESTER
0.5P _{max}	16.8
0.75P _{max}	13.6
P _{max}	10.5
0.75P _{max}	11.3
0.5P _{max}	13.7



Interpreted Rock Condition

some open voids/fractures, medium conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

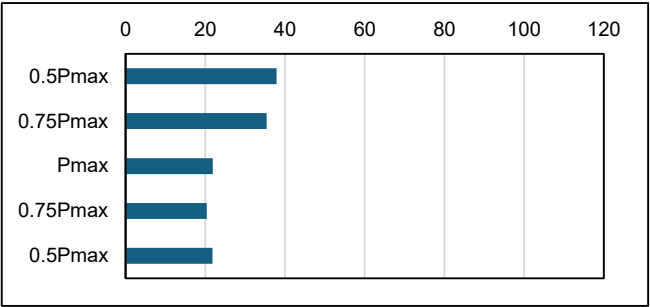
few partly open voids/fractures, moderate conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 10.5

K = 1.4E-06 m/s

INTERVAL	29.6 - 26.6 mbgs
	ROCHESTER
0.5P _{max}	37.8
0.75P _{max}	35.4
P _{max}	21.9
0.75P _{max}	20.4
0.5P _{max}	21.8



Interpreted Rock Condition

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

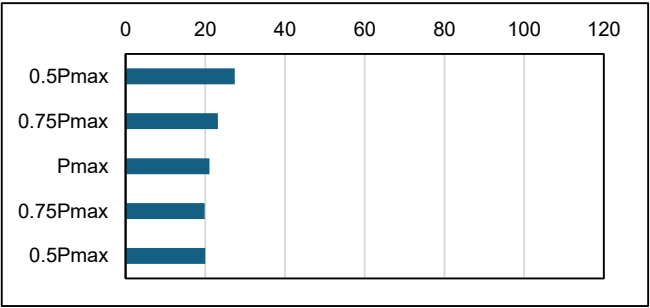
some open voids/fractures, medium conductivity

Lugeon Pattern

void filling, use final lugeon value of 21.8

K = 2.8E-06 m/s

INTERVAL	26.6 - 23.5 mbgs
	ROCHESTER
0.5P _{max}	27.4
0.75P _{max}	23.1
P _{max}	21.1
0.75P _{max}	19.9
0.5P _{max}	20.0



Interpreted Rock Condition

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

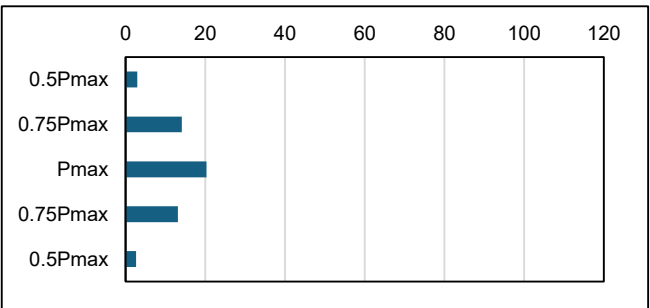
some open voids/fractures, medium conductivity

Lugeon Pattern

void filling, use final lugeon value of 20.0

K = 2.6E-06 m/s

INTERVAL	23.5 - 20.5 mbgs
	ROCHESTER
0.5P _{max}	2.9
0.75P _{max}	14.1
P _{max}	20.3
0.75P _{max}	13.1
0.5P _{max}	2.6



Interpreted Rock Condition

tight, low conductivity

few partly open voids/fractures, moderate conductivity

some open voids/fractures, medium conductivity

few partly open voids/fractures, moderate conductivity

tight, low conductivity

Lugeon Pattern

dilation, use average lugeon value for lowest pressure of 2.8

K = 3.6E-07 m/s

Figure D-6

BOREHOLE ID

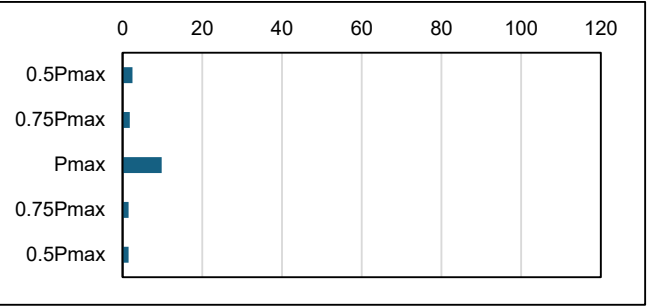
BH80

INTERVAL

20.5 - 17.4 mbgs

ROCHESTER / DECEW

0.5P _{max}	2.5
0.75P _{max}	1.8
P _{max}	9.8
0.75P _{max}	1.5
0.5P _{max}	1.5



Interpreted Rock Condition

tight, low conductivity

tight, low conductivity

few partly open voids/fractures, moderate conductivity

tight, low conductivity

tight, low conductivity

Lugeon Pattern

dilation, use average lugeon value for lowest pressure of 2.0

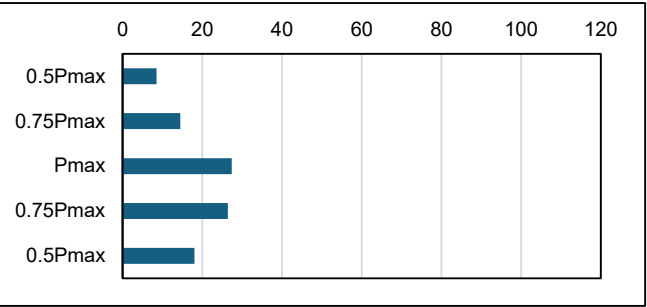
K = 2.6E-07 m/s

INTERVAL

17.4 - 14.4 mbgs

DECEW

0.5P _{max}	8.6
0.75P _{max}	14.5
P _{max}	27.4
0.75P _{max}	26.4
0.5P _{max}	18.1



Interpreted Rock Condition

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

some open voids/fractures, medium conductivity

Lugeon Pattern

dilation, use average lugeon value for lowest pressure of 13.3

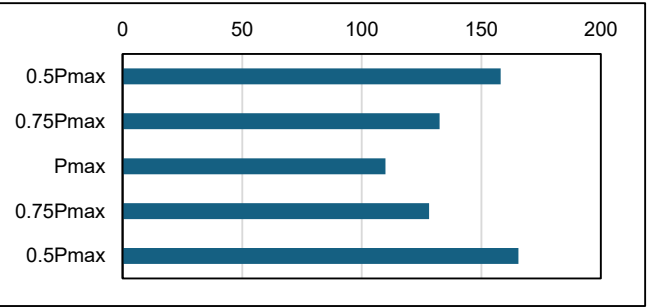
K = 1.7E-06 m/s

INTERVAL

14.4 - 11.4 mbgs

GASPORT

0.5P _{max}	158.2
0.75P _{max}	132.6
P _{max}	110.0
0.75P _{max}	128.2
0.5P _{max}	165.6



Interpreted Rock Condition

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

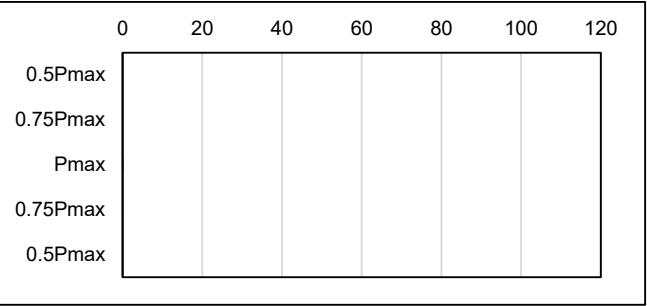
turbulent flow, therefore use highest pressure Lugeon value of 110.0

K = 1.4E-05 m/s

Figure D-7
BOREHOLE ID

BH81

INTERVAL	31.3 - 28.2 mbgs
	ROCHESTER
0.5P _{max}	0.0
0.75P _{max}	0.0
P _{max}	0.3
0.75P _{max}	0.2
0.5P _{max}	0.1



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

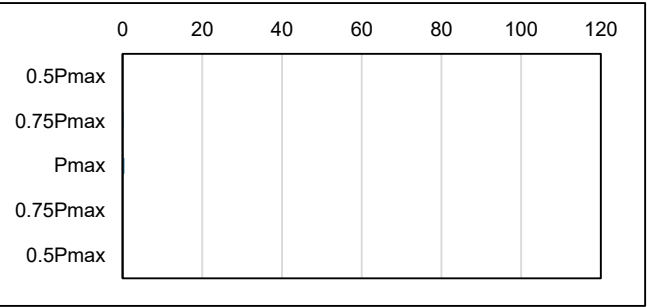
very tight, very low conductivity

Lugeon Pattern

dilation, however, use highest pressure Lugeon value of 0.3

K = 4.1E-08 m/s

INTERVAL	28.2 - 25.2 mbgs
	ROCHESTER
0.5P _{max}	0.0
0.75P _{max}	0.2
P _{max}	0.5
0.75P _{max}	
0.5P _{max}	



Interpreted Rock Condition

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

very tight, very low conductivity

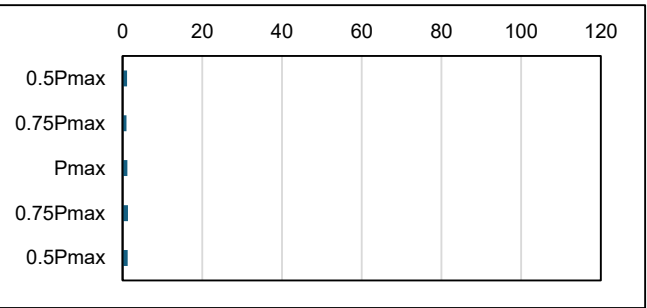
very tight, very low conductivity

Lugeon Pattern

dilation, however, use highest pressure Lugeon value of 0.5

K = 6.2E-08 m/s

INTERVAL	25.2 - 22.2 mbgs
	ROCHESTER
0.5P _{max}	1.1
0.75P _{max}	1.0
P _{max}	1.2
0.75P _{max}	1.3
0.5P _{max}	1.3



Interpreted Rock Condition

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

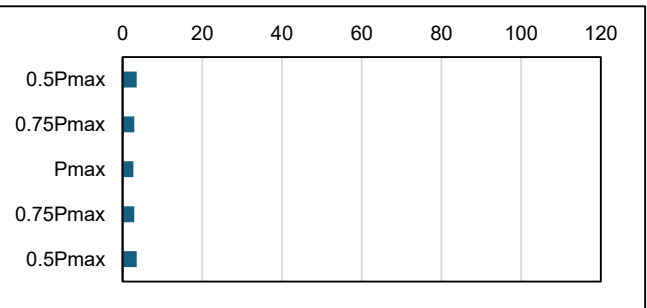
tight, low conductivity

Lugeon Pattern

Lugeon values nearly equal, use average Lugeon value of 1.2

K = 1.5E-07 m/s

INTERVAL	22.2 - 19.1 mbgs
	ROCHESTER
0.5P _{max}	3.6
0.75P _{max}	3.0
P _{max}	2.7
0.75P _{max}	2.9
0.5P _{max}	3.6



Interpreted Rock Condition

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

tight, low conductivity

Lugeon Pattern

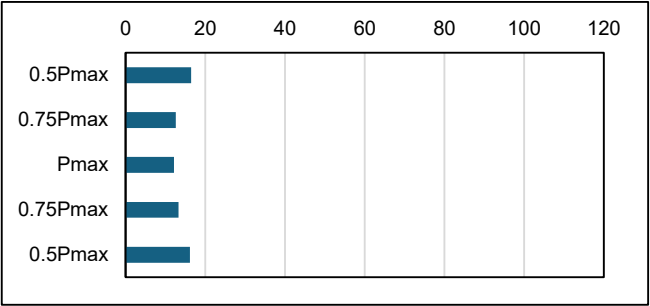
Lugeon values nearly equal, use average Lugeon value of 3.1

K = 4.1E-07 m/s

Figure D-7
BOREHOLE ID

BH81

INTERVAL	19.1 - 16.1 mbgs
	ROCHESTER
0.5P _{max}	16.5
0.75P _{max}	12.6
P _{max}	12.1
0.75P _{max}	13.3
0.5P _{max}	16.2



Interpreted Rock Condition

some open voids/fractures, medium conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

few partly open voids/fractures, moderate conductivity

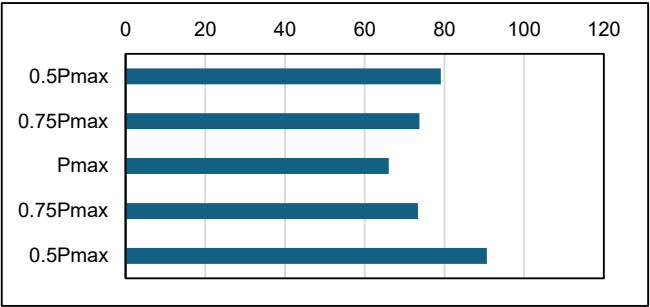
some open voids/fractures, medium conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 12.1

K = 1.6E-06 m/s

INTERVAL	16.1 - 13 mbgs
	ROCHESTER
0.5P _{max}	79.1
0.75P _{max}	73.7
P _{max}	66.0
0.75P _{max}	73.4
0.5P _{max}	90.7



Interpreted Rock Condition

many open voids/fractures, high conductivity

many open voids/fractures, high conductivity

many open voids/fractures, high conductivity

many open voids/fractures, high conductivity

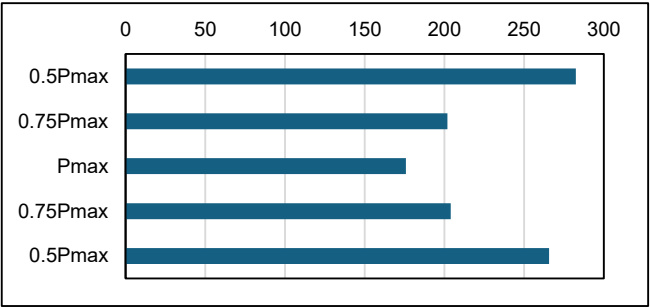
many open voids/fractures, high conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 66.0

K = 8.6E-06 m/s

INTERVAL	13 - 10 mbgs
	DECEW / GASPORT
0.5P _{max}	282.4
0.75P _{max}	202.0
P _{max}	175.8
0.75P _{max}	203.9
0.5P _{max}	265.7



Interpreted Rock Condition

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

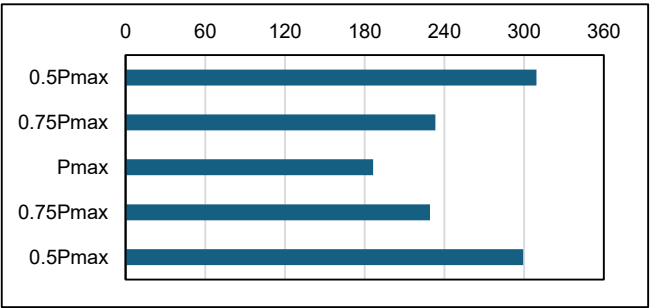
open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 175.8

K = 2.3E-05 m/s

INTERVAL	11 - 7.9 mbgs
	GASPORT
0.5P _{max}	309.3
0.75P _{max}	233.2
P _{max}	186.3
0.75P _{max}	229.0
0.5P _{max}	299.3



Interpreted Rock Condition

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

open, closely spaced voids/fractures, very high conductivity

Lugeon Pattern

turbulent flow, therefore use highest pressure Lugeon value of 186.3

K = 2.4E-05 m/s

FIGURE D-1-1

BOREHOLE ID	BH75	DATE	18-Dec-24	STAFF:	JD / SK
Stickup	1.42	mags			
EOH	46.42	mbtop	45.0	mbgs	-total volume used from tote ~ 200 L
Lower Packer Depth	34.30	mbtop	32.9	mbgs	
Upper Packer Depth	31.30	mbtop	29.9	mbgs	
Bedrock Stratigraphy	ROCHESTER SHALE				
Packer Interval (L)	3.00	m			
Static WL	9.01	mbtop	7.6	mbgs	
Totalizer (pre-test)	89.2950	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	35	0.2413	1	60	89.2980	0.0000500	3	4.1
1	35	0.2413	2	60	89.2995	0.0000250	1.5	2.1
1	35	0.2413	3	60	89.3015	0.0000333	2	2.8
1	35	0.2413	4	60	89.3045	0.0000500	3	4.1
1	35	0.2413	5	60	89.3090	0.0000750	4.5	6.2
1	35	0.2413	6	60	89.3140	0.0000833	5	6.9
1	35	0.2413	7	60	89.3220	0.0001333	8	11.1
1	30	0.2068	8	60	89.3310	0.0001500	9	14.5
1	35	0.2413	9	60	89.3490	0.0003000	18	24.9
1	35	0.2413	10	60	89.3600	0.0001833	11	15.2
2	45	0.3103	11	60	89.3715	0.0001917	11.5	12.4
2	45	0.3103	12	60	89.3830	0.0001917	11.5	12.4
2	45	0.3103	13	60	89.3890	0.0001000	6	6.4
2	45	0.3103	14	60	89.3940	0.0000833	5	5.4
2	45	0.3103	15	60	89.3975	0.0000583	3.5	3.8
2	45	0.3103	16	60	89.4030	0.0000917	5.5	5.9
2	45	0.3103	17	60	89.4095	0.0001083	6.5	7.0
2	45	0.3103	18	60	89.4220	0.0002083	12.5	13.4
2	45	0.3103	19	60	89.4290	0.0001167	7	7.5
2	45	0.3103	20	60	89.4420	0.0002167	13	14.0
3	60	0.4137	21	60	89.4570	0.0002500	15	12.1
3	60	0.4137	22	60	89.4680	0.0001833	11	8.9
3	60	0.4137	23	60	89.4805	0.0002083	12.5	10.1
3	60	0.4137	24	60	89.4920	0.0001917	11.5	9.3
3	60	0.4137	25	60	89.5030	0.0001833	11	8.9
3	60	0.4137	26	60	89.5190	0.0002667	16	12.9
3	60	0.4137	27	60	89.5320	0.0002167	13	10.5
3	60	0.4137	28	60	89.5440	0.0002000	12	9.7
3	60	0.4137	29	60	89.5550	0.0001833	11	8.9
3	60	0.4137	30	60	89.5660	0.0001833	11	8.9
4	45	0.3103	31	60	89.5715	0.0000917	5.5	5.9
4	45	0.3103	32	60	89.5770	0.0000917	5.5	5.9
4	45	0.3103	33	60	89.5850	0.0001333	8	8.6
4	45	0.3103	34	60	89.5880	0.0000500	3	3.2
4	45	0.3103	35	60	89.5890	0.0000167	1	1.1
4	45	0.3103	36	60	89.5900	0.0000167	1	1.1
4	45	0.3103	37	60	89.5910	0.0000167	1	1.1
4	45	0.3103	38	60	89.5925	0.0000250	1.5	1.6
4	45	0.3103	39	60	89.5935	0.0000167	1	1.1
4	45	0.3103	40	60	89.5950	0.0000250	1.5	1.6
5	30	0.2068	41	60	89.5955	0.0000083	0.5	0.8
5	30	0.2068	42	60	89.5960	0.0000083	0.5	0.8
5	30	0.2068	43	60	89.5970	0.0000167	1	1.6
5	30	0.2068	44	60	89.5978	0.0000133	0.8	1.3
5	30	0.2068	45	60	89.5985	0.0000117	0.7	1.1
5	30	0.2068	46	60	89.5995	0.0000167	1	1.6
5	30	0.2068	47	60	89.6000	0.0000083	0.5	0.8
5	30	0.2068	48	60	89.6010	0.0000167	1	1.6
5	30	0.2068	49	60	89.6020	0.0000167	1	1.6
5	30	0.2068	50	60	89.6030	0.0000167	1	1.6

FIGURE D-1-2

BOREHOLE ID	BH75	DATE	18-Dec-24	STAFF:	JD / SK
Stickup	1.42	mags			
EOH	46.42	mbtop	45.0 mbgs	-total volume used from tote not recorded	
Lower Packer Depth	31.30	mbtop	29.9 mbgs		
Upper Packer Depth	28.30	mbtop	26.9 mbgs		
Bedrock Stratigraphy	ROCHESTER SHALE				
Packer Interval (L)	3.00	m			
Static WL	9.27	mbtop	7.9 mbgs		
Totalizer (pre-test)	89.6060	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	(Lugeon)
1	50	0.3447	1	60	89.6060	0.0000000	0	0.0
1	50	0.3447	2	60	89.6060	0.0000000	0	0.0
1	50	0.3447	3	60	89.6060	0.0000000	0	0.0
1	50	0.3447	4	60	89.6060	0.0000000	0	0.0
1	50	0.3447	5	60	89.6060	0.0000000	0	0.0
2	75	0.5171	6	60	89.6100	0.0000667	4	2.6
2	75	0.5171	7	60	89.6110	0.0000167	1	0.6
2	75	0.5171	8	60	89.6130	0.0000333	2	1.3
2	75	0.5171	9	60	89.6140	0.0000167	1	0.6
2	75	0.5171	10	60	89.6150	0.0000167	1	0.6
3	100	0.6895	11	60	89.6260	0.0001833	11	5.3
3	100	0.6895	12	60	89.6370	0.0001833	11	5.3
3	100	0.6895	13	60	89.6510	0.0002333	14	6.8
3	100	0.6895	14	60	89.6645	0.0002250	13.5	6.5
3	100	0.6895	15	60	89.6780	0.0002250	13.5	6.5
4	75	0.5171	16	60	89.6800	0.0000333	2	1.3
4	75	0.5171	17	60	89.6830	0.0000500	3	1.9
4	75	0.5171	18	60	89.6870	0.0000667	4	2.6
4	75	0.5171	19	60	89.6900	0.0000500	3	1.9
4	75	0.5171	20	60	89.6940	0.0000667	4	2.6
5	50	0.3447	21	60	89.6940	0.0000000	0	0.0
5	50	0.3447	22	60	89.6940	0.0000000	0	0.0
5	50	0.3447	23	60	89.6940	0.0000000	0	0.0
5	50	0.3447	24	60	89.6940	0.0000000	0	0.0
5	50	0.3447	25	60	89.6940	0.0000000	0	0.0

FIGURE D-1-3

BOREHOLE ID	BH75	DATE	19-Dec-24	STAFF:	JD
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote not recorded	
Lower Packer Depth	28.30	mbtop	26.8 mbgs		
Upper Packer Depth	25.30	mbtop	23.8 mbgs		
Bedrock Stratigraphy	ROCHESTER SHALE				
Packer Interval (L)	3.00	m			
Static WL	9.22	mbtop	7.7 mbgs		
Totalizer (pre-test)	91.3760	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	91.3930	0.0002833	17	27.4
1	30	0.2068	2	60	91.4070	0.0002333	14	22.6
1	30	0.2068	3	60	91.4200	0.0002167	13	20.9
1	30	0.2068	4	60	91.4330	0.0002167	13	20.9
1	30	0.2068	5	60	91.4460	0.0002167	13	20.9
1	30	0.2068	6	60	91.4590	0.0002167	13	20.9
1	30	0.2068	7	60	91.4710	0.0002000	12	19.3
1	30	0.2068	8	60	91.4840	0.0002167	13	20.9
1	30	0.2068	9	60	91.4960	0.0002000	12	19.3
1	30	0.2068	10	60	91.5080	0.0002000	12	19.3
2	45	0.3103	11	60	91.5240	0.0002667	16	17.2
2	45	0.3103	12	60	91.5420	0.0003000	18	19.3
2	45	0.3103	13	60	91.5590	0.0002833	17	18.3
2	45	0.3103	14	60	91.5770	0.0003000	18	19.3
2	45	0.3103	15	60	91.5950	0.0003000	18	19.3
2	45	0.3103	16	60	91.6140	0.0003167	19	20.4
2	45	0.3103	17	60	91.6340	0.0003333	20	21.5
2	45	0.3103	18	60	91.6530	0.0003167	19	20.4
2	45	0.3103	19	60	91.6720	0.0003167	19	20.4
2	45	0.3103	20	60	91.6920	0.0003333	20	21.5
3	60	0.4137	21	60	91.7190	0.0004500	27	21.8
3	60	0.4137	22	60	91.7420	0.0003833	23	18.5
3	60	0.4137	23	60	91.7670	0.0004167	25	20.1
3	60	0.4137	24	60	91.7920	0.0004167	25	20.1
3	60	0.4137	25	60	91.8170	0.0004167	25	20.1
3	60	0.4137	26	60	91.8420	0.0004167	25	20.1
3	60	0.4137	27	60	91.8670	0.0004167	25	20.1
3	60	0.4137	28	60	91.8920	0.0004167	25	20.1
3	60	0.4137	29	60	91.9150	0.0003833	23	18.5
3	60	0.4137	30	60	91.9400	0.0004167	25	20.1
4	45	0.3103	31	60	91.9590	0.0003167	19	20.4
4	45	0.3103	32	60	91.9810	0.0003667	22	23.6
4	45	0.3103	33	60	92.0010	0.0003333	20	21.5
4	45	0.3103	34	60	92.0220	0.0003500	21	22.6
4	45	0.3103	35	60	92.0430	0.0003500	21	22.6
4	45	0.3103	36	60	92.0640	0.0003500	21	22.6
4	45	0.3103	37	60	92.0800	0.0002667	16	17.2
4	45	0.3103	38	60	92.1050	0.0004167	25	26.9
4	45	0.3103	39	60	92.1250	0.0003333	20	21.5
4	45	0.3103	40	60	92.1460	0.0003500	21	22.6
5	30	0.2068	41	60	92.1620	0.0002667	16	25.8
5	30	0.2068	42	60	92.1790	0.0002833	17	27.4
5	30	0.2068	43	60	92.1980	0.0003167	19	30.6
5	30	0.2068	44	60	92.2150	0.0002833	17	27.4
5	30	0.2068	45	60	92.2340	0.0003167	19	30.6
5	30	0.2068	46	60	92.2510	0.0002833	17	27.4
5	30	0.2068	47	60	92.2690	0.0003000	18	29.0
5	30	0.2068	48	60	92.2870	0.0003000	18	29.0
5	30	0.2068	49	60	92.3050	0.0003000	18	29.0
5	30	0.2068	50	60	92.3230	0.0003000	18	29.0

FIGURE D-1-4

BOREHOLE ID	BH75	DATE	19-Dec-24	STAFF:	JD
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	25.30	mbtop	23.8 mbgs		
Upper Packer Depth	22.30	mbtop	20.8 mbgs		
Bedrock Stratigraphy	DECEW / GASPORT				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.5 mbgs		
Totalizer (pre-test)	92.3280	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	92.3280	0.0000000	0	0.0
1	30	0.2068	2	60	92.3280	0.0000000	0	0.0
1	30	0.2068	3	60	92.3280	0.0000000	0	0.0
1	30	0.2068	4	60	92.3280	0.0000000	0	0.0
1	30	0.2068	5	60	92.3280	0.0000000	0	0.0
1	30	0.2068	6	60	92.3280	0.0000000	0	0.0
1	30	0.2068	7	60	92.3280	0.0000000	0	0.0
1	30	0.2068	8	60	92.3280	0.0000000	0	0.0
1	30	0.2068	9	60	92.3280	0.0000000	0	0.0
1	30	0.2068	10	60	92.3280	0.0000000	0	0.0
2	45	0.3103	11	60	92.3285	0.0000083	0.5	0.5
2	45	0.3103	12	60	92.3285	0.0000000	0	0.0
2	45	0.3103	13	60	92.3285	0.0000000	0	0.0
2	45	0.3103	14	60	92.3285	0.0000000	0	0.0
2	45	0.3103	15	60	92.3285	0.0000000	0	0.0
2	45	0.3103	16	60	92.3285	0.0000000	0	0.0
2	45	0.3103	17	60	92.3285	0.0000000	0	0.0
2	45	0.3103	18	60	92.3285	0.0000000	0	0.0
2	45	0.3103	19	60	92.3285	0.0000000	0	0.0
2	45	0.3103	20	60	92.3285	0.0000000	0	0.0
3	60	0.4137	21	60	92.3285	0.0000000	0	0.0
3	60	0.4137	22	60	92.3285	0.0000000	0	0.0
3	60	0.4137	23	60	92.3285	0.0000000	0	0.0
3	60	0.4137	24	60	92.3285	0.0000000	0	0.0
3	60	0.4137	25	60	92.3285	0.0000000	0	0.0
3	60	0.4137	26	60	92.3285	0.0000000	0	0.0
3	60	0.4137	27	60	92.3285	0.0000000	0	0.0
3	60	0.4137	28	60	92.3285	0.0000000	0	0.0
3	60	0.4137	29	60	92.3285	0.0000000	0	0.0
3	60	0.4137	30	60	92.3285	0.0000000	0	0.0

FIGURE D-1-5

BOREHOLE ID	BH75	DATE	19-Dec-24	STAFF:	JD
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote ~ 3000 L	
Lower Packer Depth	22.30	mbtop	20.8 mbgs		
Upper Packer Depth	19.30	mbtop	17.8 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.5 mbgs		
Totalizer (pre-test)	92.3500	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	92.3680		0.0003000	18	29.0
1	30	0.2068	2	60	92.4220		0.0009000	54	87.0
1	30	0.2068	3	60	92.4760		0.0009000	54	87.0
1	30	0.2068	4	60	92.5290		0.0008833	53	85.4
1	30	0.2068	5	60	92.5830		0.0009000	54	87.0
1	30	0.2068	6	60	92.6360		0.0008833	53	85.4
1	30	0.2068	7	60	92.6890		0.0008833	53	85.4
1	30	0.2068	8	60	92.7430		0.0009000	54	87.0
1	30	0.2068	9	60	92.7960		0.0008833	53	85.4
1	30	0.2068	10	60	92.8490		0.0008833	53	85.4
2	45	0.3103	11	60	92.9110		0.0010333	62	66.6
2	45	0.3103	12	60	92.9720		0.0010167	61	65.5
2	45	0.3103	13	60	93.0350		0.0010500	63	67.7
2	45	0.3103	14	60	93.0950		0.0010000	60	64.5
2	45	0.3103	15	60	93.1560		0.0010167	61	65.5
2	45	0.3103	16	60	93.2180		0.0010333	62	66.6
2	45	0.3103	17	60	93.2800		0.0010333	62	66.6
2	45	0.3103	18	60	93.3410		0.0010167	61	65.5
2	45	0.3103	19	60	93.4010		0.0010000	60	64.5
2	45	0.3103	20	60	93.4640		0.0010500	63	67.7
3	60	0.4137	21	60	93.5350		0.0011833	71	57.2
3	60	0.4137	22	60	93.6080		0.0012167	73	58.8
3	60	0.4137	23	60	93.6800		0.0012000	72	58.0
3	60	0.4137	24	60	93.7530		0.0012167	73	58.8
3	60	0.4137	25	60	93.8250		0.0012000	72	58.0
3	60	0.4137	26	60	93.8930		0.0011333	68	54.8
3	60	0.4137	27	60	93.9600		0.0011167	67	54.0
3	60	0.4137	28	60	94.0300		0.0011667	70	56.4
3	60	0.4137	29	60	94.0980		0.0011333	68	54.8
3	60	0.4137	30	60	94.1660		0.0011333	68	54.8
4	45	0.3103	31	60	94.2260		0.0010000	60	64.5
4	45	0.3103	32	60	94.2930		0.0011167	67	72.0
4	45	0.3103	33	60	94.3500		0.0009500	57	61.2
4	45	0.3103	34	60	94.4110		0.0010167	61	65.5
4	45	0.3103	35	60	94.4730		0.0010333	62	66.6
4	45	0.3103	36	60	94.5350		0.0010333	62	66.6
4	45	0.3103	37	60	94.5960		0.0010167	61	65.5
4	45	0.3103	38	60	94.6590		0.0010500	63	67.7
4	45	0.3103	39	60	94.7220		0.0010500	63	67.7
4	45	0.3103	40	60	94.7840		0.0010333	62	66.6
5	30	0.2068	41	60	94.8310		0.0007833	47	75.7
5	30	0.2068	42	60	94.8810		0.0008333	50	80.6
5	30	0.2068	43	60	94.9340		0.0008833	53	85.4
5	30	0.2068	44	60	94.9850		0.0008500	51	82.2
5	30	0.2068	45	60	95.0390		0.0009000	54	87.0
5	30	0.2068	46	60	95.0910		0.0008667	52	83.8
5	30	0.2068	47	60	95.1430		0.0008667	52	83.8
5	30	0.2068	48	60	95.1950		0.0008667	52	83.8
5	30	0.2068	49	60	95.2470		0.0008667	52	83.8
5	30	0.2068	50	60	95.3000		0.0008833	53	85.4

FIGURE D-1-6

BOREHOLE ID	BH75	DATE	19-Dec-24	STAFF:	JD
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote not recorded	
Lower Packer Depth	19.30	mbtop	17.8 mbgs		
Upper Packer Depth	16.30	mbtop	14.8 mbgs		
Bedrock Stratigraphy	GASPORT / GOAT ISLAND				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.5 mbgs		
Totalizer (pre-test)	95.3130	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	95.3140	0.0000167	1	1.6
1	30	0.2068	2	60	95.3145	0.0000083	0.5	0.8
1	30	0.2068	3	60	95.3145	0.0000000	0	0.0
1	30	0.2068	4	60	95.3145	0.0000000	0	0.0
1	30	0.2068	5	60	95.3145	0.0000000	0	0.0
1	30	0.2068	6	60	95.3145	0.0000000	0	0.0
1	30	0.2068	7	60	95.3145	0.0000000	0	0.0
1	30	0.2068	8	60	95.3145	0.0000000	0	0.0
1	30	0.2068	9	60	95.3145	0.0000000	0	0.0
1	30	0.2068	10	60	95.3145	0.0000000	0	0.0
2	45	0.3103	11	60	95.3170	0.0000417	2.5	2.7
2	45	0.3103	12	60	95.3190	0.0000333	2	2.1
2	45	0.3103	13	60	95.3205	0.0000250	1.5	1.6
2	45	0.3103	14	60	95.3220	0.0000250	1.5	1.6
2	45	0.3103	15	60	95.3240	0.0000333	2	2.1
2	45	0.3103	16	60	95.3255	0.0000250	1.5	1.6
2	45	0.3103	17	60	95.3275	0.0000333	2	2.1
2	45	0.3103	18	60	95.3290	0.0000250	1.5	1.6
2	45	0.3103	19	60	95.3310	0.0000333	2	2.1
2	45	0.3103	20	60	95.3330	0.0000333	2	2.1
3	60	0.4137	21	60	95.3370	0.0000667	4	3.2
3	60	0.4137	22	60	95.3410	0.0000667	4	3.2
3	60	0.4137	23	60	95.3445	0.0000583	3.5	2.8
3	60	0.4137	24	60	95.3470	0.0000417	2.5	2.0
3	60	0.4137	25	60	95.3505	0.0000583	3.5	2.8
3	60	0.4137	26	60	95.3535	0.0000500	3	2.4
3	60	0.4137	27	60	95.3565	0.0000500	3	2.4
3	60	0.4137	28	60	95.3595	0.0000500	3	2.4
3	60	0.4137	29	60	95.3620	0.0000417	2.5	2.0
3	60	0.4137	30	60	95.3650	0.0000500	3	2.4
4	45	0.3103	31	60	95.3675	0.0000417	2.5	2.7
4	45	0.3103	32	60	95.3700	0.0000417	2.5	2.7
4	45	0.3103	33	60	95.3720	0.0000333	2	2.1
4	45	0.3103	34	60	95.3745	0.0000417	2.5	2.7
4	45	0.3103	35	60	95.3770	0.0000417	2.5	2.7
5	30	0.2068	41	60	95.3780	0.0000167	1	1.6
5	30	0.2068	42	60	95.3780	0.0000000	0	0.0
5	30	0.2068	43	60	95.3800	0.0000333	2	3.2
5	30	0.2068	44	60	95.3820	0.0000333	2	3.2
5	30	0.2068	45	60	95.3845	0.0000417	2.5	4.0

FIGURE D-1-7

BOREHOLE ID	BH75	DATE	19-Dec-24	STAFF:	JD / SK
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote ~ 4100 L	
Lower Packer Depth	16.30	mbtop	14.8 mbgs		
Upper Packer Depth	13.30	mbtop	11.8 mbgs		
Bedrock Stratigraphy	GOAT ISLAND				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.5 mbgs		
Totalizer (pre-test)	95.3890	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	95.4370		0.0008000	48	77.4
1	30	0.2068	2	60	95.5000		0.0010500	63	101.5
1	30	0.2068	3	60	95.5610		0.0010167	61	98.3
1	30	0.2068	4	60	95.6210		0.0010000	60	96.7
1	30	0.2068	5	60	95.6820		0.0010167	61	98.3
1	30	0.2068	6	60	95.7420		0.0010000	60	96.7
1	30	0.2068	7	60	95.8050		0.0010500	63	101.5
1	30	0.2068	8	60	95.8690		0.0010667	64	103.1
1	30	0.2068	9	60	95.9340		0.0010833	65	104.7
1	30	0.2068	10	60	95.9960		0.0010333	62	99.9
2	45	0.3103	11	60	96.0900		0.0015667	94	101.0
2	45	0.3103	12	60	96.1650		0.0012500	75	80.6
2	45	0.3103	13	60	96.2500		0.0014167	85	91.3
2	45	0.3103	14	60	96.3370		0.0014500	87	93.5
2	45	0.3103	15	60	96.4190		0.0013667	82	88.1
2	45	0.3103	16	60	96.5060		0.0014500	87	93.5
2	45	0.3103	17	60	96.5910		0.0014167	85	91.3
2	45	0.3103	18	60	96.6760		0.0014167	85	91.3
2	45	0.3103	19	60	96.7590		0.0013833	83	89.2
2	45	0.3103	20	60	96.8470		0.0014667	88	94.5
3	60	0.4137	21	60	96.9410		0.0015667	94	75.7
3	60	0.4137	22	60	97.0360		0.0015833	95	76.5
3	60	0.4137	23	60	97.1340		0.0016333	98	79.0
3	60	0.4137	24	60	97.2280		0.0015667	94	75.7
3	60	0.4137	25	60	97.3250		0.0016167	97	78.2
3	60	0.4137	26	60	97.4190		0.0015667	94	75.7
3	60	0.4137	27	60	97.5150		0.0016000	96	77.4
3	60	0.4137	28	60	97.6110		0.0016000	96	77.4
3	60	0.4137	29	60	97.7060		0.0015833	95	76.5
3	60	0.4137	30	60	97.7990		0.0015500	93	74.9
4	45	0.3103	31	60	97.8840		0.0014167	85	91.3
4	45	0.3103	32	60	97.9630		0.0013167	79	84.9
4	45	0.3103	33	60	98.0450		0.0013667	82	88.1
4	45	0.3103	34	60	98.1230		0.0013000	78	83.8
4	45	0.3103	35	60	98.2020		0.0013167	79	84.9
4	45	0.3103	36	60	98.2830		0.0013500	81	87.0
4	45	0.3103	37	60	98.3620		0.0013167	79	84.9
4	45	0.3103	38	60	98.4410		0.0013167	79	84.9
4	45	0.3103	39	60	98.5220		0.0013500	81	87.0
4	45	0.3103	40	60	98.6030		0.0013500	81	87.0
5	30	0.2068	41	60	98.6680		0.0010833	65	104.7
5	30	0.2068	42	60	98.7330		0.0010833	65	104.7
5	30	0.2068	43	60	98.7980		0.0010833	65	104.7
5	30	0.2068	44	60	98.8630		0.0010833	65	104.7
5	30	0.2068	45	60	98.9270		0.0010667	64	103.1
5	30	0.2068	46	60	98.9930		0.0011000	66	106.4
5	30	0.2068	47	60	99.0580		0.0010833	65	104.7
5	30	0.2068	48	60	99.1240		0.0011000	66	106.4
5	30	0.2068	49	60	99.1870		0.0010500	63	101.5
5	30	0.2068	50	60	99.2530		0.0011000	66	106.4

FIGURE D-1-8

BOREHOLE ID	BH75	DATE	20-Dec-24	STAFF:	JD
Stickup	1.49	mags			
EOH	46.42	mbtop	44.9 mbgs	-total volume used from tote ~ 3000 L	
Lower Packer Depth	13.30	mbtop	11.8 mbgs		
Upper Packer Depth	10.30	mbtop	8.8 mbgs		
Bedrock Stratigraphy	GOAT ISLAND				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.5 mbgs		
Totalizer (pre-test)	99.3000	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	10	0.0689	1	60	99.3520		0.0008667	52	251.4
1	10	0.0689	2	60	99.4060		0.0009000	54	261.1
1	10	0.0689	3	60	99.4610		0.0009167	55	265.9
1	10	0.0689	4	60	99.5150		0.0009000	54	261.1
1	10	0.0689	5	60	99.5690		0.0009000	54	261.1
1	10	0.0689	6	60	99.6220		0.0008833	53	256.2
1	10	0.0689	7	60	99.6740		0.0008667	52	251.4
1	10	0.0689	8	60	99.7260		0.0008667	52	251.4
1	10	0.0689	9	60	99.7790		0.0008833	53	256.2
1	10	0.0689	10	60	99.8310		0.0008667	52	251.4
2	15	0.1034	11	60	99.8860		0.0009167	55	177.3
2	15	0.1034	12	60	99.9440		0.0009667	58	186.9
2	15	0.1034	13	60	100.0010		0.0009500	57	183.7
2	15	0.1034	14	60	100.0590		0.0009667	58	186.9
2	15	0.1034	15	60	100.1110		0.0008667	52	167.6
2	15	0.1034	16	60	100.1730		0.0010333	62	199.8
2	15	0.1034	17	60	100.2310		0.0009667	58	186.9
2	15	0.1034	18	60	100.2890		0.0009667	58	186.9
2	15	0.1034	19	60	100.3470		0.0009667	58	186.9
2	15	0.1034	20	60	100.4040		0.0009500	57	183.7
3	20	0.1379	21	60	100.4670		0.0010500	63	152.3
3	20	0.1379	22	60	100.5310		0.0010667	64	154.7
3	20	0.1379	23	60	100.5950		0.0010667	64	154.7
3	20	0.1379	24	60	100.6580		0.0010500	63	152.3
3	20	0.1379	25	60	100.7230		0.0010833	65	157.1
3	20	0.1379	26	60	100.7870		0.0010667	64	154.7
3	20	0.1379	27	60	100.8520		0.0010833	65	157.1
3	20	0.1379	28	60	100.9150		0.0010500	63	152.3
3	20	0.1379	29	60	100.9790		0.0010667	64	154.7
3	20	0.1379	30	60	101.0440		0.0010833	65	157.1
4	15	0.1034	31	60	101.0990		0.0009167	55	177.3
4	15	0.1034	32	60	101.1570		0.0009667	58	186.9
4	15	0.1034	33	60	101.2090		0.0008667	52	167.6
4	15	0.1034	34	60	101.2610		0.0008667	52	167.6
4	15	0.1034	35	60	101.3160		0.0009167	55	177.3
4	15	0.1034	36	60	101.3700		0.0009000	54	174.0
4	15	0.1034	37	60	101.4240		0.0009000	54	174.0
4	15	0.1034	38	60	101.4780		0.0009000	54	174.0
4	15	0.1034	39	60	101.5330		0.0009167	55	177.3
4	15	0.1034	40	60	101.5870		0.0009000	54	174.0
5	10	0.0689	41	60	101.6340		0.0007833	47	227.2
5	10	0.0689	42	60	101.6790		0.0007500	45	217.6
5	10	0.0689	43	60	101.7260		0.0007833	47	227.2
5	10	0.0689	44	60	101.7780		0.0008667	52	251.4
5	10	0.0689	45	60	101.8190		0.0006833	41	198.2
5	10	0.0689	46	60	101.8650		0.0007667	46	222.4
5	10	0.0689	47	60	101.9110		0.0007667	46	222.4
5	10	0.0689	48	60	101.9580		0.0007833	47	227.2
5	10	0.0689	49	60	102.0050		0.0007833	47	227.2
5	10	0.0689	50	60	102.0510		0.0007667	46	222.4

FIGURE D-2-1

BOREHOLE ID	BH76	DATE	17-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	30.50	mbtop	28.9 mbgs		
Upper Packer Depth	27.50	mbtop	25.9 mbgs		
Bedrock Stratigraphy	IRONDEQUOIT / ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.0730	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	20	0.1379	1	60	102.0810		0.0001333	8	19.3
1	20	0.1379	2	60	102.0840		0.0000500	3	7.3
1	20	0.1379	3	60	102.0870		0.0000500	3	7.3
1	20	0.1379	4	60	102.0900		0.0000500	3	7.3
1	20	0.1379	5	60	102.0925		0.0000417	2.5	6.0
1	20	0.1379	6	60	102.0950		0.0000417	2.5	6.0
1	20	0.1379	7	60	102.0980		0.0000500	3	7.3
1	20	0.1379	8	60	102.1005		0.0000417	2.5	6.0
1	20	0.1379	9	60	102.1030		0.0000417	2.5	6.0
1	20	0.1379	10	60	102.1055		0.0000417	2.5	6.0
2	30	0.2068	11	60	102.1095		0.0000667	4	6.4
2	30	0.2068	12	60	102.1130		0.0000583	3.5	5.6
2	30	0.2068	13	60	102.1165		0.0000583	3.5	5.6
2	30	0.2068	14	60	102.1200		0.0000583	3.5	5.6
2	30	0.2068	15	60	102.1230		0.0000500	3	4.8
2	30	0.2068	16	60	102.1265		0.0000583	3.5	5.6
2	30	0.2068	17	60	102.1300		0.0000583	3.5	5.6
2	30	0.2068	18	60	102.1330		0.0000500	3	4.8
2	30	0.2068	19	60	102.1365		0.0000583	3.5	5.6
2	30	0.2068	20	60	102.1400		0.0000583	3.5	5.6
3	40	0.2758	21	60	102.1440		0.0000667	4	4.8
3	40	0.2758	22	60	102.1480		0.0000667	4	4.8
3	40	0.2758	23	60	102.1515		0.0000583	3.5	4.2
3	40	0.2758	24	60	102.1550		0.0000583	3.5	4.2
3	40	0.2758	25	60	102.1585		0.0000583	3.5	4.2
3	40	0.2758	26	60	102.1615		0.0000500	3	3.6
3	40	0.2758	27	60	102.1650		0.0000583	3.5	4.2
3	40	0.2758	28	60	102.1685		0.0000583	3.5	4.2
3	40	0.2758	29	60	102.1715		0.0000500	3	3.6
3	40	0.2758	30	60	102.1750		0.0000583	3.5	4.2
4	30	0.2068	31	60	102.1780		0.0000500	3	4.8
4	30	0.2068	32	60	102.1810		0.0000500	3	4.8
4	30	0.2068	33	60	102.1840		0.0000500	3	4.8
4	30	0.2068	34	60	102.1865		0.0000417	2.5	4.0
4	30	0.2068	35	60	102.1900		0.0000583	3.5	5.6
4	30	0.2068	36	60	102.1925		0.0000417	2.5	4.0
4	30	0.2068	37	60	102.1955		0.0000500	3	4.8
4	30	0.2068	38	60	102.1985		0.0000500	3	4.8
4	30	0.2068	39	60	102.2015		0.0000500	3	4.8
4	30	0.2068	40	60	102.2040		0.0000417	2.5	4.0
5	20	0.1379	41	60	102.2060		0.0000333	2	4.8
5	20	0.1379	42	60	102.2090		0.0000500	3	7.3
5	20	0.1379	43	60	102.2110		0.0000333	2	4.8
5	20	0.1379	44	60	102.2140		0.0000500	3	7.3
5	20	0.1379	45	60	102.2170		0.0000500	3	7.3
5	20	0.1379	46	60	102.2195		0.0000417	2.5	6.0
5	20	0.1379	47	60	102.2220		0.0000417	2.5	6.0
5	20	0.1379	48	60	102.2250		0.0000500	3	7.3
5	20	0.1379	49	60	102.2275		0.0000417	2.5	6.0
5	20	0.1379	50	60	102.2305		0.0000500	3	7.3

FIGURE D-2-2

BOREHOLE ID	BH76	DATE	17-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 25 L	
Lower Packer Depth	27.50	mbtop	25.9 mbgs		
Upper Packer Depth	24.50	mbtop	22.9 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.2360	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	102.2360		0.0000000	0	0.0
1	30	0.2068	2	60	102.2365		0.0000083	0.5	0.8
1	30	0.2068	3	60	102.2380		0.0000250	1.5	2.4
1	30	0.2068	4	60	102.2390		0.0000167	1	1.6
1	30	0.2068	5	60	102.2400		0.0000167	1	1.6
1	30	0.2068	6	60	102.2400		0.0000000	0	0.0
1	30	0.2068	7	60	102.2400		0.0000000	0	0.0
1	30	0.2068	8	60	102.2400		0.0000000	0	0.0
1	30	0.2068	9	60	102.2405		0.0000083	0.5	0.8
1	30	0.2068	10	60	102.2410		0.0000083	0.5	0.8
2	45	0.3103	11	60	102.2430		0.0000333	2	2.1
2	45	0.3103	12	60	102.2430		0.0000000	0	0.0
2	45	0.3103	13	60	102.2435		0.0000083	0.5	0.5
2	45	0.3103	14	60	102.2440		0.0000083	0.5	0.5
2	45	0.3103	15	60	102.2450		0.0000167	1	1.1
2	45	0.3103	16	60	102.2455		0.0000083	0.5	0.5
2	45	0.3103	17	60	102.2460		0.0000083	0.5	0.5
2	45	0.3103	18	60	102.2470		0.0000167	1	1.1
2	45	0.3103	19	60	102.2475		0.0000083	0.5	0.5
2	45	0.3103	20	60	102.2480		0.0000083	0.5	0.5
3	60	0.4137	21	60	102.2500		0.0000333	2	1.6
3	60	0.4137	22	60	102.2510		0.0000167	1	0.8
3	60	0.4137	23	60	102.2520		0.0000167	1	0.8
3	60	0.4137	24	60	102.2530		0.0000167	1	0.8
3	60	0.4137	25	60	102.2540		0.0000167	1	0.8
3	60	0.4137	26	60	102.2550		0.0000167	1	0.8
3	60	0.4137	27	60	102.2560		0.0000167	1	0.8
3	60	0.4137	28	60	102.2570		0.0000167	1	0.8
3	60	0.4137	29	60	102.2580		0.0000167	1	0.8
3	60	0.4137	30	60	102.2590		0.0000167	1	0.8
4	45	0.3103	31	60	102.2600		0.0000167	1	1.1
4	45	0.3103	32	60	102.2610		0.0000167	1	1.1
4	45	0.3103	33	60	102.2615		0.0000083	0.5	0.5
4	45	0.3103	34	60	102.2625		0.0000167	1	1.1
4	45	0.3103	35	60	102.2635		0.0000167	1	1.1
4	45	0.3103	36	60	102.2640		0.0000083	0.5	0.5
4	45	0.3103	37	60	102.2650		0.0000167	1	1.1
4	45	0.3103	38	60	102.2660		0.0000167	1	1.1
4	45	0.3103	39	60	102.2670		0.0000167	1	1.1
4	45	0.3103	40	60	102.2675		0.0000083	0.5	0.5
5	30	0.2068	41	60	102.2685		0.0000167	1	1.6
5	30	0.2068	42	60	102.2695		0.0000167	1	1.6
5	30	0.2068	43	60	102.2705		0.0000167	1	1.6
5	30	0.2068	44	60	102.2720		0.0000250	1.5	2.4
5	30	0.2068	45	60	102.2730		0.0000167	1	1.6
5	30	0.2068	46	60	102.2745		0.0000250	1.5	2.4
5	30	0.2068	47	60	102.2760		0.0000250	1.5	2.4
5	30	0.2068	48	60	102.2770		0.0000167	1	1.6
5	30	0.2068	49	60	102.2785		0.0000250	1.5	2.4
5	30	0.2068	50	60	102.2795		0.0000167	1	1.6

FIGURE D-2-3

BOREHOLE ID	BH76	DATE	17-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 100 L	
Lower Packer Depth	24.50	mbtop	22.9 mbgs		
Upper Packer Depth	21.50	mbtop	19.9 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.2810	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	102.2860		0.0000833	5	8.1
1	30	0.2068	2	60	102.2890		0.0000500	3	4.8
1	30	0.2068	3	60	102.2910		0.0000333	2	3.2
1	30	0.2068	4	60	102.2935		0.0000417	2.5	4.0
1	30	0.2068	5	60	102.2960		0.0000417	2.5	4.0
1	30	0.2068	6	60	102.2985		0.0000417	2.5	4.0
1	30	0.2068	7	60	102.3010		0.0000417	2.5	4.0
1	30	0.2068	8	60	102.3030		0.0000333	2	3.2
1	30	0.2068	9	60	102.3055		0.0000417	2.5	4.0
1	30	0.2068	10	60	102.3075		0.0000333	2	3.2
2	45	0.3103	11	60	102.3110		0.0000583	3.5	3.8
2	45	0.3103	12	60	102.3140		0.0000500	3	3.2
2	45	0.3103	13	60	102.3170		0.0000500	3	3.2
2	45	0.3103	14	60	102.3200		0.0000500	3	3.2
2	45	0.3103	15	60	102.3225		0.0000417	2.5	2.7
2	45	0.3103	16	60	102.3250		0.0000417	2.5	2.7
2	45	0.3103	17	60	102.3280		0.0000500	3	3.2
2	45	0.3103	18	60	102.3310		0.0000500	3	3.2
2	45	0.3103	19	60	102.3335		0.0000417	2.5	2.7
2	45	0.3103	20	60	102.3360		0.0000417	2.5	2.7
3	60	0.4137	21	60	102.3400		0.0000667	4	3.2
3	60	0.4137	22	60	102.3440		0.0000667	4	3.2
3	60	0.4137	23	60	102.3475		0.0000583	3.5	2.8
3	60	0.4137	24	60	102.3510		0.0000583	3.5	2.8
3	60	0.4137	25	60	102.3545		0.0000583	3.5	2.8
3	60	0.4137	26	60	102.3580		0.0000583	3.5	2.8
3	60	0.4137	27	60	102.3610		0.0000500	3	2.4
3	60	0.4137	28	60	102.3650		0.0000667	4	3.2
3	60	0.4137	29	60	102.3685		0.0000583	3.5	2.8
3	60	0.4137	30	60	102.3720		0.0000583	3.5	2.8
4	45	0.3103	31	60	102.3740		0.0000333	2	2.1
4	45	0.3103	32	60	102.3770		0.0000500	3	3.2
4	45	0.3103	33	60	102.3795		0.0000417	2.5	2.7
4	45	0.3103	34	60	102.3820		0.0000417	2.5	2.7
4	45	0.3103	35	60	102.3850		0.0000500	3	3.2
4	45	0.3103	36	60	102.3880		0.0000500	3	3.2
4	45	0.3103	37	60	102.3905		0.0000417	2.5	2.7
4	45	0.3103	38	60	102.3935		0.0000500	3	3.2
4	45	0.3103	39	60	102.3960		0.0000417	2.5	2.7
4	45	0.3103	40	60	102.3990		0.0000500	3	3.2
5	30	0.2068	41	60	102.4010		0.0000333	2	3.2
5	30	0.2068	42	60	102.4030		0.0000333	2	3.2
5	30	0.2068	43	60	102.4050		0.0000333	2	3.2
5	30	0.2068	44	60	102.4070		0.0000333	2	3.2
5	30	0.2068	45	60	102.4090		0.0000333	2	3.2
5	30	0.2068	46	60	102.4115		0.0000417	2.5	4.0
5	30	0.2068	47	60	102.4135		0.0000333	2	3.2
5	30	0.2068	48	60	102.4155		0.0000333	2	3.2
5	30	0.2068	49	60	102.4180		0.0000417	2.5	4.0
5	30	0.2068	50	60	102.4200		0.0000333	2	3.2

FIGURE D-2-4

BOREHOLE ID	BH76	DATE	20-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	21.50	mbtop	19.9 mbgs		
Upper Packer Depth	18.50	mbtop	16.9 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.4490	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	102.4490		0.0000000	0	0.0
1	30	0.2068	2	60	102.4490		0.0000000	0	0.0
1	30	0.2068	3	60	102.4490		0.0000000	0	0.0
1	30	0.2068	4	60	102.4490		0.0000000	0	0.0
1	30	0.2068	5	60	102.4490		0.0000000	0	0.0
1	30	0.2068	6	60	102.4490		0.0000000	0	0.0
1	30	0.2068	7	60	102.4490		0.0000000	0	0.0
1	30	0.2068	8	60	102.4490		0.0000000	0	0.0
1	30	0.2068	9	60	102.4490		0.0000000	0	0.0
1	30	0.2068	10	60	102.4490		0.0000000	0	0.0
2	45	0.3103	11	60	102.4510		0.0000333	2	2.1
2	45	0.3103	12	60	102.4510		0.0000000	0	0.0
2	45	0.3103	13	60	102.4510		0.0000000	0	0.0
2	45	0.3103	14	60	102.4510		0.0000000	0	0.0
2	45	0.3103	15	60	102.4510		0.0000000	0	0.0
2	45	0.3103	16	60	102.4510		0.0000000	0	0.0
2	45	0.3103	17	60	102.4510		0.0000000	0	0.0
2	45	0.3103	18	60	102.4510		0.0000000	0	0.0
2	45	0.3103	19	60	102.4510		0.0000000	0	0.0
2	45	0.3103	20	60	102.4510		0.0000000	0	0.0
3	60	0.4137	21	60	102.4520		0.0000167	1	0.8
3	60	0.4137	22	60	102.4520		0.0000000	0	0.0
3	60	0.4137	23	60	102.4520		0.0000000	0	0.0
3	60	0.4137	24	60	102.4520		0.0000000	0	0.0
3	60	0.4137	25	60	102.4520		0.0000000	0	0.0
3	60	0.4137	26	60	102.4520		0.0000000	0	0.0
3	60	0.4137	27	60	102.4520		0.0000000	0	0.0
3	60	0.4137	28	60	102.4520		0.0000000	0	0.0
3	60	0.4137	29	60	102.4520		0.0000000	0	0.0
3	60	0.4137	30	60	102.4520		0.0000000	0	0.0

FIGURE D-2-5

BOREHOLE ID	BH76	DATE	20-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	18.50	mbtop	16.9 mbgs		
Upper Packer Depth	15.50	mbtop	13.9 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.4520	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	102.4520		0.0000000	0	0.0
1	30	0.2068	2	60	102.4520		0.0000000	0	0.0
1	30	0.2068	3	60	102.4520		0.0000000	0	0.0
1	30	0.2068	4	60	102.4520		0.0000000	0	0.0
1	30	0.2068	5	60	102.4520		0.0000000	0	0.0
1	30	0.2068	6	60	102.4520		0.0000000	0	0.0
1	30	0.2068	7	60	102.4520		0.0000000	0	0.0
1	30	0.2068	8	60	102.4520		0.0000000	0	0.0
1	30	0.2068	9	60	102.4520		0.0000000	0	0.0
1	30	0.2068	10	60	102.4520		0.0000000	0	0.0
2	45	0.3103	11	60	102.4530		0.0000167	1	1.1
2	45	0.3103	12	60	102.4530		0.0000000	0	0.0
2	45	0.3103	13	60	102.4530		0.0000000	0	0.0
2	45	0.3103	14	60	102.4530		0.0000000	0	0.0
2	45	0.3103	15	60	102.4530		0.0000000	0	0.0
2	45	0.3103	16	60	102.4530		0.0000000	0	0.0
2	45	0.3103	17	60	102.4530		0.0000000	0	0.0
2	45	0.3103	18	60	102.4530		0.0000000	0	0.0
2	45	0.3103	19	60	102.4530		0.0000000	0	0.0
2	45	0.3103	20	60	102.4530		0.0000000	0	0.0
3	60	0.4137	21	60	102.4540		0.0000167	1	0.8
3	60	0.4137	22	60	102.4540		0.0000000	0	0.0
3	60	0.4137	23	60	102.4540		0.0000000	0	0.0
3	60	0.4137	24	60	102.4540		0.0000000	0	0.0
3	60	0.4137	25	60	102.4540		0.0000000	0	0.0
3	60	0.4137	26	60	102.4540		0.0000000	0	0.0
3	60	0.4137	27	60	102.4540		0.0000000	0	0.0
3	60	0.4137	28	60	102.4540		0.0000000	0	0.0
3	60	0.4137	29	60	102.4540		0.0000000	0	0.0
3	60	0.4137	30	60	102.4540		0.0000000	0	0.0

FIGURE D-2-6

BOREHOLE ID	BH76	DATE	20-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5 mbgs	-total volume used from tote ~ 4500 L	
Lower Packer Depth	15.50	mbtop	13.9 mbgs		
Upper Packer Depth	13.50	mbtop	11.9 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	2.00	m			
Static WL		mbtop	-1.6 mbgs		
Totalizer (pre-test)	102.5100	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	102.5830		0.0012167	73	176.5
1	30	0.2068	2	60	102.6580		0.0012500	75	181.3
1	30	0.2068	3	60	102.7300		0.0012000	72	174.0
1	30	0.2068	4	60	102.8030		0.0012167	73	176.5
1	30	0.2068	5	60	102.8740		0.0011833	71	171.6
1	30	0.2068	6	60	102.9460		0.0012000	72	174.0
1	30	0.2068	7	60	103.0190		0.0012167	73	176.5
1	30	0.2068	8	60	103.0890		0.0011667	70	169.2
1	30	0.2068	9	60	103.1600		0.0011833	71	171.6
1	30	0.2068	10	60	103.2320		0.0012000	72	174.0
2	45	0.3103	11	60	103.3160		0.0014000	84	135.4
2	45	0.3103	12	60	103.4000		0.0014000	84	135.4
2	45	0.3103	13	60	103.4850		0.0014167	85	137.0
2	45	0.3103	14	60	103.5690		0.0014000	84	135.4
2	45	0.3103	15	60	103.6530		0.0014000	84	135.4
2	45	0.3103	16	60	103.7370		0.0014000	84	135.4
2	45	0.3103	17	60	103.8210		0.0014000	84	135.4
2	45	0.3103	18	60	103.9110		0.0015000	90	145.0
2	45	0.3103	19	60	103.9890		0.0013000	78	125.7
2	45	0.3103	20	60	104.0740		0.0014167	85	137.0
3	60	0.4137	21	60	104.1720		0.0016333	98	118.4
3	60	0.4137	22	60	104.2760		0.0017333	104	125.7
3	60	0.4137	23	60	104.3780		0.0017000	102	123.3
3	60	0.4137	24	60	104.4820		0.0017333	104	125.7
3	60	0.4137	25	60	104.5840		0.0017000	102	123.3
3	60	0.4137	26	60	104.6860		0.0017000	102	123.3
3	60	0.4137	27	60	104.7880		0.0017000	102	123.3
3	60	0.4137	28	60	104.8900		0.0017000	102	123.3
3	60	0.4137	29	60	104.9910		0.0016833	101	122.1
3	60	0.4137	30	60	105.0940		0.0017167	103	124.5
4	45	0.3103	31	60	105.1700		0.0012667	76	122.5
4	45	0.3103	32	60	105.2590		0.0014833	89	143.4
4	45	0.3103	33	60	105.3470		0.0014667	88	141.8
4	45	0.3103	34	60	105.4350		0.0014667	88	141.8
4	45	0.3103	35	60	105.5230		0.0014667	88	141.8
4	45	0.3103	36	60	105.6110		0.0014667	88	141.8
4	45	0.3103	37	60	105.6990		0.0014667	88	141.8
4	45	0.3103	38	60	105.7870		0.0014667	88	141.8
4	45	0.3103	39	60	105.8770		0.0015000	90	145.0
4	45	0.3103	40	60	105.9690		0.0015333	92	148.3
5	30	0.2068	41	60	106.0480		0.0013167	79	191.0
5	30	0.2068	42	60	106.1130		0.0010833	65	157.1
5	30	0.2068	43	60	106.1810		0.0011333	68	164.4
5	30	0.2068	44	60	106.2530		0.0012000	72	174.0
5	30	0.2068	45	60	106.3260		0.0012167	73	176.5
5	30	0.2068	46	60	106.3960		0.0011667	70	169.2
5	30	0.2068	47	60	106.4680		0.0012000	72	174.0
5	30	0.2068	48	60	106.5410		0.0012167	73	176.5
5	30	0.2068	49	60	106.6110		0.0011667	70	169.2
5	30	0.2068	50	60	106.6840		0.0012167	73	176.5

FIGURE D-2-7

BOREHOLE ID	BH76	DATE	21-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5	mbgs	-total volume used from tote ~ 2800 L
Lower Packer Depth	12.50	mbtop	10.9	mbgs	
Upper Packer Depth	9.50	mbtop	7.9	mbgs	
Bedrock Stratigraphy	DECEW				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6	mbgs	
Totalizer (pre-test)	106.6840	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	10	0.0689	1	60	106.7640	0.0013333	80	386.8
1	10	0.0689	2	60	106.8200	0.0009333	56	270.7
1	10	0.0689	3	60	106.8740	0.0009000	54	261.1
1	10	0.0689	4	60	106.9300	0.0009333	56	270.7
1	10	0.0689	5	60	106.9850	0.0009167	55	265.9
1	10	0.0689	6	60	107.0500	0.0010833	65	314.2
1	10	0.0689	7	60	107.0940	0.0007333	44	212.7
1	10	0.0689	8	60	107.1480	0.0009000	54	261.1
1	10	0.0689	9	60	107.2030	0.0009167	55	265.9
1	10	0.0689	10	60	107.2580	0.0009167	55	265.9
2	15	0.1034	11	60	107.3160	0.0009667	58	186.9
2	15	0.1034	12	60	107.3780	0.0010333	62	199.8
2	15	0.1034	13	60	107.4360	0.0009667	58	186.9
2	15	0.1034	14	60	107.4960	0.0010000	60	193.4
2	15	0.1034	15	60	107.5560	0.0010000	60	193.4
2	15	0.1034	16	60	107.6150	0.0009833	59	190.2
2	15	0.1034	17	60	107.6750	0.0010000	60	193.4
2	15	0.1034	18	60	107.7350	0.0010000	60	193.4
2	15	0.1034	19	60	107.7950	0.0010000	60	193.4
2	15	0.1034	20	60	107.8540	0.0009833	59	190.2
3	20	0.1379	21	60	107.9190	0.0010833	65	157.1
3	20	0.1379	22	60	107.9860	0.0011167	67	162.0
3	20	0.1379	23	60	108.0530	0.0011167	67	162.0
3	20	0.1379	24	60	108.1190	0.0011000	66	159.5
3	20	0.1379	25	60	108.1850	0.0011000	66	159.5
3	20	0.1379	26	60	108.2520	0.0011167	67	162.0
3	20	0.1379	27	60	108.3180	0.0011000	66	159.5
3	20	0.1379	28	60	108.3840	0.0011000	66	159.5
3	20	0.1379	29	60	108.4500	0.0011000	66	159.5
3	20	0.1379	30	60	108.5160	0.0011000	66	159.5
4	15	0.1034	31	60	108.5730	0.0009500	57	183.7
4	15	0.1034	32	60	108.6280	0.0009167	55	177.3
4	15	0.1034	33	60	108.6840	0.0009333	56	180.5
4	15	0.1034	34	60	108.7390	0.0009167	55	177.3
4	15	0.1034	35	60	108.7950	0.0009333	56	180.5
4	15	0.1034	36	60	108.8520	0.0009500	57	183.7
4	15	0.1034	37	60	108.9060	0.0009000	54	174.0
4	15	0.1034	38	60	108.9630	0.0009500	57	183.7
4	15	0.1034	39	60	109.0180	0.0009167	55	177.3
4	15	0.1034	40	60	109.0740	0.0009333	56	180.5
5	10	0.0689	41	60	109.1230	0.0008167	49	236.9
5	10	0.0689	42	60	109.1700	0.0007833	47	227.2
5	10	0.0689	43	60	109.2140	0.0007333	44	212.7
5	10	0.0689	44	60	109.2670	0.0008833	53	256.2
5	10	0.0689	45	60	109.3160	0.0008167	49	236.9
5	10	0.0689	46	60	109.3640	0.0008000	48	232.1
5	10	0.0689	47	60	109.4120	0.0008000	48	232.1
5	10	0.0689	48	60	109.4610	0.0008167	49	236.9
5	10	0.0689	49	60	109.5090	0.0008000	48	232.1
5	10	0.0689	50	60	109.5580	0.0008167	49	236.9

FIGURE D-2-8

BOREHOLE ID	BH76	DATE	21-Jan-25	STAFF:	JD
Stickup	1.58	mags			
EOH	32.10	mbtop	30.5	mbgs	-total volume used from tote ~ 200 L
Lower Packer Depth	9.50	mbtop	7.9	mbgs	
Upper Packer Depth	6.50	mbtop	4.9	mbgs	
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.6	mbgs	
Totalizer (pre-test)	109.5940	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	10	0.0689	1	60	109.5970		0.0000500	3	14.5
1	10	0.0689	2	60	109.6010		0.0000667	4	19.3
1	10	0.0689	3	60	109.6040		0.0000500	3	14.5
1	10	0.0689	4	60	109.6065		0.0000417	2.5	12.1
1	10	0.0689	5	60	109.6095		0.0000500	3	14.5
1	10	0.0689	6	60	109.6115		0.0000333	2	9.7
1	10	0.0689	7	60	109.6130		0.0000250	1.5	7.3
1	10	0.0689	8	60	109.6160		0.0000500	3	14.5
1	10	0.0689	9	60	109.6185		0.0000417	2.5	12.1
1	10	0.0689	10	60	109.6210		0.0000417	2.5	12.1
2	15	0.1034	11	60	109.6235		0.0000417	2.5	8.1
2	15	0.1034	12	60	109.6260		0.0000417	2.5	8.1
2	15	0.1034	13	60	109.6290		0.0000500	3	9.7
2	15	0.1034	14	60	109.6315		0.0000417	2.5	8.1
2	15	0.1034	15	60	109.6340		0.0000417	2.5	8.1
2	15	0.1034	16	60	109.6365		0.0000417	2.5	8.1
2	15	0.1034	17	60	109.6390		0.0000417	2.5	8.1
2	15	0.1034	18	60	109.6415		0.0000417	2.5	8.1
2	15	0.1034	19	60	109.6440		0.0000417	2.5	8.1
2	15	0.1034	20	60	109.6460		0.0000333	2	6.4
3	20	0.1379	21	60	109.6490		0.0000500	3	7.3
3	20	0.1379	22	60	109.6520		0.0000500	3	7.3
3	20	0.1379	23	60	109.6555		0.0000583	3.5	8.5
3	20	0.1379	24	60	109.6585		0.0000500	3	7.3
3	20	0.1379	25	60	109.6620		0.0000583	3.5	8.5
3	20	0.1379	26	60	109.6650		0.0000500	3	7.3
3	20	0.1379	27	60	109.6685		0.0000583	3.5	8.5
3	20	0.1379	28	60	109.6715		0.0000500	3	7.3
3	20	0.1379	29	60	109.6750		0.0000583	3.5	8.5
3	20	0.1379	30	60	109.6780		0.0000500	3	7.3
4	15	0.1034	31	60	109.6810		0.0000500	3	9.7
4	15	0.1034	32	60	109.6835		0.0000417	2.5	8.1
4	15	0.1034	33	60	109.6860		0.0000417	2.5	8.1
4	15	0.1034	34	60	109.6885		0.0000417	2.5	8.1
4	15	0.1034	35	60	109.6910		0.0000417	2.5	8.1
4	15	0.1034	36	60	109.6930		0.0000333	2	6.4
4	15	0.1034	37	60	109.6955		0.0000417	2.5	8.1
4	15	0.1034	38	60	109.6980		0.0000417	2.5	8.1
4	15	0.1034	39	60	109.7000		0.0000333	2	6.4
4	15	0.1034	40	60	109.7025		0.0000417	2.5	8.1
5	10	0.0689	41	60	109.7040		0.0000250	1.5	7.3
5	10	0.0689	42	60	109.7060		0.0000333	2	9.7
5	10	0.0689	43	60	109.7080		0.0000333	2	9.7
5	10	0.0689	44	60	109.7100		0.0000333	2	9.7
5	10	0.0689	45	60	109.7115		0.0000250	1.5	7.3
5	10	0.0689	46	60	109.7135		0.0000333	2	9.7
5	10	0.0689	47	60	109.7150		0.0000250	1.5	7.3
5	10	0.0689	48	60	109.7170		0.0000333	2	9.7
5	10	0.0689	49	60	109.7190		0.0000333	2	9.7
5	10	0.0689	50	60	109.7210		0.0000333	2	9.7

FIGURE D-3-1

BOREHOLE ID	BH77	DATE	30-Jan-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	35.50	mbtop	34.3 mbgs		
Upper Packer Depth	32.50	mbtop	31.3 mbgs		
Bedrock Stratigraphy	IRONDEQUOIT / ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	109.7240	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	20	0.1379	1	60	109.7240		0.0000000	0	0.0
1	20	0.1379	2	60	109.7240		0.0000000	0	0.0
1	20	0.1379	3	60	109.7240		0.0000000	0	0.0
1	20	0.1379	4	60	109.7240		0.0000000	0	0.0
1	20	0.1379	5	60	109.7240		0.0000000	0	0.0
1	20	0.1379	6	60	109.7240		0.0000000	0	0.0
1	20	0.1379	7	60	109.7240		0.0000000	0	0.0
1	20	0.1379	8	60	109.7240		0.0000000	0	0.0
1	20	0.1379	9	60	109.7240		0.0000000	0	0.0
1	20	0.1379	10	60	109.7240		0.0000000	0	0.0
2	30	0.2068	11	60	109.7240		0.0000000	0	0.0
2	30	0.2068	12	60	109.7240		0.0000000	0	0.0
2	30	0.2068	13	60	109.7240		0.0000000	0	0.0
2	30	0.2068	14	60	109.7240		0.0000000	0	0.0
2	30	0.2068	15	60	109.7240		0.0000000	0	0.0
2	30	0.2068	16	60	109.7240		0.0000000	0	0.0
2	30	0.2068	17	60	109.7240		0.0000000	0	0.0
2	30	0.2068	18	60	109.7240		0.0000000	0	0.0
2	30	0.2068	19	60	109.7240		0.0000000	0	0.0
2	30	0.2068	20	60	109.7240		0.0000000	0	0.0
3	40	0.2758	21	60	109.7240		0.0000000	0	0.0
3	40	0.2758	22	60	109.7240		0.0000000	0	0.0
3	40	0.2758	23	60	109.7240		0.0000000	0	0.0
3	40	0.2758	24	60	109.7240		0.0000000	0	0.0
3	40	0.2758	25	60	109.7240		0.0000000	0	0.0
3	40	0.2758	26	60	109.7240		0.0000000	0	0.0
3	40	0.2758	27	60	109.7240		0.0000000	0	0.0
3	40	0.2758	28	60	109.7240		0.0000000	0	0.0
3	40	0.2758	29	60	109.7240		0.0000000	0	0.0
3	40	0.2758	30	60	109.7240		0.0000000	0	0.0

FIGURE D-3-2

BOREHOLE ID	BH77	DATE	30-Jan-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	32.50	mbtop	31.3 mbgs		
Upper Packer Depth	29.50	mbtop	28.3 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	109.7240	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	109.7240		0.0000000	0	0.0
1	30	0.2068	2	60	109.7240		0.0000000	0	0.0
1	30	0.2068	3	60	109.7240		0.0000000	0	0.0
1	30	0.2068	4	60	109.7240		0.0000000	0	0.0
1	30	0.2068	5	60	109.7240		0.0000000	0	0.0
1	30	0.2068	6	60	109.7240		0.0000000	0	0.0
1	30	0.2068	7	60	109.7240		0.0000000	0	0.0
1	30	0.2068	8	60	109.7240		0.0000000	0	0.0
1	30	0.2068	9	60	109.7240		0.0000000	0	0.0
1	30	0.2068	10	60	109.7240		0.0000000	0	0.0
2	45	0.3103	11	60	109.7240		0.0000000	0	0.0
2	45	0.3103	12	60	109.7240		0.0000000	0	0.0
2	45	0.3103	13	60	109.7240		0.0000000	0	0.0
2	45	0.3103	14	60	109.7240		0.0000000	0	0.0
2	45	0.3103	15	60	109.7240		0.0000000	0	0.0
2	45	0.3103	16	60	109.7240		0.0000000	0	0.0
2	45	0.3103	17	60	109.7240		0.0000000	0	0.0
2	45	0.3103	18	60	109.7240		0.0000000	0	0.0
2	45	0.3103	19	60	109.7240		0.0000000	0	0.0
2	45	0.3103	20	60	109.7240		0.0000000	0	0.0
3	60	0.4137	21	60	109.7240		0.0000000	0	0.0
3	60	0.4137	22	60	109.7240		0.0000000	0	0.0
3	60	0.4137	23	60	109.7240		0.0000000	0	0.0
3	60	0.4137	24	60	109.7240		0.0000000	0	0.0
3	60	0.4137	25	60	109.7240		0.0000000	0	0.0
3	60	0.4137	26	60	109.7240		0.0000000	0	0.0
3	60	0.4137	27	60	109.7240		0.0000000	0	0.0
3	60	0.4137	28	60	109.7240		0.0000000	0	0.0
3	60	0.4137	29	60	109.7240		0.0000000	0	0.0
3	60	0.4137	30	60	109.7240		0.0000000	0	0.0

FIGURE D-3-3

BOREHOLE ID	BH77	DATE	30-Jan-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9	mbgs	-total volume used from tote ~ 200 L
Lower Packer Depth	29.50	mbtop	28.3	mbgs	
Upper Packer Depth	26.50	mbtop	25.3	mbgs	
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8	mbgs	
Totalizer (pre-test)	109.7240	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	109.7240	0.0000000	0	0.0
1	30	0.2068	2	60	109.7245	0.0000083	0.5	0.8
1	30	0.2068	3	60	109.7250	0.0000083	0.5	0.8
1	30	0.2068	4	60	109.7255	0.0000083	0.5	0.8
1	30	0.2068	5	60	109.7260	0.0000083	0.5	0.8
1	30	0.2068	6	60	109.7270	0.0000167	1	1.6
1	30	0.2068	7	60	109.7290	0.0000333	2	3.2
1	30	0.2068	8	60	109.7305	0.0000250	1.5	2.4
1	30	0.2068	9	60	109.7325	0.0000333	2	3.2
1	30	0.2068	10	60	109.7345	0.0000333	2	3.2
2	45	0.3103	11	60	109.7375	0.0000500	3	3.2
2	45	0.3103	12	60	109.7400	0.0000417	2.5	2.7
2	45	0.3103	13	60	109.7435	0.0000583	3.5	3.8
2	45	0.3103	14	60	109.7465	0.0000500	3	3.2
2	45	0.3103	15	60	109.7495	0.0000500	3	3.2
2	45	0.3103	16	60	109.7530	0.0000583	3.5	3.8
2	45	0.3103	17	60	109.7560	0.0000500	3	3.2
2	45	0.3103	18	60	109.7595	0.0000583	3.5	3.8
2	45	0.3103	19	60	109.7625	0.0000500	3	3.2
2	45	0.3103	20	60	109.7660	0.0000583	3.5	3.8
3	60	0.4137	21	60	109.7715	0.0000917	5.5	4.4
3	60	0.4137	22	60	109.7765	0.0000833	5	4.0
3	60	0.4137	23	60	109.7825	0.0001000	6	4.8
3	60	0.4137	24	60	109.7885	0.0001000	6	4.8
3	60	0.4137	25	60	109.7950	0.0001083	6.5	5.2
3	60	0.4137	26	60	109.8020	0.0001167	7	5.6
3	60	0.4137	27	60	109.8080	0.0001000	6	4.8
3	60	0.4137	28	60	109.8145	0.0001083	6.5	5.2
3	60	0.4137	29	60	109.8210	0.0001083	6.5	5.2
3	60	0.4137	30	60	109.8275	0.0001083	6.5	5.2
4	45	0.3103	31	60	109.8330	0.0000917	5.5	5.9
4	45	0.3103	32	60	109.8375	0.0000750	4.5	4.8
4	45	0.3103	33	60	109.8425	0.0000833	5	5.4
4	45	0.3103	34	60	109.8475	0.0000833	5	5.4
4	45	0.3103	35	60	109.8525	0.0000833	5	5.4
4	45	0.3103	36	60	109.8575	0.0000833	5	5.4
4	45	0.3103	37	60	109.8625	0.0000833	5	5.4
4	45	0.3103	38	60	109.8675	0.0000833	5	5.4
4	45	0.3103	39	60	109.8720	0.0000750	4.5	4.8
4	45	0.3103	40	60	109.8775	0.0000917	5.5	5.9
5	30	0.2068	41	60	109.8790	0.0000250	1.5	2.4
5	30	0.2068	42	60	109.8815	0.0000417	2.5	4.0
5	30	0.2068	43	60	109.8845	0.0000500	3	4.8
5	30	0.2068	44	60	109.8870	0.0000417	2.5	4.0
5	30	0.2068	45	60	109.8900	0.0000500	3	4.8
5	30	0.2068	46	60	109.8930	0.0000500	3	4.8
5	30	0.2068	47	60	109.8960	0.0000500	3	4.8
5	30	0.2068	48	60	109.8990	0.0000500	3	4.8
5	30	0.2068	49	60	109.9020	0.0000500	3	4.8
5	30	0.2068	50	60	109.9050	0.0000500	3	4.8

FIGURE D-3-4

BOREHOLE ID	BH77	DATE	03-Feb-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	26.50	mbtop	25.3 mbgs		
Upper Packer Depth	23.50	mbtop	22.3 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL		mbtop	-1.2 mbgs		
Totalizer (pre-test)	109.9100	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	109.9100	0.0000000	0	0.0
1	30	0.2068	2	60	109.9100	0.0000000	0	0.0
1	30	0.2068	3	60	109.9100	0.0000000	0	0.0
1	30	0.2068	4	60	109.9100	0.0000000	0	0.0
1	30	0.2068	5	60	109.9100	0.0000000	0	0.0
1	30	0.2068	6	60	109.9100	0.0000000	0	0.0
1	30	0.2068	7	60	109.9100	0.0000000	0	0.0
1	30	0.2068	8	60	109.9100	0.0000000	0	0.0
1	30	0.2068	9	60	109.9100	0.0000000	0	0.0
1	30	0.2068	10	60	109.9100	0.0000000	0	0.0
2	45	0.3103	11	60	109.9100	0.0000000	0	0.0
2	45	0.3103	12	60	109.9100	0.0000000	0	0.0
2	45	0.3103	13	60	109.9100	0.0000000	0	0.0
2	45	0.3103	14	60	109.9100	0.0000000	0	0.0
2	45	0.3103	15	60	109.9100	0.0000000	0	0.0
2	45	0.3103	16	60	109.9100	0.0000000	0	0.0
2	45	0.3103	17	60	109.9100	0.0000000	0	0.0
2	45	0.3103	18	60	109.9100	0.0000000	0	0.0
2	45	0.3103	19	60	109.9100	0.0000000	0	0.0
2	45	0.3103	20	60	109.9100	0.0000000	0	0.0
3	60	0.4137	21	60	109.9100	0.0000000	0	0.0
3	60	0.4137	22	60	109.9100	0.0000000	0	0.0
3	60	0.4137	23	60	109.9100	0.0000000	0	0.0
3	60	0.4137	24	60	109.9100	0.0000000	0	0.0
3	60	0.4137	25	60	109.9100	0.0000000	0	0.0
3	60	0.4137	26	60	109.9100	0.0000000	0	0.0
3	60	0.4137	27	60	109.9100	0.0000000	0	0.0
3	60	0.4137	28	60	109.9100	0.0000000	0	0.0
3	60	0.4137	29	60	109.9100	0.0000000	0	0.0
3	60	0.4137	30	60	109.9100	0.0000000	0	0.0

FIGURE D-3-5

BOREHOLE ID	BH77	DATE	03-Feb-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	23.50	mbtop	22.3 mbgs		
Upper Packer Depth	20.50	mbtop	19.3 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	109.9110	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	109.9110		0.0000000	0	0.0
1	30	0.2068	2	60	109.9110		0.0000000	0	0.0
1	30	0.2068	3	60	109.9110		0.0000000	0	0.0
1	30	0.2068	4	60	109.9110		0.0000000	0	0.0
1	30	0.2068	5	60	109.9110		0.0000000	0	0.0
1	30	0.2068	6	60	109.9110		0.0000000	0	0.0
1	30	0.2068	7	60	109.9110		0.0000000	0	0.0
1	30	0.2068	8	60	109.9110		0.0000000	0	0.0
1	30	0.2068	9	60	109.9110		0.0000000	0	0.0
1	30	0.2068	10	60	109.9110		0.0000000	0	0.0
2	45	0.3103	11	60	109.9110		0.0000000	0	0.0
2	45	0.3103	12	60	109.9110		0.0000000	0	0.0
2	45	0.3103	13	60	109.9110		0.0000000	0	0.0
2	45	0.3103	14	60	109.9110		0.0000000	0	0.0
2	45	0.3103	15	60	109.9110		0.0000000	0	0.0
2	45	0.3103	16	60	109.9110		0.0000000	0	0.0
2	45	0.3103	17	60	109.9110		0.0000000	0	0.0
2	45	0.3103	18	60	109.9110		0.0000000	0	0.0
2	45	0.3103	19	60	109.9110		0.0000000	0	0.0
2	45	0.3103	20	60	109.9110		0.0000000	0	0.0
3	60	0.4137	21	60	109.9110		0.0000000	0	0.0
3	60	0.4137	22	60	109.9110		0.0000000	0	0.0
3	60	0.4137	23	60	109.9110		0.0000000	0	0.0
3	60	0.4137	24	60	109.9110		0.0000000	0	0.0
3	60	0.4137	25	60	109.9110		0.0000000	0	0.0
3	60	0.4137	26	60	109.9110		0.0000000	0	0.0
3	60	0.4137	27	60	109.9110		0.0000000	0	0.0
3	60	0.4137	28	60	109.9110		0.0000000	0	0.0
3	60	0.4137	29	60	109.9110		0.0000000	0	0.0
3	60	0.4137	30	60	109.9110		0.0000000	0	0.0

FIGURE D-3-6

BOREHOLE ID	BH77	DATE	03-Feb-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 100 L	
Lower Packer Depth	20.50	mbtop	19.3 mbgs		
Upper Packer Depth	17.50	mbtop	16.3 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	109.9110	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	109.9110		0.0000000	0	0.0
1	30	0.2068	2	60	109.9110		0.0000000	0	0.0
1	30	0.2068	3	60	109.9120		0.0000167	1	1.6
1	30	0.2068	4	60	109.9130		0.0000167	1	1.6
1	30	0.2068	5	60	109.9145		0.0000250	1.5	2.4
1	30	0.2068	6	60	109.9155		0.0000167	1	1.6
1	30	0.2068	7	60	109.9170		0.0000250	1.5	2.4
1	30	0.2068	8	60	109.9180		0.0000167	1	1.6
1	30	0.2068	9	60	109.9190		0.0000167	1	1.6
1	30	0.2068	10	60	109.9200		0.0000167	1	1.6
2	45	0.3103	11	60	109.9225		0.0000417	2.5	2.7
2	45	0.3103	12	60	109.9240		0.0000250	1.5	1.6
2	45	0.3103	13	60	109.9260		0.0000333	2	2.1
2	45	0.3103	14	60	109.9275		0.0000250	1.5	1.6
2	45	0.3103	15	60	109.9295		0.0000333	2	2.1
2	45	0.3103	16	60	109.9310		0.0000250	1.5	1.6
2	45	0.3103	17	60	109.9330		0.0000333	2	2.1
2	45	0.3103	18	60	109.9345		0.0000250	1.5	1.6
2	45	0.3103	19	60	109.9360		0.0000250	1.5	1.6
2	45	0.3103	20	60	109.9380		0.0000333	2	2.1
3	60	0.4137	21	60	109.9410		0.0000500	3	2.4
3	60	0.4137	22	60	109.9435		0.0000417	2.5	2.0
3	60	0.4137	23	60	109.9460		0.0000417	2.5	2.0
3	60	0.4137	24	60	109.9485		0.0000417	2.5	2.0
3	60	0.4137	25	60	109.9510		0.0000417	2.5	2.0
3	60	0.4137	26	60	109.9535		0.0000417	2.5	2.0
3	60	0.4137	27	60	109.9560		0.0000417	2.5	2.0
3	60	0.4137	28	60	109.9590		0.0000500	3	2.4
3	60	0.4137	29	60	109.9615		0.0000417	2.5	2.0
3	60	0.4137	30	60	109.9640		0.0000417	2.5	2.0
4	45	0.3103	31	60	109.9660		0.0000333	2	2.1
4	45	0.3103	32	60	109.9680		0.0000333	2	2.1
4	45	0.3103	33	60	109.9710		0.0000500	3	3.2
4	45	0.3103	34	60	109.9720		0.0000167	1	1.1
4	45	0.3103	35	60	109.9740		0.0000333	2	2.1
4	45	0.3103	36	60	109.9760		0.0000333	2	2.1
4	45	0.3103	37	60	109.9780		0.0000333	2	2.1
4	45	0.3103	38	60	109.9800		0.0000333	2	2.1
4	45	0.3103	39	60	109.9820		0.0000333	2	2.1
4	45	0.3103	40	60	109.9840		0.0000333	2	2.1
5	30	0.2068	41	60	109.9855		0.0000250	1.5	2.4
5	30	0.2068	42	60	109.9870		0.0000250	1.5	2.4
5	30	0.2068	43	60	109.9890		0.0000333	2	3.2
5	30	0.2068	44	60	109.9905		0.0000250	1.5	2.4
5	30	0.2068	45	60	109.9920		0.0000250	1.5	2.4
5	30	0.2068	46	60	109.9940		0.0000333	2	3.2
5	30	0.2068	47	60	109.9955		0.0000250	1.5	2.4
5	30	0.2068	48	60	109.9970		0.0000250	1.5	2.4
5	30	0.2068	49	60	109.9990		0.0000333	2	3.2
5	30	0.2068	50	60	110.0005		0.0000250	1.5	2.4

FIGURE D-3-7

BOREHOLE ID	BH77	DATE	03-Feb-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 300 L	
Lower Packer Depth	17.50	mbtop	16.3 mbgs		
Upper Packer Depth	14.50	mbtop	13.3 mbgs		
Bedrock Stratigraphy	ROCHESTER / DECEW				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	110.0050	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	110.0095		0.0000750	4.5	7.3
1	30	0.2068	2	60	110.0130		0.0000583	3.5	5.6
1	30	0.2068	3	60	110.0160		0.0000500	3	4.8
1	30	0.2068	4	60	110.0190		0.0000500	3	4.8
1	30	0.2068	5	60	110.0225		0.0000583	3.5	5.6
1	30	0.2068	6	60	110.0260		0.0000583	3.5	5.6
1	30	0.2068	7	60	110.0290		0.0000500	3	4.8
1	30	0.2068	8	60	110.0320		0.0000500	3	4.8
1	30	0.2068	9	60	110.0355		0.0000583	3.5	5.6
1	30	0.2068	10	60	110.0385		0.0000500	3	4.8
2	45	0.3103	11	60	110.0425		0.0000667	4	4.3
2	45	0.3103	12	60	110.0470		0.0000750	4.5	4.8
2	45	0.3103	13	60	110.0510		0.0000667	4	4.3
2	45	0.3103	14	60	110.0555		0.0000750	4.5	4.8
2	45	0.3103	15	60	110.0595		0.0000667	4	4.3
2	45	0.3103	16	60	110.0640		0.0000750	4.5	4.8
2	45	0.3103	17	60	110.0680		0.0000667	4	4.3
2	45	0.3103	18	60	110.0720		0.0000667	4	4.3
2	45	0.3103	19	60	110.0760		0.0000667	4	4.3
2	45	0.3103	20	60	110.0800		0.0000667	4	4.3
3	60	0.4137	21	60	110.0870		0.0001167	7	5.6
3	60	0.4137	22	60	110.0930		0.0001000	6	4.8
3	60	0.4137	23	60	110.0995		0.0001083	6.5	5.2
3	60	0.4137	24	60	110.1055		0.0001000	6	4.8
3	60	0.4137	25	60	110.1115		0.0001000	6	4.8
3	60	0.4137	26	60	110.1170		0.0000917	5.5	4.4
3	60	0.4137	27	60	110.1230		0.0001000	6	4.8
3	60	0.4137	28	60	110.1285		0.0000917	5.5	4.4
3	60	0.4137	29	60	110.1345		0.0001000	6	4.8
3	60	0.4137	30	60	110.1400		0.0000917	5.5	4.4
4	45	0.3103	31	60	110.1440		0.0000667	4	4.3
4	45	0.3103	32	60	110.1490		0.0000833	5	5.4
4	45	0.3103	33	60	110.1530		0.0000667	4	4.3
4	45	0.3103	34	60	110.1575		0.0000750	4.5	4.8
4	45	0.3103	35	60	110.1620		0.0000750	4.5	4.8
4	45	0.3103	36	60	110.1660		0.0000667	4	4.3
4	45	0.3103	37	60	110.1700		0.0000667	4	4.3
4	45	0.3103	38	60	110.1745		0.0000750	4.5	4.8
4	45	0.3103	39	60	110.1785		0.0000667	4	4.3
4	45	0.3103	40	60	110.1825		0.0000667	4	4.3
5	30	0.2068	41	60	110.1850		0.0000417	2.5	4.0
5	30	0.2068	42	60	110.1875		0.0000417	2.5	4.0
5	30	0.2068	43	60	110.1905		0.0000500	3	4.8
5	30	0.2068	44	60	110.1930		0.0000417	2.5	4.0
5	30	0.2068	45	60	110.1960		0.0000500	3	4.8
5	30	0.2068	46	60	110.1985		0.0000417	2.5	4.0
5	30	0.2068	47	60	110.2015		0.0000500	3	4.8
5	30	0.2068	48	60	110.2040		0.0000417	2.5	4.0
5	30	0.2068	49	60	110.2065		0.0000417	2.5	4.0
5	30	0.2068	50	60	110.2095		0.0000500	3	4.8

FIGURE D-3-8

BOREHOLE ID	BH77	DATE	03-Feb-25	STAFF:	JD
Stickup	1.20	mags			
EOH	37.10	mbtop	35.9 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	14.50	mbtop	13.3 mbgs		
Upper Packer Depth	11.50	mbtop	10.3 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL	6.99	mbtop	5.8 mbgs		
Totalizer (pre-test)	110.2130	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	110.2130		0.0000000	0	0.0
1	30	0.2068	2	60	110.2130		0.0000000	0	0.0
1	30	0.2068	3	60	110.2130		0.0000000	0	0.0
1	30	0.2068	4	60	110.2130		0.0000000	0	0.0
1	30	0.2068	5	60	110.2130		0.0000000	0	0.0
1	30	0.2068	6	60	110.2130		0.0000000	0	0.0
1	30	0.2068	7	60	110.2130		0.0000000	0	0.0
1	30	0.2068	8	60	110.2130		0.0000000	0	0.0
1	30	0.2068	9	60	110.2130		0.0000000	0	0.0
1	30	0.2068	10	60	110.2130		0.0000000	0	0.0
2	45	0.3103	11	60	110.2140		0.0000167	1	1.1
2	45	0.3103	12	60	110.2140		0.0000000	0	0.0
2	45	0.3103	13	60	110.2140		0.0000000	0	0.0
2	45	0.3103	14	60	110.2140		0.0000000	0	0.0
2	45	0.3103	15	60	110.2140		0.0000000	0	0.0
2	45	0.3103	16	60	110.2145		0.0000083	0.5	0.5
2	45	0.3103	17	60	110.2145		0.0000000	0	0.0
2	45	0.3103	18	60	110.2145		0.0000000	0	0.0
2	45	0.3103	19	60	110.2145		0.0000000	0	0.0
2	45	0.3103	20	60	110.2150		0.0000083	0.5	0.5
3	60	0.4137	21	60	110.2165		0.0000250	1.5	1.2
3	60	0.4137	22	60	110.2165		0.0000000	0	0.0
3	60	0.4137	23	60	110.2165		0.0000000	0	0.0
3	60	0.4137	24	60	110.2170		0.0000083	0.5	0.4
3	60	0.4137	25	60	110.2170		0.0000000	0	0.0
3	60	0.4137	26	60	110.2170		0.0000000	0	0.0
3	60	0.4137	27	60	110.2175		0.0000083	0.5	0.4
3	60	0.4137	28	60	110.2180		0.0000083	0.5	0.4
3	60	0.4137	29	60	110.2185		0.0000083	0.5	0.4
3	60	0.4137	30	60	110.2190		0.0000083	0.5	0.4
4	45	0.3103	31	60	110.2210		0.0000333	2	2.1
4	45	0.3103	32	60	110.2210		0.0000000	0	0.0
4	45	0.3103	33	60	110.2215		0.0000083	0.5	0.5
4	45	0.3103	34	60	110.2220		0.0000083	0.5	0.5
4	45	0.3103	35	60	110.2225		0.0000083	0.5	0.5
4	45	0.3103	36	60	110.2230		0.0000083	0.5	0.5
4	45	0.3103	37	60	110.2230		0.0000000	0	0.0
4	45	0.3103	38	60	110.2235		0.0000083	0.5	0.5
4	45	0.3103	39	60	110.2240		0.0000083	0.5	0.5
4	45	0.3103	40	60	110.2245		0.0000083	0.5	0.5
5	30	0.2068	41	60	110.2250		0.0000083	0.5	0.8
5	30	0.2068	42	60	110.2250		0.0000000	0	0.0
5	30	0.2068	43	60	110.2250		0.0000000	0	0.0
5	30	0.2068	44	60	110.2250		0.0000000	0	0.0
5	30	0.2068	45	60	110.2250		0.0000000	0	0.0
5	30	0.2068	46	60	110.2255		0.0000083	0.5	0.8
5	30	0.2068	47	60	110.2255		0.0000000	0	0.0
5	30	0.2068	48	60	110.2260		0.0000083	0.5	0.8
5	30	0.2068	49	60	110.2260		0.0000000	0	0.0
5	30	0.2068	50	60	110.2265		0.0000083	0.5	0.8

FIGURE D-4-1

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	38.80	mbtop	37.6 mbgs		
Upper Packer Depth	35.80	mbtop	34.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	110.2350	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	110.2350	0.0000000	0	0.0
1	30	0.2068	2	60	110.2350	0.0000000	0	0.0
1	30	0.2068	3	60	110.2350	0.0000000	0	0.0
1	30	0.2068	4	60	110.2350	0.0000000	0	0.0
1	30	0.2068	5	60	110.2350	0.0000000	0	0.0
1	30	0.2068	6	60	110.2350	0.0000000	0	0.0
1	30	0.2068	7	60	110.2350	0.0000000	0	0.0
1	30	0.2068	8	60	110.2350	0.0000000	0	0.0
1	30	0.2068	9	60	110.2350	0.0000000	0	0.0
1	30	0.2068	10	60	110.2350	0.0000000	0	0.0
2	45	0.3103	11	60	110.2365	0.0000250	1.5	1.6
2	45	0.3103	12	60	110.2365	0.0000000	0	0.0
2	45	0.3103	13	60	110.2365	0.0000000	0	0.0
2	45	0.3103	14	60	110.2365	0.0000000	0	0.0
2	45	0.3103	15	60	110.2365	0.0000000	0	0.0
2	45	0.3103	16	60	110.2365	0.0000000	0	0.0
2	45	0.3103	17	60	110.2365	0.0000000	0	0.0
2	45	0.3103	18	60	110.2365	0.0000000	0	0.0
2	45	0.3103	19	60	110.2365	0.0000000	0	0.0
2	45	0.3103	20	60	110.2365	0.0000000	0	0.0
3	60	0.4137	21	60	110.2410	0.0000750	4.5	3.6
3	60	0.4137	22	60	110.2410	0.0000000	0	0.0
3	60	0.4137	23	60	110.2410	0.0000000	0	0.0
3	60	0.4137	24	60	110.2410	0.0000000	0	0.0
3	60	0.4137	25	60	110.2410	0.0000000	0	0.0
3	60	0.4137	26	60	110.2410	0.0000000	0	0.0
3	60	0.4137	27	60	110.2415	0.0000083	0.5	0.4
3	60	0.4137	28	60	110.2420	0.0000083	0.5	0.4
3	60	0.4137	29	60	110.2425	0.0000083	0.5	0.4
3	60	0.4137	30	60	110.2430	0.0000083	0.5	0.4

FIGURE D-4-2

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 800 L	
Lower Packer Depth	35.80	mbtop	34.6 mbgs		
Upper Packer Depth	32.80	mbtop	31.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	110.2640	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	110.2720		0.0001333	8	12.9
1	30	0.2068	2	60	110.2825		0.0001750	10.5	16.9
1	30	0.2068	3	60	110.2930		0.0001750	10.5	16.9
1	30	0.2068	4	60	110.3035		0.0001750	10.5	16.9
1	30	0.2068	5	60	110.3145		0.0001833	11	17.7
1	30	0.2068	6	60	110.3260		0.0001917	11.5	18.5
1	30	0.2068	7	60	110.3370		0.0001833	11	17.7
1	30	0.2068	8	60	110.3480		0.0001833	11	17.7
1	30	0.2068	9	60	110.3595		0.0001917	11.5	18.5
1	30	0.2068	10	60	110.3710		0.0001917	11.5	18.5
2	45	0.3103	11	60	110.3850		0.0002333	14	15.0
2	45	0.3103	12	60	110.4020		0.0002833	17	18.3
2	45	0.3103	13	60	110.4190		0.0002833	17	18.3
2	45	0.3103	14	60	110.4360		0.0002833	17	18.3
2	45	0.3103	15	60	110.4530		0.0002833	17	18.3
2	45	0.3103	16	60	110.4700		0.0002833	17	18.3
2	45	0.3103	17	60	110.4870		0.0002833	17	18.3
2	45	0.3103	18	60	110.5050		0.0003000	18	19.3
2	45	0.3103	19	60	110.5220		0.0002833	17	18.3
2	45	0.3103	20	60	110.5400		0.0003000	18	19.3
3	60	0.4137	21	60	110.5595		0.0003250	19.5	15.7
3	60	0.4137	22	60	110.5810		0.0003583	21.5	17.3
3	60	0.4137	23	60	110.6010		0.0003333	20	16.1
3	60	0.4137	24	60	110.6230		0.0003667	22	17.7
3	60	0.4137	25	60	110.6440		0.0003500	21	16.9
3	60	0.4137	26	60	110.6650		0.0003500	21	16.9
3	60	0.4137	27	60	110.6860		0.0003500	21	16.9
3	60	0.4137	28	60	110.7070		0.0003500	21	16.9
3	60	0.4137	29	60	110.7300		0.0003833	23	18.5
3	60	0.4137	30	60	110.7510		0.0003500	21	16.9
4	45	0.3103	31	60	110.7725		0.0003583	21.5	23.1
4	45	0.3103	32	60	110.7900		0.0002917	17.5	18.8
4	45	0.3103	33	60	110.8100		0.0003333	20	21.5
4	45	0.3103	34	60	110.8275		0.0002917	17.5	18.8
4	45	0.3103	35	60	110.8460		0.0003083	18.5	19.9
4	45	0.3103	36	60	110.8645		0.0003083	18.5	19.9
4	45	0.3103	37	60	110.8830		0.0003083	18.5	19.9
4	45	0.3103	38	60	110.9020		0.0003167	19	20.4
4	45	0.3103	39	60	110.9210		0.0003167	19	20.4
4	45	0.3103	40	60	110.9395		0.0003083	18.5	19.9
5	30	0.2068	41	60	110.9540		0.0002417	14.5	23.4
5	30	0.2068	42	60	110.9665		0.0002083	12.5	20.1
5	30	0.2068	43	60	110.9795		0.0002167	13	20.9
5	30	0.2068	44	60	110.9910		0.0001917	11.5	18.5
5	30	0.2068	45	60	111.0030		0.0002000	12	19.3
5	30	0.2068	46	60	111.0145		0.0001917	11.5	18.5
5	30	0.2068	47	60	111.0265		0.0002000	12	19.3
5	30	0.2068	48	60	111.0380		0.0001917	11.5	18.5
5	30	0.2068	49	60	111.0495		0.0001917	11.5	18.5
5	30	0.2068	50	60	111.0610		0.0001917	11.5	18.5

FIGURE D-4-3

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	32.80	mbtop	31.6 mbgs		
Upper Packer Depth	29.80	mbtop	28.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.1440	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	111.1440	0.0000000	0	0.0
1	30	0.2068	2	60	111.1440	0.0000000	0	0.0
1	30	0.2068	3	60	111.1440	0.0000000	0	0.0
1	30	0.2068	4	60	111.1440	0.0000000	0	0.0
1	30	0.2068	5	60	111.1440	0.0000000	0	0.0
1	30	0.2068	6	60	111.1440	0.0000000	0	0.0
1	30	0.2068	7	60	111.1440	0.0000000	0	0.0
1	30	0.2068	8	60	111.1440	0.0000000	0	0.0
1	30	0.2068	9	60	111.1440	0.0000000	0	0.0
1	30	0.2068	10	60	111.1440	0.0000000	0	0.0
2	45	0.3103	11	60	111.1470	0.0000500	3	3.2
2	45	0.3103	12	60	111.1470	0.0000000	0	0.0
2	45	0.3103	13	60	111.1470	0.0000000	0	0.0
2	45	0.3103	14	60	111.1470	0.0000000	0	0.0
2	45	0.3103	15	60	111.1470	0.0000000	0	0.0
2	45	0.3103	16	60	111.1470	0.0000000	0	0.0
2	45	0.3103	17	60	111.1470	0.0000000	0	0.0
2	45	0.3103	18	60	111.1470	0.0000000	0	0.0
2	45	0.3103	19	60	111.1470	0.0000000	0	0.0
2	45	0.3103	20	60	111.1470	0.0000000	0	0.0
3	60	0.4137	21	60	111.1470	0.0000000	0	0.0
3	60	0.4137	22	60	111.1470	0.0000000	0	0.0
3	60	0.4137	23	60	111.1470	0.0000000	0	0.0
3	60	0.4137	24	60	111.1470	0.0000000	0	0.0
3	60	0.4137	25	60	111.1470	0.0000000	0	0.0
3	60	0.4137	26	60	111.1470	0.0000000	0	0.0
3	60	0.4137	27	60	111.1470	0.0000000	0	0.0
3	60	0.4137	28	60	111.1470	0.0000000	0	0.0
3	60	0.4137	29	60	111.1470	0.0000000	0	0.0
3	60	0.4137	30	60	111.1470	0.0000000	0	0.0

FIGURE D-4-4

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	29.80	mbtop	28.6 mbgs		
Upper Packer Depth	26.80	mbtop	25.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.1540	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	111.1540	0.0000000	0	0.0
1	30	0.2068	2	60	111.1540	0.0000000	0	0.0
1	30	0.2068	3	60	111.1540	0.0000000	0	0.0
1	30	0.2068	4	60	111.1540	0.0000000	0	0.0
1	30	0.2068	5	60	111.1540	0.0000000	0	0.0
1	30	0.2068	6	60	111.1540	0.0000000	0	0.0
1	30	0.2068	7	60	111.1540	0.0000000	0	0.0
1	30	0.2068	8	60	111.1540	0.0000000	0	0.0
1	30	0.2068	9	60	111.1540	0.0000000	0	0.0
1	30	0.2068	10	60	111.1540	0.0000000	0	0.0
2	45	0.3103	11	60	111.1540	0.0000000	0	0.0
2	45	0.3103	12	60	111.1540	0.0000000	0	0.0
2	45	0.3103	13	60	111.1540	0.0000000	0	0.0
2	45	0.3103	14	60	111.1540	0.0000000	0	0.0
2	45	0.3103	15	60	111.1540	0.0000000	0	0.0
2	45	0.3103	16	60	111.1540	0.0000000	0	0.0
2	45	0.3103	17	60	111.1540	0.0000000	0	0.0
2	45	0.3103	18	60	111.1540	0.0000000	0	0.0
2	45	0.3103	19	60	111.1540	0.0000000	0	0.0
2	45	0.3103	20	60	111.1540	0.0000000	0	0.0
3	60	0.4137	21	60	111.1540	0.0000000	0	0.0
3	60	0.4137	22	60	111.1540	0.0000000	0	0.0
3	60	0.4137	23	60	111.1540	0.0000000	0	0.0
3	60	0.4137	24	60	111.1540	0.0000000	0	0.0
3	60	0.4137	25	60	111.1540	0.0000000	0	0.0
3	60	0.4137	26	60	111.1540	0.0000000	0	0.0
3	60	0.4137	27	60	111.1540	0.0000000	0	0.0
3	60	0.4137	28	60	111.1540	0.0000000	0	0.0
3	60	0.4137	29	60	111.1540	0.0000000	0	0.0
3	60	0.4137	30	60	111.1540	0.0000000	0	0.0

FIGURE D-4-5

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	26.80	mbtop	25.6 mbgs		
Upper Packer Depth	23.80	mbtop	22.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.1600	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	111.1645		0.0000750	4.5	7.3
1	30	0.2068	2	60	111.1680		0.0000583	3.5	5.6
1	30	0.2068	3	60	111.1715		0.0000583	3.5	5.6
1	30	0.2068	4	60	111.1750		0.0000583	3.5	5.6
1	30	0.2068	5	60	111.1780		0.0000500	3	4.8
1	30	0.2068	6	60	111.1810		0.0000500	3	4.8
1	30	0.2068	7	60	111.1845		0.0000583	3.5	5.6
1	30	0.2068	8	60	111.1880		0.0000583	3.5	5.6
1	30	0.2068	9	60	111.1910		0.0000500	3	4.8
1	30	0.2068	10	60	111.1940		0.0000500	3	4.8
2	45	0.3103	11	60	111.1990		0.0000833	5	5.4
2	45	0.3103	12	60	111.2025		0.0000583	3.5	3.8
2	45	0.3103	13	60	111.2060		0.0000583	3.5	3.8
2	45	0.3103	14	60	111.2100		0.0000667	4	4.3
2	45	0.3103	15	60	111.2140		0.0000667	4	4.3
2	45	0.3103	16	60	111.2180		0.0000667	4	4.3
2	45	0.3103	17	60	111.2220		0.0000667	4	4.3
2	45	0.3103	18	60	111.2260		0.0000667	4	4.3
2	45	0.3103	19	60	111.2300		0.0000667	4	4.3
2	45	0.3103	20	60	111.2340		0.0000667	4	4.3
3	60	0.4137	21	60	111.2395		0.0000917	5.5	4.4
3	60	0.4137	22	60	111.2445		0.0000833	5	4.0
3	60	0.4137	23	60	111.2490		0.0000750	4.5	3.6
3	60	0.4137	24	60	111.2535		0.0000750	4.5	3.6
3	60	0.4137	25	60	111.2580		0.0000750	4.5	3.6
3	60	0.4137	26	60	111.2630		0.0000833	5	4.0
3	60	0.4137	27	60	111.2680		0.0000833	5	4.0
3	60	0.4137	28	60	111.2730		0.0000833	5	4.0
3	60	0.4137	29	60	111.2780		0.0000833	5	4.0
3	60	0.4137	30	60	111.2820		0.0000667	4	3.2
4	45	0.3103	31	60	111.2850		0.0000500	3	3.2
4	45	0.3103	32	60	111.2880		0.0000500	3	3.2
4	45	0.3103	33	60	111.2915		0.0000583	3.5	3.8
4	45	0.3103	34	60	111.2950		0.0000583	3.5	3.8
4	45	0.3103	35	60	111.2985		0.0000583	3.5	3.8
4	45	0.3103	36	60	111.3020		0.0000583	3.5	3.8
4	45	0.3103	37	60	111.3050		0.0000500	3	3.2
4	45	0.3103	38	60	111.3090		0.0000667	4	4.3
4	45	0.3103	39	60	111.3120		0.0000500	3	3.2
4	45	0.3103	40	60	111.3160		0.0000667	4	4.3
5	30	0.2068	41	60	111.3180		0.0000333	2	3.2
5	30	0.2068	42	60	111.3195		0.0000250	1.5	2.4
5	30	0.2068	43	60	111.3220		0.0000417	2.5	4.0
5	30	0.2068	44	60	111.3250		0.0000500	3	4.8
5	30	0.2068	45	60	111.3270		0.0000333	2	3.2
5	30	0.2068	46	60	111.3305		0.0000583	3.5	5.6
5	30	0.2068	47	60	111.3330		0.0000417	2.5	4.0
5	30	0.2068	48	60	111.3355		0.0000417	2.5	4.0
5	30	0.2068	49	60	111.3380		0.0000417	2.5	4.0
5	30	0.2068	50	60	111.3410		0.0000500	3	4.8

FIGURE D-4-6

BOREHOLE ID	BH78	DATE	12-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	23.80	mbtop	22.6 mbgs		
Upper Packer Depth	20.80	mbtop	19.6 mbgs		
Bedrock Stratigraphy	ROCHESTER / DECEW				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.3520	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	111.3520	0.0000000	0	0.0
1	30	0.2068	2	60	111.3520	0.0000000	0	0.0
1	30	0.2068	3	60	111.3520	0.0000000	0	0.0
1	30	0.2068	4	60	111.3520	0.0000000	0	0.0
1	30	0.2068	5	60	111.3520	0.0000000	0	0.0
1	30	0.2068	6	60	111.3520	0.0000000	0	0.0
1	30	0.2068	7	60	111.3520	0.0000000	0	0.0
1	30	0.2068	8	60	111.3520	0.0000000	0	0.0
1	30	0.2068	9	60	111.3520	0.0000000	0	0.0
1	30	0.2068	10	60	111.3520	0.0000000	0	0.0
2	45	0.3103	11	60	111.3520	0.0000000	0	0.0
2	45	0.3103	12	60	111.3520	0.0000000	0	0.0
2	45	0.3103	13	60	111.3520	0.0000000	0	0.0
2	45	0.3103	14	60	111.3520	0.0000000	0	0.0
2	45	0.3103	15	60	111.3520	0.0000000	0	0.0
2	45	0.3103	16	60	111.3520	0.0000000	0	0.0
2	45	0.3103	17	60	111.3520	0.0000000	0	0.0
2	45	0.3103	18	60	111.3520	0.0000000	0	0.0
2	45	0.3103	19	60	111.3520	0.0000000	0	0.0
2	45	0.3103	20	60	111.3520	0.0000000	0	0.0
3	60	0.4137	21	60	111.3520	0.0000000	0	0.0
3	60	0.4137	22	60	111.3520	0.0000000	0	0.0
3	60	0.4137	23	60	111.3520	0.0000000	0	0.0
3	60	0.4137	24	60	111.3520	0.0000000	0	0.0
3	60	0.4137	25	60	111.3520	0.0000000	0	0.0
3	60	0.4137	26	60	111.3520	0.0000000	0	0.0
3	60	0.4137	27	60	111.3520	0.0000000	0	0.0
3	60	0.4137	28	60	111.3520	0.0000000	0	0.0
3	60	0.4137	29	60	111.3520	0.0000000	0	0.0
3	60	0.4137	30	60	111.3520	0.0000000	0	0.0

FIGURE D-4-7

BOREHOLE ID	BH78	DATE	13-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 200 L	
Lower Packer Depth	20.80	mbtop	19.6 mbgs		
Upper Packer Depth	17.80	mbtop	16.6 mbgs		
Bedrock Stratigraphy	DECEW / GASPORT				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.3780	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	111.3780	0.0000000	0	0.0
1	30	0.2068	2	60	111.3780	0.0000000	0	0.0
1	30	0.2068	3	60	111.3780	0.0000000	0	0.0
1	30	0.2068	4	60	111.3780	0.0000000	0	0.0
1	30	0.2068	5	60	111.3780	0.0000000	0	0.0
1	30	0.2068	6	60	111.3780	0.0000000	0	0.0
1	30	0.2068	7	60	111.3780	0.0000000	0	0.0
1	30	0.2068	8	60	111.3780	0.0000000	0	0.0
1	30	0.2068	9	60	111.3780	0.0000000	0	0.0
1	30	0.2068	10	60	111.3780	0.0000000	0	0.0
2	45	0.3103	11	60	111.3780	0.0000000	0	0.0
2	45	0.3103	12	60	111.3780	0.0000000	0	0.0
2	45	0.3103	13	60	111.3780	0.0000000	0	0.0
2	45	0.3103	14	60	111.3780	0.0000000	0	0.0
2	45	0.3103	15	60	111.3780	0.0000000	0	0.0
2	45	0.3103	16	60	111.3780	0.0000000	0	0.0
2	45	0.3103	17	60	111.3780	0.0000000	0	0.0
2	45	0.3103	18	60	111.3780	0.0000000	0	0.0
2	45	0.3103	19	60	111.3780	0.0000000	0	0.0
2	45	0.3103	20	60	111.3780	0.0000000	0	0.0
3	60	0.4137	21	60	111.3780	0.0000000	0	0.0
3	60	0.4137	22	60	111.3780	0.0000000	0	0.0
3	60	0.4137	23	60	111.3780	0.0000000	0	0.0
3	60	0.4137	24	60	111.3780	0.0000000	0	0.0
3	60	0.4137	25	60	111.3780	0.0000000	0	0.0
3	60	0.4137	26	60	111.3780	0.0000000	0	0.0
3	60	0.4137	27	60	111.3780	0.0000000	0	0.0
3	60	0.4137	28	60	111.3780	0.0000000	0	0.0
3	60	0.4137	29	60	111.3780	0.0000000	0	0.0
3	60	0.4137	30	60	111.3780	0.0000000	0	0.0

FIGURE D-4-8

BOREHOLE ID	BH78	DATE	13-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 100 L	
Lower Packer Depth	17.80	mbtop	16.6 mbgs		
Upper Packer Depth	14.80	mbtop	13.6 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.3980	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	111.3980		0.0000000	0	0.0
1	30	0.2068	2	60	111.3990		0.0000167	1	1.6
1	30	0.2068	3	60	111.3990		0.0000000	0	0.0
1	30	0.2068	4	60	111.3990		0.0000000	0	0.0
1	30	0.2068	5	60	111.3990		0.0000000	0	0.0
1	30	0.2068	6	60	111.4000		0.0000167	1	1.6
1	30	0.2068	7	60	111.4000		0.0000000	0	0.0
1	30	0.2068	8	60	111.4010		0.0000167	1	1.6
1	30	0.2068	9	60	111.4010		0.0000000	0	0.0
1	30	0.2068	10	60	111.4010		0.0000000	0	0.0
2	45	0.3103	11	60	111.4040		0.0000500	3	3.2
2	45	0.3103	12	60	111.4060		0.0000333	2	2.1
2	45	0.3103	13	60	111.4060		0.0000000	0	0.0
2	45	0.3103	14	60	111.4070		0.0000167	1	1.1
2	45	0.3103	15	60	111.4090		0.0000333	2	2.1
2	45	0.3103	16	60	111.4100		0.0000167	1	1.1
2	45	0.3103	17	60	111.4110		0.0000167	1	1.1
2	45	0.3103	18	60	111.4130		0.0000333	2	2.1
2	45	0.3103	19	60	111.4140		0.0000167	1	1.1
2	45	0.3103	20	60	111.4150		0.0000167	1	1.1
3	60	0.4137	21	60	111.4190		0.0000667	4	3.2
3	60	0.4137	22	60	111.4220		0.0000500	3	2.4
3	60	0.4137	23	60	111.4250		0.0000500	3	2.4
3	60	0.4137	24	60	111.4270		0.0000333	2	1.6
3	60	0.4137	25	60	111.4310		0.0000667	4	3.2
3	60	0.4137	26	60	111.4340		0.0000500	3	2.4
3	60	0.4137	27	60	111.4370		0.0000500	3	2.4
3	60	0.4137	28	60	111.4400		0.0000500	3	2.4
3	60	0.4137	29	60	111.4440		0.0000667	4	3.2
3	60	0.4137	30	60	111.4470		0.0000500	3	2.4
4	45	0.3103	31	60	111.4470		0.0000000	0	0.0
4	45	0.3103	32	60	111.4490		0.0000333	2	2.1
4	45	0.3103	33	60	111.4510		0.0000333	2	2.1
4	45	0.3103	34	60	111.4530		0.0000333	2	2.1
4	45	0.3103	35	60	111.4540		0.0000167	1	1.1
4	45	0.3103	36	60	111.4560		0.0000333	2	2.1
4	45	0.3103	37	60	111.4580		0.0000333	2	2.1
4	45	0.3103	38	60	111.4600		0.0000333	2	2.1
4	45	0.3103	39	60	111.4620		0.0000333	2	2.1
4	45	0.3103	40	60	111.4640		0.0000333	2	2.1
5	30	0.2068	41	60	111.4640		0.0000000	0	0.0
5	30	0.2068	42	60	111.4650		0.0000167	1	1.6
5	30	0.2068	43	60	111.4660		0.0000167	1	1.6
5	30	0.2068	44	60	111.4670		0.0000167	1	1.6
5	30	0.2068	45	60	111.4680		0.0000167	1	1.6
5	30	0.2068	46	60	111.4690		0.0000167	1	1.6
5	30	0.2068	47	60	111.4700		0.0000167	1	1.6
5	30	0.2068	48	60	111.4720		0.0000333	2	3.2
5	30	0.2068	49	60	111.4730		0.0000167	1	1.6
5	30	0.2068	50	60	111.4740		0.0000167	1	1.6

FIGURE D-4-9

BOREHOLE ID	BH78	DATE	13-Feb-25	STAFF:	JD / CJ
Stickup	1.24	mags			
EOH	42.80	mbtop	41.6 mbgs	-total volume used from tote ~ 250 L	
Lower Packer Depth	14.80	mbtop	13.6 mbgs		
Upper Packer Depth	11.80	mbtop	10.6 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	20.6 mbgs		
Totalizer (pre-test)	111.4980	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	111.4980		0.0000000	0	0.0
1	30	0.2068	2	60	111.4990		0.0000167	1	1.6
1	30	0.2068	3	60	111.5005		0.0000250	1.5	2.4
1	30	0.2068	4	60	111.5020		0.0000250	1.5	2.4
1	30	0.2068	5	60	111.5035		0.0000250	1.5	2.4
1	30	0.2068	6	60	111.5050		0.0000250	1.5	2.4
1	30	0.2068	7	60	111.5065		0.0000250	1.5	2.4
1	30	0.2068	8	60	111.5085		0.0000333	2	3.2
1	30	0.2068	9	60	111.5100		0.0000250	1.5	2.4
1	30	0.2068	10	60	111.5115		0.0000250	1.5	2.4
2	45	0.3103	11	60	111.5235		0.0002000	12	12.9
2	45	0.3103	12	60	111.5310		0.0001250	7.5	8.1
2	45	0.3103	13	60	111.5375		0.0001083	6.5	7.0
2	45	0.3103	14	60	111.5445		0.0001167	7	7.5
2	45	0.3103	15	60	111.5500		0.0000917	5.5	5.9
2	45	0.3103	16	60	111.5560		0.0001000	6	6.4
2	45	0.3103	17	60	111.5620		0.0001000	6	6.4
2	45	0.3103	18	60	111.5675		0.0000917	5.5	5.9
2	45	0.3103	19	60	111.5735		0.0001000	6	6.4
2	45	0.3103	20	60	111.5795		0.0001000	6	6.4
3	60	0.4137	21	60	111.5900		0.0001750	10.5	8.5
3	60	0.4137	22	60	111.5980		0.0001333	8	6.4
3	60	0.4137	23	60	111.6065		0.0001417	8.5	6.8
3	60	0.4137	24	60	111.6150		0.0001417	8.5	6.8
3	60	0.4137	25	60	111.6240		0.0001500	9	7.3
3	60	0.4137	26	60	111.6330		0.0001500	9	7.3
3	60	0.4137	27	60	111.6425		0.0001583	9.5	7.7
3	60	0.4137	28	60	111.6510		0.0001417	8.5	6.8
3	60	0.4137	29	60	111.6605		0.0001583	9.5	7.7
3	60	0.4137	30	60	111.6695		0.0001500	9	7.3
4	45	0.3103	31	60	111.6755		0.0001000	6	6.4
4	45	0.3103	32	60	111.6810		0.0000917	5.5	5.9
4	45	0.3103	33	60	111.6870		0.0001000	6	6.4
4	45	0.3103	34	60	111.6935		0.0001083	6.5	7.0
4	45	0.3103	35	60	111.7000		0.0001083	6.5	7.0
4	45	0.3103	36	60	111.7060		0.0001000	6	6.4
4	45	0.3103	37	60	111.7125		0.0001083	6.5	7.0
4	45	0.3103	38	60	111.7190		0.0001083	6.5	7.0
4	45	0.3103	39	60	111.7255		0.0001083	6.5	7.0
4	45	0.3103	40	60	111.7315		0.0001000	6	6.4
5	30	0.2068	41	60	111.7345		0.0000500	3	4.8
5	30	0.2068	42	60	111.7380		0.0000583	3.5	5.6
5	30	0.2068	43	60	111.7420		0.0000667	4	6.4
5	30	0.2068	44	60	111.7460		0.0000667	4	6.4
5	30	0.2068	45	60	111.7495		0.0000583	3.5	5.6
5	30	0.2068	46	60	111.7540		0.0000750	4.5	7.3
5	30	0.2068	47	60	111.7580		0.0000667	4	6.4
5	30	0.2068	48	60	111.7620		0.0000667	4	6.4
5	30	0.2068	49	60	111.7660		0.0000667	4	6.4
5	30	0.2068	50	60	111.7700		0.0000667	4	6.4

FIGURE D-4-10

BOREHOLE ID	BH78	DATE	13-Feb-25	STAFF:	JD / CJ
Stickup	0.62	mags			
EOH	42.80	mbtop	42.2 mbgs	-total volume not recorded	
Lower Packer Depth	12.20	mbtop	11.6 mbgs		
Upper Packer Depth	9.20	mbtop	8.6 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.00	m			
Static WL	21.84	mbtop	21.2 mbgs		
Totalizer (pre-test)	111.8020	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	111.8090		0.0001167	7	11.3
1	30	0.2068	2	60	111.8140		0.0000833	5	8.1
1	30	0.2068	3	60	111.8190		0.0000833	5	8.1
1	30	0.2068	4	60	111.8240		0.0000833	5	8.1
1	30	0.2068	5	60	111.8300		0.0001000	6	9.7
1	30	0.2068	6	60	111.8350		0.0000833	5	8.1
1	30	0.2068	7	60	111.8420		0.0001167	7	11.3
1	30	0.2068	8	60	111.8470		0.0000833	5	8.1
1	30	0.2068	9	60	111.8530		0.0001000	6	9.7
1	30	0.2068	10	60	111.8595		0.0001083	6.5	10.5
2	45	0.3103	11	60	111.8700		0.0001750	10.5	11.3
2	45	0.3103	12	60	111.8870		0.0002833	17	18.3
2	45	0.3103	13	60	111.9260		0.0006500	39	41.9
2	45	0.3103	14	60	111.9870		0.0010167	61	65.5
2	45	0.3103	15	60	112.0560		0.0011500	69	74.1
2	45	0.3103	16	60	112.1260		0.0011667	70	75.2
2	45	0.3103	17	60	112.1980		0.0012000	72	77.4
2	45	0.3103	18	60	112.2720		0.0012333	74	79.5
2	45	0.3103	19	60	112.3480		0.0012667	76	81.7
2	45	0.3103	20	60	112.4280		0.0013333	80	85.9
3	60	0.4137	21	60	112.5230		0.0015833	95	76.5
3	60	0.4137	22	60	112.6200		0.0016167	97	78.2
3	60	0.4137	23	60	112.7220		0.0017000	102	82.2
3	60	0.4137	24	60	112.8200		0.0016333	98	79.0
3	60	0.4137	25	60	112.9170		0.0016167	97	78.2
3	60	0.4137	26	60	113.0200		0.0017167	103	83.0
3	60	0.4137	27	60	113.1200		0.0016667	100	80.6
3	60	0.4137	28	60	113.2170		0.0016167	97	78.2
3	60	0.4137	29	60	113.3170		0.0016667	100	80.6
3	60	0.4137	30	60	113.4150		0.0016333	98	79.0
4	45	0.3103	31	60	113.4970		0.0013667	82	88.1
4	45	0.3103	32	60	113.5770		0.0013333	80	85.9
4	45	0.3103	33	60	113.6560		0.0013167	79	84.9
4	45	0.3103	34	60	113.7370		0.0013500	81	87.0
4	45	0.3103	35	60	113.8180		0.0013500	81	87.0
4	45	0.3103	36	60	113.8970		0.0013167	79	84.9
4	45	0.3103	37	60	113.9780		0.0013500	81	87.0
4	45	0.3103	38	60	114.0580		0.0013333	80	85.9
4	45	0.3103	39	60	114.1380		0.0013333	80	85.9
4	45	0.3103	40	60	114.2170		0.0013167	79	84.9
5	30	0.2068	41	60	114.2740		0.0009500	57	91.9
5	30	0.2068	42	60	114.3270		0.0008833	53	85.4
5	30	0.2068	43	60	114.3800		0.0008833	53	85.4
5	30	0.2068	44	60	114.4340		0.0009000	54	87.0
5	30	0.2068	45	60	114.4870		0.0008833	53	85.4
5	30	0.2068	46	60	114.5410		0.0009000	54	87.0
5	30	0.2068	47	60	114.5940		0.0008833	53	85.4
5	30	0.2068	48	60	114.6460		0.0008667	52	83.8
5	30	0.2068	49	60	114.6990		0.0008833	53	85.4
5	30	0.2068	50	60	114.7540		0.0009167	55	88.6

FIGURE D-5-1

BOREHOLE ID	BH79	DATE	10-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	40.00	mbtop	39.3 mbgs		
Upper Packer Depth	36.95	mbtop	36.3 mbgs		
Bedrock Stratigraphy	IRONDEQUOIT / ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.7020	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.7020	0.0000000	0	0.0
1	30	0.2068	2	60	114.7020	0.0000000	0	0.0
1	30	0.2068	3	60	114.7020	0.0000000	0	0.0
1	30	0.2068	4	60	114.7020	0.0000000	0	0.0
1	30	0.2068	5	60	114.7020	0.0000000	0	0.0
1	30	0.2068	6	60	114.7020	0.0000000	0	0.0
1	30	0.2068	7	60	114.7020	0.0000000	0	0.0
1	30	0.2068	8	60	114.7020	0.0000000	0	0.0
1	30	0.2068	9	60	114.7020	0.0000000	0	0.0
1	30	0.2068	10	60	114.7020	0.0000000	0	0.0
2	45	0.3103	11	60	114.7020	0.0000000	0	0.0
2	45	0.3103	12	60	114.7020	0.0000000	0	0.0
2	45	0.3103	13	60	114.7020	0.0000000	0	0.0
2	45	0.3103	14	60	114.7020	0.0000000	0	0.0
2	45	0.3103	15	60	114.7020	0.0000000	0	0.0
2	45	0.3103	16	60	114.7020	0.0000000	0	0.0
2	45	0.3103	17	60	114.7020	0.0000000	0	0.0
2	45	0.3103	18	60	114.7020	0.0000000	0	0.0
2	45	0.3103	19	60	114.7020	0.0000000	0	0.0
2	45	0.3103	20	60	114.7020	0.0000000	0	0.0
3	60	0.4137	21	60	114.7020	0.0000000	0	0.0
3	60	0.4137	22	60	114.7020	0.0000000	0	0.0
3	60	0.4137	23	60	114.7020	0.0000000	0	0.0
3	60	0.4137	24	60	114.7020	0.0000000	0	0.0
3	60	0.4137	25	60	114.7020	0.0000000	0	0.0
3	60	0.4137	26	60	114.7020	0.0000000	0	0.0
3	60	0.4137	27	60	114.7020	0.0000000	0	0.0
3	60	0.4137	28	60	114.7020	0.0000000	0	0.0
3	60	0.4137	29	60	114.7020	0.0000000	0	0.0
3	60	0.4137	30	60	114.7020	0.0000000	0	0.0

FIGURE D-5-2

BOREHOLE ID	BH79	DATE	10-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	36.95	mbtop	36.3 mbgs		
Upper Packer Depth	33.90	mbtop	33.2 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.7030	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.7030	0.0000000	0	0.0
1	30	0.2068	2	60	114.7030	0.0000000	0	0.0
1	30	0.2068	3	60	114.7030	0.0000000	0	0.0
1	30	0.2068	4	60	114.7030	0.0000000	0	0.0
1	30	0.2068	5	60	114.7030	0.0000000	0	0.0
1	30	0.2068	6	60	114.7030	0.0000000	0	0.0
1	30	0.2068	7	60	114.7030	0.0000000	0	0.0
1	30	0.2068	8	60	114.7030	0.0000000	0	0.0
1	30	0.2068	9	60	114.7030	0.0000000	0	0.0
1	30	0.2068	10	60	114.7030	0.0000000	0	0.0
2	45	0.3103	11	60	114.7030	0.0000000	0	0.0
2	45	0.3103	12	60	114.7030	0.0000000	0	0.0
2	45	0.3103	13	60	114.7030	0.0000000	0	0.0
2	45	0.3103	14	60	114.7030	0.0000000	0	0.0
2	45	0.3103	15	60	114.7030	0.0000000	0	0.0
2	45	0.3103	16	60	114.7030	0.0000000	0	0.0
2	45	0.3103	17	60	114.7030	0.0000000	0	0.0
2	45	0.3103	18	60	114.7030	0.0000000	0	0.0
2	45	0.3103	19	60	114.7030	0.0000000	0	0.0
2	45	0.3103	20	60	114.7030	0.0000000	0	0.0
3	60	0.4137	21	60	114.7030	0.0000000	0	0.0
3	60	0.4137	22	60	114.7030	0.0000000	0	0.0
3	60	0.4137	23	60	114.7030	0.0000000	0	0.0
3	60	0.4137	24	60	114.7030	0.0000000	0	0.0
3	60	0.4137	25	60	114.7030	0.0000000	0	0.0
3	60	0.4137	26	60	114.7030	0.0000000	0	0.0
3	60	0.4137	27	60	114.7030	0.0000000	0	0.0
3	60	0.4137	28	60	114.7030	0.0000000	0	0.0
3	60	0.4137	29	60	114.7030	0.0000000	0	0.0
3	60	0.4137	30	60	114.7030	0.0000000	0	0.0

FIGURE D-5-3

BOREHOLE ID	BH79	DATE	10-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	33.90	mbtop	33.2 mbgs		
Upper Packer Depth	30.86	mbtop	30.2 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.04	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.7030	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.7030	0.0000000	0	0.0
1	30	0.2068	2	60	114.7030	0.0000000	0	0.0
1	30	0.2068	3	60	114.7030	0.0000000	0	0.0
1	30	0.2068	4	60	114.7030	0.0000000	0	0.0
1	30	0.2068	5	60	114.7030	0.0000000	0	0.0
1	30	0.2068	6	60	114.7030	0.0000000	0	0.0
1	30	0.2068	7	60	114.7030	0.0000000	0	0.0
1	30	0.2068	8	60	114.7030	0.0000000	0	0.0
1	30	0.2068	9	60	114.7030	0.0000000	0	0.0
1	30	0.2068	10	60	114.7030	0.0000000	0	0.0
2	45	0.3103	11	60	114.7030	0.0000000	0	0.0
2	45	0.3103	12	60	114.7030	0.0000000	0	0.0
2	45	0.3103	13	60	114.7030	0.0000000	0	0.0
2	45	0.3103	14	60	114.7030	0.0000000	0	0.0
2	45	0.3103	15	60	114.7030	0.0000000	0	0.0
2	45	0.3103	16	60	114.7030	0.0000000	0	0.0
2	45	0.3103	17	60	114.7030	0.0000000	0	0.0
2	45	0.3103	18	60	114.7030	0.0000000	0	0.0
2	45	0.3103	19	60	114.7030	0.0000000	0	0.0
2	45	0.3103	20	60	114.7030	0.0000000	0	0.0
3	60	0.4137	21	60	114.7030	0.0000000	0	0.0
3	60	0.4137	22	60	114.7030	0.0000000	0	0.0
3	60	0.4137	23	60	114.7030	0.0000000	0	0.0
3	60	0.4137	24	60	114.7030	0.0000000	0	0.0
3	60	0.4137	25	60	114.7030	0.0000000	0	0.0
3	60	0.4137	26	60	114.7030	0.0000000	0	0.0
3	60	0.4137	27	60	114.7030	0.0000000	0	0.0
3	60	0.4137	28	60	114.7030	0.0000000	0	0.0
3	60	0.4137	29	60	114.7030	0.0000000	0	0.0
3	60	0.4137	30	60	114.7030	0.0000000	0	0.0

FIGURE D-5-4

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	30.86	mbtop	30.2 mbgs		
Upper Packer Depth	27.81	mbtop	27.1 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8040	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	114.8040		0.0000000	0	0.0
1	30	0.2068	2	60	114.8040		0.0000000	0	0.0
1	30	0.2068	3	60	114.8040		0.0000000	0	0.0
1	30	0.2068	4	60	114.8040		0.0000000	0	0.0
1	30	0.2068	5	60	114.8040		0.0000000	0	0.0
1	30	0.2068	6	60	114.8040		0.0000000	0	0.0
1	30	0.2068	7	60	114.8040		0.0000000	0	0.0
1	30	0.2068	8	60	114.8040		0.0000000	0	0.0
1	30	0.2068	9	60	114.8040		0.0000000	0	0.0
1	30	0.2068	10	60	114.8040		0.0000000	0	0.0
2	45	0.3103	11	60	114.8040		0.0000000	0	0.0
2	45	0.3103	12	60	114.8040		0.0000000	0	0.0
2	45	0.3103	13	60	114.8040		0.0000000	0	0.0
2	45	0.3103	14	60	114.8040		0.0000000	0	0.0
2	45	0.3103	15	60	114.8040		0.0000000	0	0.0
2	45	0.3103	16	60	114.8040		0.0000000	0	0.0
2	45	0.3103	17	60	114.8040		0.0000000	0	0.0
2	45	0.3103	18	60	114.8040		0.0000000	0	0.0
2	45	0.3103	19	60	114.8040		0.0000000	0	0.0
2	45	0.3103	20	60	114.8040		0.0000000	0	0.0
3	60	0.4137	21	60	114.8040		0.0000000	0	0.0
3	60	0.4137	22	60	114.8040		0.0000000	0	0.0
3	60	0.4137	23	60	114.8040		0.0000000	0	0.0
3	60	0.4137	24	60	114.8040		0.0000000	0	0.0
3	60	0.4137	25	60	114.8040		0.0000000	0	0.0
3	60	0.4137	26	60	114.8040		0.0000000	0	0.0
3	60	0.4137	27	60	114.8040		0.0000000	0	0.0
3	60	0.4137	28	60	114.8040		0.0000000	0	0.0
3	60	0.4137	29	60	114.8040		0.0000000	0	0.0
3	60	0.4137	30	60	114.8040		0.0000000	0	0.0

FIGURE D-5-5

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	27.81	mbtop	27.1 mbgs		
Upper Packer Depth	24.76	mbtop	24.1 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8060	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.8060	0.0000000	0	0.0
1	30	0.2068	2	60	114.8060	0.0000000	0	0.0
1	30	0.2068	3	60	114.8060	0.0000000	0	0.0
1	30	0.2068	4	60	114.8060	0.0000000	0	0.0
1	30	0.2068	5	60	114.8060	0.0000000	0	0.0
1	30	0.2068	6	60	114.8060	0.0000000	0	0.0
1	30	0.2068	7	60	114.8060	0.0000000	0	0.0
1	30	0.2068	8	60	114.8060	0.0000000	0	0.0
1	30	0.2068	9	60	114.8060	0.0000000	0	0.0
1	30	0.2068	10	60	114.8060	0.0000000	0	0.0
2	45	0.3103	11	60	114.8065	0.0000083	0.5	0.5
2	45	0.3103	12	60	114.8065	0.0000000	0	0.0
2	45	0.3103	13	60	114.8070	0.0000083	0.5	0.5
2	45	0.3103	14	60	114.8075	0.0000083	0.5	0.5
2	45	0.3103	15	60	114.8075	0.0000000	0	0.0
2	45	0.3103	16	60	114.8075	0.0000000	0	0.0
2	45	0.3103	17	60	114.8075	0.0000000	0	0.0
2	45	0.3103	18	60	114.8075	0.0000000	0	0.0
2	45	0.3103	19	60	114.8075	0.0000000	0	0.0
2	45	0.3103	20	60	114.8075	0.0000000	0	0.0
3	60	0.4137	21	60	114.8115	0.0000667	4	3.2
3	60	0.4137	22	60	114.8140	0.0000417	2.5	2.0
3	60	0.4137	23	60	114.8165	0.0000417	2.5	2.0
3	60	0.4137	24	60	114.8185	0.0000333	2	1.6
3	60	0.4137	25	60	114.8200	0.0000250	1.5	1.2
3	60	0.4137	26	60	114.8215	0.0000250	1.5	1.2
3	60	0.4137	27	60	114.8225	0.0000167	1	0.8
3	60	0.4137	28	60	114.8235	0.0000167	1	0.8
3	60	0.4137	29	60	114.8245	0.0000167	1	0.8
3	60	0.4137	30	60	114.8255	0.0000167	1	0.8
4	45	0.3103	31	60	114.8255	0.0000000	0	0.0
4	45	0.3103	32	60	114.8255	0.0000000	0	0.0
4	45	0.3103	33	60	114.8255	0.0000000	0	0.0
4	45	0.3103	34	60	114.8255	0.0000000	0	0.0
4	45	0.3103	35	60	114.8255	0.0000000	0	0.0
4	45	0.3103	36	60	114.8255	0.0000000	0	0.0
4	45	0.3103	37	60	114.8255	0.0000000	0	0.0
4	45	0.3103	38	60	114.8255	0.0000000	0	0.0
4	45	0.3103	39	60	114.8255	0.0000000	0	0.0
4	45	0.3103	40	60	114.8255	0.0000000	0	0.0
5	30	0.2068	41	60	114.8255	0.0000000	0	0.0
5	30	0.2068	42	60	114.8255	0.0000000	0	0.0
5	30	0.2068	43	60	114.8255	0.0000000	0	0.0
5	30	0.2068	44	60	114.8255	0.0000000	0	0.0
5	30	0.2068	45	60	114.8255	0.0000000	0	0.0

FIGURE D-5-6

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume not recorded	
Lower Packer Depth	24.76	mbtop	24.1 mbgs		
Upper Packer Depth	21.71	mbtop	21.0 mbgs		
Bedrock Stratigraphy	ROCHESTER / DECEW				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8250	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	114.8250		0.0000000	0	0.0
1	30	0.2068	2	60	114.8250		0.0000000	0	0.0
1	30	0.2068	3	60	114.8250		0.0000000	0	0.0
1	30	0.2068	4	60	114.8250		0.0000000	0	0.0
1	30	0.2068	5	60	114.8250		0.0000000	0	0.0
1	30	0.2068	6	60	114.8250		0.0000000	0	0.0
1	30	0.2068	7	60	114.8250		0.0000000	0	0.0
1	30	0.2068	8	60	114.8250		0.0000000	0	0.0
1	30	0.2068	9	60	114.8250		0.0000000	0	0.0
1	30	0.2068	10	60	114.8250		0.0000000	0	0.0
2	45	0.3103	11	60	114.8250		0.0000000	0	0.0
2	45	0.3103	12	60	114.8250		0.0000000	0	0.0
2	45	0.3103	13	60	114.8250		0.0000000	0	0.0
2	45	0.3103	14	60	114.8250		0.0000000	0	0.0
2	45	0.3103	15	60	114.8250		0.0000000	0	0.0
2	45	0.3103	16	60	114.8250		0.0000000	0	0.0
2	45	0.3103	17	60	114.8250		0.0000000	0	0.0
2	45	0.3103	18	60	114.8250		0.0000000	0	0.0
2	45	0.3103	19	60	114.8250		0.0000000	0	0.0
2	45	0.3103	20	60	114.8250		0.0000000	0	0.0
3	60	0.4137	21	60	114.8300		0.0000833	5	4.0
3	60	0.4137	22	60	114.8350		0.0000833	5	4.0
3	60	0.4137	23	60	114.8385		0.0000583	3.5	2.8
3	60	0.4137	24	60	114.8415		0.0000500	3	2.4
3	60	0.4137	25	60	114.8440		0.0000417	2.5	2.0
3	60	0.4137	26	60	114.8460		0.0000333	2	1.6
3	60	0.4137	27	60	114.8480		0.0000333	2	1.6
3	60	0.4137	28	60	114.8505		0.0000417	2.5	2.0
3	60	0.4137	29	60	114.8525		0.0000333	2	1.6
3	60	0.4137	30	60	114.8550		0.0000417	2.5	2.0
4	45	0.3103	31	60	114.8550		0.0000000	0	0.0
4	45	0.3103	32	60	114.8550		0.0000000	0	0.0
4	45	0.3103	33	60	114.8550		0.0000000	0	0.0
4	45	0.3103	34	60	114.8550		0.0000000	0	0.0
4	45	0.3103	35	60	114.8550		0.0000000	0	0.0
4	45	0.3103	36	60	114.8550		0.0000000	0	0.0
4	45	0.3103	37	60	114.8550		0.0000000	0	0.0
4	45	0.3103	38	60	114.8550		0.0000000	0	0.0
4	45	0.3103	39	60	114.8550		0.0000000	0	0.0
4	45	0.3103	40	60	114.8550		0.0000000	0	0.0
5	30	0.2068	41	60	114.8550		0.0000000	0	0.0
5	30	0.2068	42	60	114.8550		0.0000000	0	0.0
5	30	0.2068	43	60	114.8550		0.0000000	0	0.0
5	30	0.2068	44	60	114.8550		0.0000000	0	0.0
5	30	0.2068	45	60	114.8550		0.0000000	0	0.0
5	30	0.2068	46	60	114.8550		0.0000000	0	0.0
5	30	0.2068	47	60	114.8550		0.0000000	0	0.0
5	30	0.2068	48	60	114.8550		0.0000000	0	0.0
5	30	0.2068	49	60	114.8550		0.0000000	0	0.0
5	30	0.2068	50	60	114.8550		0.0000000	0	0.0

FIGURE D-5-7

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	21.71	mbtop	21.0 mbgs		
Upper Packer Depth	18.66	mbtop	18.0 mbgs		
Bedrock Stratigraphy	DECEW / GASPORT				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8580	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.8580	0.0000000	0	0.0
1	30	0.2068	2	60	114.8580	0.0000000	0	0.0
1	30	0.2068	3	60	114.8580	0.0000000	0	0.0
1	30	0.2068	4	60	114.8580	0.0000000	0	0.0
1	30	0.2068	5	60	114.8580	0.0000000	0	0.0
1	30	0.2068	6	60	114.8580	0.0000000	0	0.0
1	30	0.2068	7	60	114.8580	0.0000000	0	0.0
1	30	0.2068	8	60	114.8580	0.0000000	0	0.0
1	30	0.2068	9	60	114.8580	0.0000000	0	0.0
1	30	0.2068	10	60	114.8580	0.0000000	0	0.0
2	45	0.3103	11	60	114.8580	0.0000000	0	0.0
2	45	0.3103	12	60	114.8580	0.0000000	0	0.0
2	45	0.3103	13	60	114.8580	0.0000000	0	0.0
2	45	0.3103	14	60	114.8580	0.0000000	0	0.0
2	45	0.3103	15	60	114.8580	0.0000000	0	0.0
2	45	0.3103	16	60	114.8580	0.0000000	0	0.0
2	45	0.3103	17	60	114.8580	0.0000000	0	0.0
2	45	0.3103	18	60	114.8580	0.0000000	0	0.0
2	45	0.3103	19	60	114.8580	0.0000000	0	0.0
2	45	0.3103	20	60	114.8580	0.0000000	0	0.0
3	60	0.4137	21	60	114.8580	0.0000000	0	0.0
3	60	0.4137	22	60	114.8580	0.0000000	0	0.0
3	60	0.4137	23	60	114.8580	0.0000000	0	0.0
3	60	0.4137	24	60	114.8580	0.0000000	0	0.0
3	60	0.4137	25	60	114.8580	0.0000000	0	0.0
3	60	0.4137	26	60	114.8580	0.0000000	0	0.0
3	60	0.4137	27	60	114.8580	0.0000000	0	0.0
3	60	0.4137	28	60	114.8580	0.0000000	0	0.0
3	60	0.4137	29	60	114.8580	0.0000000	0	0.0
3	60	0.4137	30	60	114.8580	0.0000000	0	0.0

FIGURE D-5-8

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	18.66	mbtop	18.0 mbgs		
Upper Packer Depth	15.62	mbtop	14.9 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.04	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8610	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	114.8610	0.0000000	0	0.0
1	30	0.2068	2	60	114.8610	0.0000000	0	0.0
1	30	0.2068	3	60	114.8610	0.0000000	0	0.0
1	30	0.2068	4	60	114.8610	0.0000000	0	0.0
1	30	0.2068	5	60	114.8610	0.0000000	0	0.0
1	30	0.2068	6	60	114.8610	0.0000000	0	0.0
1	30	0.2068	7	60	114.8610	0.0000000	0	0.0
1	30	0.2068	8	60	114.8610	0.0000000	0	0.0
1	30	0.2068	9	60	114.8610	0.0000000	0	0.0
1	30	0.2068	10	60	114.8610	0.0000000	0	0.0
2	45	0.3103	11	60	114.8610	0.0000000	0	0.0
2	45	0.3103	12	60	114.8610	0.0000000	0	0.0
2	45	0.3103	13	60	114.8610	0.0000000	0	0.0
2	45	0.3103	14	60	114.8610	0.0000000	0	0.0
2	45	0.3103	15	60	114.8610	0.0000000	0	0.0
2	45	0.3103	16	60	114.8610	0.0000000	0	0.0
2	45	0.3103	17	60	114.8610	0.0000000	0	0.0
2	45	0.3103	18	60	114.8610	0.0000000	0	0.0
2	45	0.3103	19	60	114.8610	0.0000000	0	0.0
2	45	0.3103	20	60	114.8610	0.0000000	0	0.0
3	60	0.4137	21	60	114.8610	0.0000000	0	0.0
3	60	0.4137	22	60	114.8610	0.0000000	0	0.0
3	60	0.4137	23	60	114.8610	0.0000000	0	0.0
3	60	0.4137	24	60	114.8610	0.0000000	0	0.0
3	60	0.4137	25	60	114.8610	0.0000000	0	0.0
3	60	0.4137	26	60	114.8610	0.0000000	0	0.0
3	60	0.4137	27	60	114.8610	0.0000000	0	0.0
3	60	0.4137	28	60	114.8610	0.0000000	0	0.0
3	60	0.4137	29	60	114.8610	0.0000000	0	0.0
3	60	0.4137	30	60	114.8610	0.0000000	0	0.0

FIGURE D-5-9

BOREHOLE ID	BH79	DATE	11-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8 mbgs	-total volume not recorded	
Lower Packer Depth	15.62	mbtop	14.9 mbgs		
Upper Packer Depth	12.57	mbtop	11.9 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8 mbgs		
Totalizer (pre-test)	114.8700	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	114.8700		0.0000000	0	0.0
1	30	0.2068	2	60	114.8700		0.0000000	0	0.0
1	30	0.2068	3	60	114.8700		0.0000000	0	0.0
1	30	0.2068	4	60	114.8700		0.0000000	0	0.0
1	30	0.2068	5	60	114.8700		0.0000000	0	0.0
1	30	0.2068	6	60	114.8700		0.0000000	0	0.0
1	30	0.2068	7	60	114.8705		0.0000083	0.5	0.8
1	30	0.2068	8	60	114.8710		0.0000083	0.5	0.8
1	30	0.2068	9	60	114.8710		0.0000000	0	0.0
1	30	0.2068	10	60	114.8715		0.0000083	0.5	0.8
2	45	0.3103	11	60	114.8725		0.0000167	1	1.1
2	45	0.3103	12	60	114.8725		0.0000000	0	0.0
2	45	0.3103	13	60	114.8730		0.0000083	0.5	0.5
2	45	0.3103	14	60	114.8730		0.0000000	0	0.0
2	45	0.3103	15	60	114.8735		0.0000083	0.5	0.5
2	45	0.3103	16	60	114.8740		0.0000083	0.5	0.5
2	45	0.3103	17	60	114.8745		0.0000083	0.5	0.5
2	45	0.3103	18	60	114.8750		0.0000083	0.5	0.5
2	45	0.3103	19	60	114.8750		0.0000000	0	0.0
2	45	0.3103	20	60	114.8755		0.0000083	0.5	0.5
3	60	0.4137	21	60	114.8770		0.0000250	1.5	1.2
3	60	0.4137	22	60	114.8805		0.0000583	3.5	2.8
3	60	0.4137	23	60	114.8850		0.0000750	4.5	3.6
3	60	0.4137	24	60	114.8895		0.0000750	4.5	3.6
3	60	0.4137	25	60	114.8950		0.0000917	5.5	4.4
3	60	0.4137	26	60	114.9010		0.0001000	6	4.8
3	60	0.4137	27	60	114.9075		0.0001083	6.5	5.2
3	60	0.4137	28	60	114.9145		0.0001167	7	5.5
3	60	0.4137	29	60	114.9225		0.0001333	8	6.3
3	60	0.4137	30	60	114.9310		0.0001417	8.5	6.7
4	45	0.3103	31	60	114.9362		0.0000858	5.15	5.4
4	45	0.3103	32	60	114.9415		0.0000892	5.35	5.7
4	45	0.3103	33	60	114.9465		0.0000833	5	5.3
4	45	0.3103	34	60	114.9510		0.0000750	4.5	4.8
4	45	0.3103	35	60	114.9560		0.0000833	5	5.3
4	45	0.3103	36	60	114.9610		0.0000833	5	5.3
4	45	0.3103	37	60	114.9660		0.0000833	5	5.3
4	45	0.3103	38	60	114.9710		0.0000833	5	5.3
4	45	0.3103	39	60	114.9765		0.0000917	5.5	5.8
4	45	0.3103	40	60	114.9825		0.0001000	6	6.3
5	30	0.2068	41	60	114.9850		0.0000417	2.5	4.0
5	30	0.2068	42	60	114.9870		0.0000333	2	3.2
5	30	0.2068	43	60	114.9900		0.0000500	3	4.8
5	30	0.2068	44	60	114.9935		0.0000583	3.5	5.5
5	30	0.2068	45	60	114.9965		0.0000500	3	4.8
5	30	0.2068	46	60	114.9995		0.0000500	3	4.8
5	30	0.2068	47	60	115.0025		0.0000500	3	4.8
5	30	0.2068	48	60	115.0055		0.0000500	3	4.8
5	30	0.2068	49	60	115.0085		0.0000500	3	4.8
5	30	0.2068	50	60	115.0115		0.0000500	3	4.8

FIGURE D-5-10

BOREHOLE ID	BH79	DATE	14-Apr-25	STAFF:	JD
Stickup	0.68	mags			
EOH	41.50	mbtop	40.8	mbgs	-total volume used from tote ~ 4500 L
Lower Packer Depth	12.57	mbtop	11.9	mbgs	
Upper Packer Depth	9.52	mbtop	8.8	mbgs	
Bedrock Stratigraphy	GASPORT / GOAT ISLAND				
Packer Interval (L)	3.05	m			
Static WL	2.47	mbtop	1.8	mbgs	
Totalizer (pre-test)	115.1200	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	115.1810	0.0010167	61	96.7
1	30	0.2068	2	60	115.2430	0.0010333	62	98.3
1	30	0.2068	3	60	115.3050	0.0010333	62	98.3
1	30	0.2068	4	60	115.3650	0.0010000	60	95.1
1	30	0.2068	5	60	115.4250	0.0010000	60	95.1
1	30	0.2068	6	60	115.4870	0.0010333	62	98.3
1	30	0.2068	7	60	115.5480	0.0010167	61	96.7
1	30	0.2068	8	60	115.6100	0.0010333	62	98.3
1	30	0.2068	9	60	115.6700	0.0010000	60	95.1
1	30	0.2068	10	60	115.7320	0.0010333	62	98.3
2	45	0.3103	11	60	115.8130	0.0013500	81	85.6
2	45	0.3103	12	60	115.8920	0.0013167	79	83.5
2	45	0.3103	13	60	115.9740	0.0013667	82	86.7
2	45	0.3103	14	60	116.0540	0.0013333	80	84.5
2	45	0.3103	15	60	116.1360	0.0013667	82	86.7
2	45	0.3103	16	60	116.2210	0.0014167	85	89.8
2	45	0.3103	17	60	116.3070	0.0014333	86	90.9
2	45	0.3103	18	60	116.3900	0.0013833	83	87.7
2	45	0.3103	19	60	116.4760	0.0014333	86	90.9
2	45	0.3103	20	60	116.5610	0.0014167	85	89.8
3	60	0.4137	21	60	116.6780	0.0019500	117	92.7
3	60	0.4137	22	60	116.7790	0.0016833	101	80.0
3	60	0.4137	23	60	116.8900	0.0018500	111	88.0
3	60	0.4137	24	60	117.0030	0.0018833	113	89.6
3	60	0.4137	25	60	117.1130	0.0018333	110	87.2
3	60	0.4137	26	60	117.2240	0.0018500	111	88.0
3	60	0.4137	27	60	117.3360	0.0018667	112	88.8
3	60	0.4137	28	60	117.4460	0.0018333	110	87.2
3	60	0.4137	29	60	117.5580	0.0018667	112	88.8
3	60	0.4137	30	60	117.6690	0.0018500	111	88.0
4	45	0.3103	31	60	117.7610	0.0015333	92	97.2
4	45	0.3103	32	60	117.8530	0.0015333	92	97.2
4	45	0.3103	33	60	117.9440	0.0015167	91	96.2
4	45	0.3103	34	60	118.0350	0.0015167	91	96.2
4	45	0.3103	35	60	118.1260	0.0015167	91	96.2
4	45	0.3103	36	60	118.2170	0.0015167	91	96.2
4	45	0.3103	37	60	118.3090	0.0015333	92	97.2
4	45	0.3103	38	60	118.4000	0.0015167	91	96.2
4	45	0.3103	39	60	118.4910	0.0015167	91	96.2
4	45	0.3103	40	60	118.5820	0.0015167	91	96.2
5	30	0.2068	41	60	118.6520	0.0011667	70	111.0
5	30	0.2068	42	60	118.7210	0.0011500	69	109.4
5	30	0.2068	43	60	118.7900	0.0011500	69	109.4
5	30	0.2068	44	60	118.8610	0.0011833	71	112.5
5	30	0.2068	45	60	118.9280	0.0011167	67	106.2
5	30	0.2068	46	60	118.9970	0.0011500	69	109.4
5	30	0.2068	47	60	119.0670	0.0011667	70	111.0
5	30	0.2068	48	60	119.1350	0.0011333	68	107.8
5	30	0.2068	49	60	119.2040	0.0011500	69	109.4
5	30	0.2068	50	60	119.2730	0.0011500	69	109.4

FIGURE D-6-1

BOREHOLE ID	BH80	DATE	29-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~ 500 L	
Lower Packer Depth	34.77	mbtop	32.7 mbgs		
Upper Packer Depth	31.72	mbtop	29.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	119.3070	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	119.3180		0.0001833	11	17.4
1	30	0.2068	2	60	119.3290		0.0001833	11	17.4
1	30	0.2068	3	60	119.3400		0.0001833	11	17.4
1	30	0.2068	4	60	119.3500		0.0001667	10	15.9
1	30	0.2068	5	60	119.3605		0.0001750	10.5	16.6
1	30	0.2068	6	60	119.3715		0.0001833	11	17.4
1	30	0.2068	7	60	119.3820		0.0001750	10.5	16.6
1	30	0.2068	8	60	119.3920		0.0001667	10	15.9
1	30	0.2068	9	60	119.4025		0.0001750	10.5	16.6
1	30	0.2068	10	60	119.4130		0.0001750	10.5	16.6
2	45	0.3103	11	60	119.4295		0.0002750	16.5	17.4
2	45	0.3103	12	60	119.4430		0.0002250	13.5	14.3
2	45	0.3103	13	60	119.4550		0.0002000	12	12.7
2	45	0.3103	14	60	119.4670		0.0002000	12	12.7
2	45	0.3103	15	60	119.4795		0.0002083	12.5	13.2
2	45	0.3103	16	60	119.4925		0.0002167	13	13.7
2	45	0.3103	17	60	119.5050		0.0002083	12.5	13.2
2	45	0.3103	18	60	119.5170		0.0002000	12	12.7
2	45	0.3103	19	60	119.5295		0.0002083	12.5	13.2
2	45	0.3103	20	60	119.5420		0.0002083	12.5	13.2
3	60	0.4137	21	60	119.5580		0.0002667	16	12.7
3	60	0.4137	22	60	119.5710		0.0002167	13	10.3
3	60	0.4137	23	60	119.5845		0.0002250	13.5	10.7
3	60	0.4137	24	60	119.5975		0.0002167	13	10.3
3	60	0.4137	25	60	119.6105		0.0002167	13	10.3
3	60	0.4137	26	60	119.6230		0.0002083	12.5	9.9
3	60	0.4137	27	60	119.6360		0.0002167	13	10.3
3	60	0.4137	28	60	119.6490		0.0002167	13	10.3
3	60	0.4137	29	60	119.6615		0.0002083	12.5	9.9
3	60	0.4137	30	60	119.6750		0.0002250	13.5	10.7
4	45	0.3103	31	60	119.6860		0.0001833	11	11.6
4	45	0.3103	32	60	119.6956		0.0001600	9.6	10.1
4	45	0.3103	33	60	119.7070		0.0001900	11.4	12.0
4	45	0.3103	34	60	119.7180		0.0001833	11	11.6
4	45	0.3103	35	60	119.7280		0.0001667	10	10.6
4	45	0.3103	36	60	119.7390		0.0001833	11	11.6
4	45	0.3103	37	60	119.7500		0.0001833	11	11.6
4	45	0.3103	38	60	119.7605		0.0001750	10.5	11.1
4	45	0.3103	39	60	119.7710		0.0001750	10.5	11.1
4	45	0.3103	40	60	119.7815		0.0001750	10.5	11.1
5	30	0.2068	41	60	119.7900		0.0001417	8.5	13.5
5	30	0.2068	42	60	119.7990		0.0001500	9	14.3
5	30	0.2068	43	60	119.8080		0.0001500	9	14.3
5	30	0.2068	44	60	119.8165		0.0001417	8.5	13.5
5	30	0.2068	45	60	119.8250		0.0001417	8.5	13.5
5	30	0.2068	46	60	119.8335		0.0001417	8.5	13.5
5	30	0.2068	47	60	119.8425		0.0001500	9	14.3
5	30	0.2068	48	60	119.8510		0.0001417	8.5	13.5
5	30	0.2068	49	60	119.8590		0.0001333	8	12.7
5	30	0.2068	50	60	119.8680		0.0001500	9	14.3

FIGURE D-6-2

BOREHOLE ID	BH80	DATE	29-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~1400 L	
Lower Packer Depth	31.72	mbtop	29.6 mbgs		
Upper Packer Depth	28.68	mbtop	26.6 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.04	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	119.9250	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	119.9535		0.0004750	28.5	45.3
1	30	0.2068	2	60	119.9810		0.0004583	27.5	43.7
1	30	0.2068	3	60	120.0070		0.0004333	26	41.3
1	30	0.2068	4	60	120.0320		0.0004167	25	39.8
1	30	0.2068	5	60	120.0565		0.0004083	24.5	39.0
1	30	0.2068	6	60	120.0805		0.0004000	24	38.2
1	30	0.2068	7	60	120.1015		0.0003500	21	33.4
1	30	0.2068	8	60	120.1220		0.0003417	20.5	32.6
1	30	0.2068	9	60	120.1425		0.0003417	20.5	32.6
1	30	0.2068	10	60	120.1630		0.0003417	20.5	32.6
2	45	0.3103	11	60	120.1990		0.0006000	36	38.2
2	45	0.3103	12	60	120.2380		0.0006500	39	41.3
2	45	0.3103	13	60	120.2825		0.0007417	44.5	47.2
2	45	0.3103	14	60	120.3295		0.0007833	47	49.8
2	45	0.3103	15	60	120.3705		0.0006833	41	43.5
2	45	0.3103	16	60	120.3965		0.0004333	26	27.6
2	45	0.3103	17	60	120.4220		0.0004250	25.5	27.0
2	45	0.3103	18	60	120.4460		0.0004000	24	25.4
2	45	0.3103	19	60	120.4705		0.0004083	24.5	26.0
2	45	0.3103	20	60	120.4965		0.0004333	26	27.6
3	60	0.4137	21	60	120.5023		0.0000967	5.8	4.6
3	60	0.4137	22	60	120.5520		0.0008283	49.7	39.5
3	60	0.4137	23	60	120.5800		0.0004667	28	22.3
3	60	0.4137	24	60	120.6080		0.0004667	28	22.3
3	60	0.4137	25	60	120.6360		0.0004667	28	22.3
3	60	0.4137	26	60	120.6630		0.0004500	27	21.5
3	60	0.4137	27	60	120.6910		0.0004667	28	22.3
3	60	0.4137	28	60	120.7190		0.0004667	28	22.3
3	60	0.4137	29	60	120.7460		0.0004500	27	21.5
3	60	0.4137	30	60	120.7720		0.0004333	26	20.7
4	45	0.3103	31	60	120.7920		0.0003333	20	21.2
4	45	0.3103	32	60	120.8120		0.0003333	20	21.2
4	45	0.3103	33	60	120.8310		0.0003167	19	20.1
4	45	0.3103	34	60	120.8500		0.0003167	19	20.1
4	45	0.3103	35	60	120.8690		0.0003167	19	20.1
4	45	0.3103	36	60	120.8880		0.0003167	19	20.1
4	45	0.3103	37	60	120.9070		0.0003167	19	20.1
4	45	0.3103	38	60	120.9260		0.0003167	19	20.1
4	45	0.3103	39	60	120.9450		0.0003167	19	20.1
4	45	0.3103	40	60	120.9640		0.0003167	19	20.1
5	30	0.2068	41	60	120.9780		0.0002333	14	22.3
5	30	0.2068	42	60	120.9920		0.0002333	14	22.3
5	30	0.2068	43	60	121.0060		0.0002333	14	22.3
5	30	0.2068	44	60	121.0200		0.0002333	14	22.3
5	30	0.2068	45	60	121.0330		0.0002167	13	20.7
5	30	0.2068	46	60	121.0470		0.0002333	14	22.3
5	30	0.2068	47	60	121.0610		0.0002333	14	22.3
5	30	0.2068	48	60	121.0740		0.0002167	13	20.7
5	30	0.2068	49	60	121.0860		0.0002000	12	19.1
5	30	0.2068	50	60	121.1010		0.0002500	15	23.9

FIGURE D-6-3

BOREHOLE ID	BH80	DATE	29-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~1100 L	
Lower Packer Depth	28.68	mbtop	26.6 mbgs		
Upper Packer Depth	25.63	mbtop	23.5 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	121.1150	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	121.1370		0.0003667	22	34.9
1	30	0.2068	2	60	121.1560		0.0003167	19	30.1
1	30	0.2068	3	60	121.1730		0.0002833	17	26.9
1	30	0.2068	4	60	121.1905		0.0002917	17.5	27.7
1	30	0.2068	5	60	121.2070		0.0002750	16.5	26.2
1	30	0.2068	6	60	121.2240		0.0002833	17	26.9
1	30	0.2068	7	60	121.2400		0.0002667	16	25.4
1	30	0.2068	8	60	121.2560		0.0002667	16	25.4
1	30	0.2068	9	60	121.2720		0.0002667	16	25.4
1	30	0.2068	10	60	121.2880		0.0002667	16	25.4
2	45	0.3103	11	60	121.3110		0.0003833	23	24.3
2	45	0.3103	12	60	121.3330		0.0003667	22	23.2
2	45	0.3103	13	60	121.3540		0.0003500	21	22.2
2	45	0.3103	14	60	121.3760		0.0003667	22	23.2
2	45	0.3103	15	60	121.3980		0.0003667	22	23.2
2	45	0.3103	16	60	121.4195		0.0003583	21.5	22.7
2	45	0.3103	17	60	121.4415		0.0003667	22	23.2
2	45	0.3103	18	60	121.4630		0.0003583	21.5	22.7
2	45	0.3103	19	60	121.4850		0.0003667	22	23.2
2	45	0.3103	20	60	121.5070		0.0003667	22	23.2
3	60	0.4137	21	60	121.5350		0.0004667	28	22.2
3	60	0.4137	22	60	121.5620		0.0004500	27	21.4
3	60	0.4137	23	60	121.5895		0.0004583	27.5	21.8
3	60	0.4137	24	60	121.6160		0.0004417	26.5	21.0
3	60	0.4137	25	60	121.6430		0.0004500	27	21.4
3	60	0.4137	26	60	121.6690		0.0004333	26	20.6
3	60	0.4137	27	60	121.6980		0.0004833	29	23.0
3	60	0.4137	28	60	121.7240		0.0004333	26	20.6
3	60	0.4137	29	60	121.7490		0.0004167	25	19.8
3	60	0.4137	30	60	121.7730		0.0004000	24	19.0
4	45	0.3103	31	60	121.7935		0.0003417	20.5	21.7
4	45	0.3103	32	60	121.8125		0.0003167	19	20.1
4	45	0.3103	33	60	121.8310		0.0003083	18.5	19.5
4	45	0.3103	34	60	121.8500		0.0003167	19	20.1
4	45	0.3103	35	60	121.8680		0.0003000	18	19.0
4	45	0.3103	36	60	121.8870		0.0003167	19	20.1
4	45	0.3103	37	60	121.9055		0.0003083	18.5	19.5
4	45	0.3103	38	60	121.9240		0.0003083	18.5	19.5
4	45	0.3103	39	60	121.9425		0.0003083	18.5	19.5
4	45	0.3103	40	60	121.9610		0.0003083	18.5	19.5
5	30	0.2068	41	60	121.9745		0.0002250	13.5	21.4
5	30	0.2068	42	60	121.9885		0.0002333	14	22.2
5	30	0.2068	43	60	122.0005		0.0002000	12	19.0
5	30	0.2068	44	60	122.0125		0.0002000	12	19.0
5	30	0.2068	45	60	122.0255		0.0002167	13	20.6
5	30	0.2068	46	60	122.0375		0.0002000	12	19.0
5	30	0.2068	47	60	122.0500		0.0002083	12.5	19.8
5	30	0.2068	48	60	122.0620		0.0002000	12	19.0
5	30	0.2068	49	60	122.0740		0.0002000	12	19.0
5	30	0.2068	50	60	122.0870		0.0002167	13	20.6

FIGURE D-6-4

BOREHOLE ID	BH80	DATE	30-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~550 L	
Lower Packer Depth	25.63	mbtop	23.5 mbgs		
Upper Packer Depth	22.58	mbtop	20.5 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	122.0940	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	122.0945	0.0000083	0.5	0.8
1	30	0.2068	2	60	122.0965	0.0000333	2	3.2
1	30	0.2068	3	60	122.0990	0.0000417	2.5	4.0
1	30	0.2068	4	60	122.1010	0.0000333	2	3.2
1	30	0.2068	5	60	122.1030	0.0000333	2	3.2
1	30	0.2068	6	60	122.1050	0.0000333	2	3.2
1	30	0.2068	7	60	122.1070	0.0000333	2	3.2
1	30	0.2068	8	60	122.1085	0.0000250	1.5	2.4
1	30	0.2068	9	60	122.1105	0.0000333	2	3.2
1	30	0.2068	10	60	122.1125	0.0000333	2	3.2
2	45	0.3103	11	60	122.1240	0.0001917	11.5	12.2
2	45	0.3103	12	60	122.1370	0.0002167	13	13.7
2	45	0.3103	13	60	122.1505	0.0002250	13.5	14.3
2	45	0.3103	14	60	122.1635	0.0002167	13	13.7
2	45	0.3103	15	60	122.1770	0.0002250	13.5	14.3
2	45	0.3103	16	60	122.1910	0.0002333	14	14.8
2	45	0.3103	17	60	122.2050	0.0002333	14	14.8
2	45	0.3103	18	60	122.2190	0.0002333	14	14.8
2	45	0.3103	19	60	122.2230	0.0000667	4	4.2
2	45	0.3103	20	60	122.2460	0.0003833	23	24.3
3	60	0.4137	21	60	122.2730	0.0004500	27	21.4
3	60	0.4137	22	60	122.2980	0.0004167	25	19.8
3	60	0.4137	23	60	122.3240	0.0004333	26	20.6
3	60	0.4137	24	60	122.3490	0.0004167	25	19.8
3	60	0.4137	25	60	122.3745	0.0004250	25.5	20.2
3	60	0.4137	26	60	122.4000	0.0004250	25.5	20.2
3	60	0.4137	27	60	122.4260	0.0004333	26	20.6
3	60	0.4137	28	60	122.4510	0.0004167	25	19.8
3	60	0.4137	29	60	122.4760	0.0004167	25	19.8
3	60	0.4137	30	60	122.5020	0.0004333	26	20.6
4	45	0.3103	31	60	122.5170	0.0002500	15	15.9
4	45	0.3103	32	60	122.5300	0.0002167	13	13.7
4	45	0.3103	33	60	122.5425	0.0002083	12.5	13.2
4	45	0.3103	34	60	122.5550	0.0002083	12.5	13.2
4	45	0.3103	35	60	122.5670	0.0002000	12	12.7
4	45	0.3103	36	60	122.5795	0.0002083	12.5	13.2
4	45	0.3103	37	60	122.5915	0.0002000	12	12.7
4	45	0.3103	38	60	122.6035	0.0002000	12	12.7
4	45	0.3103	39	60	122.6155	0.0002000	12	12.7
4	45	0.3103	40	60	122.6260	0.0001750	10.5	11.1
5	30	0.2068	41	60	122.6310	0.0000833	5	7.9
5	30	0.2068	42	60	122.6325	0.0000250	1.5	2.4
5	30	0.2068	43	60	122.6340	0.0000250	1.5	2.4
5	30	0.2068	44	60	122.6355	0.0000250	1.5	2.4
5	30	0.2068	45	60	122.6365	0.0000167	1	1.6
5	30	0.2068	46	60	122.6380	0.0000250	1.5	2.4
5	30	0.2068	47	60	122.6390	0.0000167	1	1.6
5	30	0.2068	48	60	122.6400	0.0000167	1	1.6
5	30	0.2068	49	60	122.6410	0.0000167	1	1.6
5	30	0.2068	50	60	122.6425	0.0000250	1.5	2.4

FIGURE D-6-5

BOREHOLE ID	BH80	DATE	30-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~150 L	
Lower Packer Depth	22.58	mbtop	20.5 mbgs		
Upper Packer Depth	19.53	mbtop	17.4 mbgs		
Bedrock Stratigraphy	ROCHESTER / DECEW				
Packer Interval (L)	3.05	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	122.6450	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)		(m3/s)	(L/min)	
1	30	0.2068	1	60	122.6465	0.0000250	1.5	2.4
1	30	0.2068	2	60	122.6485	0.0000333	2	3.2
1	30	0.2068	3	60	122.6500	0.0000250	1.5	2.4
1	30	0.2068	4	60	122.6515	0.0000250	1.5	2.4
1	30	0.2068	5	60	122.6530	0.0000250	1.5	2.4
1	30	0.2068	6	60	122.6545	0.0000250	1.5	2.4
1	30	0.2068	7	60	122.6560	0.0000250	1.5	2.4
1	30	0.2068	8	60	122.6575	0.0000250	1.5	2.4
1	30	0.2068	9	60	122.6590	0.0000250	1.5	2.4
1	30	0.2068	10	60	122.6605	0.0000250	1.5	2.4
2	45	0.3103	11	60	122.6620	0.0000250	1.5	1.6
2	45	0.3103	12	60	122.6640	0.0000333	2	2.1
2	45	0.3103	13	60	122.6655	0.0000250	1.5	1.6
2	45	0.3103	14	60	122.6675	0.0000333	2	2.1
2	45	0.3103	15	60	122.6690	0.0000250	1.5	1.6
2	45	0.3103	16	60	122.6705	0.0000250	1.5	1.6
2	45	0.3103	17	60	122.6720	0.0000250	1.5	1.6
2	45	0.3103	18	60	122.6740	0.0000333	2	2.1
2	45	0.3103	19	60	122.6755	0.0000250	1.5	1.6
2	45	0.3103	20	60	122.6775	0.0000333	2	2.1
3	60	0.4137	21	60	122.6870	0.0001583	9.5	7.5
3	60	0.4137	22	60	122.6995	0.0002083	12.5	9.9
3	60	0.4137	23	60	122.7130	0.0002250	13.5	10.7
3	60	0.4137	24	60	122.7255	0.0002083	12.5	9.9
3	60	0.4137	25	60	122.7380	0.0002083	12.5	9.9
3	60	0.4137	26	60	122.7510	0.0002167	13	10.3
3	60	0.4137	27	60	122.7630	0.0002000	12	9.5
3	60	0.4137	28	60	122.7755	0.0002083	12.5	9.9
3	60	0.4137	29	60	122.7885	0.0002167	13	10.3
3	60	0.4137	30	60	122.8010	0.0002083	12.5	9.9
4	45	0.3103	31	60	122.8040	0.0000500	3	3.2
4	45	0.3103	32	60	122.8050	0.0000167	1	1.1
4	45	0.3103	33	60	122.8060	0.0000167	1	1.1
4	45	0.3103	34	60	122.8075	0.0000250	1.5	1.6
4	45	0.3103	35	60	122.8090	0.0000250	1.5	1.6
4	45	0.3103	36	60	122.8100	0.0000167	1	1.1
4	45	0.3103	37	60	122.8115	0.0000250	1.5	1.6
4	45	0.3103	38	60	122.8125	0.0000167	1	1.1
4	45	0.3103	39	60	122.8135	0.0000167	1	1.1
4	45	0.3103	40	60	122.8150	0.0000250	1.5	1.6
5	30	0.2068	41	60	122.8155	0.0000083	0.5	0.8
5	30	0.2068	42	60	122.8165	0.0000167	1	1.6
5	30	0.2068	43	60	122.8175	0.0000167	1	1.6
5	30	0.2068	44	60	122.8185	0.0000167	1	1.6
5	30	0.2068	45	60	122.8195	0.0000167	1	1.6
5	30	0.2068	46	60	122.8205	0.0000167	1	1.6
5	30	0.2068	47	60	122.8215	0.0000167	1	1.6
5	30	0.2068	48	60	122.8225	0.0000167	1	1.6
5	30	0.2068	49	60	122.8235	0.0000167	1	1.6
5	30	0.2068	50	60	122.8245	0.0000167	1	1.6

FIGURE D-6-6

BOREHOLE ID	BH80	DATE	30-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~850 L	
Lower Packer Depth	19.53	mbtop	17.4 mbgs		
Upper Packer Depth	16.48	mbtop	14.4 mbgs		
Bedrock Stratigraphy	DECEW				
Packer Interval (L)	3.05	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	122.8290	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	122.8340		0.0000833	5	7.9
1	30	0.2068	2	60	122.8390		0.0000833	5	7.9
1	30	0.2068	3	60	122.8440		0.0000833	5	7.9
1	30	0.2068	4	60	122.8495		0.0000917	5.5	8.7
1	30	0.2068	5	60	122.8550		0.0000917	5.5	8.7
1	30	0.2068	6	60	122.8600		0.0000833	5	7.9
1	30	0.2068	7	60	122.8655		0.0000917	5.5	8.7
1	30	0.2068	8	60	122.8710		0.0000917	5.5	8.7
1	30	0.2068	9	60	122.8770		0.0001000	6	9.5
1	30	0.2068	10	60	122.8830		0.0001000	6	9.5
2	45	0.3103	11	60	122.8940		0.0001833	11	11.6
2	45	0.3103	12	60	122.9055		0.0001917	11.5	12.2
2	45	0.3103	13	60	122.9170		0.0001917	11.5	12.2
2	45	0.3103	14	60	122.9310		0.0002333	14	14.8
2	45	0.3103	15	60	122.9440		0.0002167	13	13.7
2	45	0.3103	16	60	122.9570		0.0002167	13	13.7
2	45	0.3103	17	60	122.9710		0.0002333	14	14.8
2	45	0.3103	18	60	122.9870		0.0002667	16	16.9
2	45	0.3103	19	60	123.0040		0.0002833	17	18.0
2	45	0.3103	20	60	123.0200		0.0002667	16	16.9
3	60	0.4137	21	60	123.0520		0.0005333	32	25.4
3	60	0.4137	22	60	123.0840		0.0005333	32	25.4
3	60	0.4137	23	60	123.1165		0.0005417	32.5	25.8
3	60	0.4137	24	60	123.1490		0.0005417	32.5	25.8
3	60	0.4137	25	60	123.1830		0.0005667	34	26.9
3	60	0.4137	26	60	123.2160		0.0005500	33	26.2
3	60	0.4137	27	60	123.2495		0.0005583	33.5	26.6
3	60	0.4137	28	60	123.2840		0.0005750	34.5	27.3
3	60	0.4137	29	60	123.3240		0.0006667	40	31.7
3	60	0.4137	30	60	123.3660		0.0007000	42	33.3
4	45	0.3103	31	60	123.3860		0.0003333	20	21.1
4	45	0.3103	32	60	123.4090		0.0003833	23	24.3
4	45	0.3103	33	60	123.4350		0.0004333	26	27.5
4	45	0.3103	34	60	123.4610		0.0004333	26	27.5
4	45	0.3103	35	60	123.4870		0.0004333	26	27.5
4	45	0.3103	36	60	123.5130		0.0004333	26	27.5
4	45	0.3103	37	60	123.5390		0.0004333	26	27.5
4	45	0.3103	38	60	123.5650		0.0004333	26	27.5
4	45	0.3103	39	60	123.5910		0.0004333	26	27.5
4	45	0.3103	40	60	123.6160		0.0004167	25	26.4
5	30	0.2068	41	60	123.6250		0.0001500	9	14.3
5	30	0.2068	42	60	123.6350		0.0001667	10	15.9
5	30	0.2068	43	60	123.6450		0.0001667	10	15.9
5	30	0.2068	44	60	123.6560		0.0001833	11	17.4
5	30	0.2068	45	60	123.6670		0.0001833	11	17.4
5	30	0.2068	46	60	123.6790		0.0002000	12	19.0
5	30	0.2068	47	60	123.6920		0.0002167	13	20.6
5	30	0.2068	48	60	123.7040		0.0002000	12	19.0
5	30	0.2068	49	60	123.7170		0.0002167	13	20.6
5	30	0.2068	50	60	123.7300		0.0002167	13	20.6

FIGURE D-6-7

BOREHOLE ID	BH80	DATE	30-Apr-25	STAFF:	JD
Stickup	2.09	mags			
EOH	38.39	mbtop	36.3 mbgs	-total volume used from tote ~3800 L	
Lower Packer Depth	16.48	mbtop	14.4 mbgs		
Upper Packer Depth	13.44	mbtop	11.4 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.04	m			
Static WL	5.09	mbtop	3.0 mbgs		
Totalizer (pre-test)	123.8000	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	20	0.1379	1	60	123.8650		0.0010833	65	155.1
1	20	0.1379	2	60	123.9310		0.0011000	66	157.4
1	20	0.1379	3	60	123.9980		0.0011167	67	159.8
1	20	0.1379	4	60	124.0630		0.0010833	65	155.1
1	20	0.1379	5	60	124.1290		0.0011000	66	157.4
1	20	0.1379	6	60	124.1950		0.0011000	66	157.4
1	20	0.1379	7	60	124.2620		0.0011167	67	159.8
1	20	0.1379	8	60	124.3290		0.0011167	67	159.8
1	20	0.1379	9	60	124.3950		0.0011000	66	157.4
1	20	0.1379	10	60	124.4630		0.0011333	68	162.2
2	30	0.2068	11	60	124.5450		0.0013667	82	130.4
2	30	0.2068	12	60	124.6260		0.0013500	81	128.8
2	30	0.2068	13	60	124.7110		0.0014167	85	135.2
2	30	0.2068	14	60	124.7950		0.0014000	84	133.6
2	30	0.2068	15	60	124.8780		0.0013833	83	132.0
2	30	0.2068	16	60	124.9630		0.0014167	85	135.2
2	30	0.2068	17	60	125.0470		0.0014000	84	133.6
2	30	0.2068	18	60	125.1300		0.0013833	83	132.0
2	30	0.2068	19	60	125.2130		0.0013833	83	132.0
2	30	0.2068	20	60	125.2970		0.0014000	84	133.6
3	40	0.2758	21	60	125.3880		0.0015167	91	108.5
3	40	0.2758	22	60	125.4790		0.0015167	91	108.5
3	40	0.2758	23	60	125.5700		0.0015167	91	108.5
3	40	0.2758	24	60	125.6610		0.0015167	91	108.5
3	40	0.2758	25	60	125.7550		0.0015667	94	112.1
3	40	0.2758	26	60	125.8480		0.0015500	93	110.9
3	40	0.2758	27	60	125.9390		0.0015167	91	108.5
3	40	0.2758	28	60	126.0300		0.0015167	91	108.5
3	40	0.2758	29	60	126.1270		0.0016167	97	115.7
3	40	0.2758	30	60	126.2190		0.0015333	92	109.7
4	30	0.2068	31	60	126.3030		0.0014000	84	133.6
4	30	0.2068	32	60	126.3820		0.0013167	79	125.6
4	30	0.2068	33	60	126.4620		0.0013333	80	127.2
4	30	0.2068	34	60	126.5420		0.0013333	80	127.2
4	30	0.2068	35	60	126.6230		0.0013500	81	128.8
4	30	0.2068	36	60	126.7020		0.0013167	79	125.6
4	30	0.2068	37	60	126.7840		0.0013667	82	130.4
4	30	0.2068	38	60	126.8630		0.0013167	79	125.6
4	30	0.2068	39	60	126.9450		0.0013667	82	130.4
4	30	0.2068	40	60	127.0250		0.0013333	80	127.2
5	20	0.1379	41	60	127.0940		0.0011500	69	164.6
5	20	0.1379	42	60	127.1630		0.0011500	69	164.6
5	20	0.1379	43	60	127.2320		0.0011500	69	164.6
5	20	0.1379	44	60	127.3000		0.0011333	68	162.2
5	20	0.1379	45	60	127.3670		0.0011167	67	159.8
5	20	0.1379	46	60	127.4360		0.0011500	69	164.6
5	20	0.1379	47	60	127.5050		0.0011500	69	164.6
5	20	0.1379	48	60	127.5730		0.0011333	68	162.2
5	20	0.1379	49	60	127.6440		0.0011833	71	169.4
5	20	0.1379	50	60	127.7190		0.0012500	75	178.9

FIGURE D-7-1

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	CJ
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	31.82	mbtop	31.3 mbgs		
Upper Packer Depth	28.77	mbtop	28.2 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	127.7380	m3			

Test Interval	Pressure		Elapsed Time		Totalizer	Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)	(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	127.7380	0.0000000	0	0.0
1	30	0.2068	2	60	127.7380	0.0000000	0	0.0
1	30	0.2068	3	60	127.7380	0.0000000	0	0.0
1	30	0.2068	4	60	127.7380	0.0000000	0	0.0
1	30	0.2068	5	60	127.7380	0.0000000	0	0.0
1	30	0.2068	6	60	127.7380	0.0000000	0	0.0
1	30	0.2068	7	60	127.7380	0.0000000	0	0.0
1	30	0.2068	8	60	127.7380	0.0000000	0	0.0
1	30	0.2068	9	60	127.7380	0.0000000	0	0.0
1	30	0.2068	10	60	127.7380	0.0000000	0	0.0
2	45	0.3103	11	60	127.7380	0.0000000	0	0.0
2	45	0.3103	12	60	127.7380	0.0000000	0	0.0
2	45	0.3103	13	60	127.7380	0.0000000	0	0.0
2	45	0.3103	14	60	127.7380	0.0000000	0	0.0
2	45	0.3103	15	60	127.7380	0.0000000	0	0.0
2	45	0.3103	16	60	127.7380	0.0000000	0	0.0
2	45	0.3103	17	60	127.7380	0.0000000	0	0.0
2	45	0.3103	18	60	127.7380	0.0000000	0	0.0
2	45	0.3103	19	60	127.7380	0.0000000	0	0.0
2	45	0.3103	20	60	127.7380	0.0000000	0	0.0
3	60	0.4137	21	60	127.7380	0.0000000	0	0.0
3	60	0.4137	22	60	127.7380	0.0000000	0	0.0
3	60	0.4137	23	60	127.7385	0.0000083	0.5	0.4
3	60	0.4137	24	60	127.7390	0.0000083	0.5	0.4
3	60	0.4137	25	60	127.7395	0.0000083	0.5	0.4
3	60	0.4137	26	60	127.7400	0.0000083	0.5	0.4
3	60	0.4137	27	60	127.7405	0.0000083	0.5	0.4
3	60	0.4137	28	60	127.7410	0.0000083	0.5	0.4
3	60	0.4137	29	60	127.7420	0.0000167	1	0.8
3	60	0.4137	30	60	127.7420	0.0000000	0	0.0
4	45	0.3103	31	60	127.7430	0.0000167	1	1.1
4	45	0.3103	32	60	127.7430	0.0000000	0	0.0
4	45	0.3103	33	60	127.7430	0.0000000	0	0.0
4	45	0.3103	34	60	127.7430	0.0000000	0	0.0
4	45	0.3103	35	60	127.7430	0.0000000	0	0.0
4	45	0.3103	36	60	127.7430	0.0000000	0	0.0
4	45	0.3103	37	60	127.7430	0.0000000	0	0.0
4	45	0.3103	38	60	127.7430	0.0000000	0	0.0
4	45	0.3103	39	60	127.7435	0.0000083	0.5	0.5
4	45	0.3103	40	60	127.7435	0.0000000	0	0.0
5	30	0.2068	41	60	127.7440	0.0000083	0.5	0.8
5	30	0.2068	42	60	127.7440	0.0000000	0	0.0
5	30	0.2068	43	60	127.7440	0.0000000	0	0.0
5	30	0.2068	44	60	127.7440	0.0000000	0	0.0
5	30	0.2068	45	60	127.7440	0.0000000	0	0.0
5	30	0.2068	46	60	127.7440	0.0000000	0	0.0
5	30	0.2068	47	60	127.7440	0.0000000	0	0.0
5	30	0.2068	48	60	127.7440	0.0000000	0	0.0
5	30	0.2068	49	60	127.7440	0.0000000	0	0.0
5	30	0.2068	50	60	127.7440	0.0000000	0	0.0

FIGURE D-7-2

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	CJ
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 0 L	
Lower Packer Depth	28.77	mbtop	28.2 mbgs		
Upper Packer Depth	25.73	mbtop	25.2 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.04	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	127.7440	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	127.7440		0.0000000	0	0.0
1	30	0.2068	2	60	127.7440		0.0000000	0	0.0
1	30	0.2068	3	60	127.7440		0.0000000	0	0.0
1	30	0.2068	4	60	127.7440		0.0000000	0	0.0
1	30	0.2068	5	60	127.7440		0.0000000	0	0.0
1	30	0.2068	6	60	127.7440		0.0000000	0	0.0
1	30	0.2068	7	60	127.7440		0.0000000	0	0.0
1	30	0.2068	8	60	127.7440		0.0000000	0	0.0
1	30	0.2068	9	60	127.7440		0.0000000	0	0.0
1	30	0.2068	10	60	127.7440		0.0000000	0	0.0
2	45	0.3103	11	60	127.7450		0.0000167	1	1.1
2	45	0.3103	12	60	127.7450		0.0000000	0	0.0
2	45	0.3103	13	60	127.7450		0.0000000	0	0.0
2	45	0.3103	14	60	127.7450		0.0000000	0	0.0
2	45	0.3103	15	60	127.7450		0.0000000	0	0.0
2	45	0.3103	16	60	127.7455		0.0000083	0.5	0.5
2	45	0.3103	17	60	127.7455		0.0000000	0	0.0
2	45	0.3103	18	60	127.7460		0.0000083	0.5	0.5
2	45	0.3103	19	60	127.7460		0.0000000	0	0.0
2	45	0.3103	20	60	127.7460		0.0000000	0	0.0
3	60	0.4137	21	60	127.7470		0.0000167	1	0.8
3	60	0.4137	22	60	127.7475		0.0000083	0.5	0.4
3	60	0.4137	23	60	127.7480		0.0000083	0.5	0.4
3	60	0.4137	24	60	127.7480		0.0000000	0	0.0
3	60	0.4137	25	60	127.7490		0.0000167	1	0.8
3	60	0.4137	26	60	127.7500		0.0000167	1	0.8
3	60	0.4137	27	60	127.7505		0.0000083	0.5	0.4
3	60	0.4137	28	60	127.7510		0.0000083	0.5	0.4
3	60	0.4137	29	60	127.7515		0.0000083	0.5	0.4
3	60	0.4137	30	60	127.7520		0.0000083	0.5	0.4

FIGURE D-7-3

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 150 L	
Lower Packer Depth	25.73	mbtop	25.2 mbgs		
Upper Packer Depth	22.68	mbtop	22.2 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	127.7530	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	127.7530		0.0000000	0	0.0
1	30	0.2068	2	60	127.7540		0.0000167	1	1.6
1	30	0.2068	3	60	127.7545		0.0000083	0.5	0.8
1	30	0.2068	4	60	127.7555		0.0000167	1	1.6
1	30	0.2068	5	60	127.7565		0.0000167	1	1.6
1	30	0.2068	6	60	127.7575		0.0000167	1	1.6
1	30	0.2068	7	60	127.7580		0.0000083	0.5	0.8
1	30	0.2068	8	60	127.7585		0.0000083	0.5	0.8
1	30	0.2068	9	60	127.7595		0.0000167	1	1.6
1	30	0.2068	10	60	127.7600		0.0000083	0.5	0.8
2	45	0.3103	11	60	127.7610		0.0000167	1	1.1
2	45	0.3103	12	60	127.7620		0.0000167	1	1.1
2	45	0.3103	13	60	127.7630		0.0000167	1	1.1
2	45	0.3103	14	60	127.7640		0.0000167	1	1.1
2	45	0.3103	15	60	127.7650		0.0000167	1	1.1
2	45	0.3103	16	60	127.7660		0.0000167	1	1.1
2	45	0.3103	17	60	127.7670		0.0000167	1	1.1
2	45	0.3103	18	60	127.7680		0.0000167	1	1.1
2	45	0.3103	19	60	127.7685		0.0000083	0.5	0.5
2	45	0.3103	20	60	127.7695		0.0000167	1	1.1
3	60	0.4137	21	60	127.7705		0.0000167	1	0.8
3	60	0.4137	22	60	127.7720		0.0000250	1.5	1.2
3	60	0.4137	23	60	127.7735		0.0000250	1.5	1.2
3	60	0.4137	24	60	127.7755		0.0000333	2	1.6
3	60	0.4137	25	60	127.7777		0.0000367	2.2	1.7
3	60	0.4137	26	60	127.7785		0.0000133	0.8	0.6
3	60	0.4137	27	60	127.7800		0.0000250	1.5	1.2
3	60	0.4137	28	60	127.7820		0.0000333	2	1.6
3	60	0.4137	29	60	127.7835		0.0000250	1.5	1.2
3	60	0.4137	30	60	127.7850		0.0000250	1.5	1.2
4	45	0.3103	31	60	127.7860		0.0000167	1	1.1
4	45	0.3103	32	60	127.7875		0.0000250	1.5	1.6
4	45	0.3103	33	60	127.7885		0.0000167	1	1.1
4	45	0.3103	34	60	127.7900		0.0000250	1.5	1.6
4	45	0.3103	35	60	127.7910		0.0000167	1	1.1
4	45	0.3103	36	60	127.7925		0.0000250	1.5	1.6
4	45	0.3103	37	60	127.7935		0.0000167	1	1.1
4	45	0.3103	38	60	127.7950		0.0000250	1.5	1.6
4	45	0.3103	39	60	127.7960		0.0000167	1	1.1
4	45	0.3103	40	60	127.7975		0.0000250	1.5	1.6
5	30	0.2068	41	60	127.7980		0.0000083	0.5	0.8
5	30	0.2068	42	60	127.7990		0.0000167	1	1.6
5	30	0.2068	43	60	127.7995		0.0000083	0.5	0.8
5	30	0.2068	44	60	127.8005		0.0000167	1	1.6
5	30	0.2068	45	60	127.8015		0.0000167	1	1.6
5	30	0.2068	46	60	127.8025		0.0000167	1	1.6
5	30	0.2068	47	60	127.8030		0.0000083	0.5	0.8
5	30	0.2068	48	60	127.8040		0.0000167	1	1.6
5	30	0.2068	49	60	127.8050		0.0000167	1	1.6
5	30	0.2068	50	60	127.8055		0.0000083	0.5	0.8

FIGURE D-7-4

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 150 L	
Lower Packer Depth	22.68	mbtop	22.2 mbgs		
Upper Packer Depth	19.63	mbtop	19.1 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	127.8080	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	30	0.2068	1	60	127.8100		0.0000333	2	3.2
1	30	0.2068	2	60	127.8120		0.0000333	2	3.2
1	30	0.2068	3	60	127.8145		0.0000417	2.5	4.0
1	30	0.2068	4	60	127.8170		0.0000417	2.5	4.0
1	30	0.2068	5	60	127.8190		0.0000333	2	3.2
1	30	0.2068	6	60	127.8215		0.0000417	2.5	4.0
1	30	0.2068	7	60	127.8240		0.0000417	2.5	4.0
1	30	0.2068	8	60	127.8260		0.0000333	2	3.2
1	30	0.2068	9	60	127.8285		0.0000417	2.5	4.0
1	30	0.2068	10	60	127.8305		0.0000333	2	3.2
2	45	0.3103	11	60	127.8335		0.0000500	3	3.2
2	45	0.3103	12	60	127.8360		0.0000417	2.5	2.6
2	45	0.3103	13	60	127.8390		0.0000500	3	3.2
2	45	0.3103	14	60	127.8420		0.0000500	3	3.2
2	45	0.3103	15	60	127.8450		0.0000500	3	3.2
2	45	0.3103	16	60	127.8475		0.0000417	2.5	2.6
2	45	0.3103	17	60	127.8500		0.0000417	2.5	2.6
2	45	0.3103	18	60	127.8530		0.0000500	3	3.2
2	45	0.3103	19	60	127.8555		0.0000417	2.5	2.6
2	45	0.3103	20	60	127.8585		0.0000500	3	3.2
3	60	0.4137	21	60	127.8620		0.0000583	3.5	2.8
3	60	0.4137	22	60	127.8650		0.0000500	3	2.4
3	60	0.4137	23	60	127.8685		0.0000583	3.5	2.8
3	60	0.4137	24	60	127.8720		0.0000583	3.5	2.8
3	60	0.4137	25	60	127.8755		0.0000583	3.5	2.8
3	60	0.4137	26	60	127.8790		0.0000583	3.5	2.8
3	60	0.4137	27	60	127.8825		0.0000583	3.5	2.8
3	60	0.4137	28	60	127.8865		0.0000667	4	3.2
3	60	0.4137	29	60	127.8895		0.0000500	3	2.4
3	60	0.4137	30	60	127.8930		0.0000583	3.5	2.8
4	45	0.3103	31	60	127.8960		0.0000500	3	3.2
4	45	0.3103	32	60	127.8985		0.0000417	2.5	2.6
4	45	0.3103	33	60	127.9015		0.0000500	3	3.2
4	45	0.3103	34	60	127.9040		0.0000417	2.5	2.6
4	45	0.3103	35	60	127.9070		0.0000500	3	3.2
4	45	0.3103	36	60	127.9100		0.0000500	3	3.2
4	45	0.3103	37	60	127.9125		0.0000417	2.5	2.6
4	45	0.3103	38	60	127.9150		0.0000417	2.5	2.6
4	45	0.3103	39	60	127.9180		0.0000500	3	3.2
4	45	0.3103	40	60	127.9205		0.0000417	2.5	2.6
5	30	0.2068	41	60	127.9230		0.0000417	2.5	4.0
5	30	0.2068	42	60	127.9250		0.0000333	2	3.2
5	30	0.2068	43	60	127.9275		0.0000417	2.5	4.0
5	30	0.2068	44	60	127.9300		0.0000417	2.5	4.0
5	30	0.2068	45	60	127.9320		0.0000333	2	3.2
5	30	0.2068	46	60	127.9345		0.0000417	2.5	4.0
5	30	0.2068	47	60	127.9365		0.0000333	2	3.2
5	30	0.2068	48	60	127.9385		0.0000333	2	3.2
5	30	0.2068	49	60	127.9410		0.0000417	2.5	4.0
5	30	0.2068	50	60	127.9430		0.0000333	2	3.2

FIGURE D-7-5

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 600 L	
Lower Packer Depth	19.63	mbtop	19.1 mbgs		
Upper Packer Depth	16.58	mbtop	16.1 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	127.9470	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	127.9580		0.0001833	11	17.4
1	30	0.2068	2	60	127.9685		0.0001750	10.5	16.6
1	30	0.2068	3	60	127.9790		0.0001750	10.5	16.6
1	30	0.2068	4	60	127.9895		0.0001750	10.5	16.6
1	30	0.2068	5	60	127.9995		0.0001667	10	15.9
1	30	0.2068	6	60	128.0100		0.0001750	10.5	16.6
1	30	0.2068	7	60	128.0200		0.0001667	10	15.9
1	30	0.2068	8	60	128.0305		0.0001750	10.5	16.6
1	30	0.2068	9	60	128.0405		0.0001667	10	15.9
1	30	0.2068	10	60	128.0510		0.0001750	10.5	16.6
2	45	0.3103	11	60	128.0650		0.0002333	14	14.8
2	45	0.3103	12	60	128.0750		0.0001667	10	10.6
2	45	0.3103	13	60	128.0880		0.0002167	13	13.7
2	45	0.3103	14	60	128.0980		0.0001667	10	10.6
2	45	0.3103	15	60	128.1105		0.0002083	12.5	13.2
2	45	0.3103	16	60	128.1225		0.0002000	12	12.7
2	45	0.3103	17	60	128.1340		0.0001917	11.5	12.2
2	45	0.3103	18	60	128.1470		0.0002167	13	13.7
2	45	0.3103	19	60	128.1585		0.0001917	11.5	12.2
2	45	0.3103	20	60	128.1700		0.0001917	11.5	12.2
3	60	0.4137	21	60	128.1860		0.0002667	16	12.7
3	60	0.4137	22	60	128.2000		0.0002333	14	11.1
3	60	0.4137	23	60	128.2160		0.0002667	16	12.7
3	60	0.4137	24	60	128.2310		0.0002500	15	11.9
3	60	0.4137	25	60	128.2465		0.0002583	15.5	12.3
3	60	0.4137	26	60	128.2610		0.0002417	14.5	11.5
3	60	0.4137	27	60	128.2770		0.0002667	16	12.7
3	60	0.4137	28	60	128.2930		0.0002667	16	12.7
3	60	0.4137	29	60	128.3070		0.0002333	14	11.1
3	60	0.4137	30	60	128.3230		0.0002667	16	12.7
4	45	0.3103	31	60	128.3360		0.0002167	13	13.7
4	45	0.3103	32	60	128.3485		0.0002083	12.5	13.2
4	45	0.3103	33	60	128.3610		0.0002083	12.5	13.2
4	45	0.3103	34	60	128.3740		0.0002167	13	13.7
4	45	0.3103	35	60	128.3865		0.0002083	12.5	13.2
4	45	0.3103	36	60	128.3990		0.0002083	12.5	13.2
4	45	0.3103	37	60	128.4115		0.0002083	12.5	13.2
4	45	0.3103	38	60	128.4240		0.0002083	12.5	13.2
4	45	0.3103	39	60	128.4365		0.0002083	12.5	13.2
4	45	0.3103	40	60	128.4490		0.0002083	12.5	13.2
5	30	0.2068	41	60	128.4600		0.0001833	11	17.4
5	30	0.2068	42	60	128.4700		0.0001667	10	15.9
5	30	0.2068	43	60	128.4800		0.0001667	10	15.9
5	30	0.2068	44	60	128.4910		0.0001833	11	17.4
5	30	0.2068	45	60	128.5010		0.0001667	10	15.9
5	30	0.2068	46	60	128.5110		0.0001667	10	15.9
5	30	0.2068	47	60	128.5210		0.0001667	10	15.9
5	30	0.2068	48	60	128.5310		0.0001667	10	15.9
5	30	0.2068	49	60	128.5410		0.0001667	10	15.9
5	30	0.2068	50	60	128.5510		0.0001667	10	15.9

FIGURE D-7-6

BOREHOLE ID	BH81	DATE	13-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 3000 L	
Lower Packer Depth	16.58	mbtop	16.1 mbgs		
Upper Packer Depth	13.53	mbtop	13.0 mbgs		
Bedrock Stratigraphy	ROCHESTER				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	128.5850	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	30	0.2068	1	60	128.6350		0.0008333	50	79.3
1	30	0.2068	2	60	128.6840		0.0008167	49	77.7
1	30	0.2068	3	60	128.7340		0.0008333	50	79.3
1	30	0.2068	4	60	128.7830		0.0008167	49	77.7
1	30	0.2068	5	60	128.8340		0.0008500	51	80.8
1	30	0.2068	6	60	128.8840		0.0008333	50	79.3
1	30	0.2068	7	60	128.9340		0.0008333	50	79.3
1	30	0.2068	8	60	128.9840		0.0008333	50	79.3
1	30	0.2068	9	60	129.0340		0.0008333	50	79.3
1	30	0.2068	10	60	129.0840		0.0008333	50	79.3
2	40	0.2758	11	60	129.1460		0.0010333	62	73.7
2	40	0.2758	12	60	129.2070		0.0010167	61	72.5
2	40	0.2758	13	60	129.2690		0.0010333	62	73.7
2	40	0.2758	14	60	129.3310		0.0010333	62	73.7
2	40	0.2758	15	60	129.3930		0.0010333	62	73.7
2	40	0.2758	16	60	129.4560		0.0010500	63	74.9
2	40	0.2758	17	60	129.5170		0.0010167	61	72.5
2	40	0.2758	18	60	129.5770		0.0010000	60	71.3
2	40	0.2758	19	60	129.6410		0.0010667	64	76.1
2	40	0.2758	20	60	129.7040		0.0010500	63	74.9
3	50	0.3447	21	60	129.7700		0.0011000	66	62.8
3	50	0.3447	22	60	129.8380		0.0011333	68	64.7
3	50	0.3447	23	60	129.9080		0.0011667	70	66.6
3	50	0.3447	24	60	129.9770		0.0011500	69	65.6
3	50	0.3447	25	60	130.0480		0.0011833	71	67.5
3	50	0.3447	26	60	130.1190		0.0011833	71	67.5
3	50	0.3447	27	60	130.1880		0.0011500	69	65.6
3	50	0.3447	28	60	130.2590		0.0011833	71	67.5
3	50	0.3447	29	60	130.3280		0.0011500	69	65.6
3	50	0.3447	30	60	130.3980		0.0011667	70	66.6
4	40	0.2758	31	60	130.4600		0.0010333	62	73.7
4	40	0.2758	32	60	130.5210		0.0010167	61	72.5
4	40	0.2758	33	60	130.5830		0.0010333	62	73.7
4	40	0.2758	34	60	130.6440		0.0010167	61	72.5
4	40	0.2758	35	60	130.7050		0.0010167	61	72.5
4	40	0.2758	36	60	130.7680		0.0010500	63	74.9
4	40	0.2758	37	60	130.8300		0.0010333	62	73.7
4	40	0.2758	38	60	130.8920		0.0010333	62	73.7
4	40	0.2758	39	60	130.9530		0.0010167	61	72.5
4	40	0.2758	40	60	131.0150		0.0010333	62	73.7
5	30	0.2068	41	60	131.0720		0.0009500	57	90.4
5	30	0.2068	42	60	131.1290		0.0009500	57	90.4
5	30	0.2068	43	60	131.1870		0.0009667	58	91.9
5	30	0.2068	44	60	131.2440		0.0009500	57	90.4
5	30	0.2068	45	60	131.3010		0.0009500	57	90.4
5	30	0.2068	46	60	131.3580		0.0009500	57	90.4
5	30	0.2068	47	60	131.4150		0.0009500	57	90.4
5	30	0.2068	48	60	131.4730		0.0009667	58	91.9
5	30	0.2068	49	60	131.5300		0.0009500	57	90.4
5	30	0.2068	50	60	131.5870		0.0009500	57	90.4

FIGURE D-7-7

BOREHOLE ID	BH81	DATE	14-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 3200 L	
Lower Packer Depth	13.53	mbtop	13.0 mbgs		
Upper Packer Depth	10.49	mbtop	10.0 mbgs		
Bedrock Stratigraphy	DECEW / GASPORT				
Packer Interval (L)	3.04	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	133.2000	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	(Lugeon)
1	10	0.0689	1	60	133.2590		0.0009833	59	281.5
1	10	0.0689	2	60	133.3180		0.0009833	59	281.5
1	10	0.0689	3	60	133.3760		0.0009667	58	276.7
1	10	0.0689	4	60	133.4360		0.0010000	60	286.3
1	10	0.0689	5	60	133.4960		0.0010000	60	286.3
1	10	0.0689	6	60	133.5540		0.0009667	58	276.7
1	10	0.0689	7	60	133.6140		0.0010000	60	286.3
1	10	0.0689	8	60	133.6750		0.0010167	61	291.0
1	10	0.0689	9	60	133.7330		0.0009667	58	276.7
1	10	0.0689	10	60	133.7920		0.0009833	59	281.5
2	15	0.1034	11	60	133.8540		0.0010333	62	197.2
2	15	0.1034	12	60	133.9180		0.0010667	64	203.6
2	15	0.1034	13	60	133.9820		0.0010667	64	203.6
2	15	0.1034	14	60	134.0470		0.0010833	65	206.7
2	15	0.1034	15	60	134.1080		0.0010167	61	194.0
2	15	0.1034	16	60	134.1720		0.0010667	64	203.6
2	15	0.1034	17	60	134.2360		0.0010667	64	203.6
2	15	0.1034	18	60	134.2990		0.0010500	63	200.4
2	15	0.1034	19	60	134.3630		0.0010667	64	203.6
2	15	0.1034	20	60	134.4270		0.0010667	64	203.6
3	20	0.1379	21	60	134.5000		0.0012167	73	174.1
3	20	0.1379	22	60	134.5740		0.0012333	74	176.5
3	20	0.1379	23	60	134.6470		0.0012167	73	174.1
3	20	0.1379	24	60	134.7210		0.0012333	74	176.5
3	20	0.1379	25	60	134.7950		0.0012333	74	176.5
3	20	0.1379	26	60	134.8690		0.0012333	74	176.5
3	20	0.1379	27	60	134.9420		0.0012167	73	174.1
3	20	0.1379	28	60	135.0160		0.0012333	74	176.5
3	20	0.1379	29	60	135.0900		0.0012333	74	176.5
3	20	0.1379	30	60	135.1640		0.0012333	74	176.5
4	15	0.1034	31	60	135.2310		0.0011167	67	213.1
4	15	0.1034	32	60	135.2930		0.0010333	62	197.2
4	15	0.1034	33	60	135.3570		0.0010667	64	203.6
4	15	0.1034	34	60	135.4220		0.0010833	65	206.7
4	15	0.1034	35	60	135.4850		0.0010500	63	200.4
4	15	0.1034	36	60	135.5490		0.0010667	64	203.6
4	15	0.1034	37	60	135.6120		0.0010500	63	200.4
4	15	0.1034	38	60	135.6760		0.0010667	64	203.6
4	15	0.1034	39	60	135.7400		0.0010667	64	203.6
4	15	0.1034	40	60	135.8050		0.0010833	65	206.7
5	10	0.0689	41	60	135.8600		0.0009167	55	262.4
5	10	0.0689	42	60	135.9160		0.0009333	56	267.2
5	10	0.0689	43	60	135.9720		0.0009333	56	267.2
5	10	0.0689	44	60	136.0280		0.0009333	56	267.2
5	10	0.0689	45	60	136.0720		0.0007333	44	209.9
5	10	0.0689	46	60	136.1380		0.0011000	66	314.9
5	10	0.0689	47	60	136.1940		0.0009333	56	267.2
5	10	0.0689	48	60	136.2510		0.0009500	57	271.9
5	10	0.0689	49	60	136.3060		0.0009167	55	262.4
5	10	0.0689	50	60	136.3620		0.0009333	56	267.2

FIGURE D-7-8

BOREHOLE ID	BH81	DATE	14-May-25	STAFF:	JD
Stickup	0.53	mags			
EOH	33.43	mbtop	32.9 mbgs	-total volume used from tote ~ 3400 L	
Lower Packer Depth	11.50	mbtop	11.0 mbgs		
Upper Packer Depth	8.45	mbtop	7.9 mbgs		
Bedrock Stratigraphy	GASPORT				
Packer Interval (L)	3.05	m			
Static WL	3.69	mbtop	3.2 mbgs		
Totalizer (pre-test)	136.4000	m3			

Test Interval	Pressure		Elapsed Time		Totalizer		Flow Rate		Conductivity
	(PSI)	(MPa)	(min)	(sec)	(m3)		(m3/s)	(L/min)	
1	10	0.0689	1	60	136.4650		0.0010833	65	309.3
1	10	0.0689	2	60	136.5300		0.0010833	65	309.3
1	10	0.0689	3	60	136.5950		0.0010833	65	309.3
1	10	0.0689	4	60	136.6590		0.0010667	64	304.5
1	10	0.0689	5	60	136.7240		0.0010833	65	309.3
1	10	0.0689	6	60	136.7880		0.0010667	64	304.5
1	10	0.0689	7	60	136.8530		0.0010833	65	309.3
1	10	0.0689	8	60	136.9190		0.0011000	66	314.1
1	10	0.0689	9	60	136.9840		0.0010833	65	309.3
1	10	0.0689	10	60	137.0500		0.0011000	66	314.1
2	15	0.1034	11	60	137.1210		0.0011833	71	225.2
2	15	0.1034	12	60	137.1940		0.0012167	73	231.6
2	15	0.1034	13	60	137.2670		0.0012167	73	231.6
2	15	0.1034	14	60	137.3400		0.0012167	73	231.6
2	15	0.1034	15	60	137.4140		0.0012333	74	234.8
2	15	0.1034	16	60	137.4880		0.0012333	74	234.8
2	15	0.1034	17	60	137.5620		0.0012333	74	234.8
2	15	0.1034	18	60	137.6370		0.0012500	75	237.9
2	15	0.1034	19	60	137.7100		0.0012167	73	231.6
2	15	0.1034	20	60	137.7850		0.0012500	75	237.9
3	20	0.1379	21	60	137.8640		0.0013167	79	188.0
3	20	0.1379	22	60	137.9400		0.0012667	76	180.8
3	20	0.1379	23	60	138.0190		0.0013167	79	188.0
3	20	0.1379	24	60	138.0980		0.0013167	79	188.0
3	20	0.1379	25	60	138.1750		0.0012833	77	183.2
3	20	0.1379	26	60	138.2540		0.0013167	79	188.0
3	20	0.1379	27	60	138.3320		0.0013000	78	185.6
3	20	0.1379	28	60	138.4110		0.0013167	79	188.0
3	20	0.1379	29	60	138.4890		0.0013000	78	185.6
3	20	0.1379	30	60	138.5680		0.0013167	79	188.0
4	15	0.1034	31	60	138.6410		0.0012167	73	231.6
4	15	0.1034	32	60	138.7130		0.0012000	72	228.4
4	15	0.1034	33	60	138.7860		0.0012167	73	231.6
4	15	0.1034	34	60	138.8570		0.0011833	71	225.2
4	15	0.1034	35	60	138.9300		0.0012167	73	231.6
4	15	0.1034	36	60	139.0020		0.0012000	72	228.4
4	15	0.1034	37	60	139.0750		0.0012167	73	231.6
4	15	0.1034	38	60	139.1460		0.0011833	71	225.2
4	15	0.1034	39	60	139.2180		0.0012000	72	228.4
4	15	0.1034	40	60	139.2900		0.0012000	72	228.4
5	10	0.0689	41	60	139.3560		0.0011000	66	314.1
5	10	0.0689	42	60	139.4180		0.0010333	62	295.0
5	10	0.0689	43	60	139.4800		0.0010333	62	295.0
5	10	0.0689	44	60	139.5440		0.0010667	64	304.5
5	10	0.0689	45	60	139.6050		0.0010167	61	290.3
5	10	0.0689	46	60	139.6680		0.0010500	63	299.8
5	10	0.0689	47	60	139.7310		0.0010500	63	299.8
5	10	0.0689	48	60	139.7950		0.0010667	64	304.5
5	10	0.0689	49	60	139.8580		0.0010500	63	299.8
5	10	0.0689	50	60	139.9190		0.0010167	61	290.3

APPENDIX D-2

**Single Well Response
Test Analyses**

Figure D-8

75-I (Irondequoit)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 29, 2025

Performed by: CJ

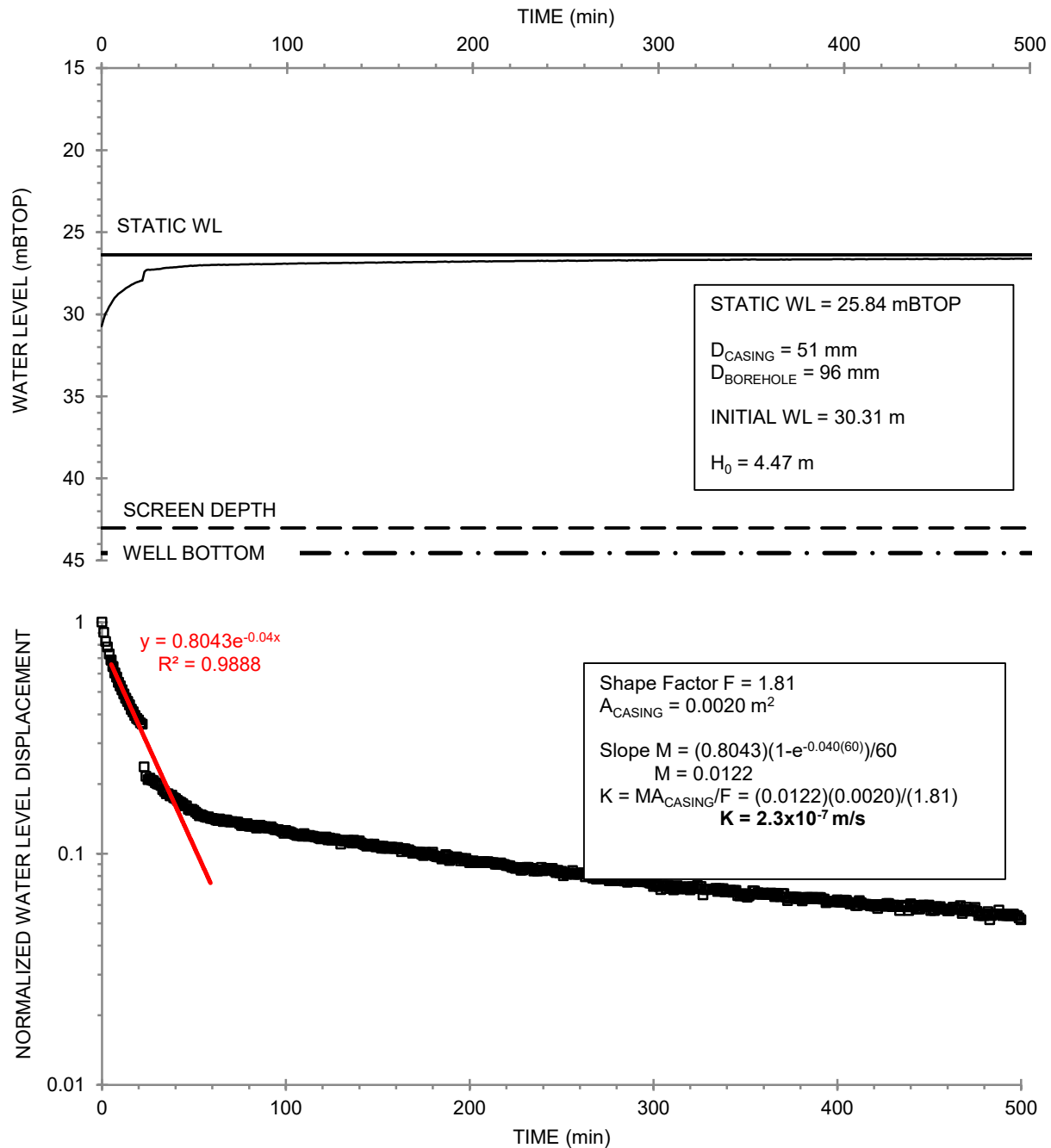


Figure D-9

75-II (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 12, 2025

Performed by: CJ, SK

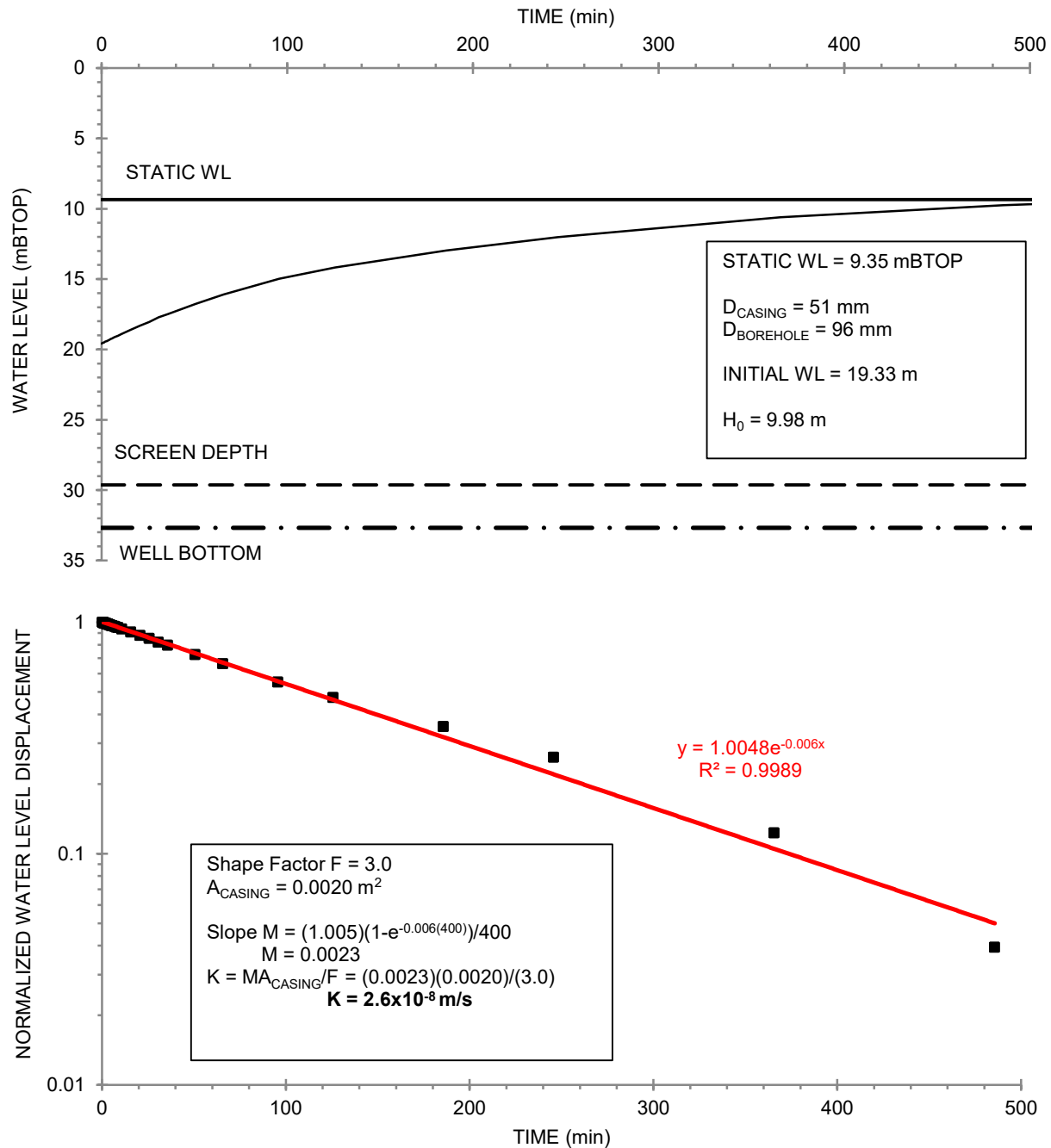


Figure D-10

75-III (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 12, 2025

Performed by: JD, SK

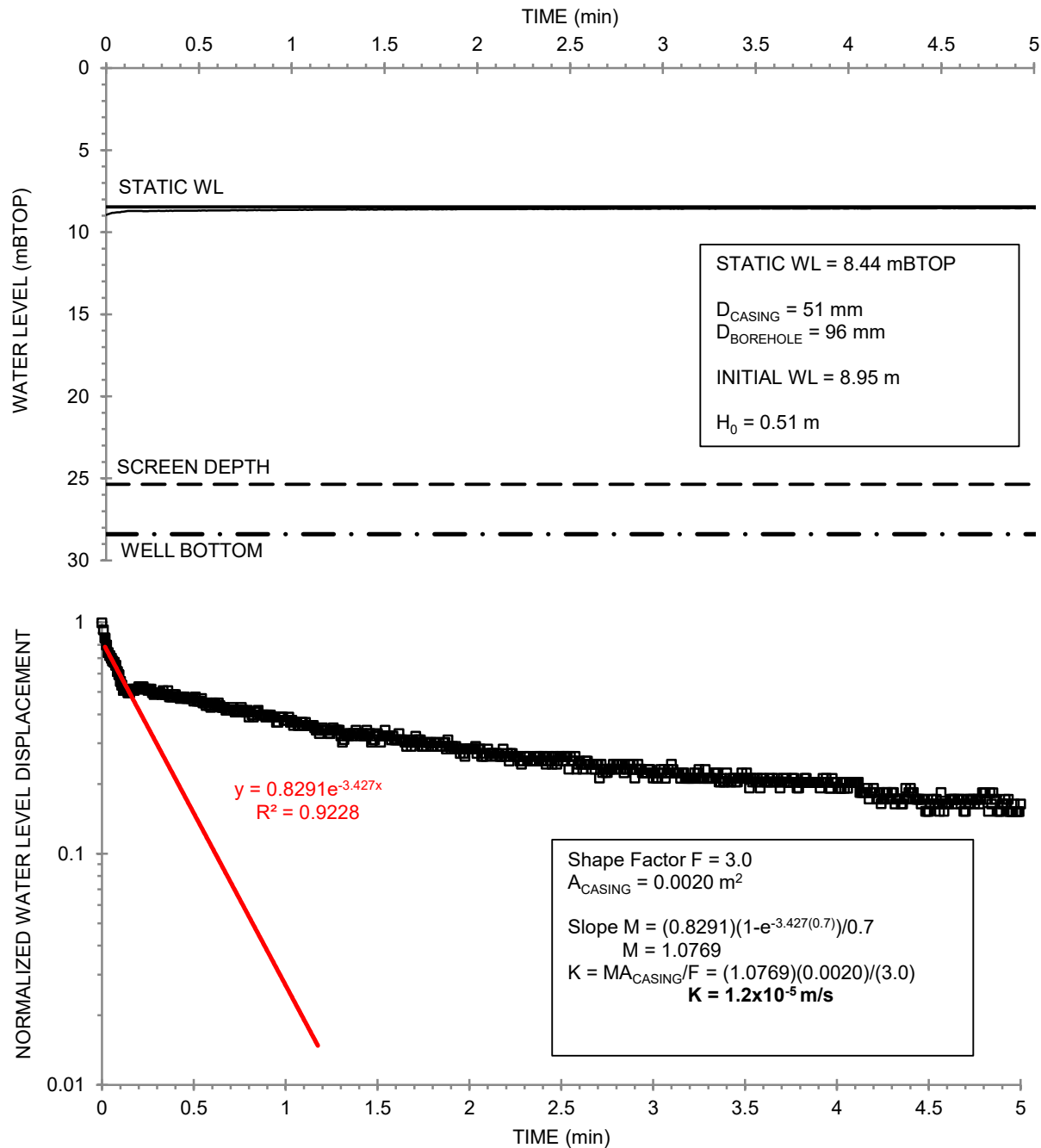


Figure D-11

75-IV (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 6, 2025

Performed by: JD, SK

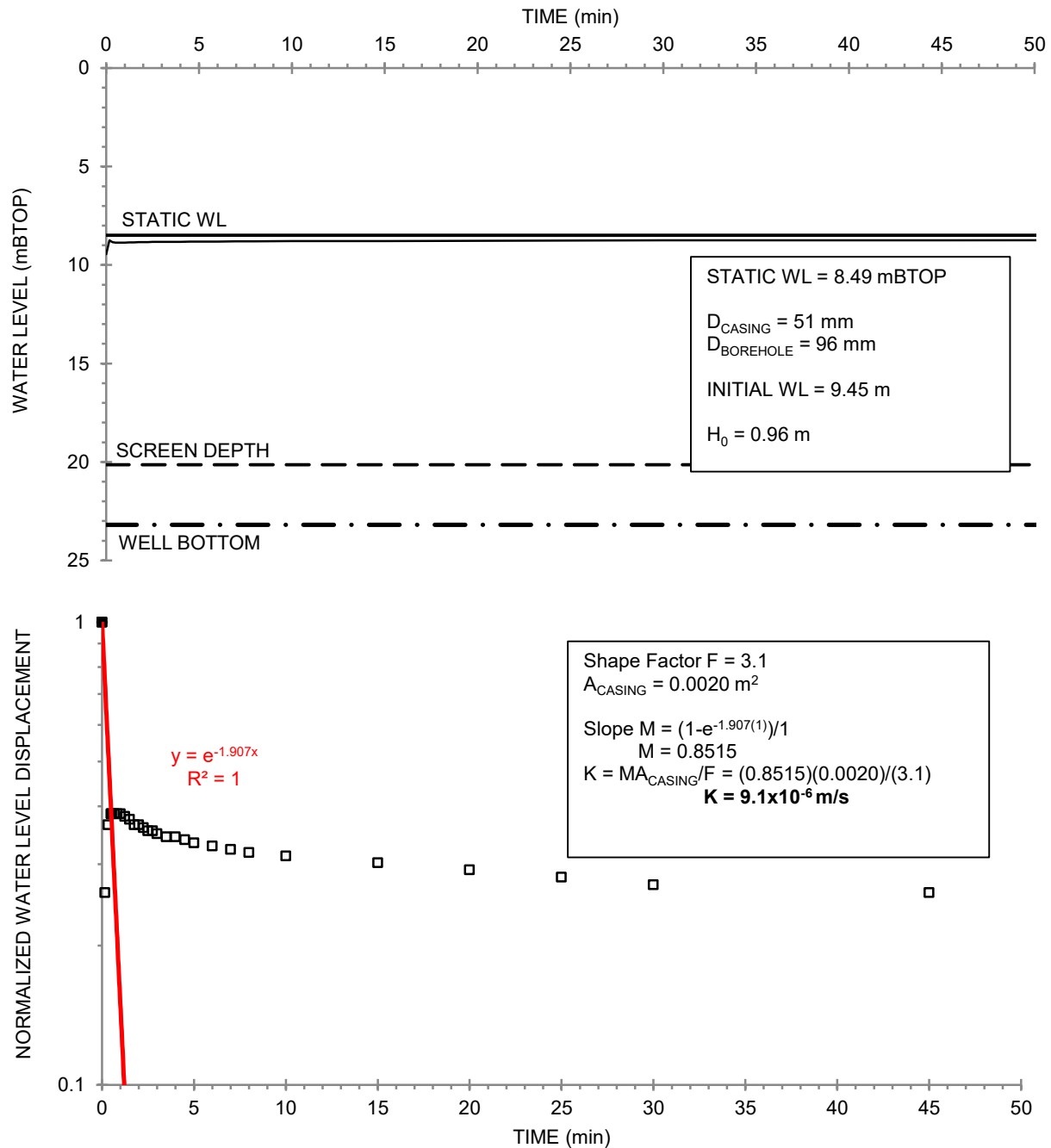


Figure D-12

75-V (Lockport Fm. Goat Is. Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 6, 2025

Performed by: JD, SK

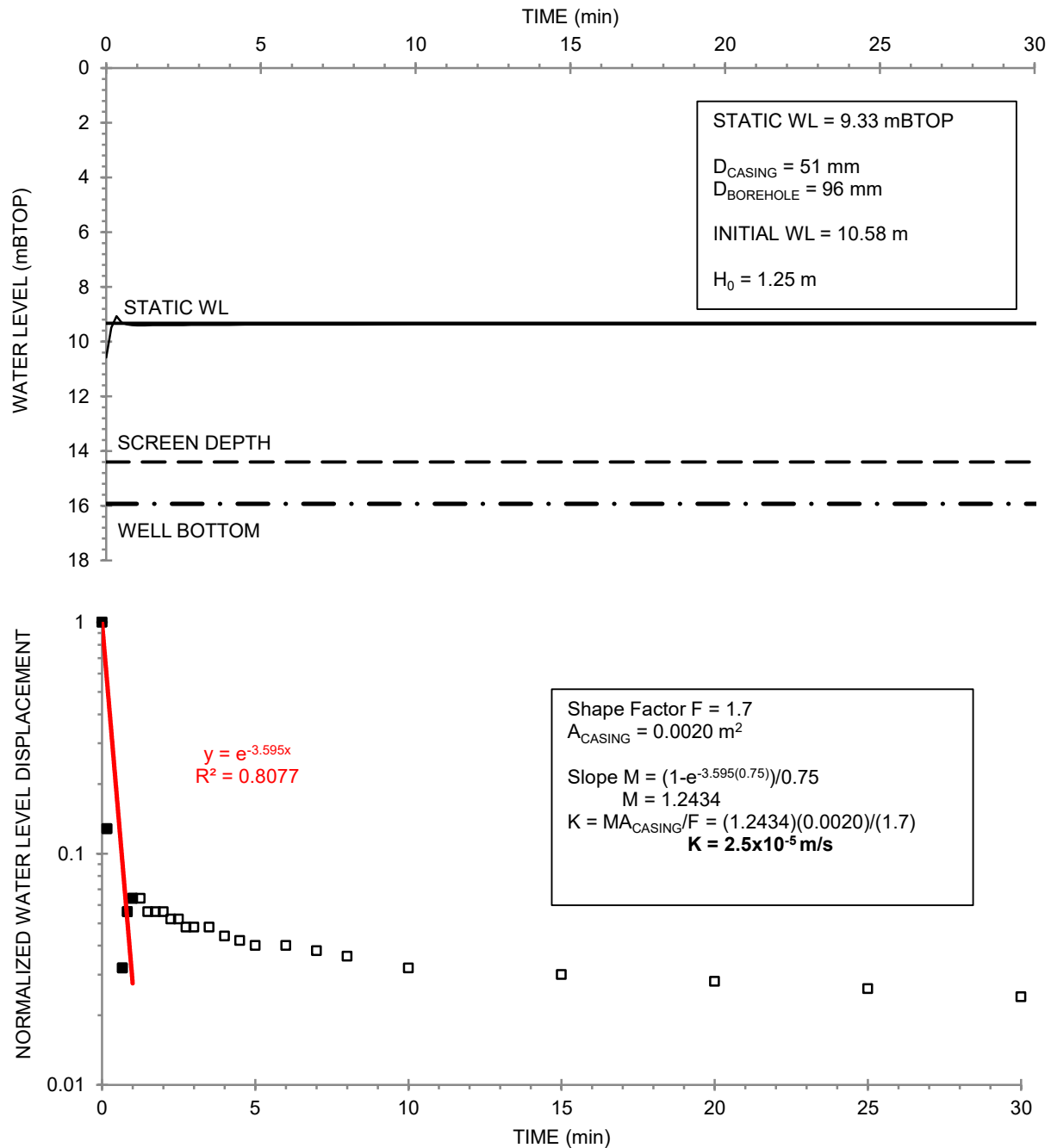


Figure D-13

76-I (Irondequoit)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 7, 2025

Performed by: JD, SK

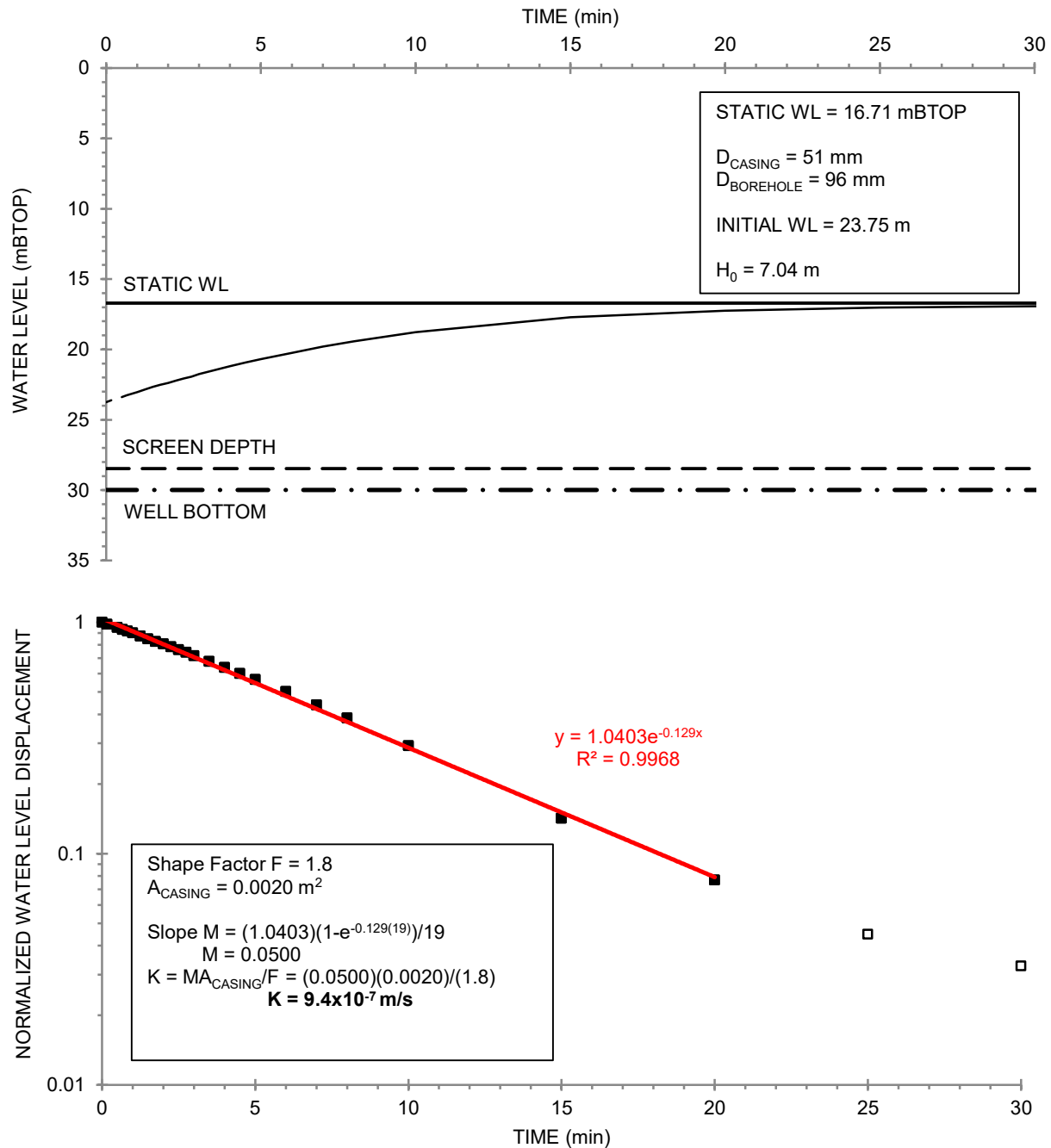


Figure D-14

76-II (Lower Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 7, 2025

Performed by: JD, SK

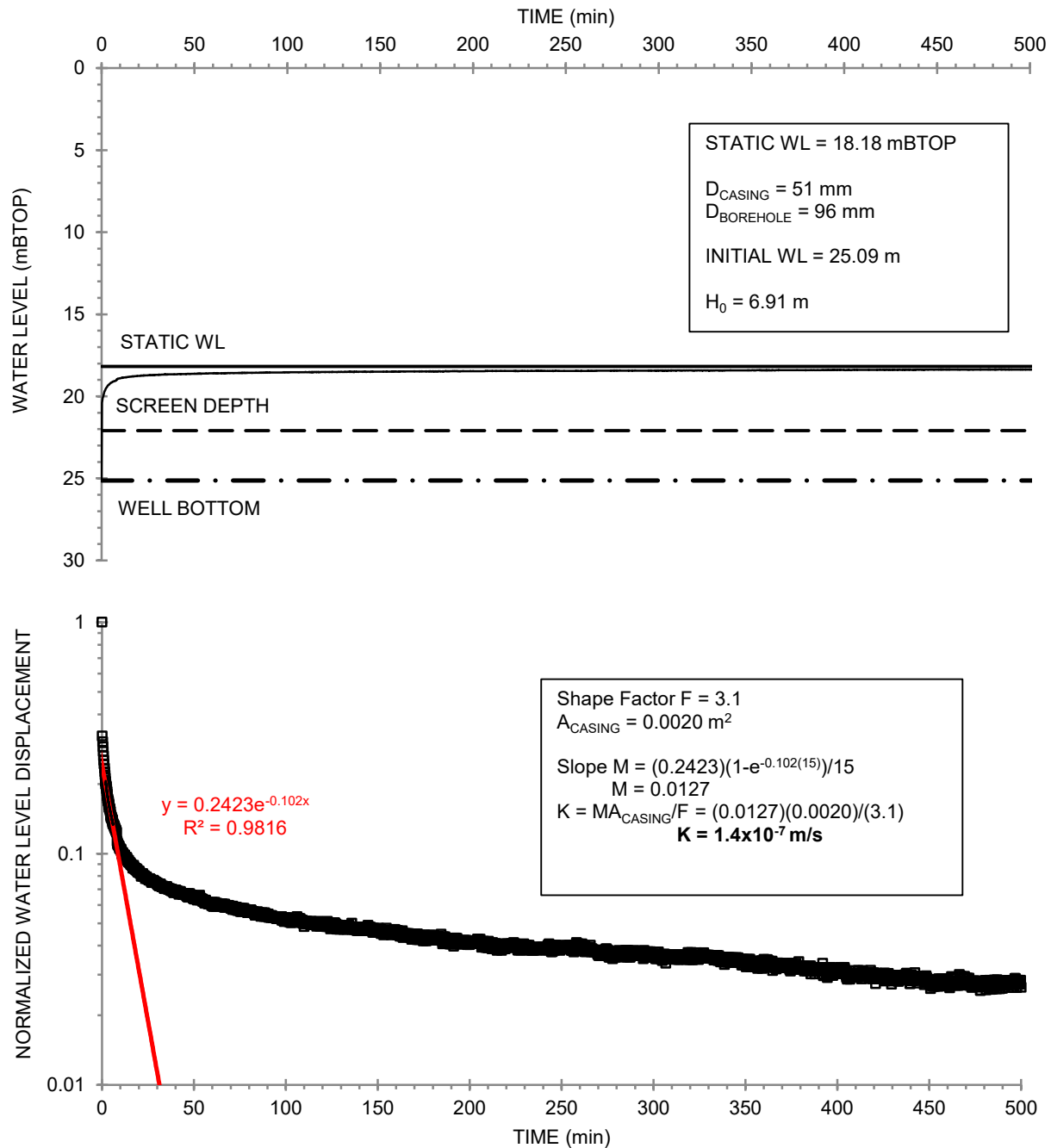


Figure D-15

76-III (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 7, 2025

Performed by: JD, SK

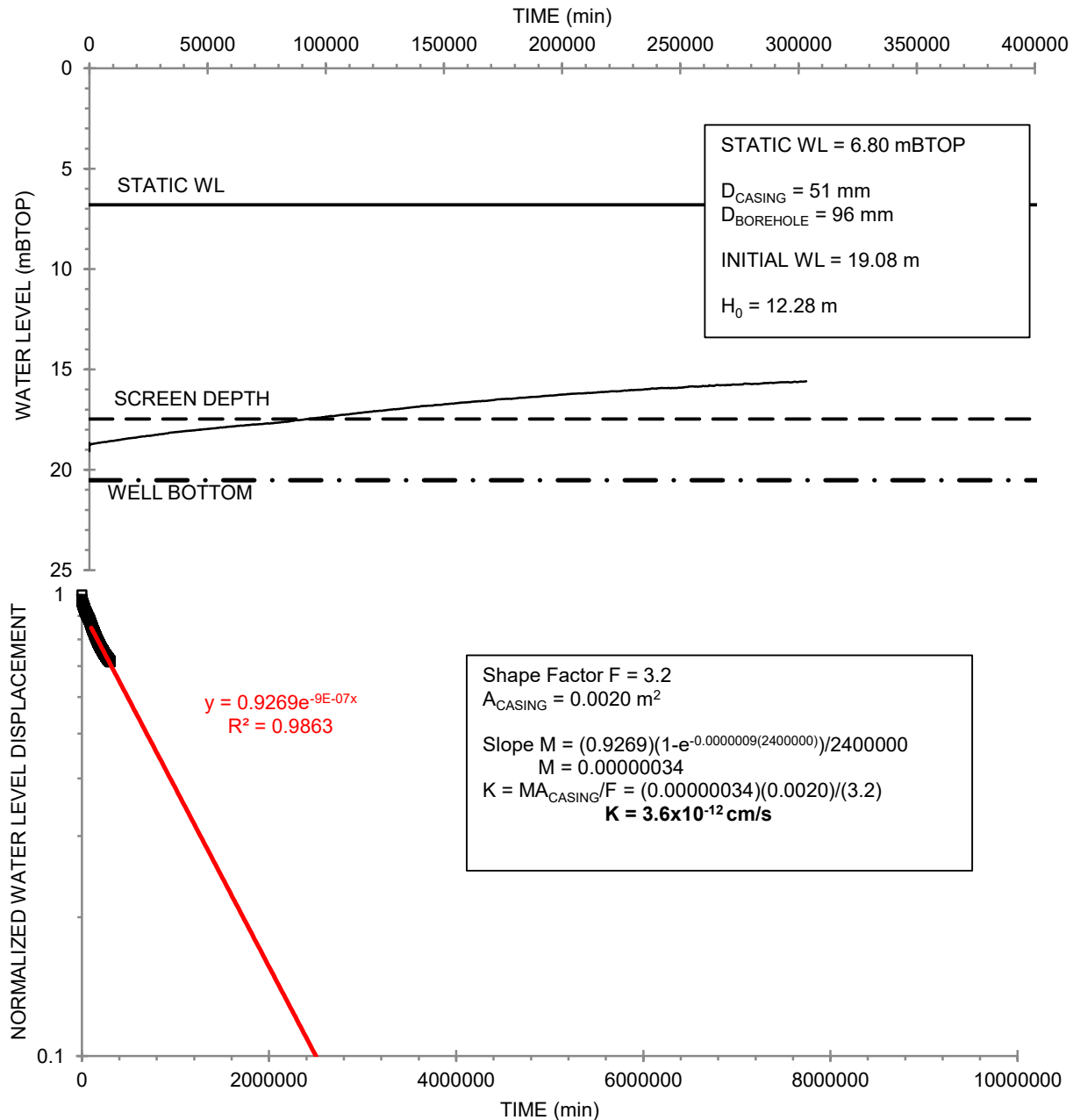


Figure D-16

76-IV (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 22, 2025

Performed by: JD

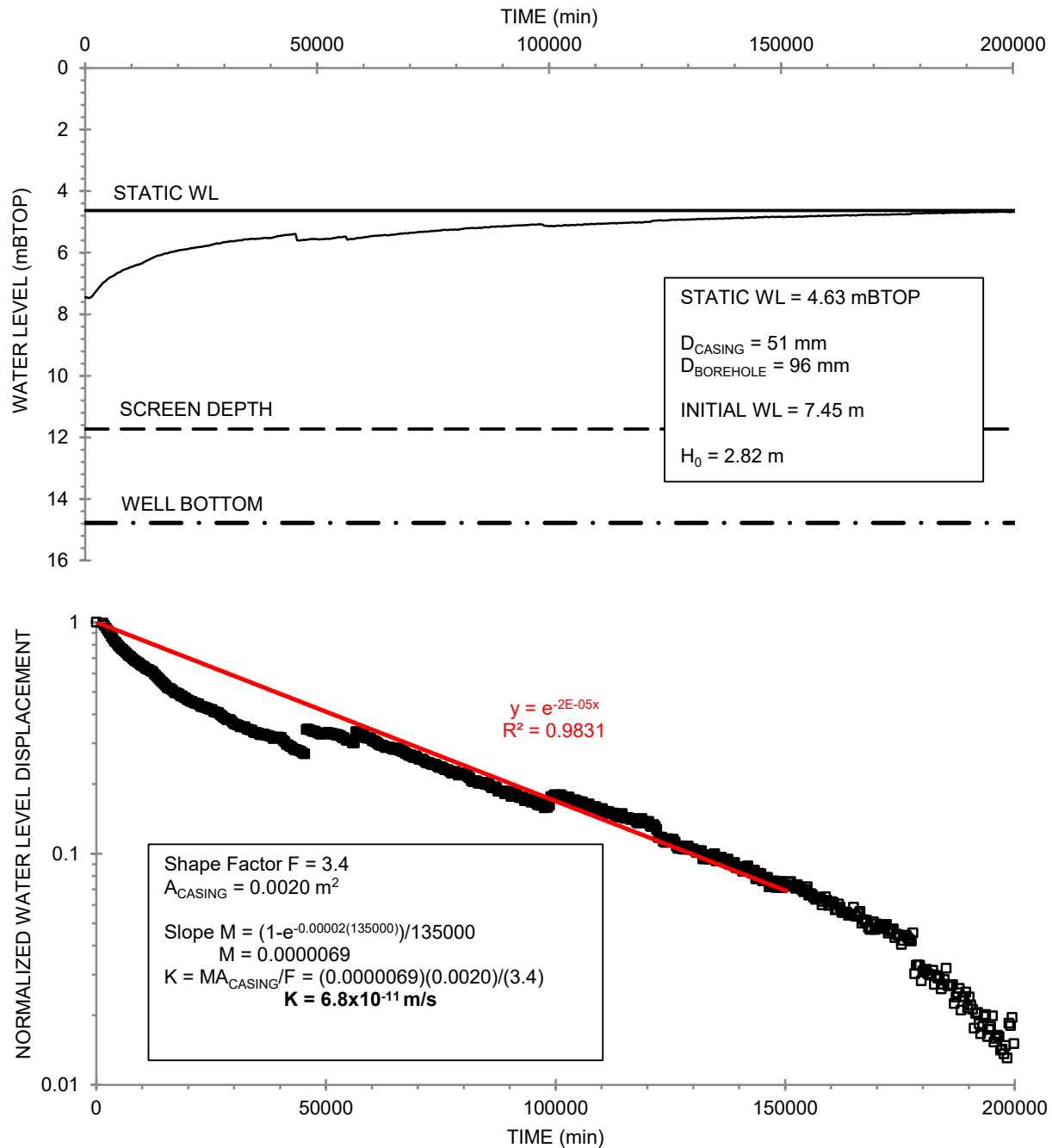


Figure D-17

77-I (Irondequoit)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

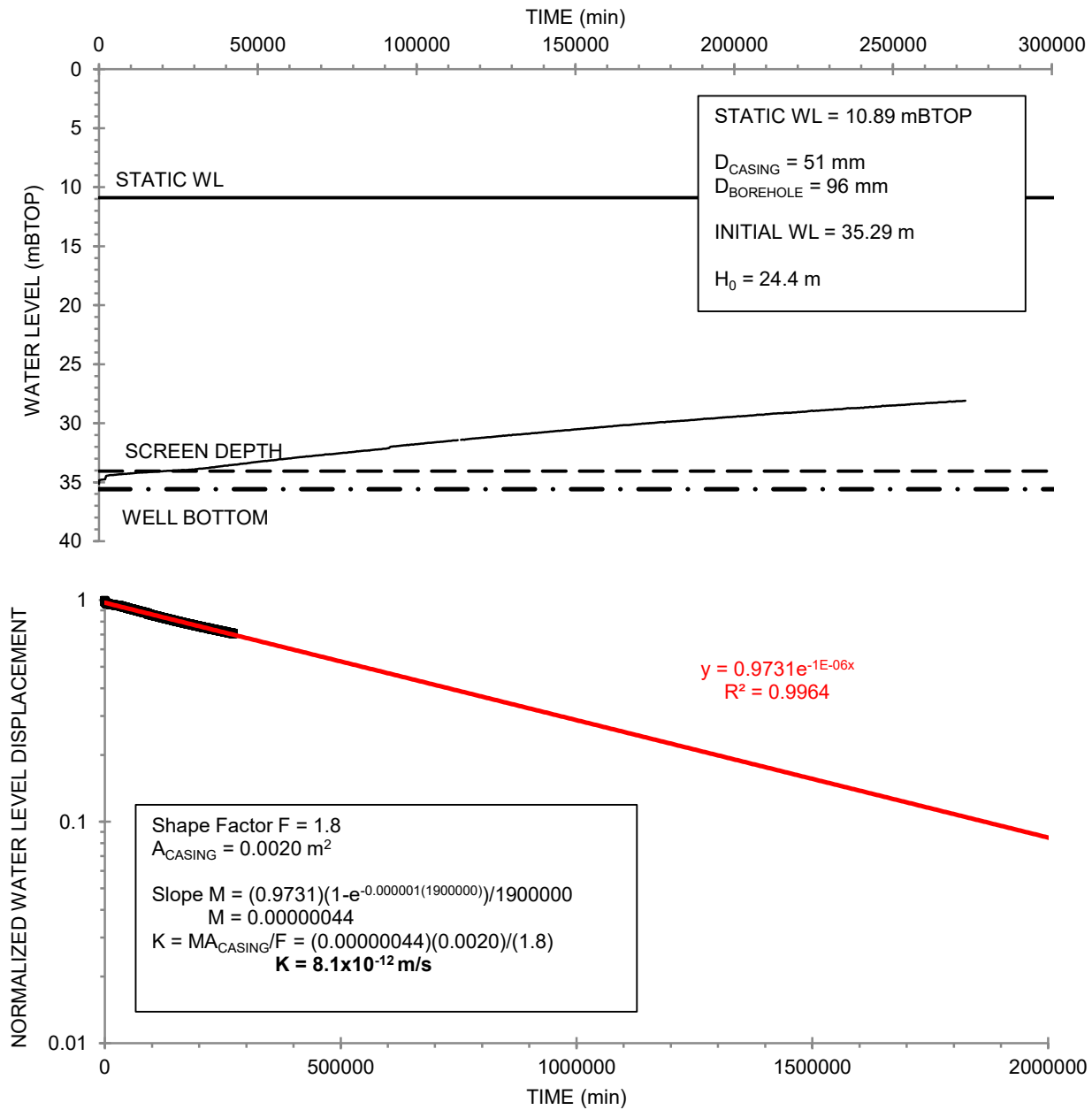


Figure D-18

77-II (Lower Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

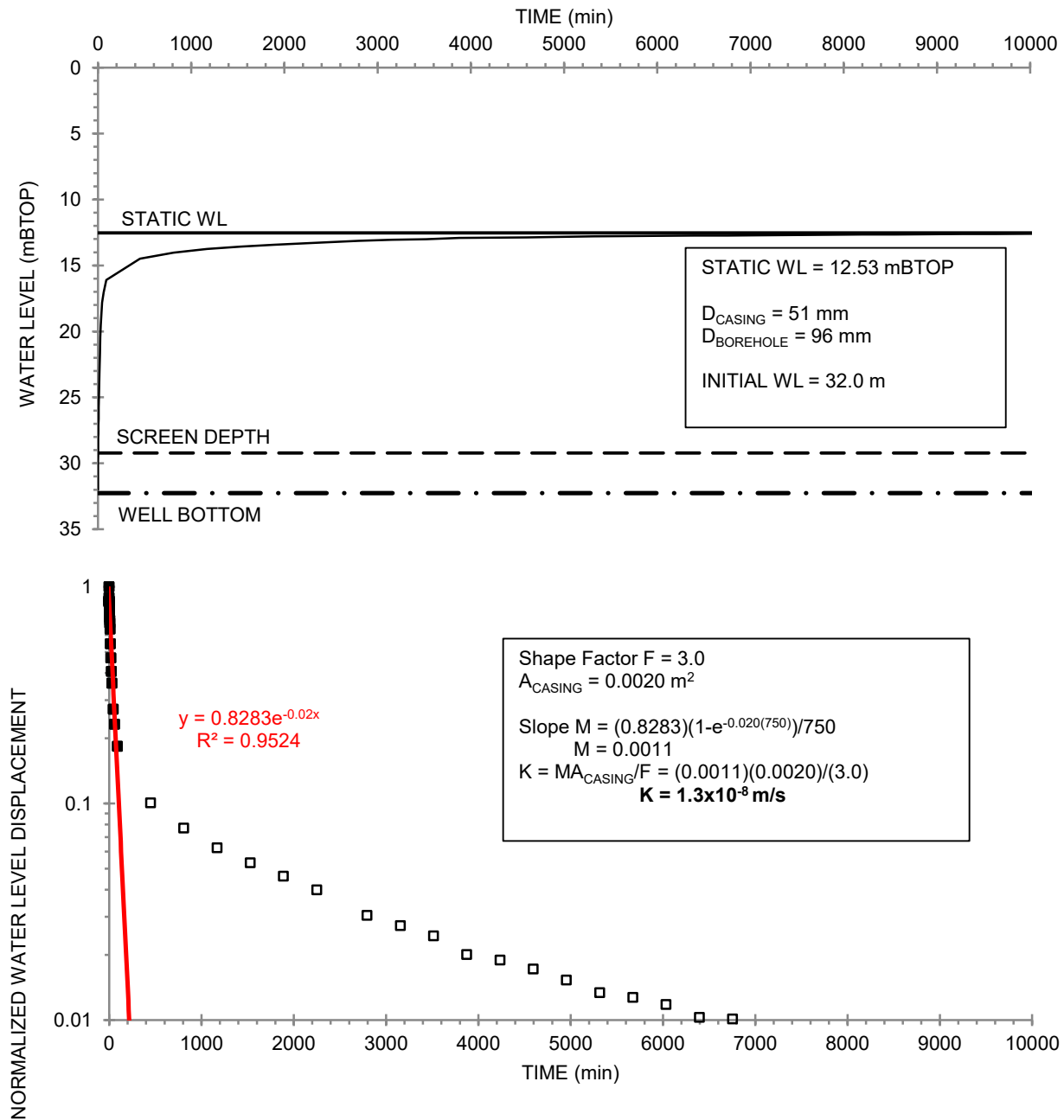


Figure D-19

77-III (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

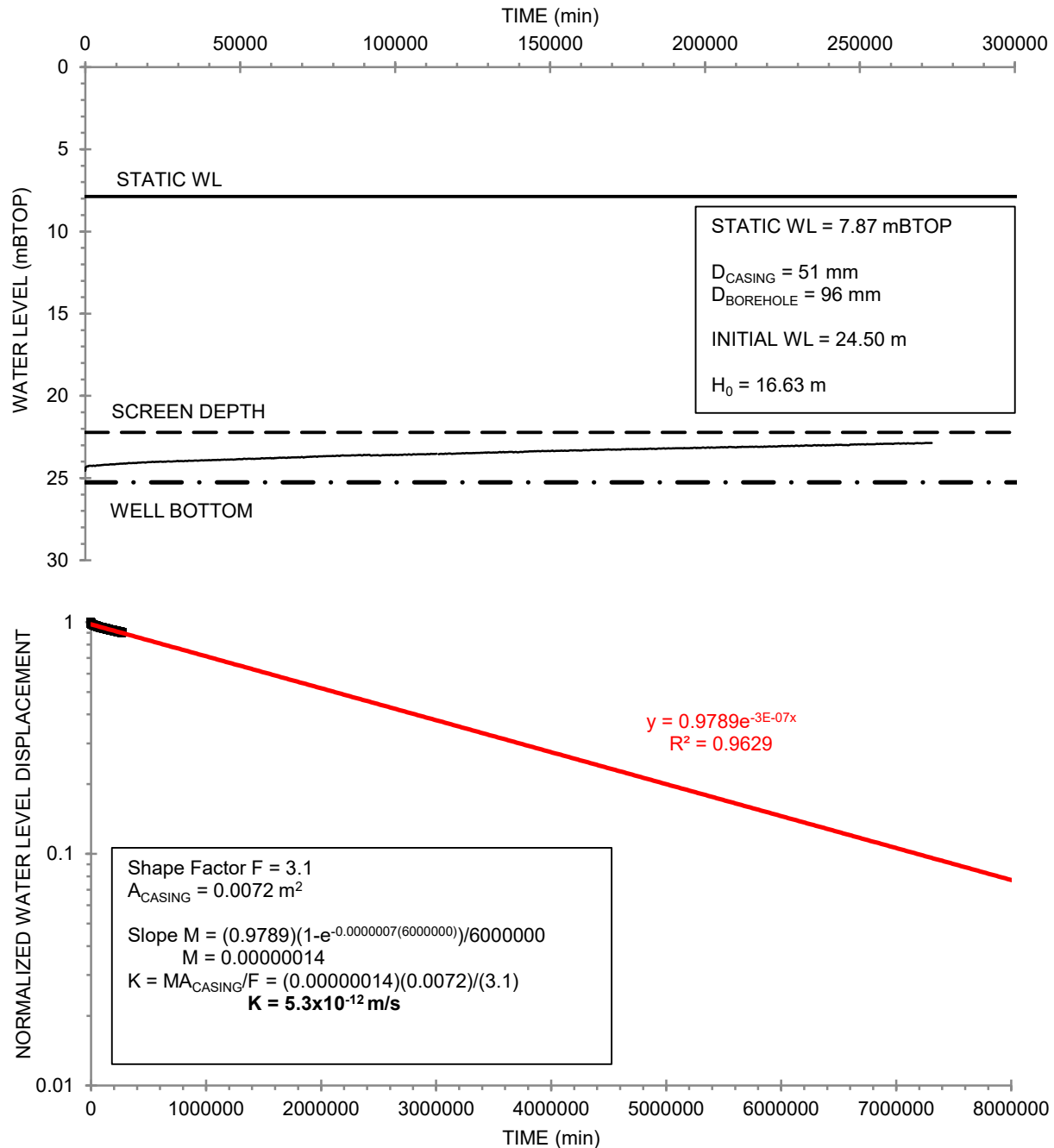


Figure D-20

77-IV (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

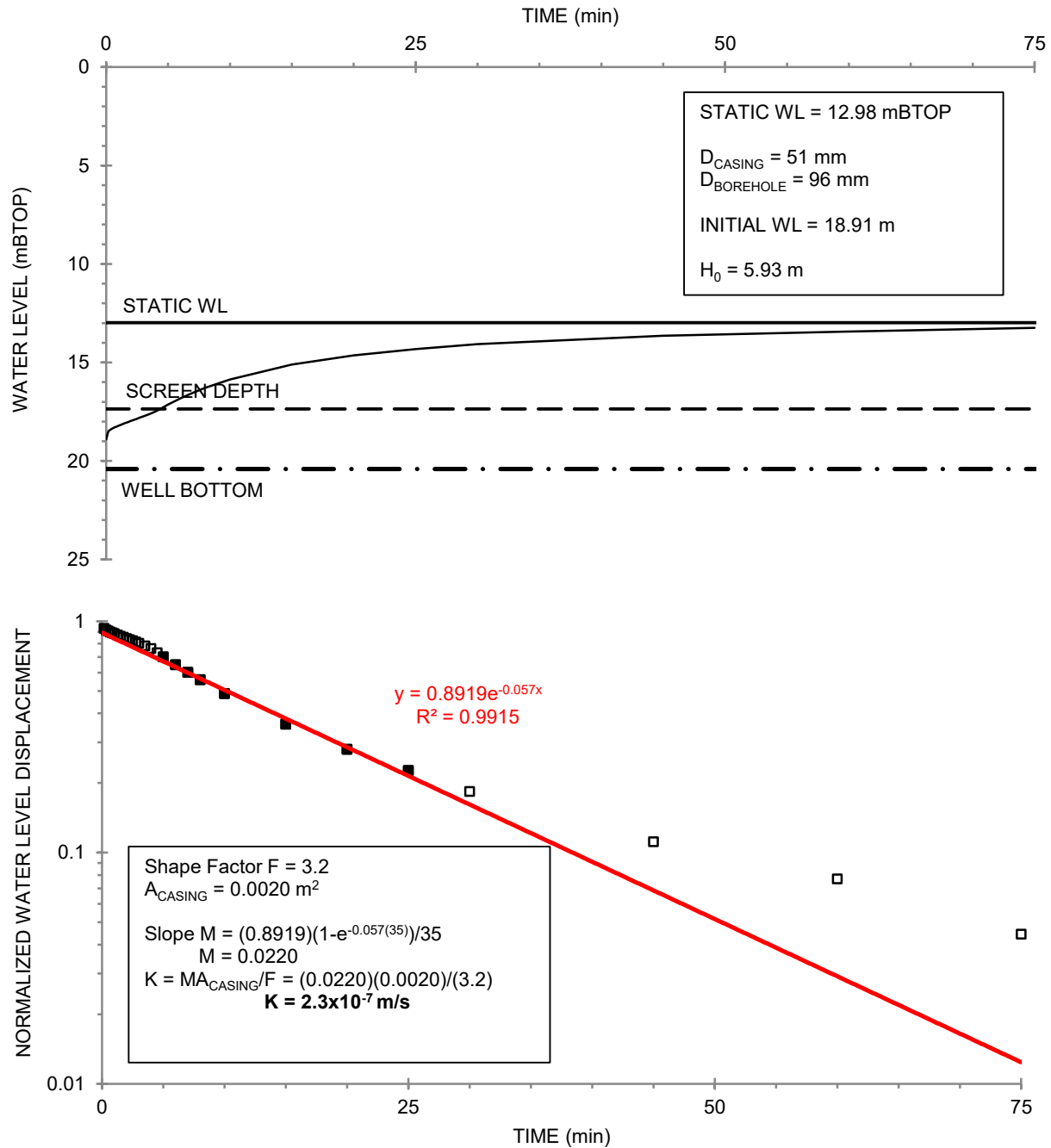


Figure D-21

77-V (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

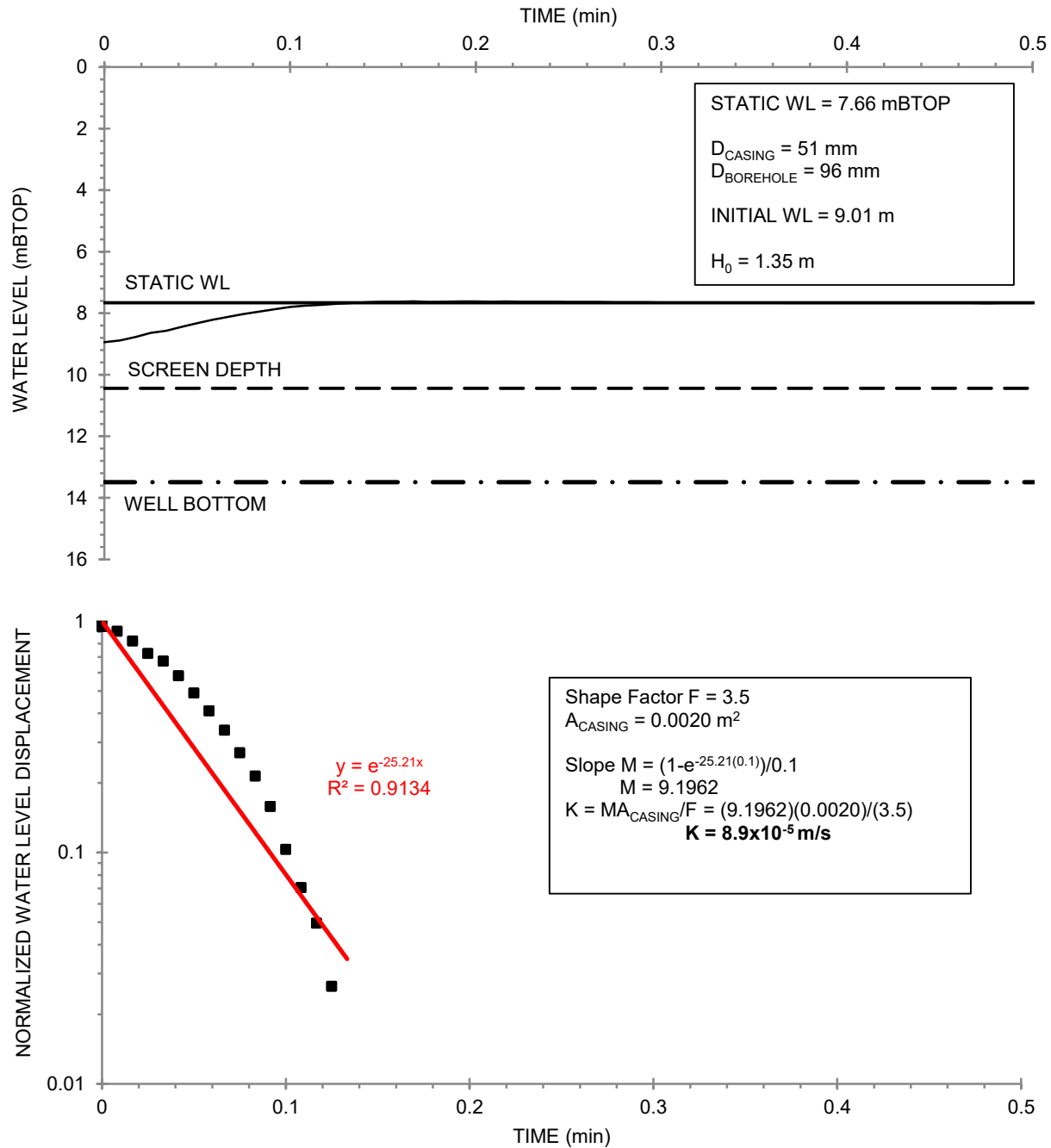


Figure D-22

78-I (Irondequoit)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 30, 2025

Performed by: CJ, JD

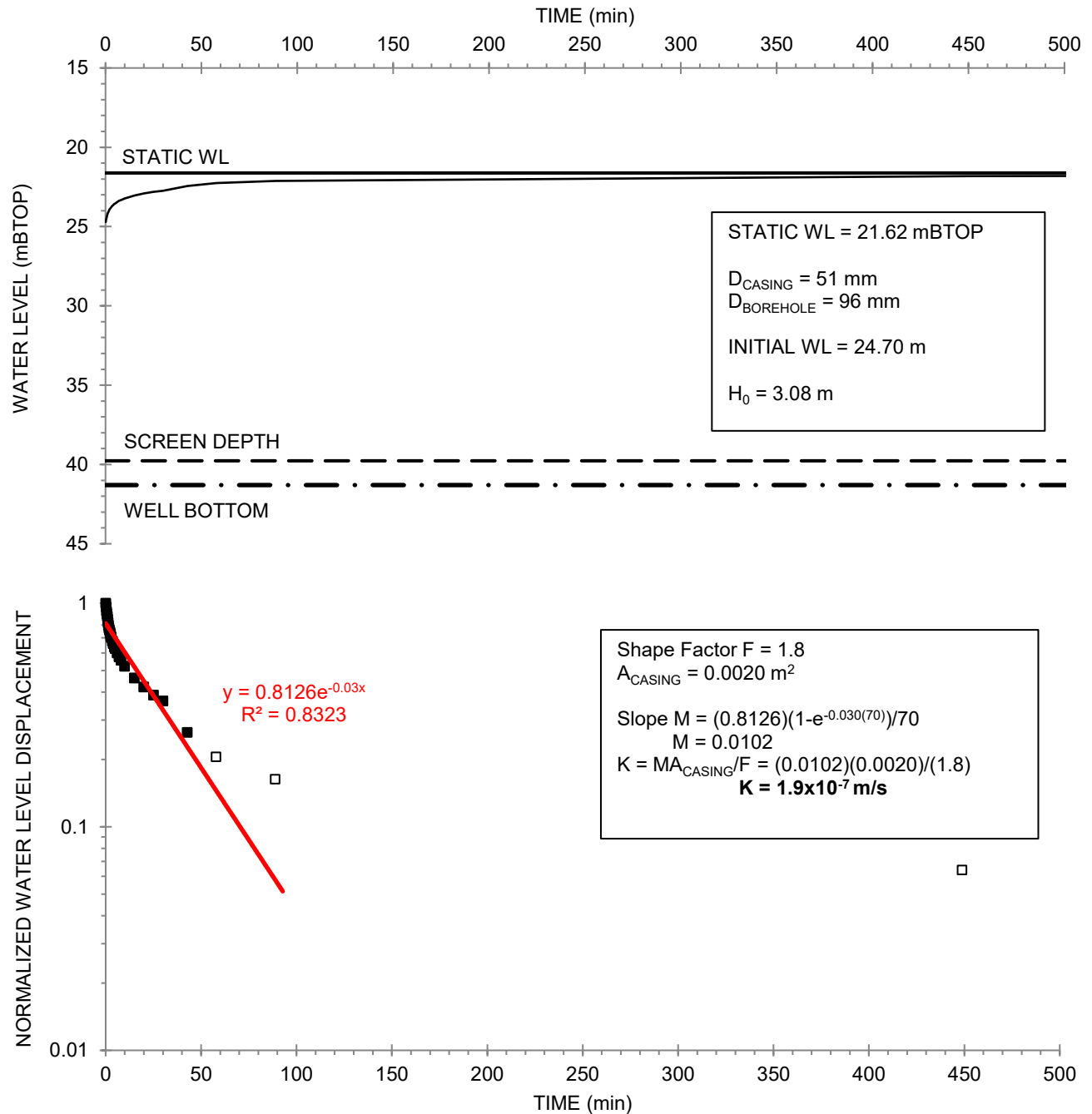


Figure D-23

78-II (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 30, 2025

Performed by: JD, CJ

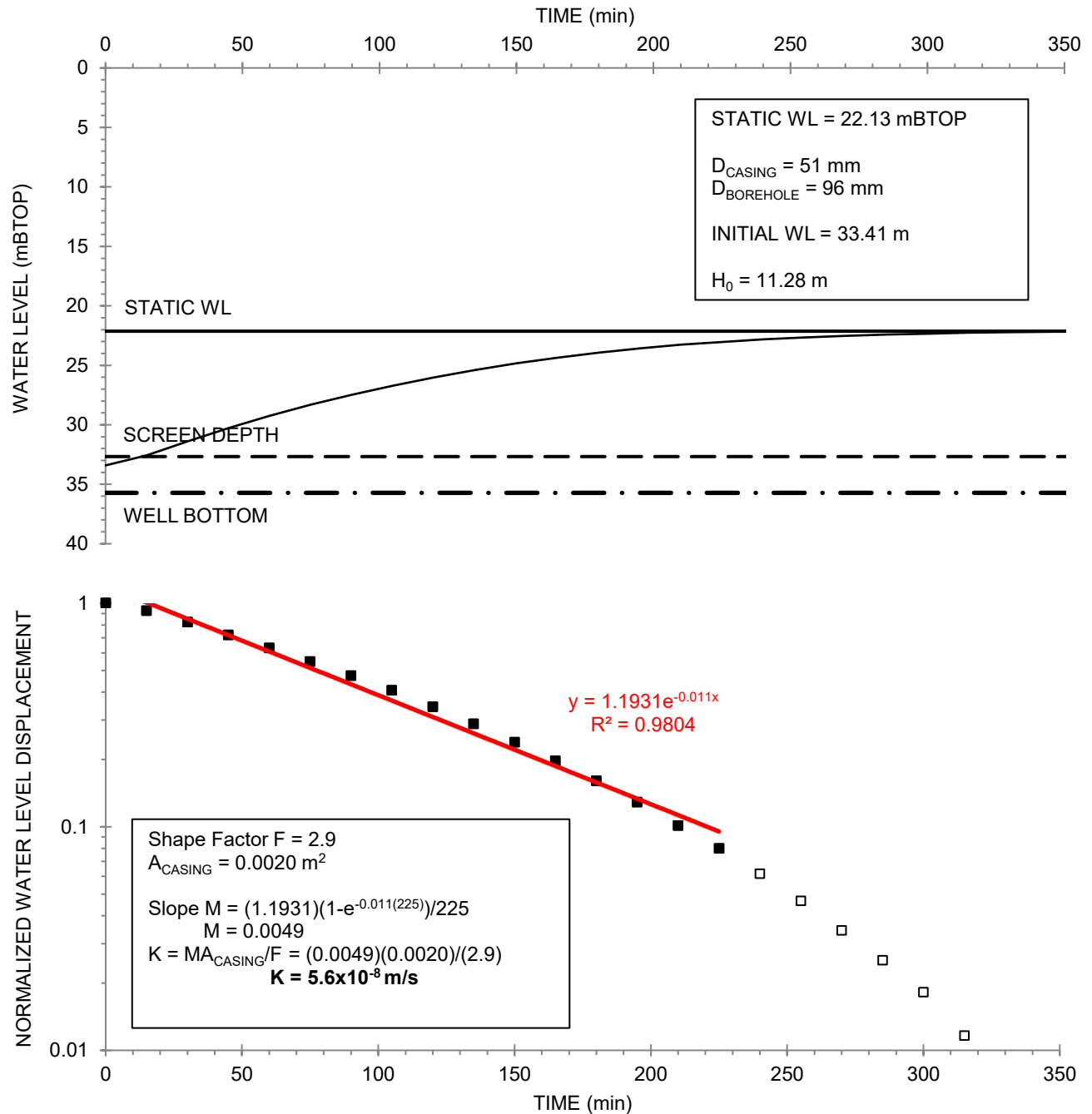


Figure D-24

78-III (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: June 24, 2025

Performed by: JD

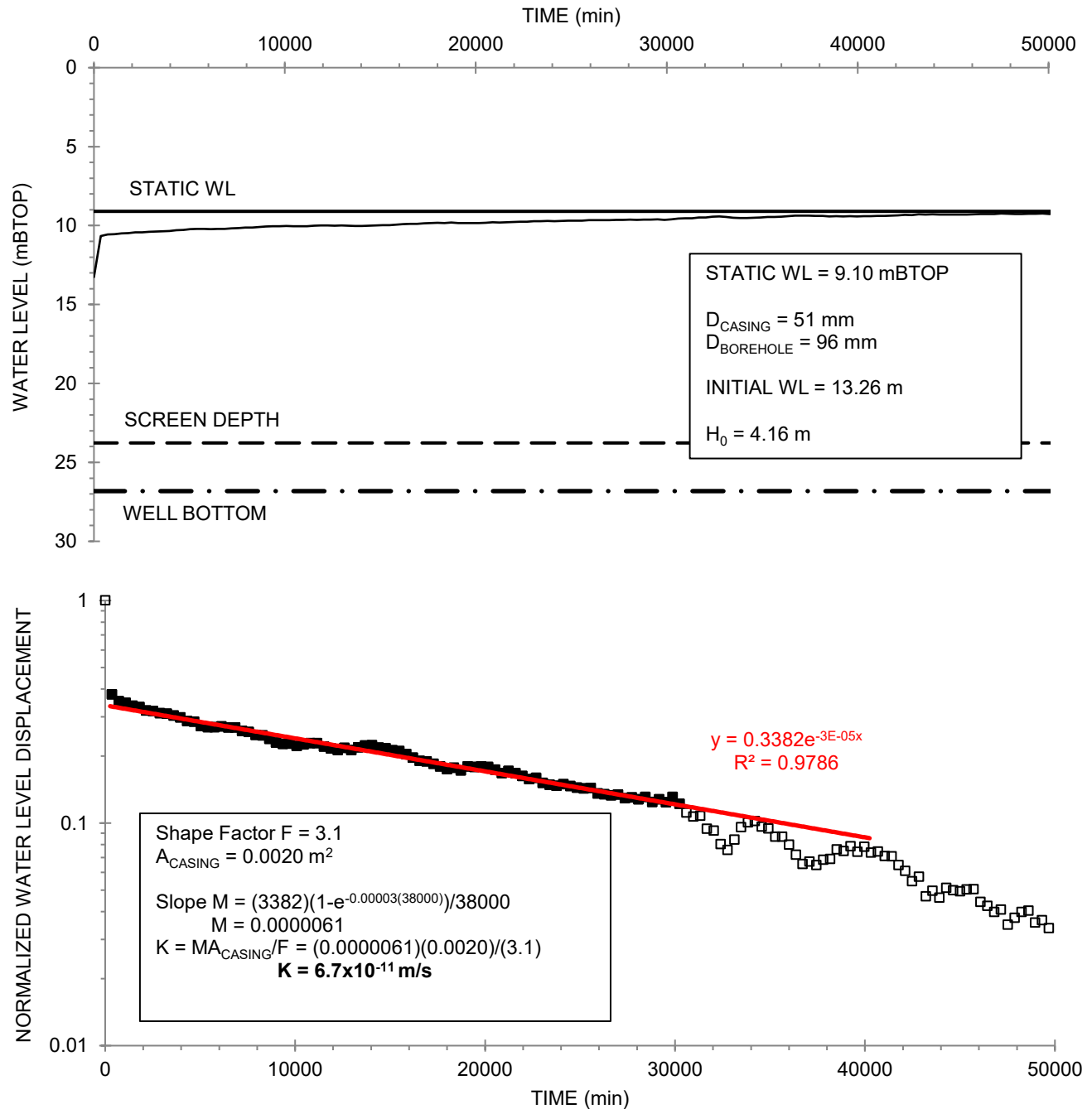


Figure D-25

78-IV (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

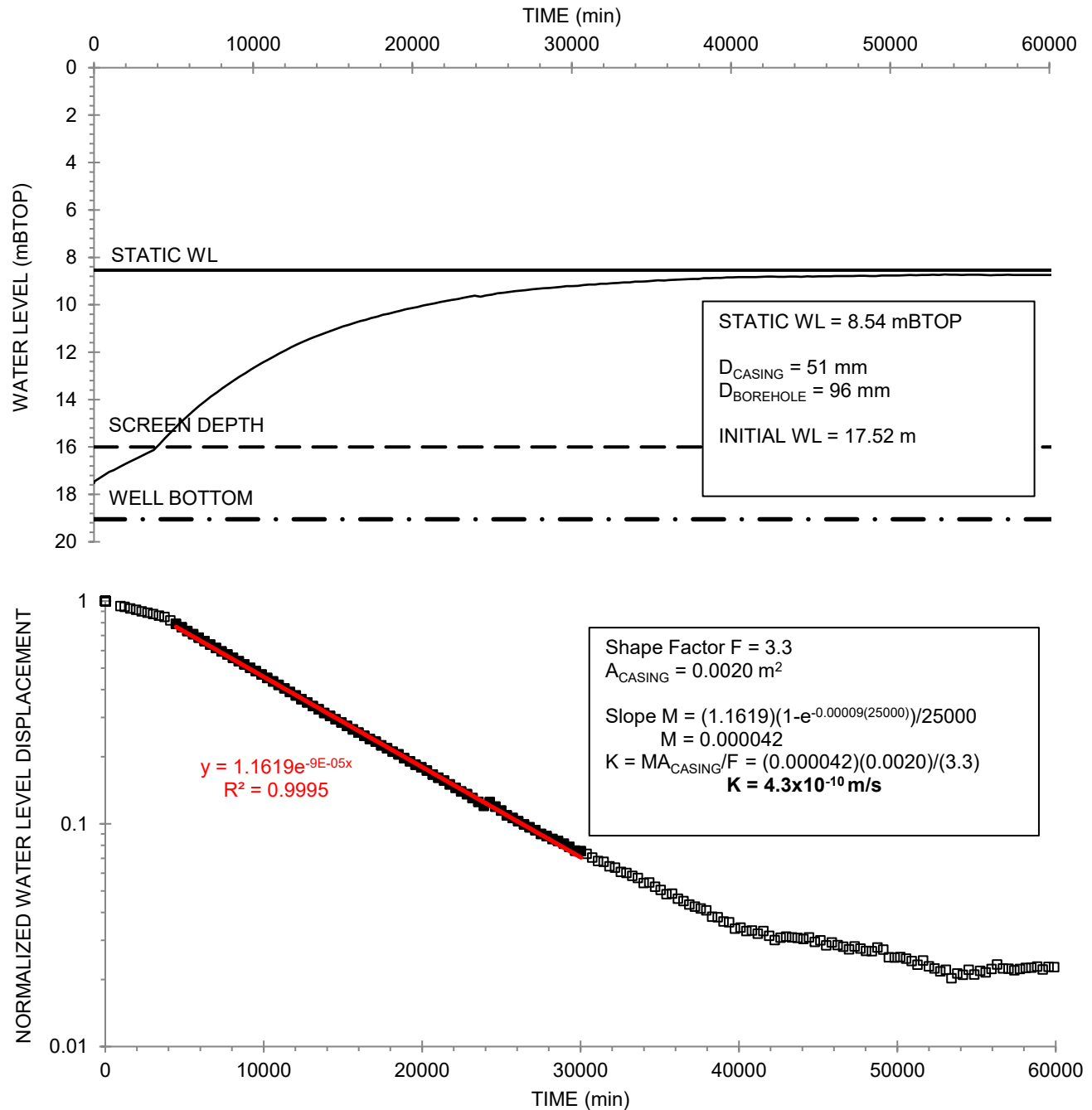
Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 13 / 14, 2025

Performed by: CJ, SK



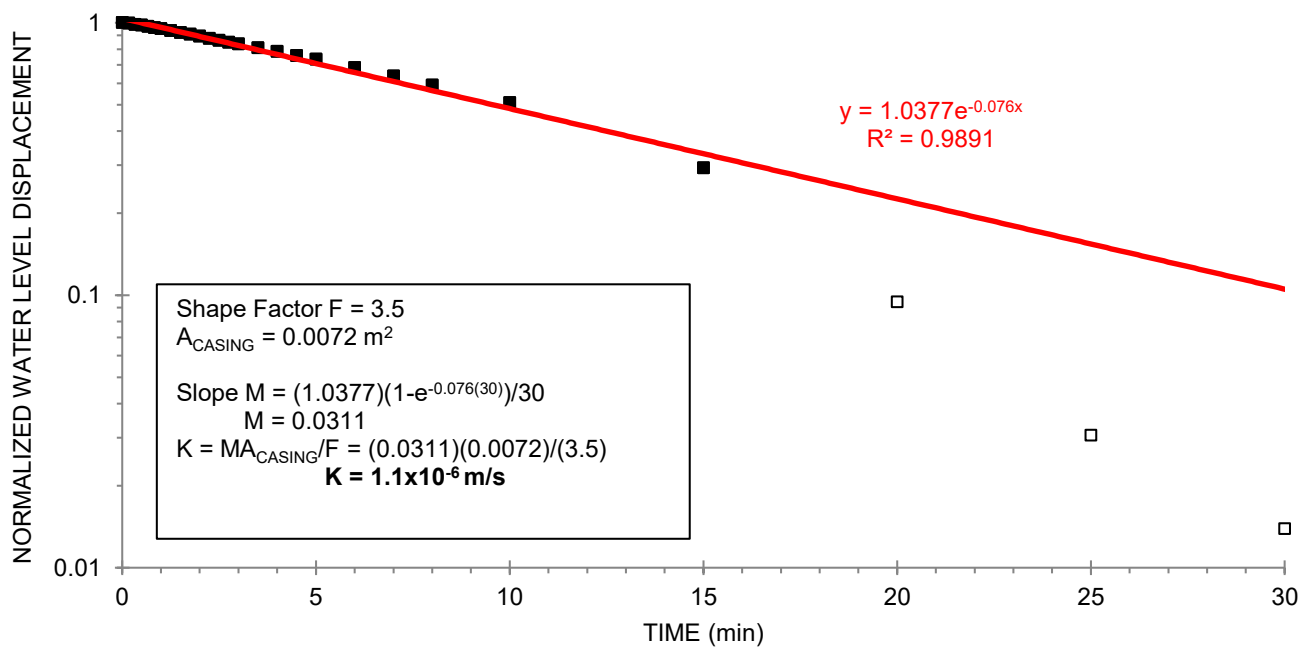


Figure D-27

79-I (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 27, 2025

Performed by: CJ, JD

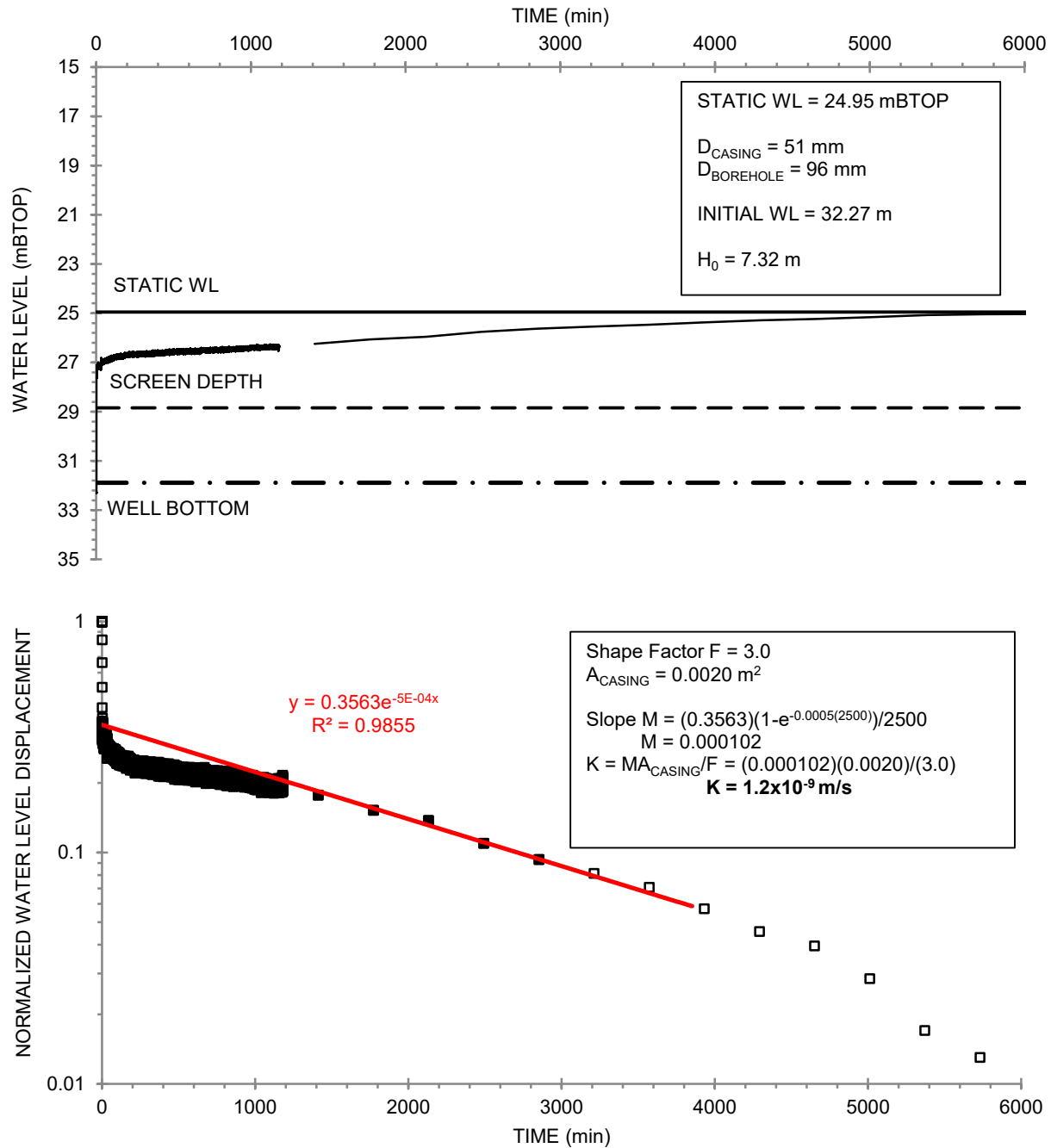


Figure D-28

79-II (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 28, 2025

Performed by: CJ, JD

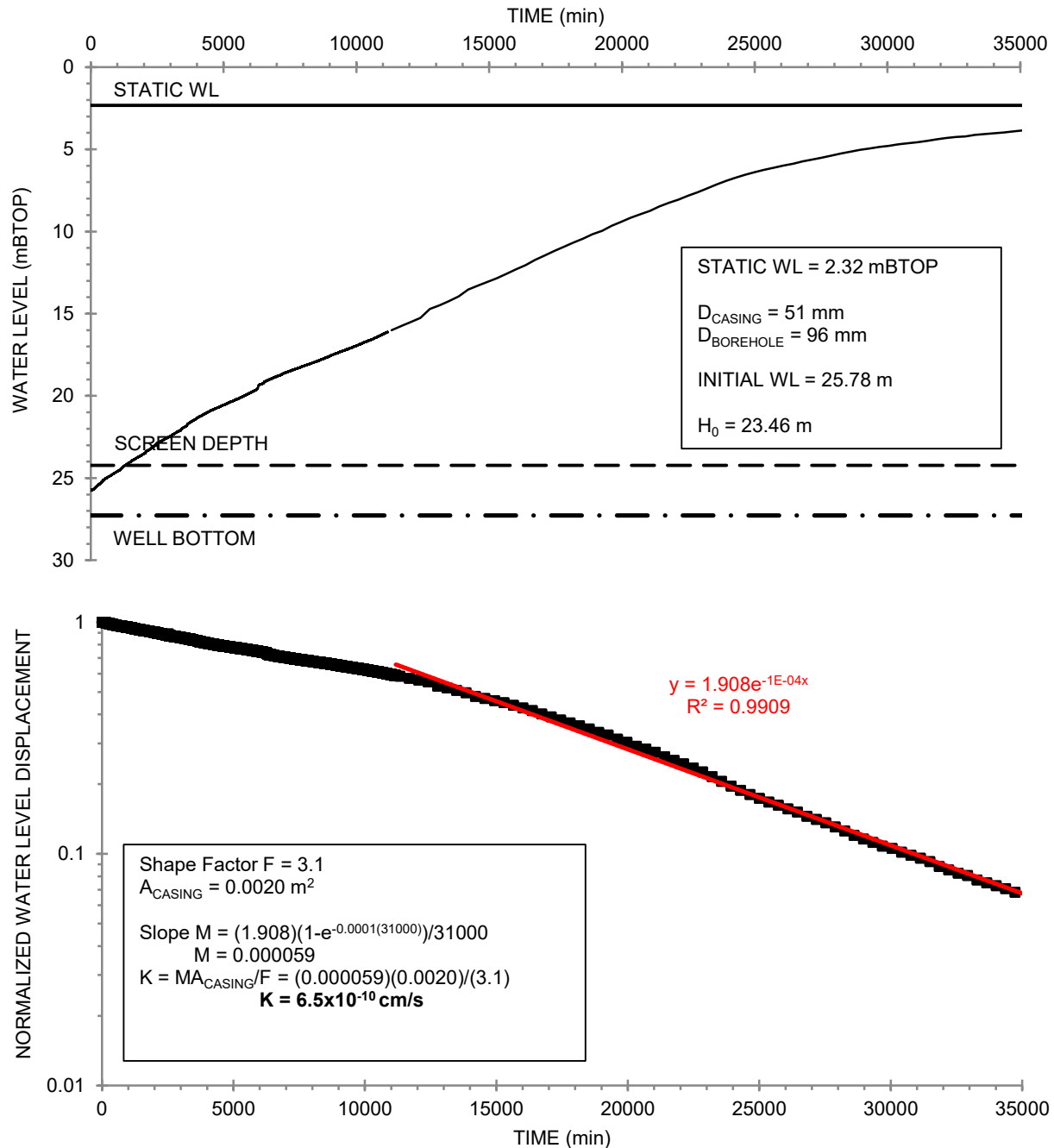


Figure D-29

79-III (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 27, 2025

Performed by: CJ, JD

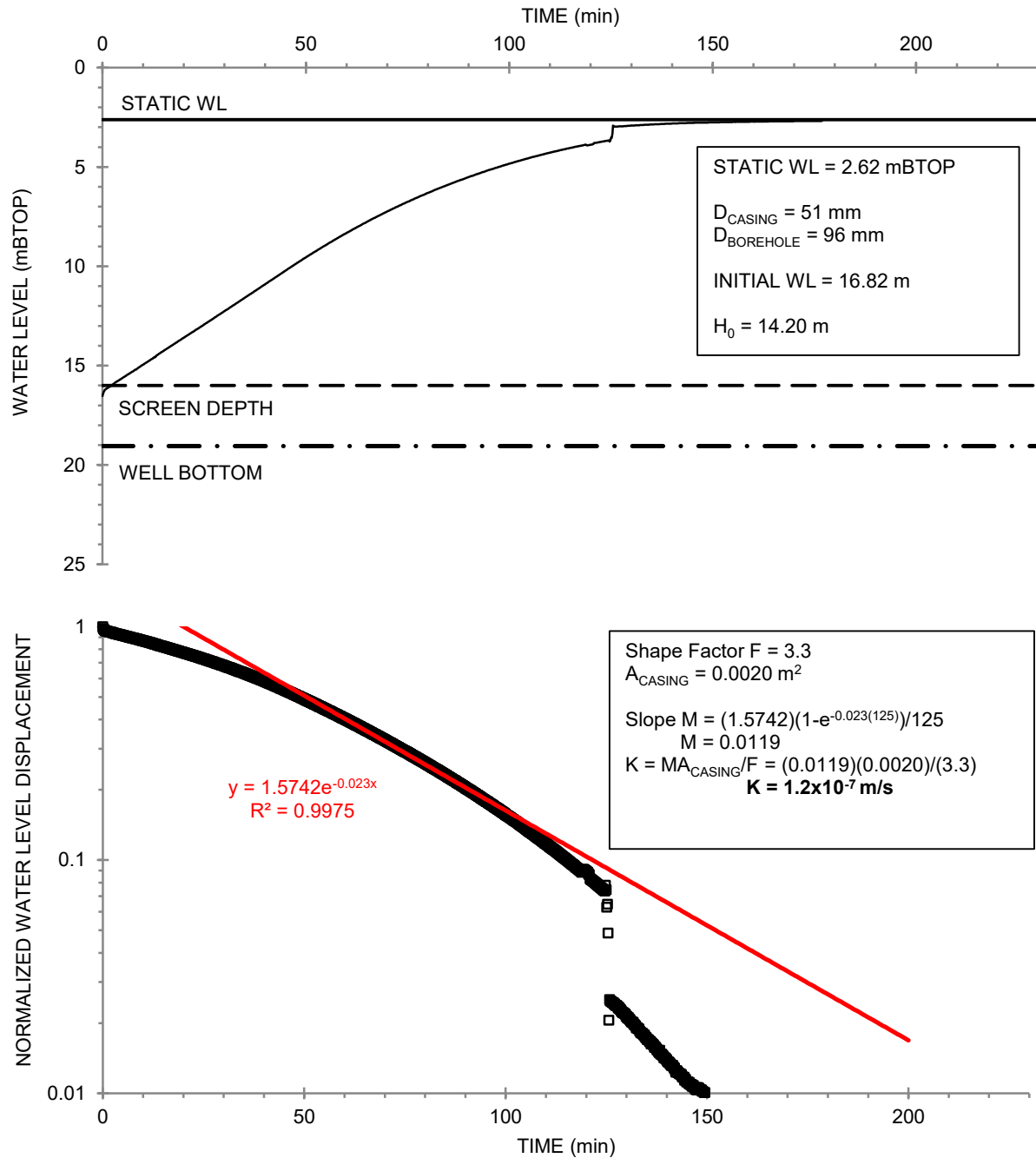


Figure D-30

79-IV (Lockport Fm. Goat Is. Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 27, 2025

Performed by: CJ, JD

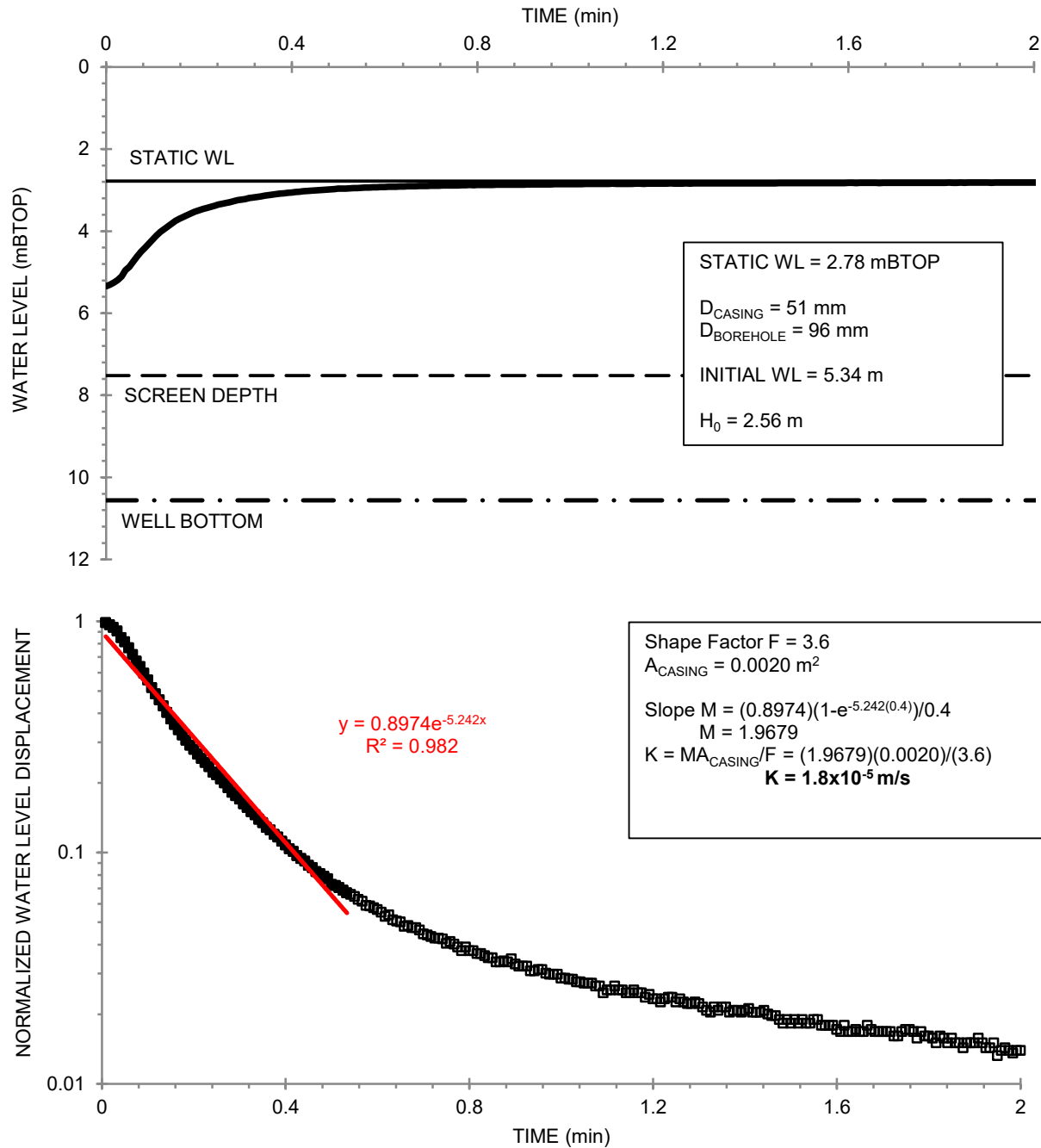


Figure D-31

80-I (Middle Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 26, 2025

Performed by: CJ, JD

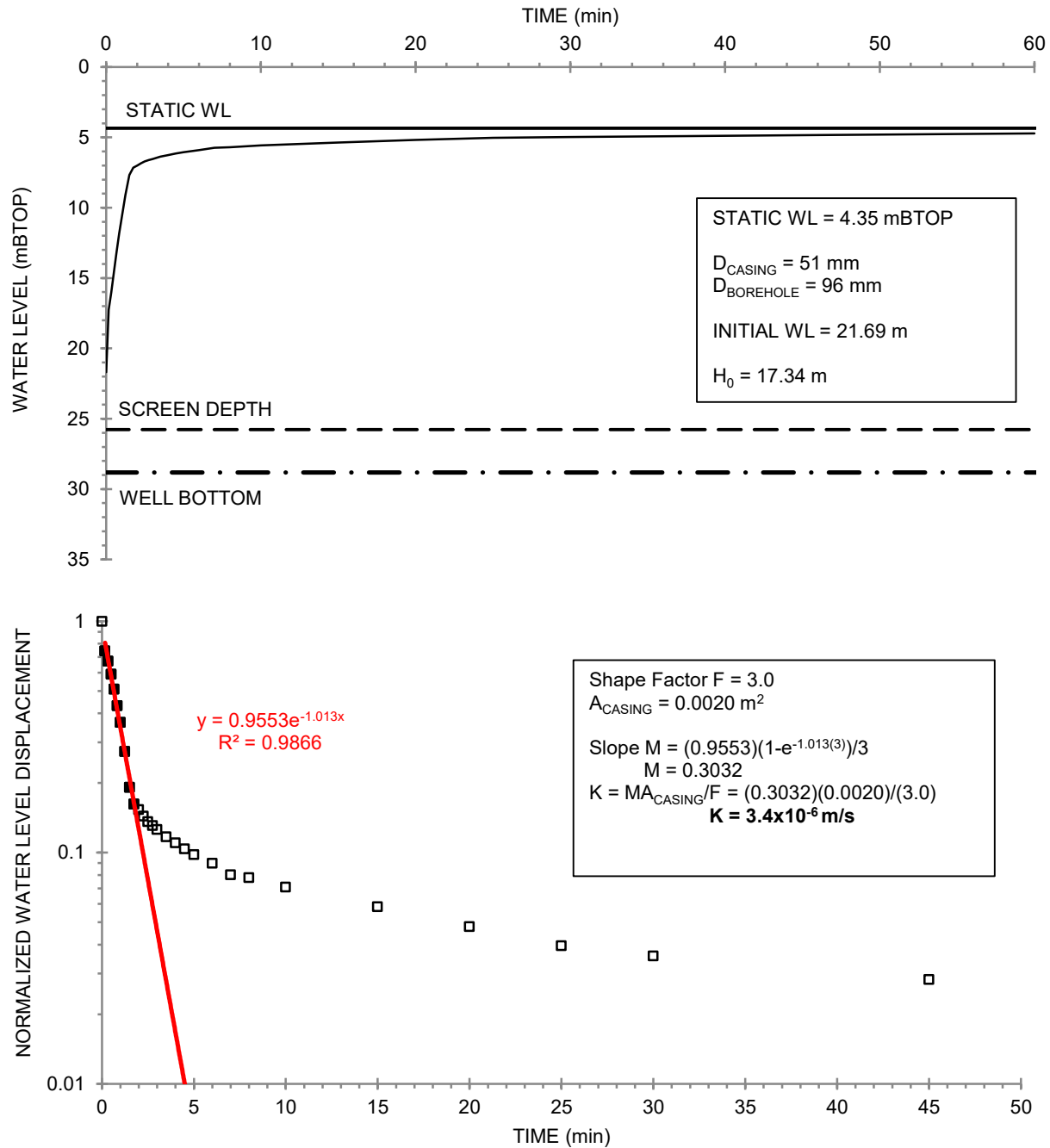


Figure D-32

80-II (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 26, 2025

Performed by: CJ, JD

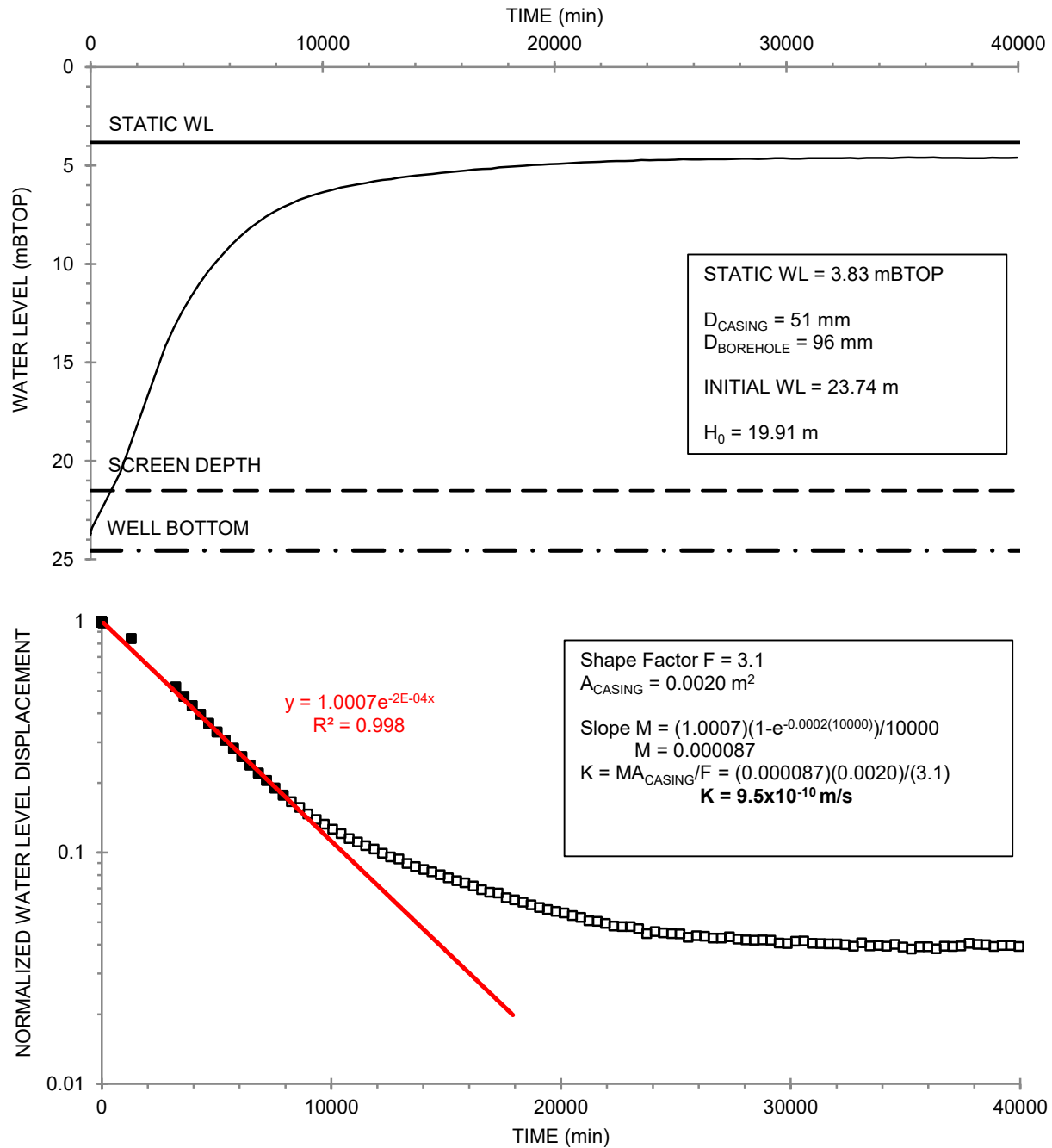


Figure D-33

80-III (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 26, 2025

Performed by: CJ, JD

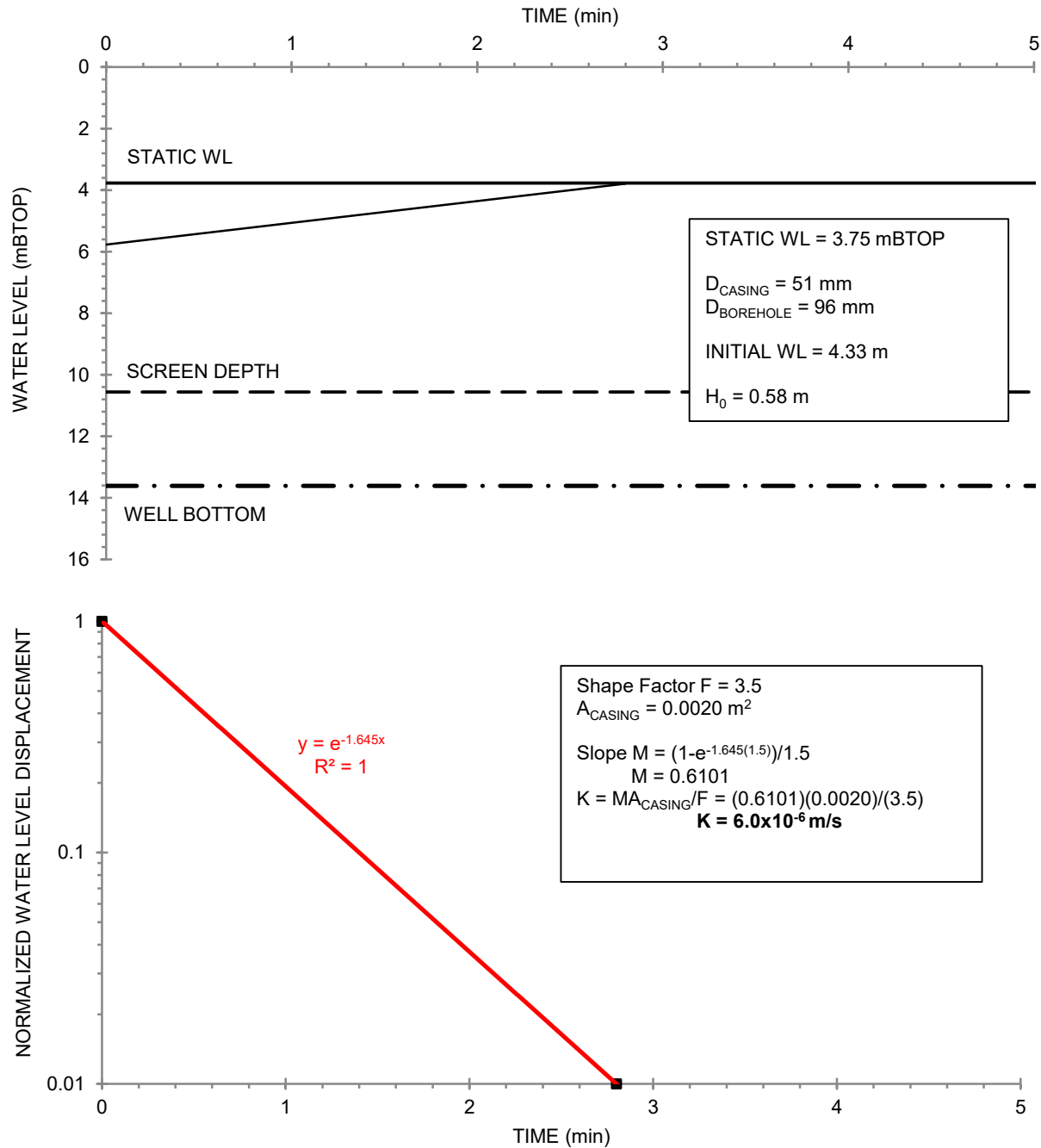


Figure D-34

81-I (Middle Rochester)

Rising Head Slug Test Analysis

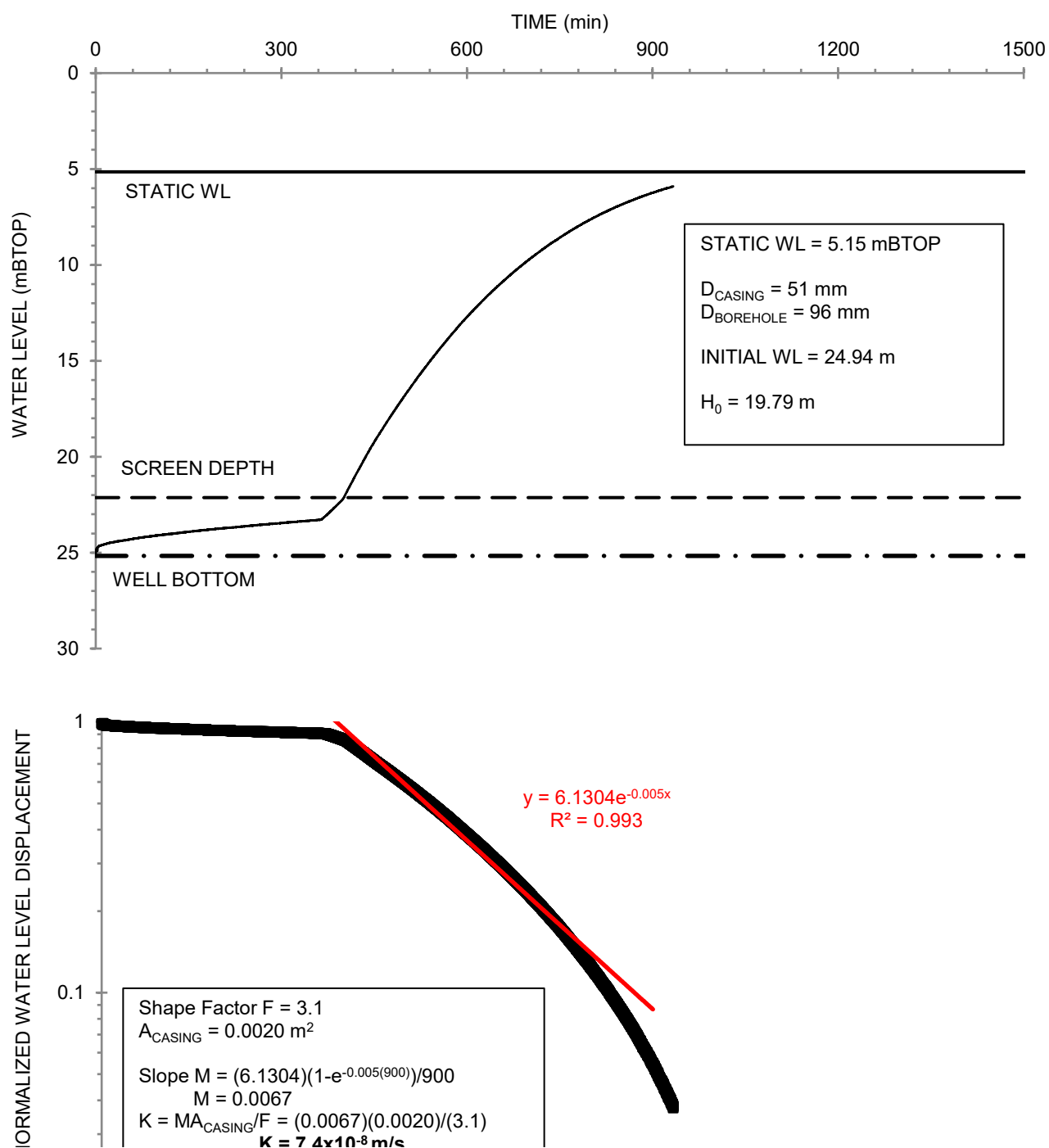
Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 26, 2025

Performed by: CJ, JD



z

$\lambda = 1.7419 \text{ m/s}$

0.01

0

300

600

900

1200

1500

TIME (min)

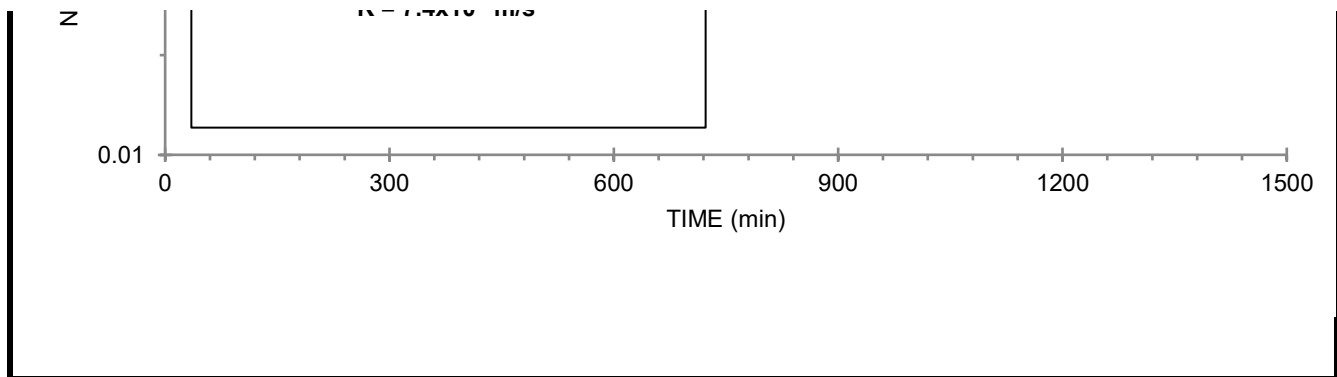


Figure D-35

81-II (Upper Rochester)

Rising Head Slug Test Analysis

Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 27, 2025

Performed by: CJ, JD

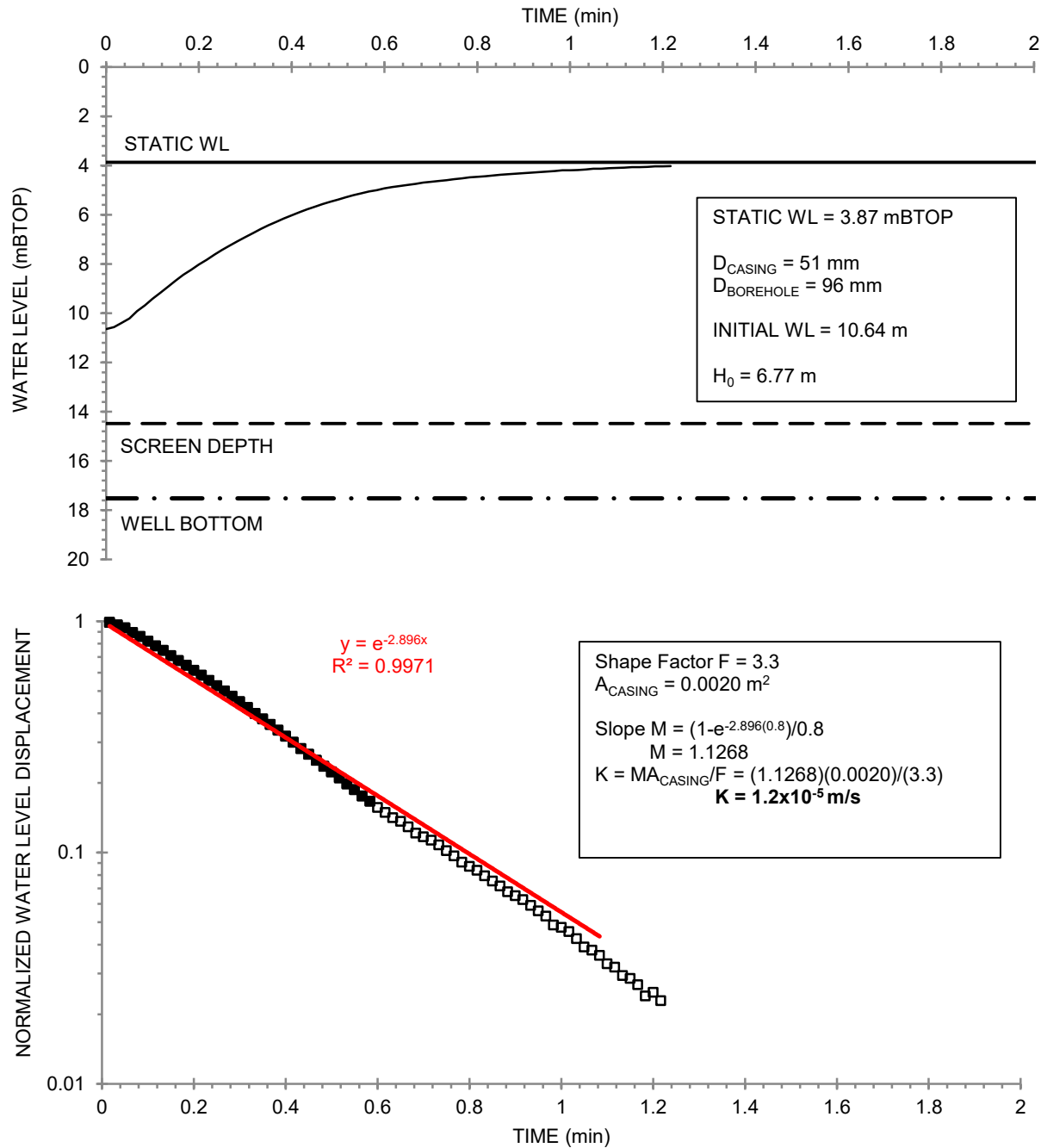


Figure D-36

81-III (Lockport Fm. Gasport Mb.)

Rising Head Slug Test Analysis

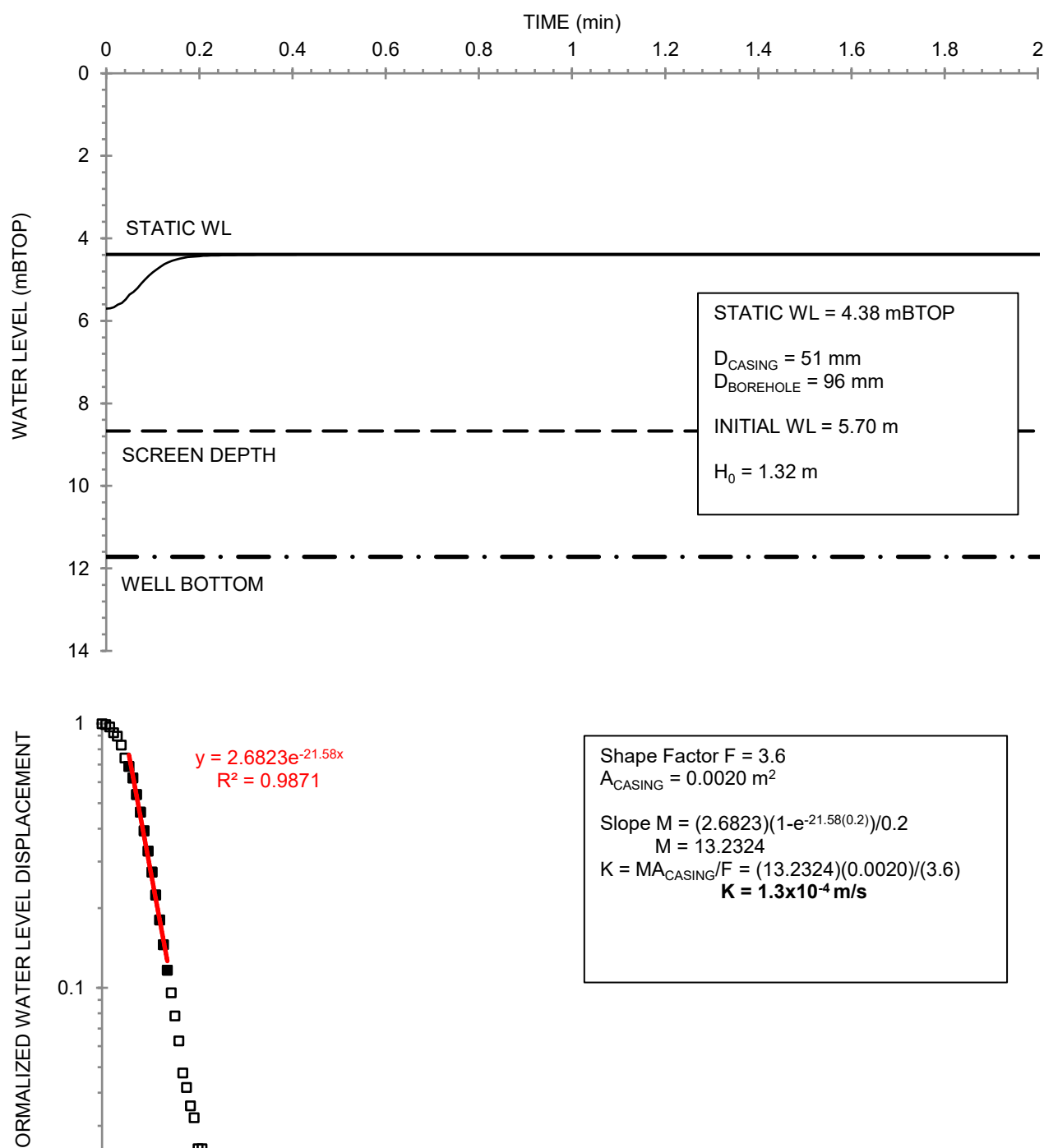
Hvorslev Method

WEG South LF Phase 2 ESA



Date: May 27, 2025

Performed by: CJ, JD



Z

0.01

0

0.2

0.4

0.6

0.8

1

1.2

1.4

1.6

1.8

2

TIME (min)



APPENDIX E

Groundwater Elevation Data

Figure E1-1 - Groundwater Hydrograph
Well Nest 75 Logger Data and Water Levels

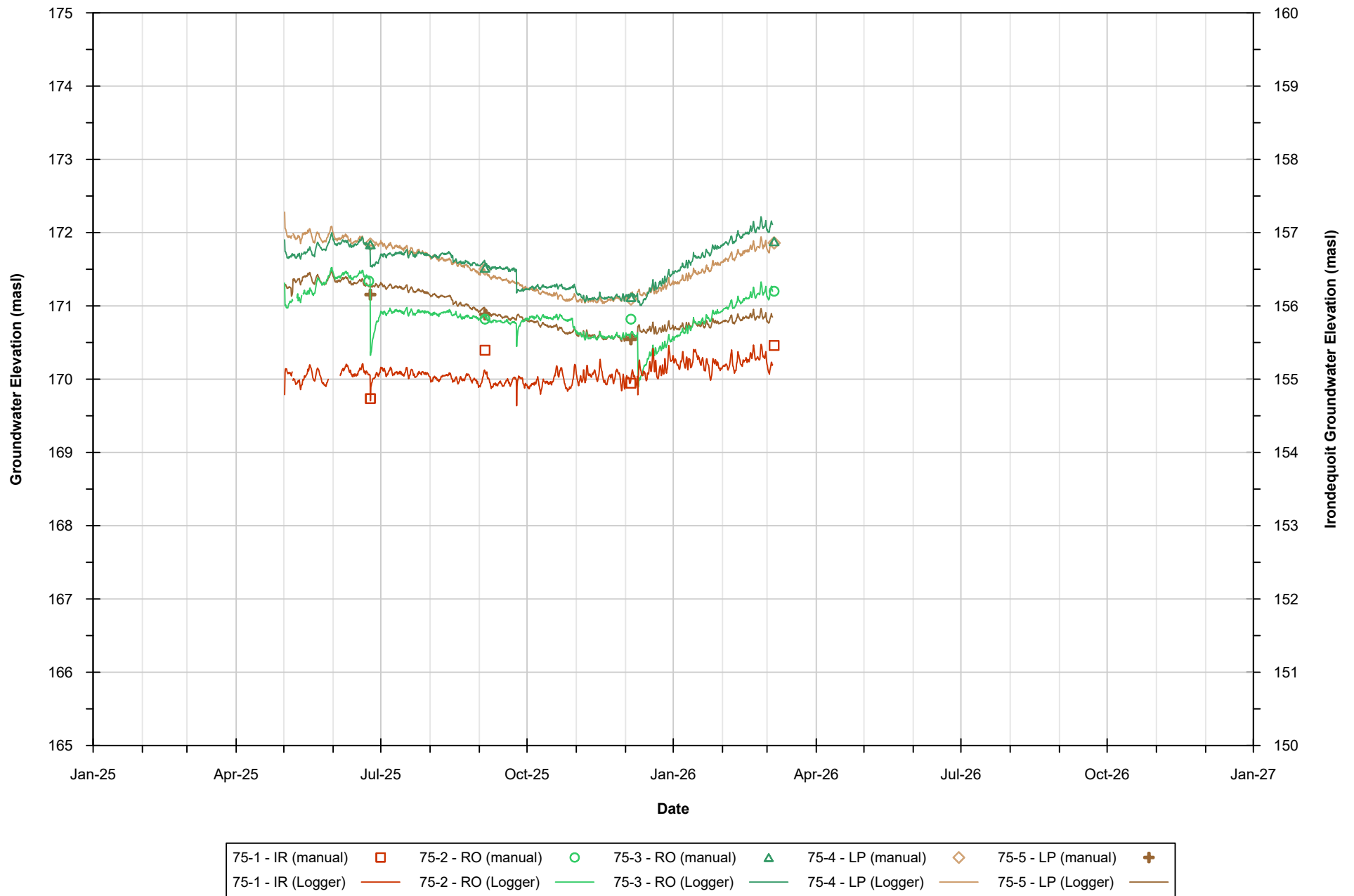


Figure E1-2 - Groundwater Hydrograph
Well Nest 76 Logger Data and Water Levels

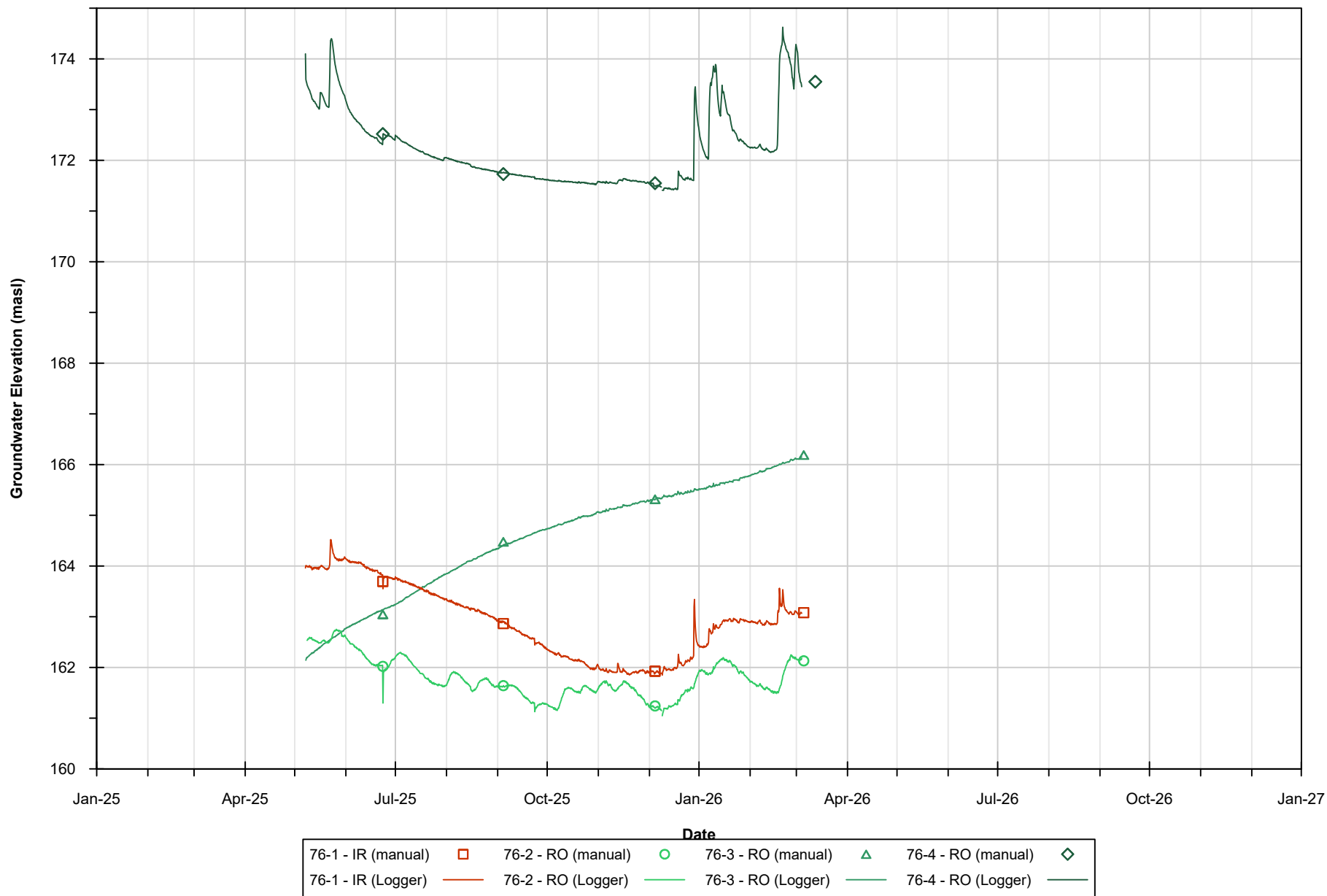


Figure E1-3 - Groundwater Hydrograph
Well Nest 77 Logger Data and Water Levels

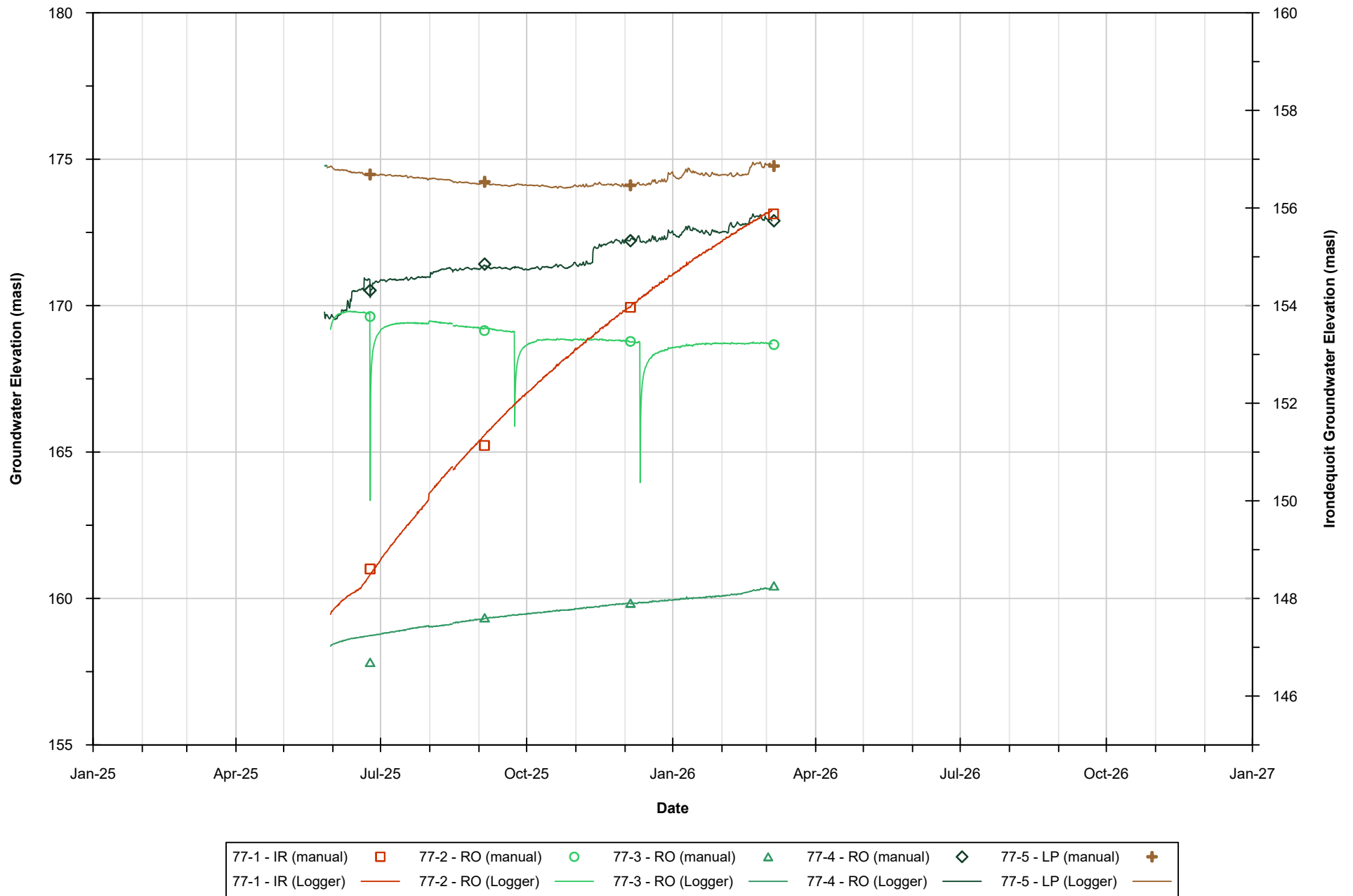


Figure E1-4 - Groundwater Hydrograph
Well Nest 78 Logger Data and Water Levels

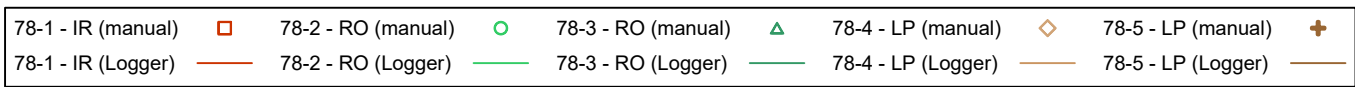
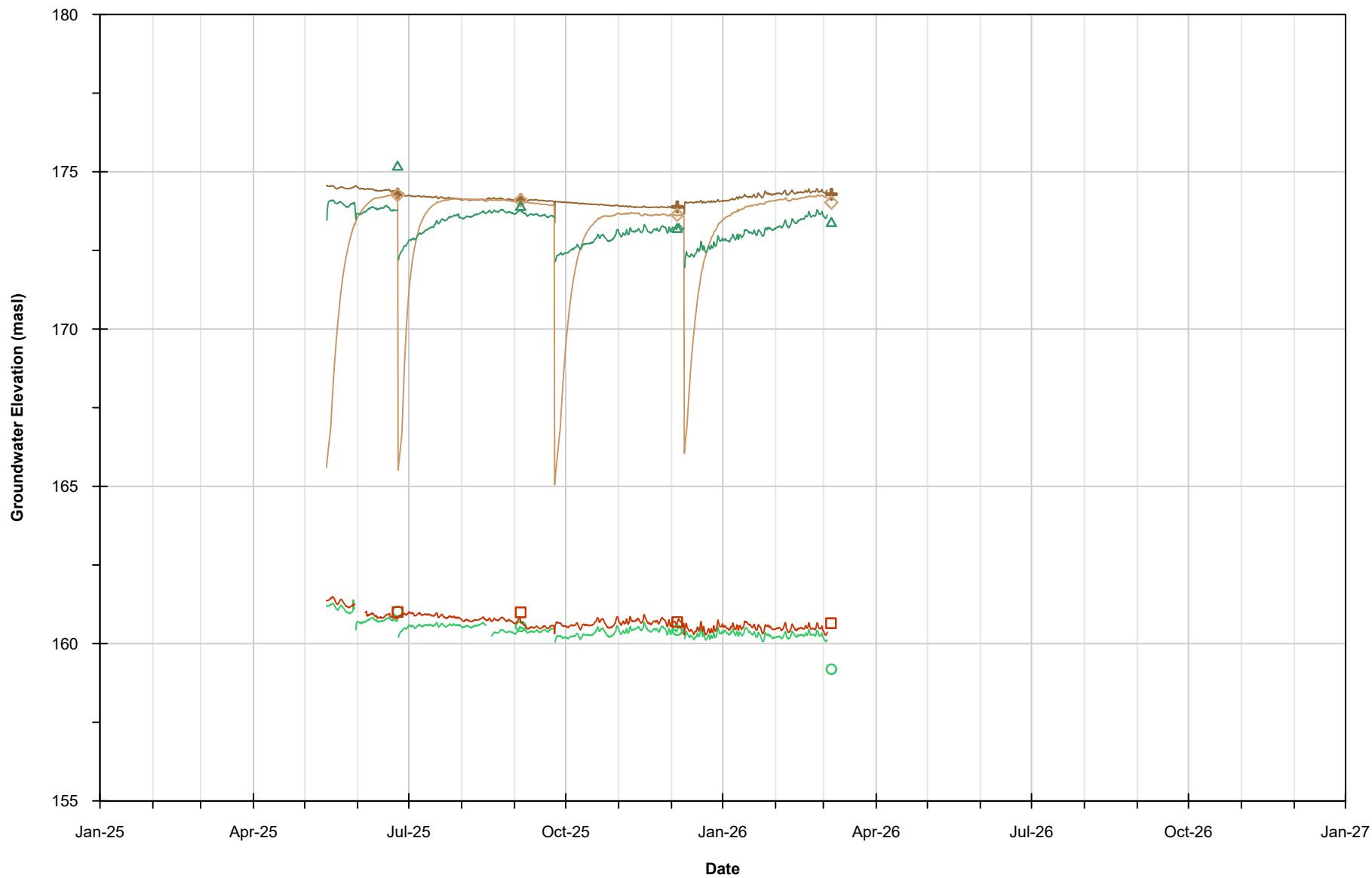


Figure E1-5 - Groundwater Hydrograph
Well Nest 79 Logger Data and Water Levels

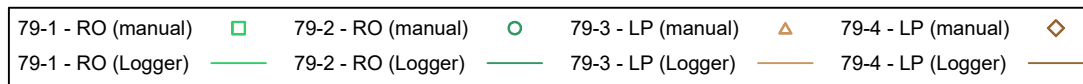
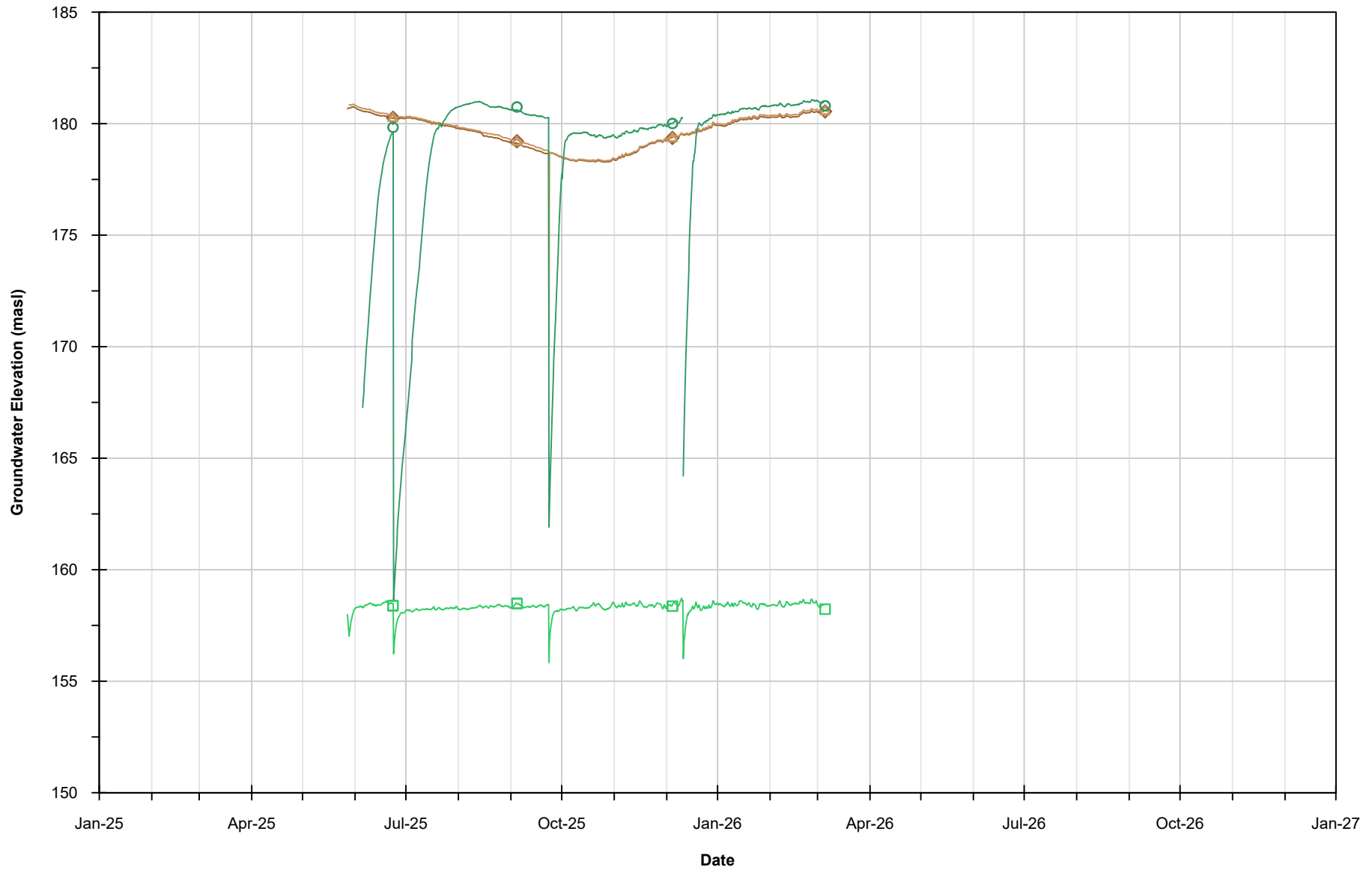


Figure E1-6 - Groundwater Hydrograph
Well Nest 80 Logger Data and Water Levels

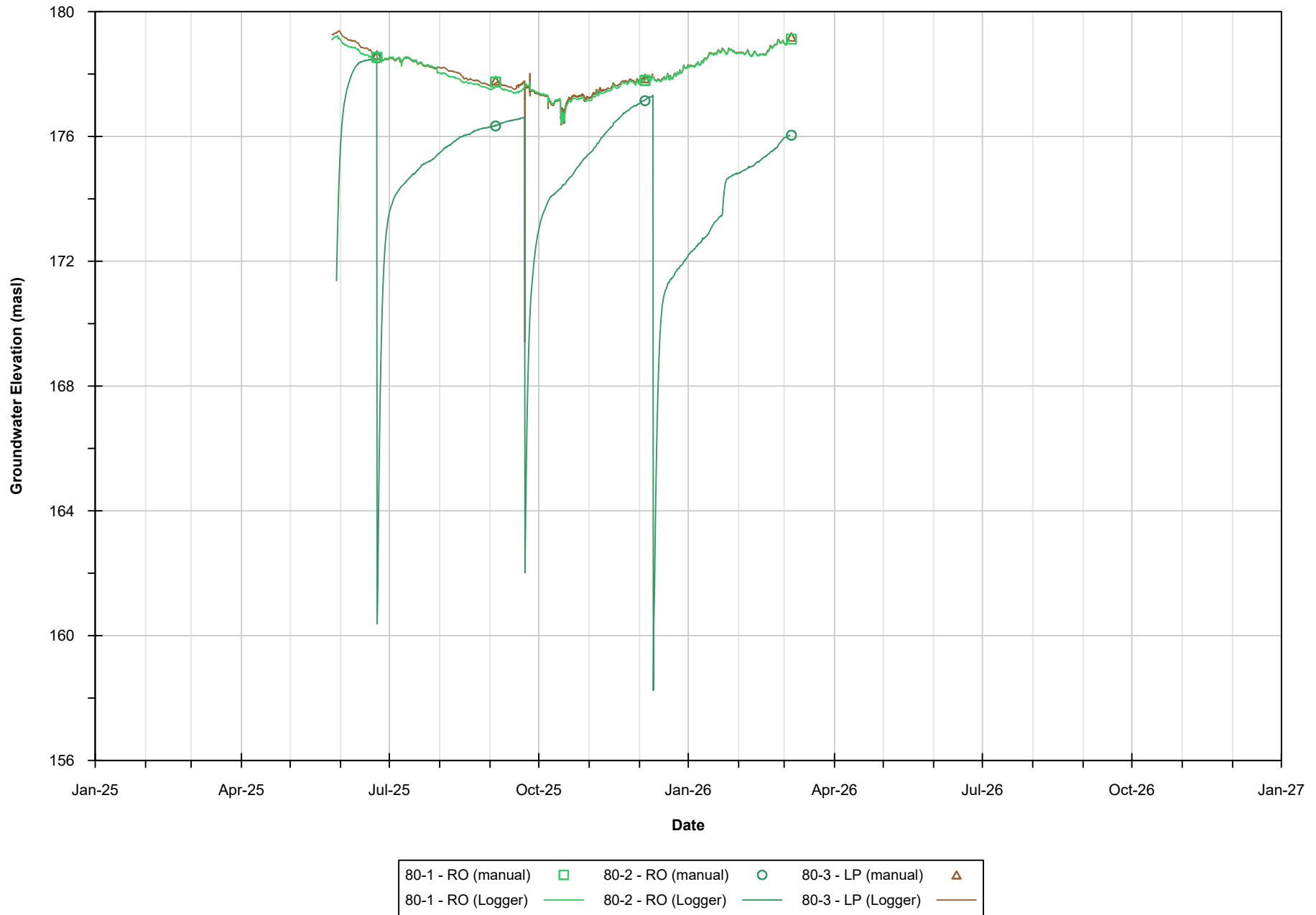


Figure E1-7 - Groundwater Hydrograph
Well Nest 81 Logger Data and Water Levels

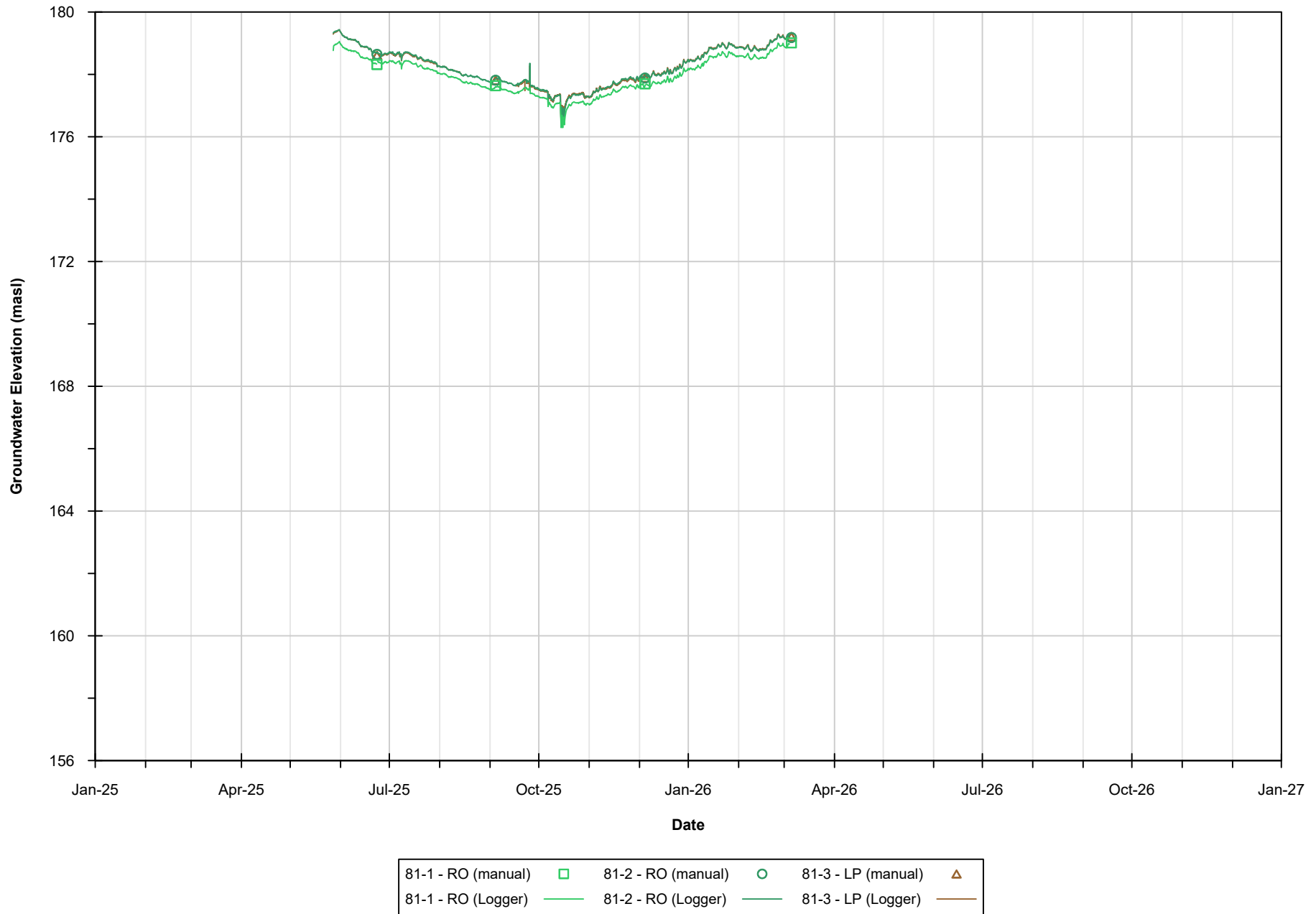


**Figure E2-1 - Groundwater Hydrograph
Well Nest 3 Water Levels**

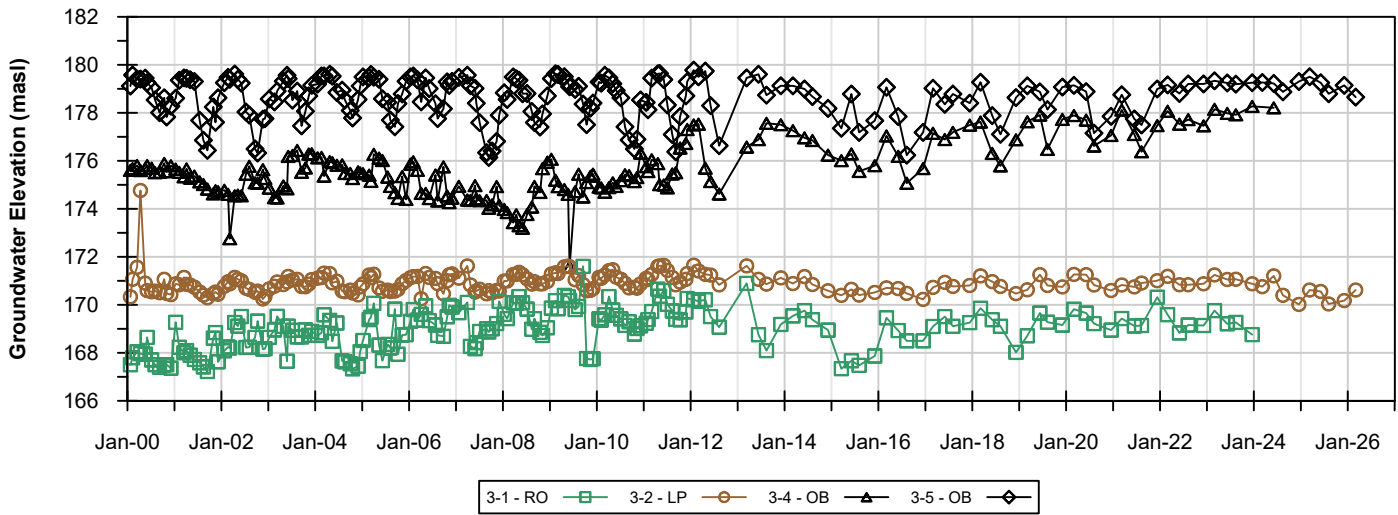


**Figure E2-2 - Groundwater Hydrograph
Well Nest 4 Water Levels**

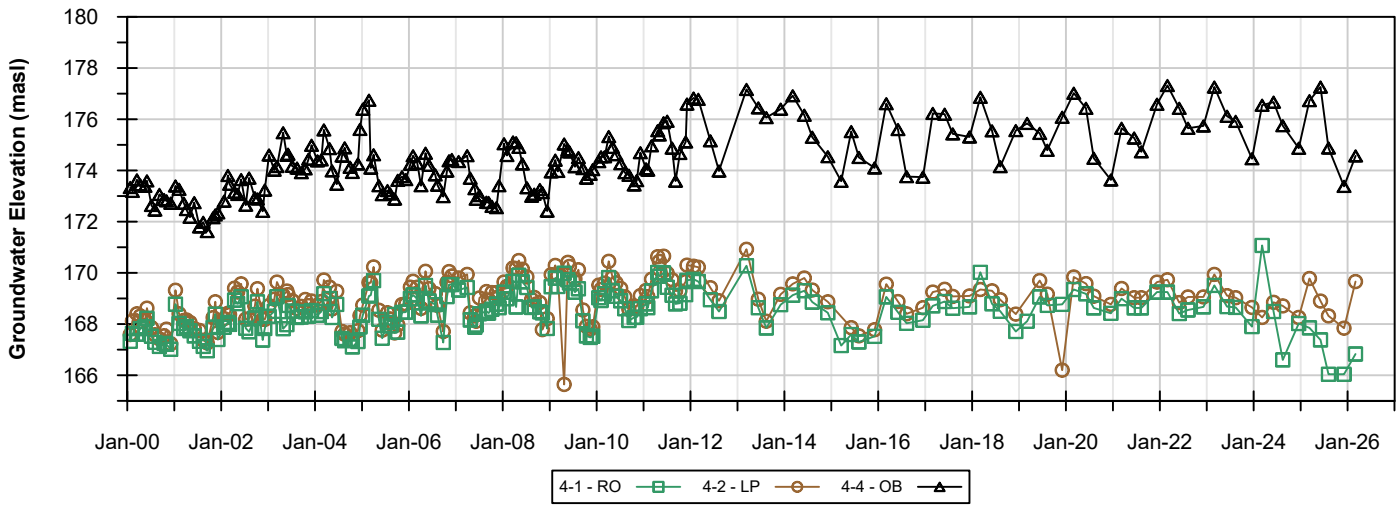


**Figure E2-3 - Groundwater Hydrograph
Well Nest 7 Water Levels**

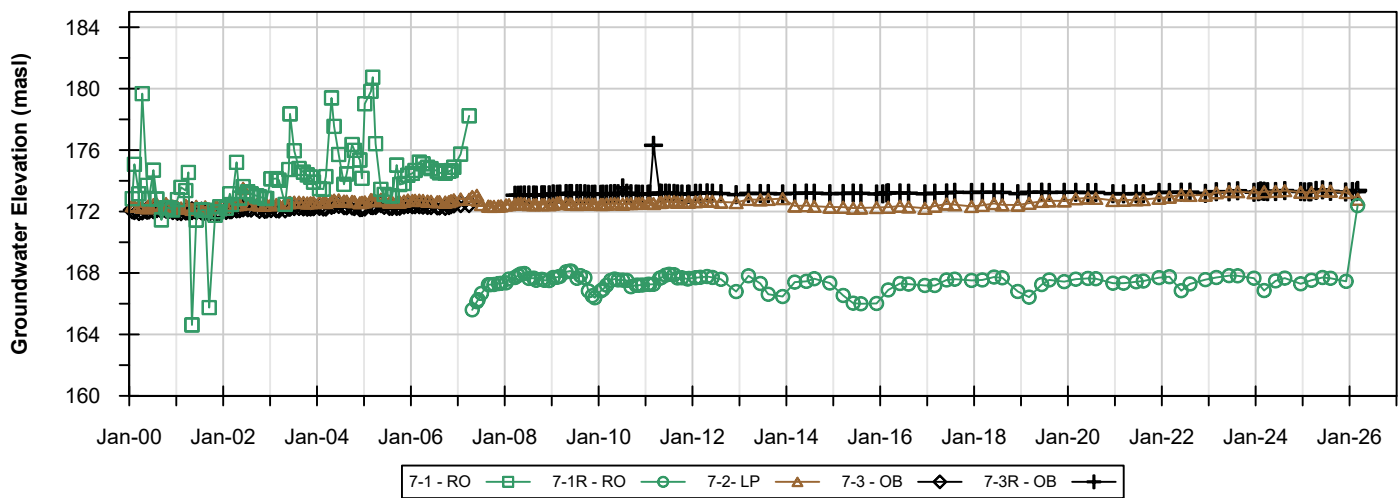


**Figure E2-4 - Groundwater Hydrograph
Well Nest 14 Water Levels**

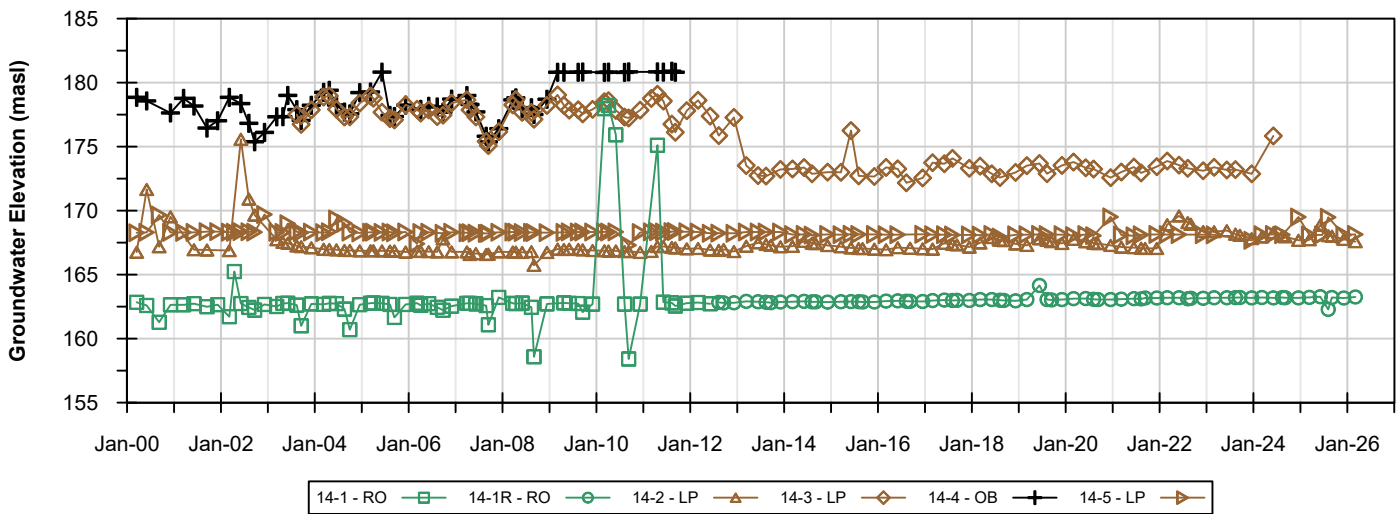


**Figure E2-5 - Groundwater Hydrograph
Well Nest 15 Water Levels**

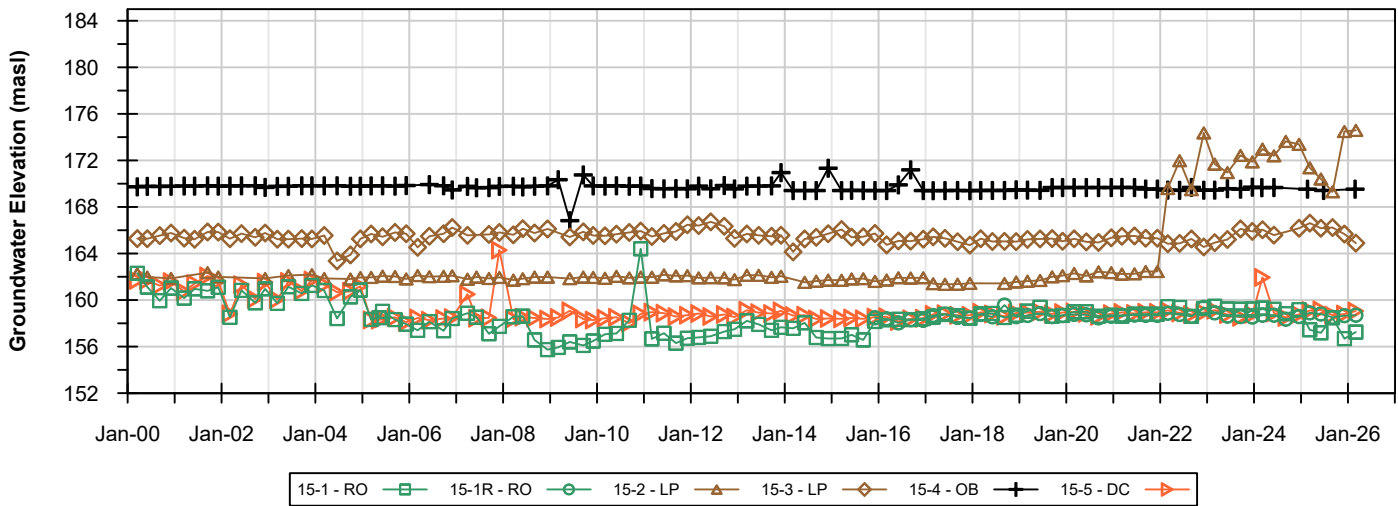


**Figure E2-6 - Groundwater Hydrograph
Well Nest 16 Water Levels**

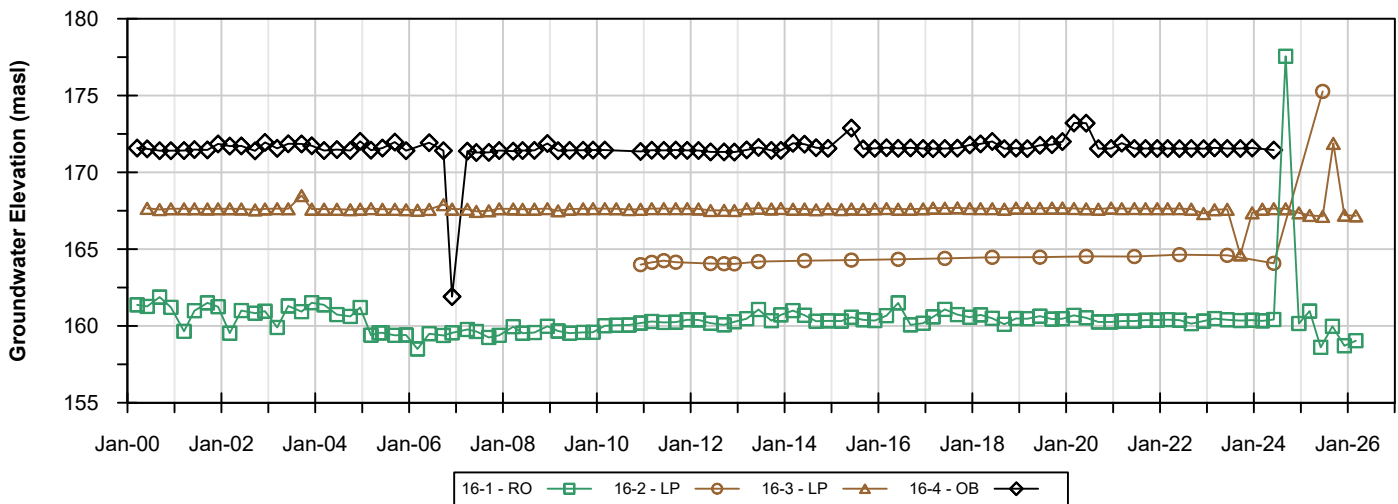


**Figure E2-7 - Groundwater Hydrograph
Well Nest 17 Water Levels**

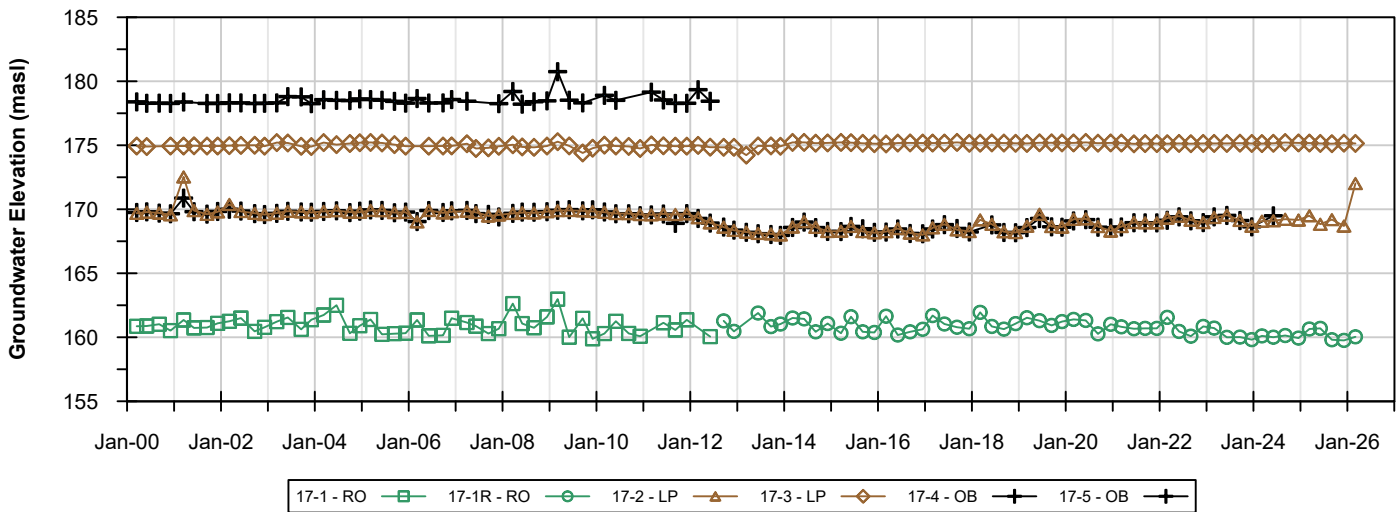


**Figure E2-8 - Groundwater Hydrograph
Well Nest 18 Water Levels**

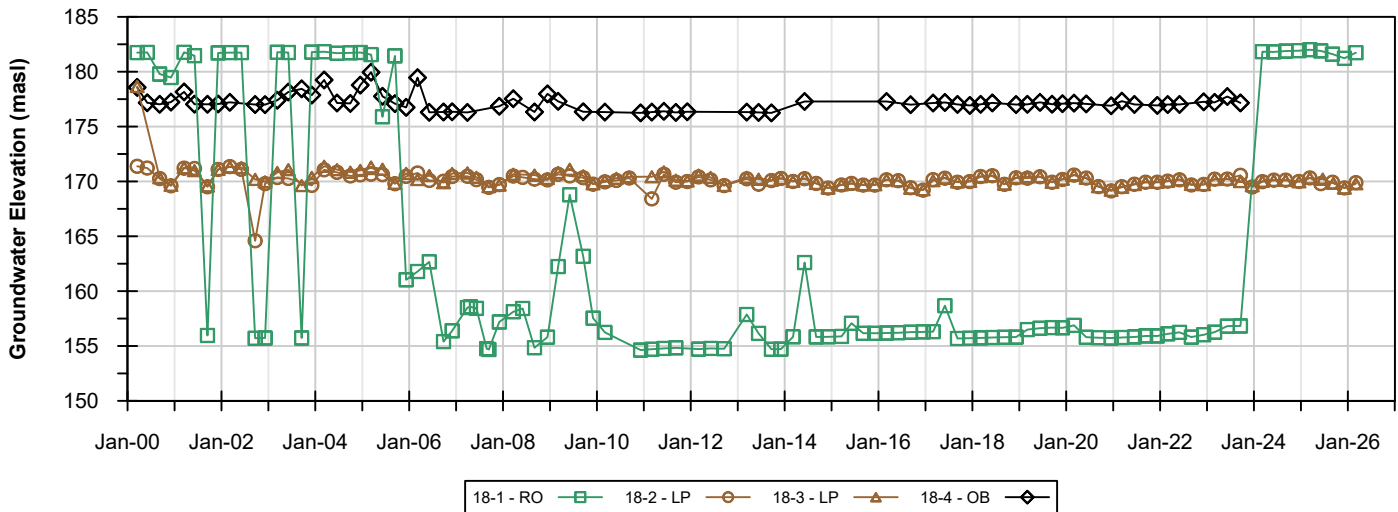


**Figure E2-9 - Groundwater Hydrograph
Well Nest 19 Water Levels**

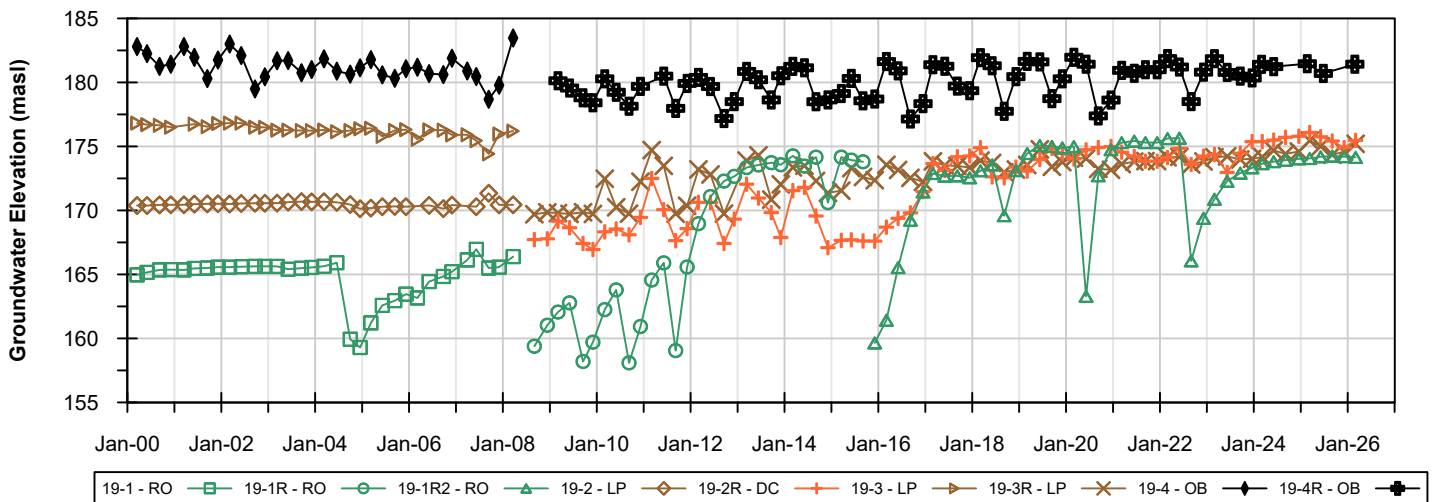


**Figure E2-10 - Groundwater Hydrograph
Well Nest 22 Water Levels**

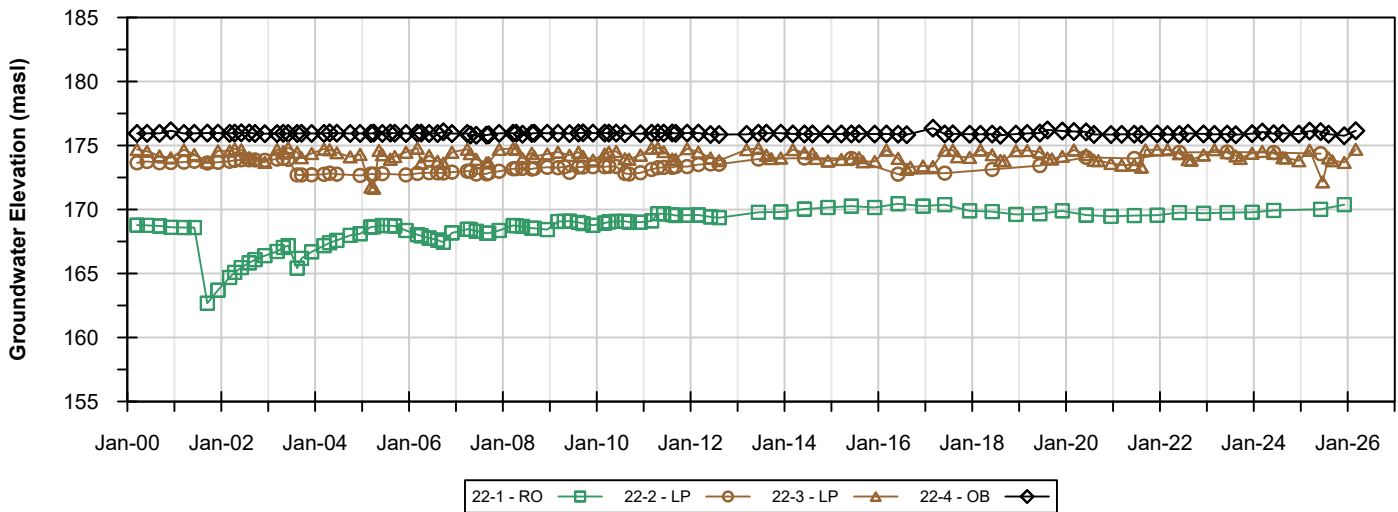


**Figure E2-11 - Groundwater Hydrograph
Well Nest 23 Water Levels**

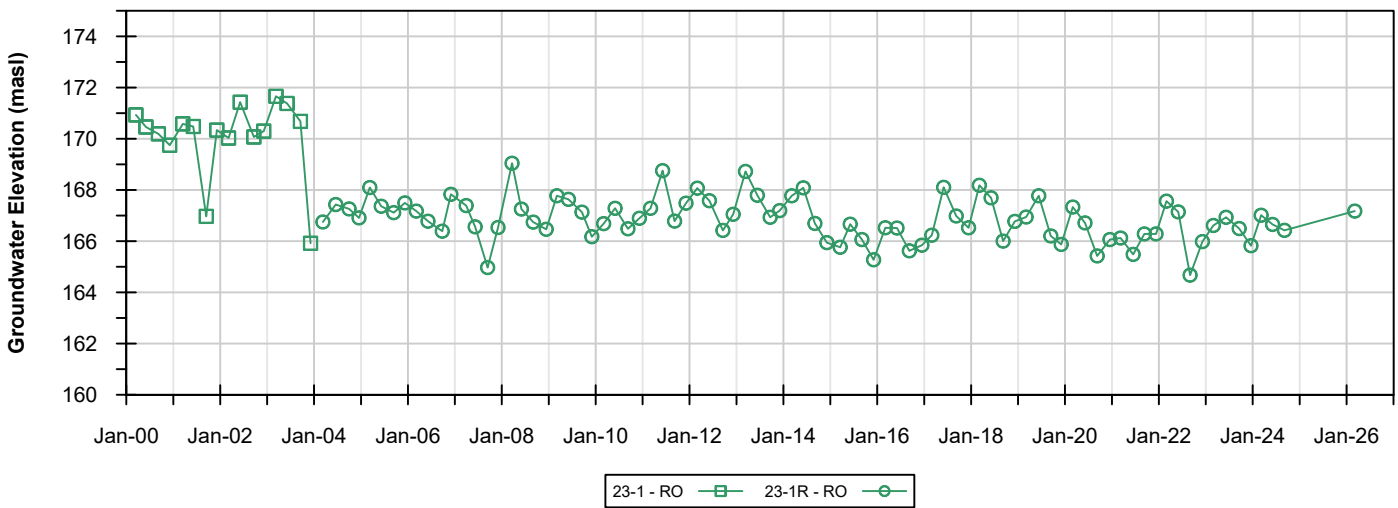


**Figure E2-12 - Groundwater Hydrograph
Well Nest 24 Water Levels**

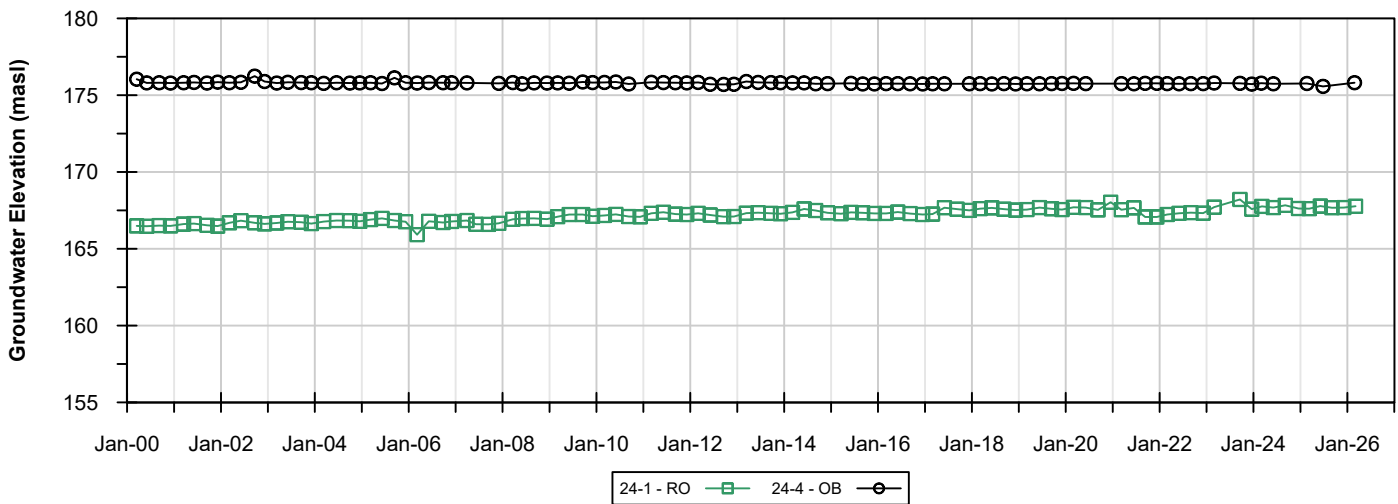


**Figure E2-13 - Groundwater Hydrograph
Well Nest 26 Water Levels**

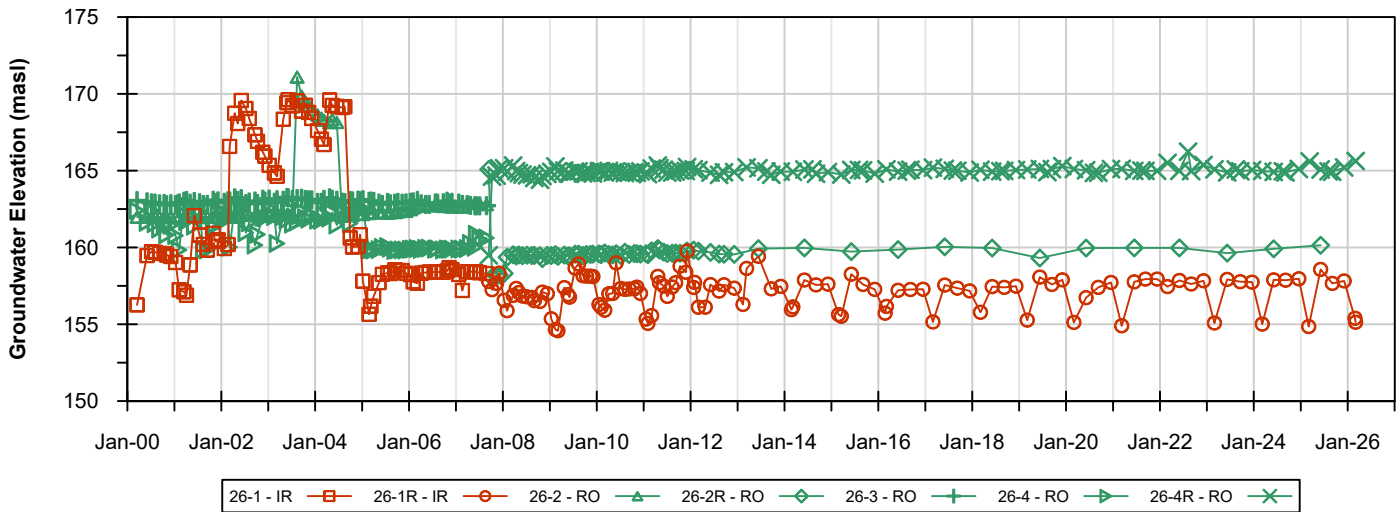


**Figure E2-14 - Groundwater Hydrograph
Well Nest 32 Water Levels**

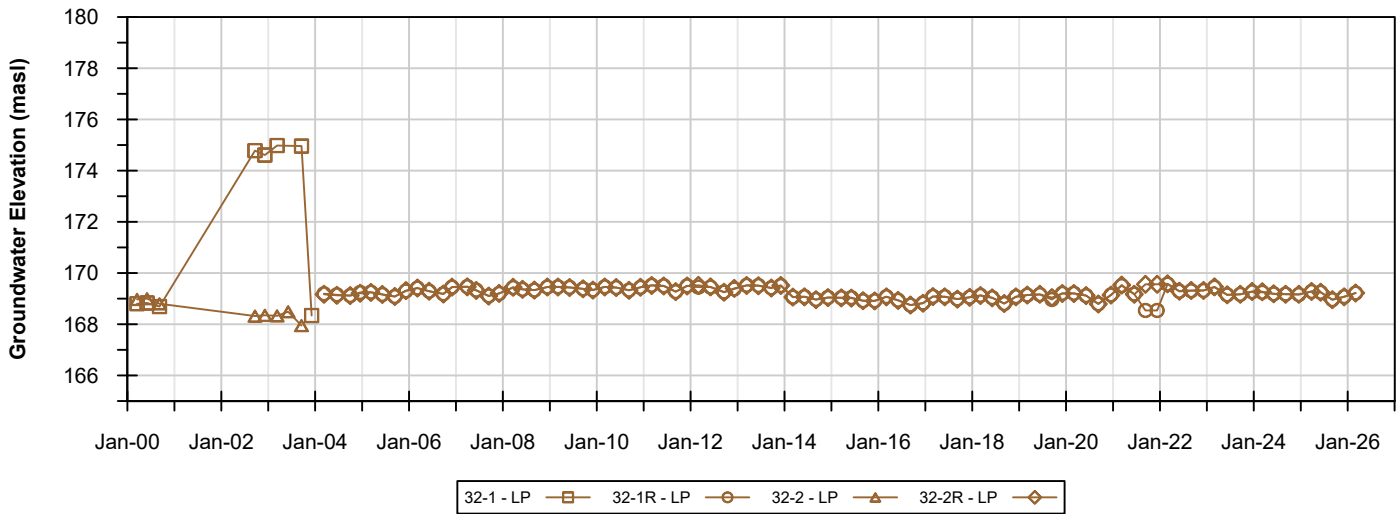


**Figure E2-15 - Groundwater Hydrograph
Well Nest 36 Water Levels**

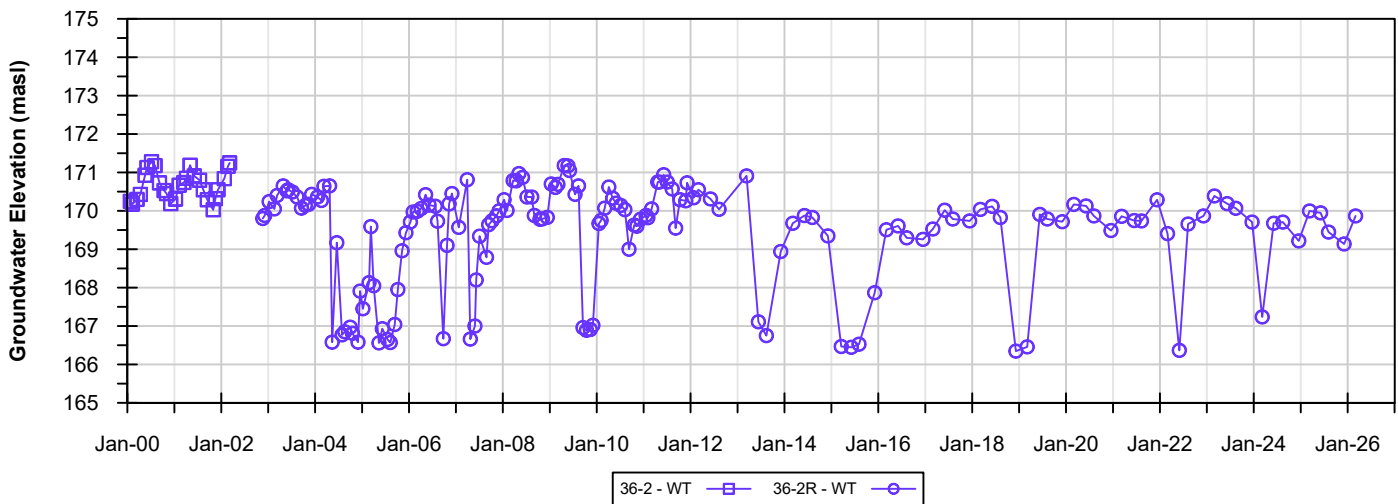


**Figure E2-16 - Groundwater Hydrograph
Well Nest 39 Water Levels**

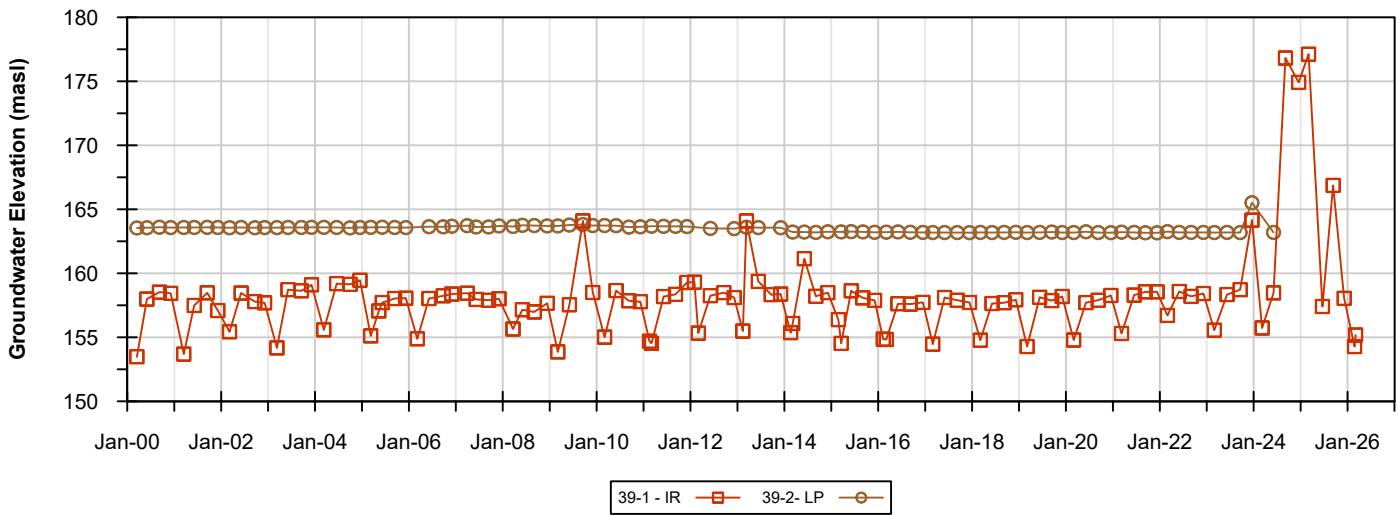


**Figure E2-17 - Groundwater Hydrograph
Well Nest 40 Water Levels**

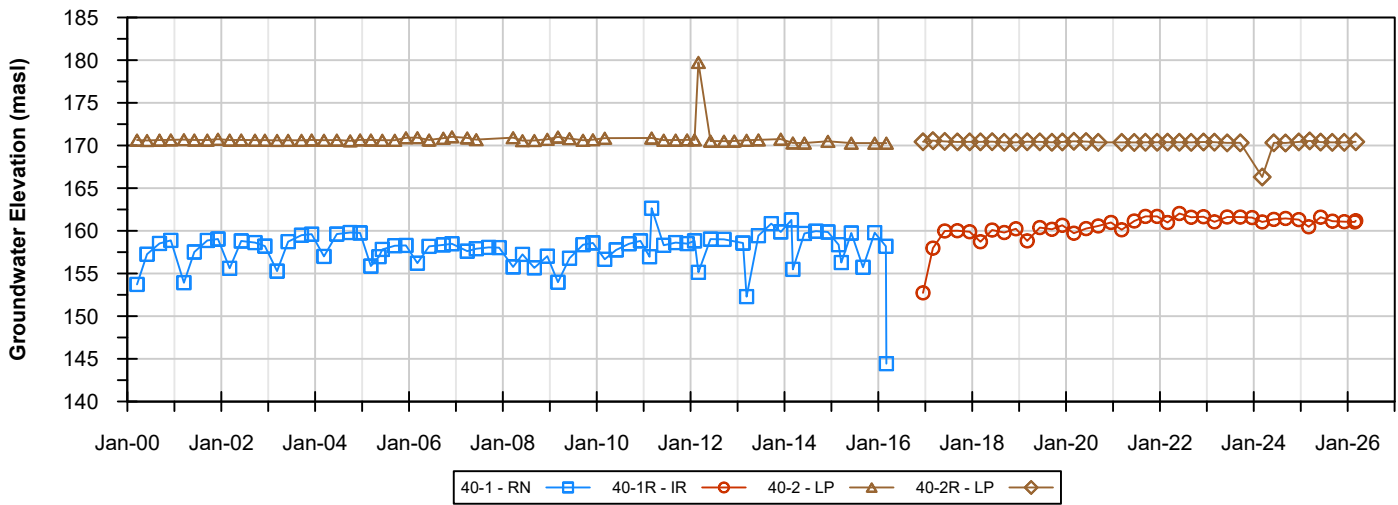


**Figure E2-18 - Groundwater Hydrograph
Well Nest 42 Water Levels**

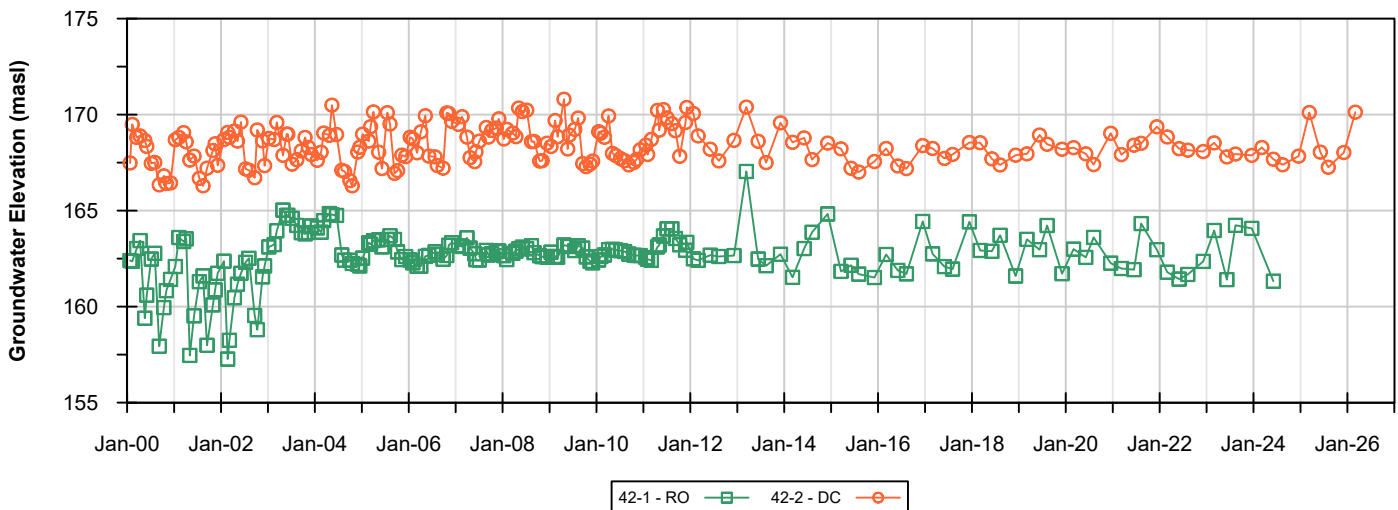


**Figure E2-19 - Groundwater Hydrograph
Well Nest 45 Water Levels**

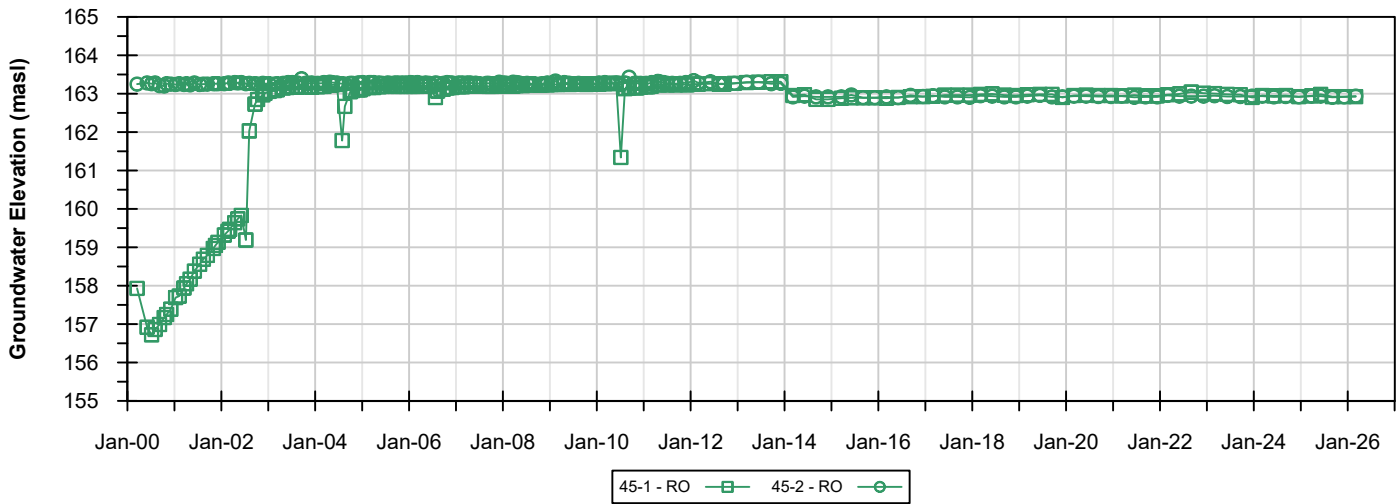


**Figure E2-20 - Groundwater Hydrograph
Well Nest 46 Water Levels**

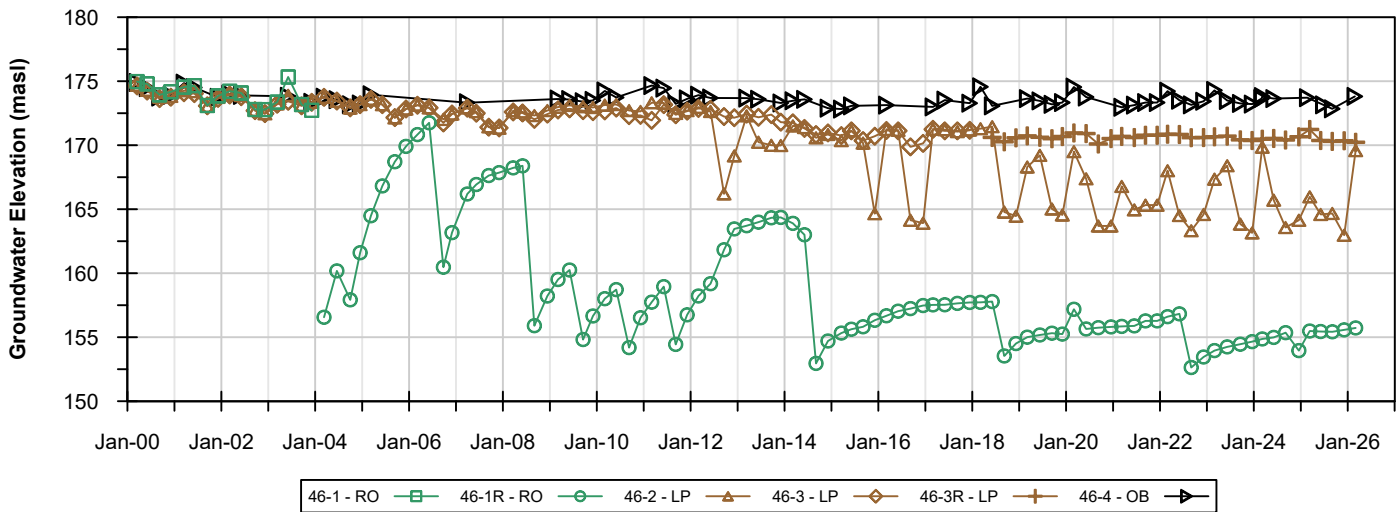


**Figure E2-21 - Groundwater Hydrograph
Well Nest 47 Water Levels**

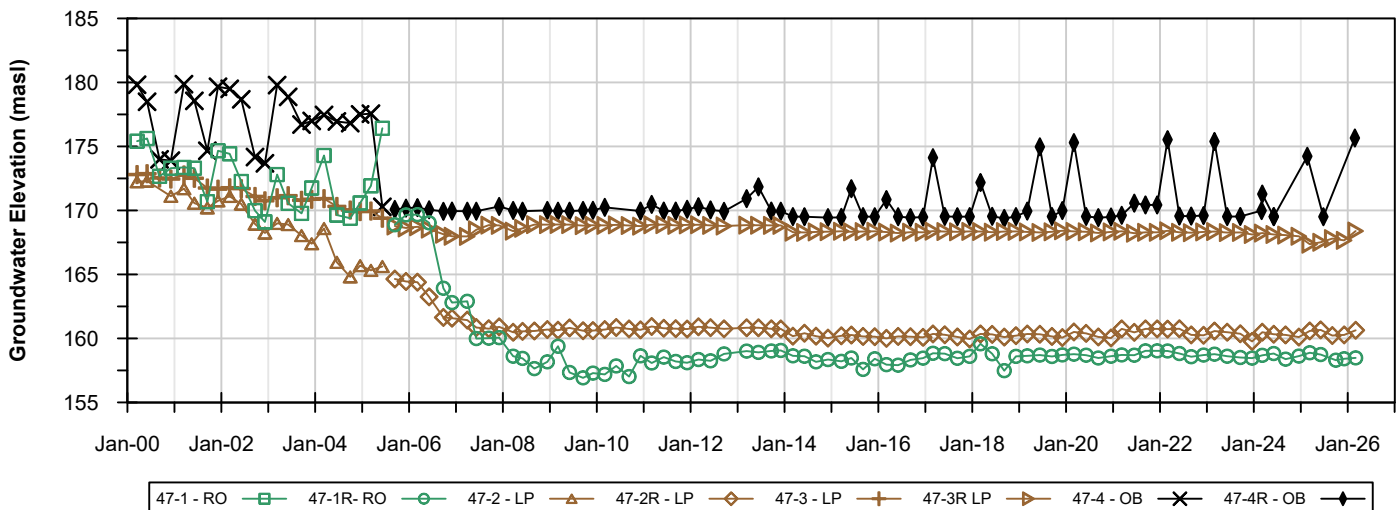


**Figure E2-22 - Groundwater Hydrograph
Well Nest 48 Water Levels**

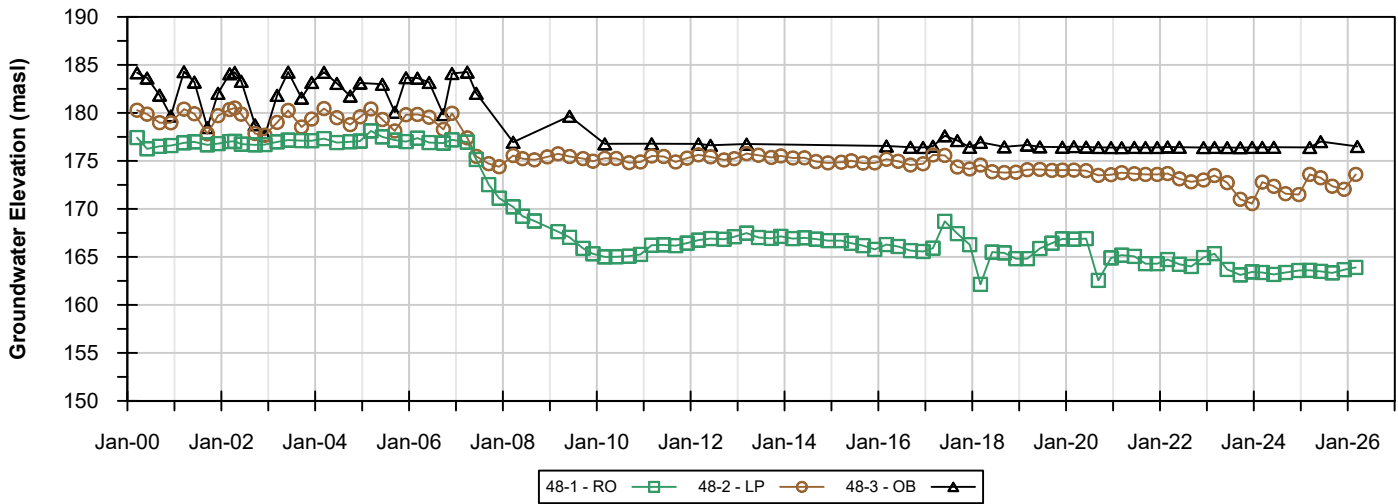


**Figure E2-23 - Groundwater Hydrograph
Well Nest 49 Water Levels**

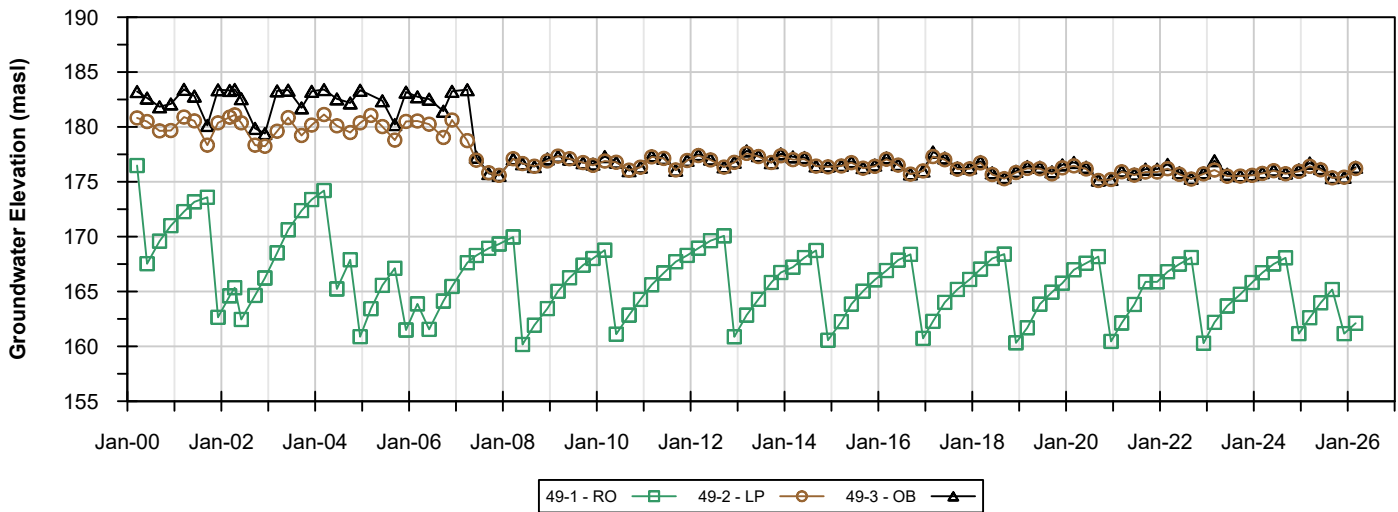


**Figure E2-24 - Groundwater Hydrograph
Well Nest 50 Water Levels**

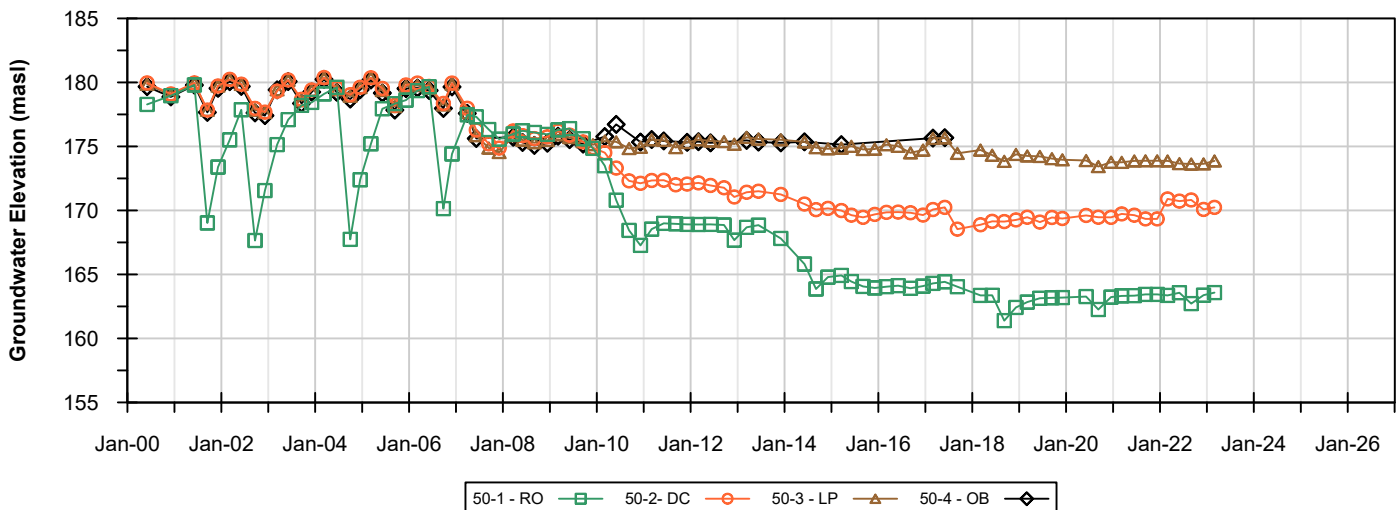


**Figure E2-25 - Groundwater Hydrograph
Well Nest 51 Water Levels**

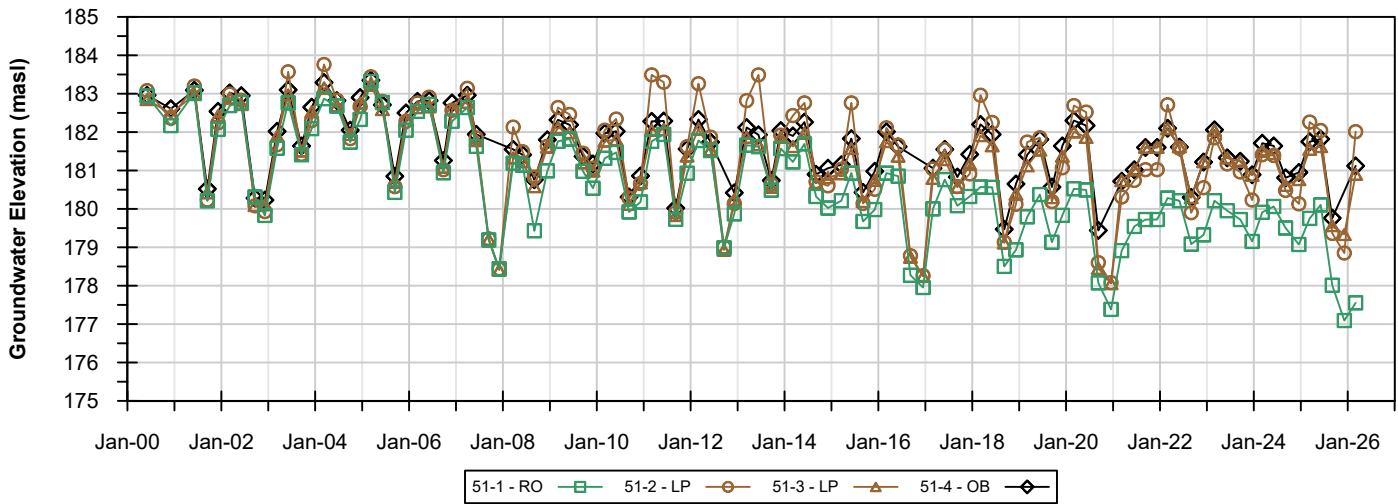


**Figure E2-26 - Groundwater Hydrograph
Well Nest 52 Water Levels**

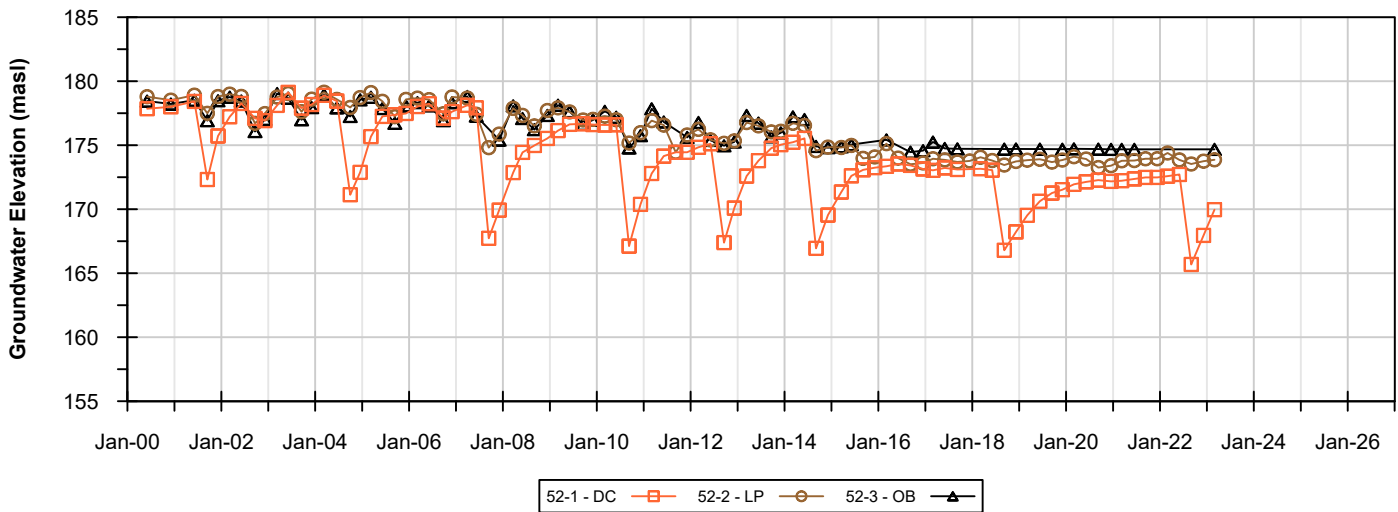


**Figure E2-27 - Groundwater Hydrograph
Well Nest 53 Water Levels**

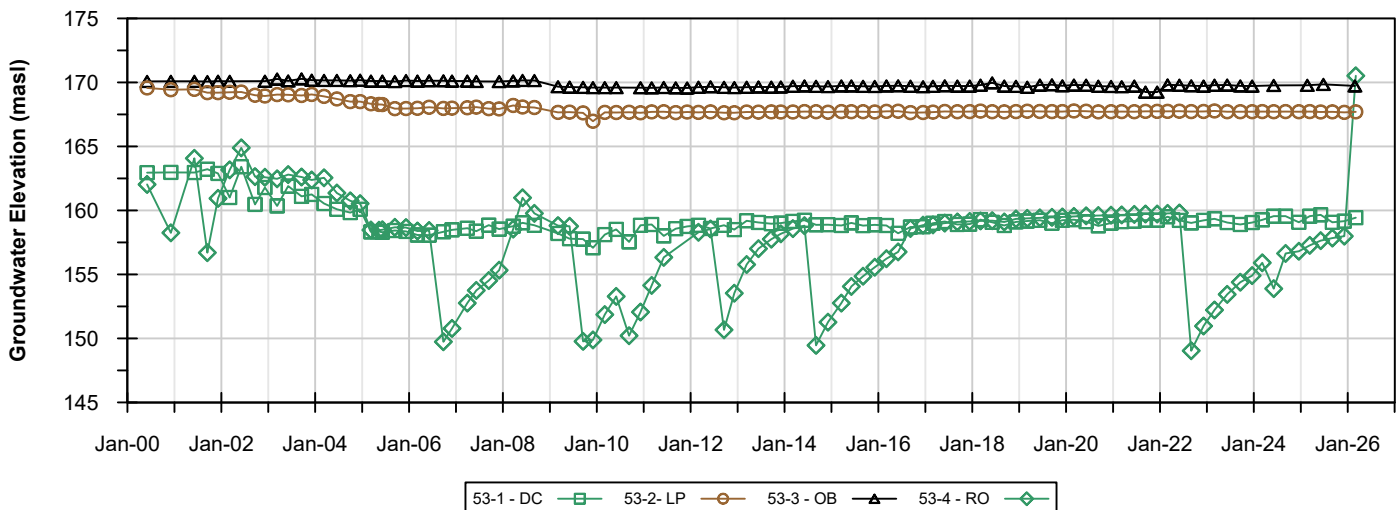


**Figure E2-28 - Groundwater Hydrograph
Well Nest 54 Water Levels**

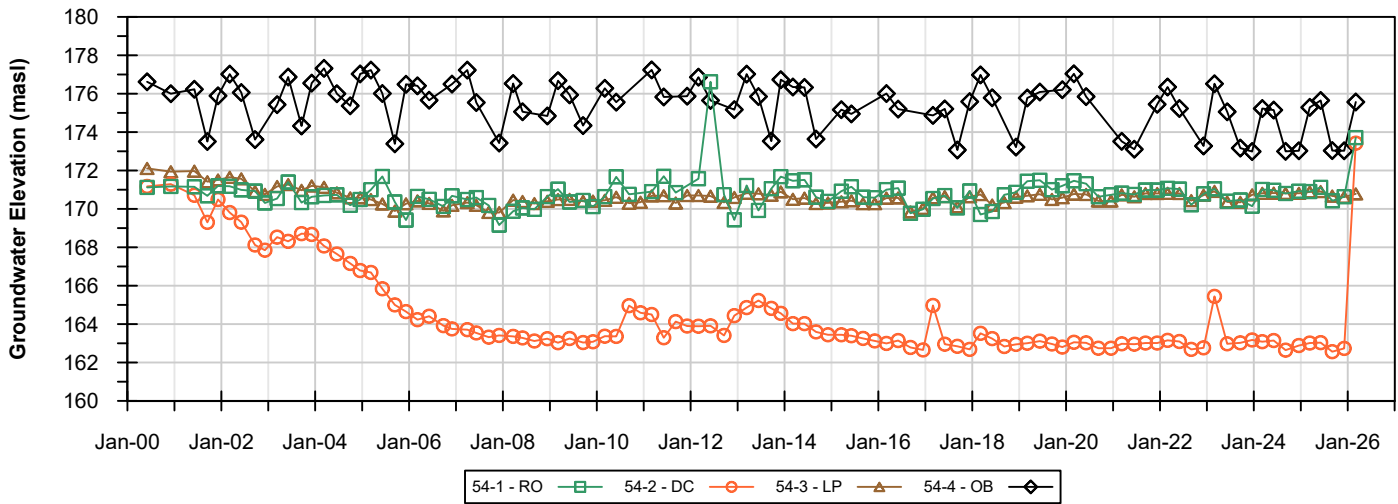


**Figure E2-29 - Groundwater Hydrograph
Well Nest 55 Water Levels**

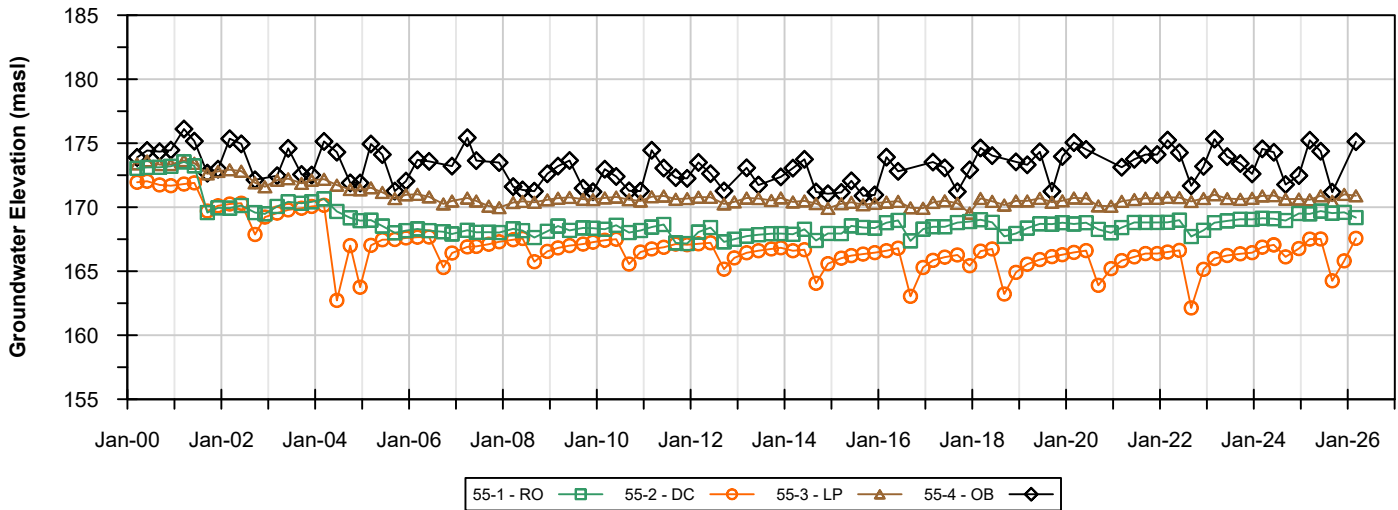


**Figure E2-30 - Groundwater Hydrograph
Well Nest 56 Water Levels**

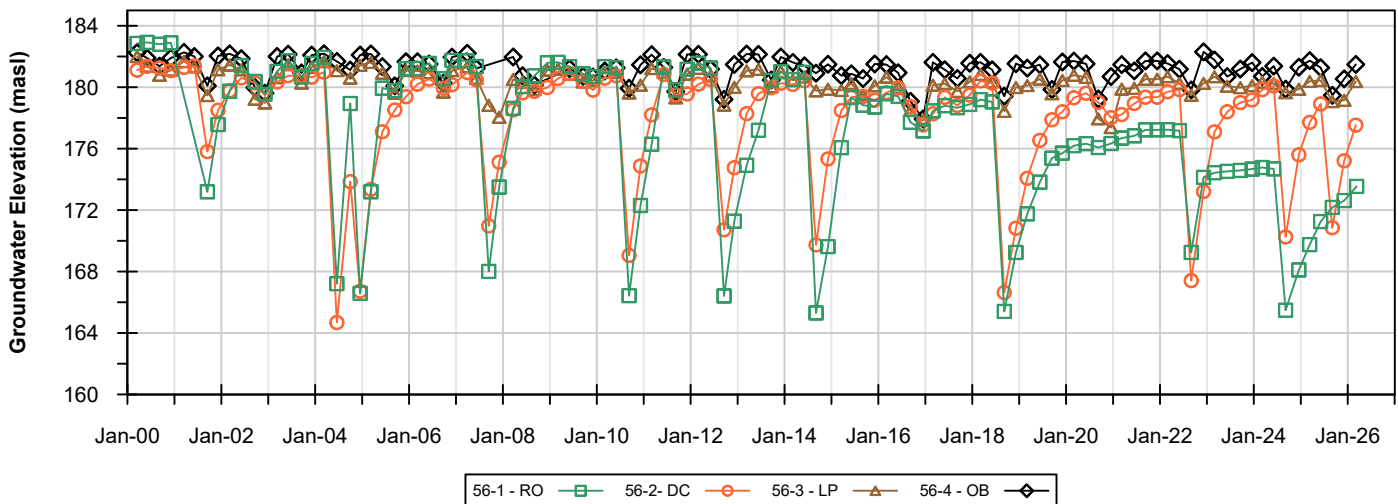


**Figure E2-31 - Groundwater Hydrograph
Well Nest 61 Water Levels**

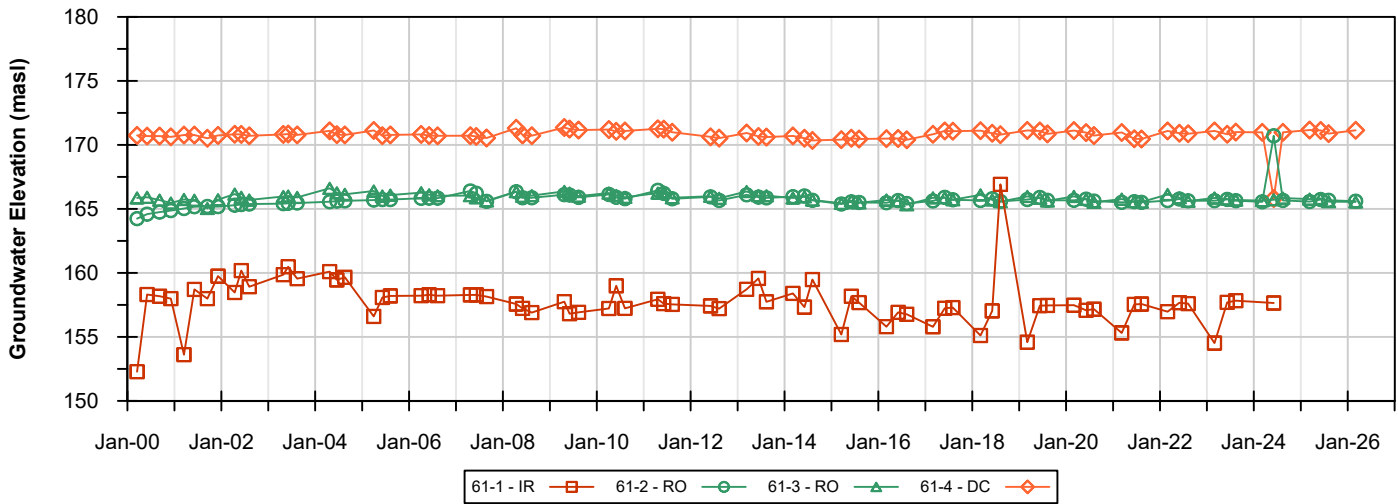


**Figure E2-32 - Groundwater Hydrograph
Well Nest 63 Water Levels**

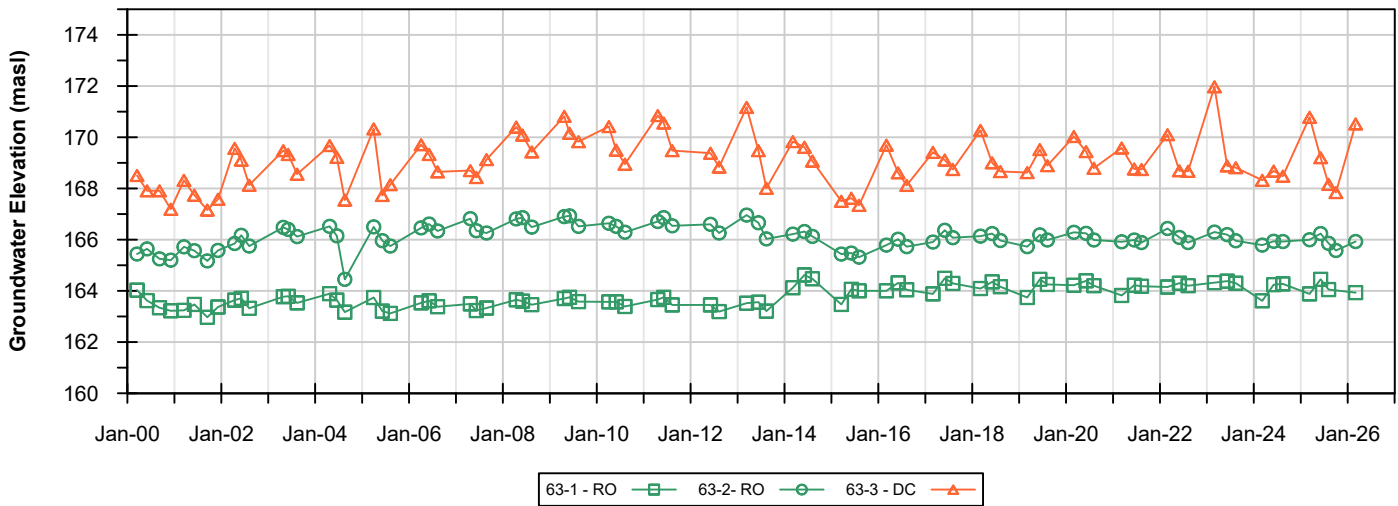


**Figure E2-33 - Groundwater Hydrograph
Well Nest 67 Water Levels**

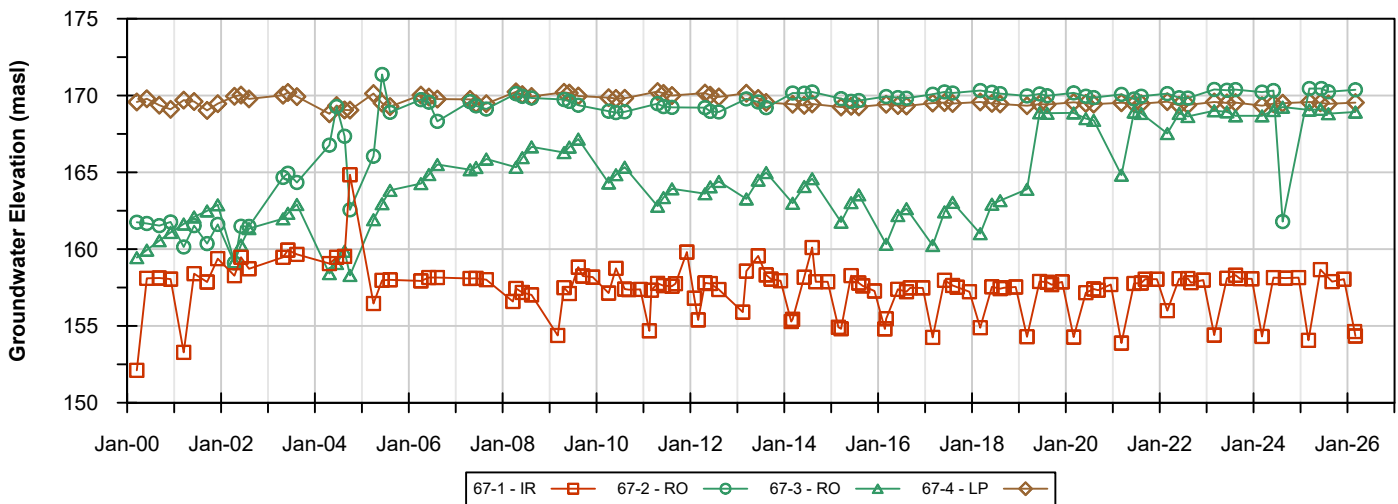


**Figure E2-34 - Groundwater Hydrograph
Well Nest 68 Water Levels**

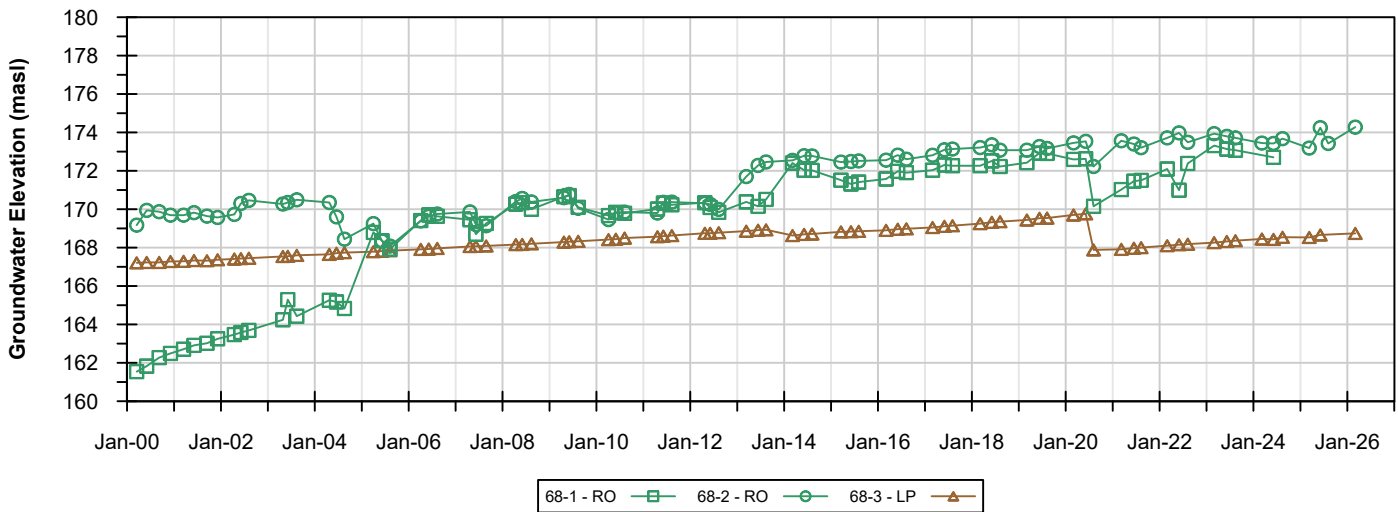


**Figure E2-35 - Groundwater Hydrograph
Well Nest 69 Water Levels**

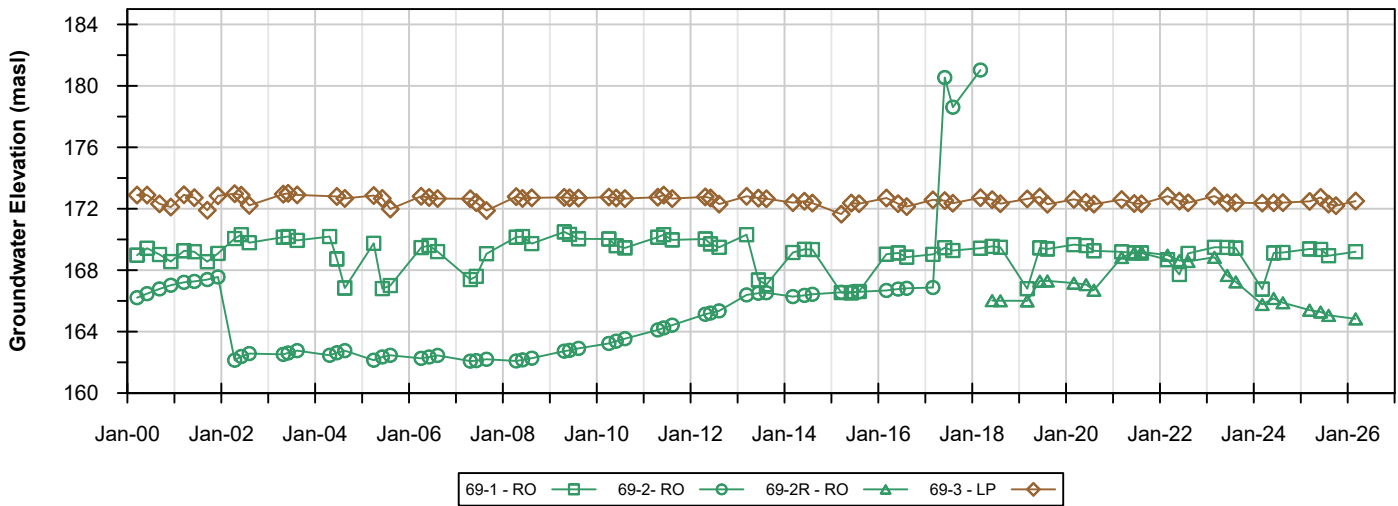


**Figure E2-36 - Groundwater Hydrograph
Well Nest 70 Water Levels**

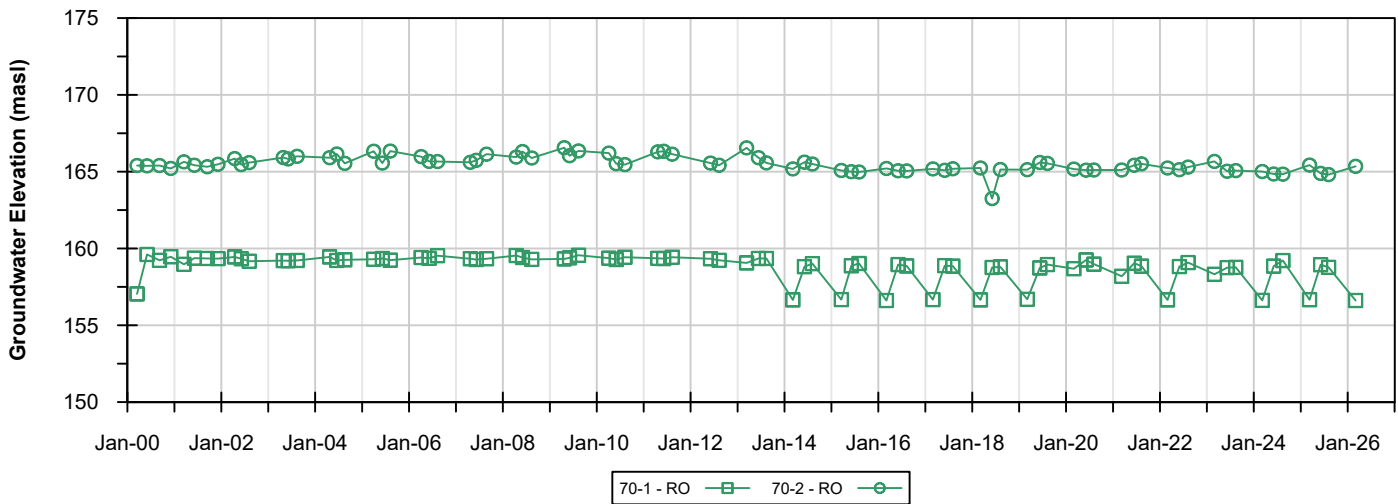


**Figure E2-37 - Groundwater Hydrograph
Well Nest 73 Water Levels**

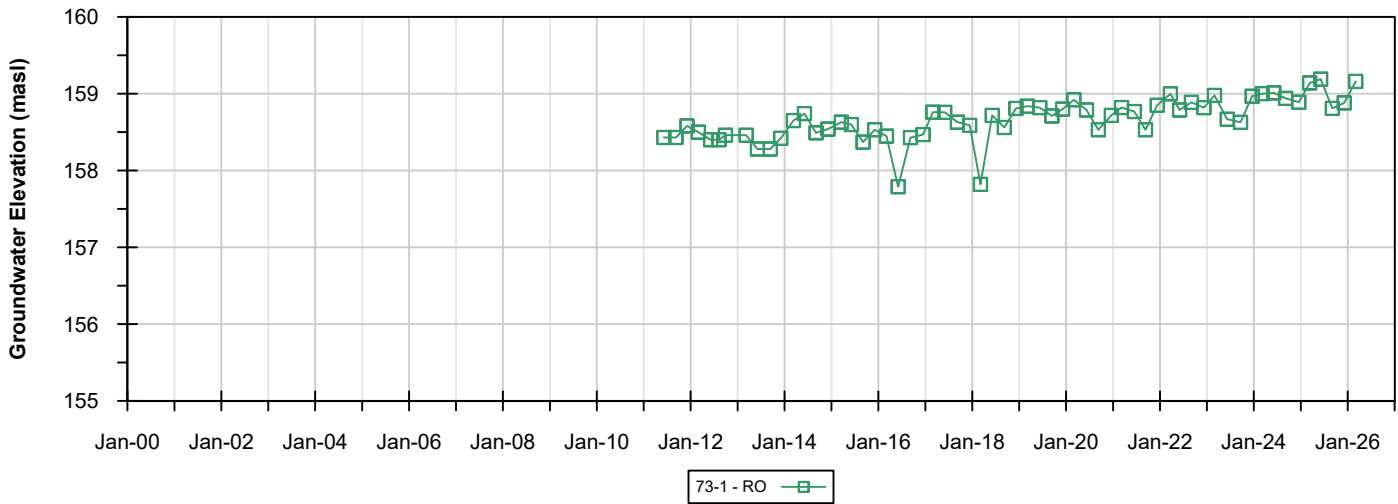


**Figure E2-38 - Groundwater Hydrograph
GWCS Water Levels**

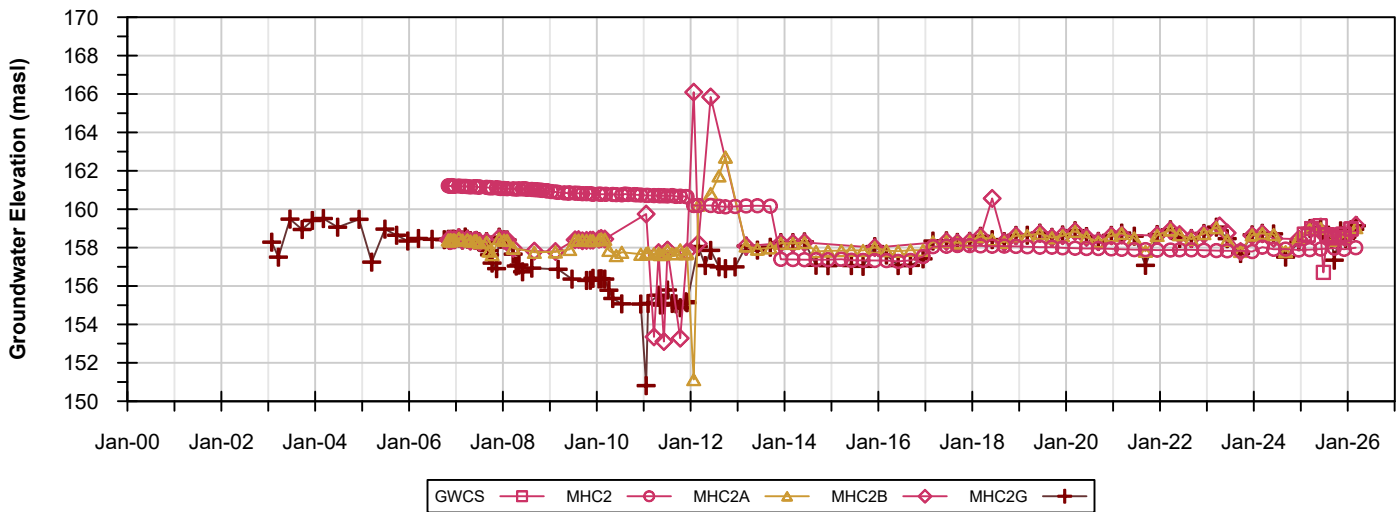


**Figure E2-39 - Groundwater Hydrograph
MM1 Water Levels**

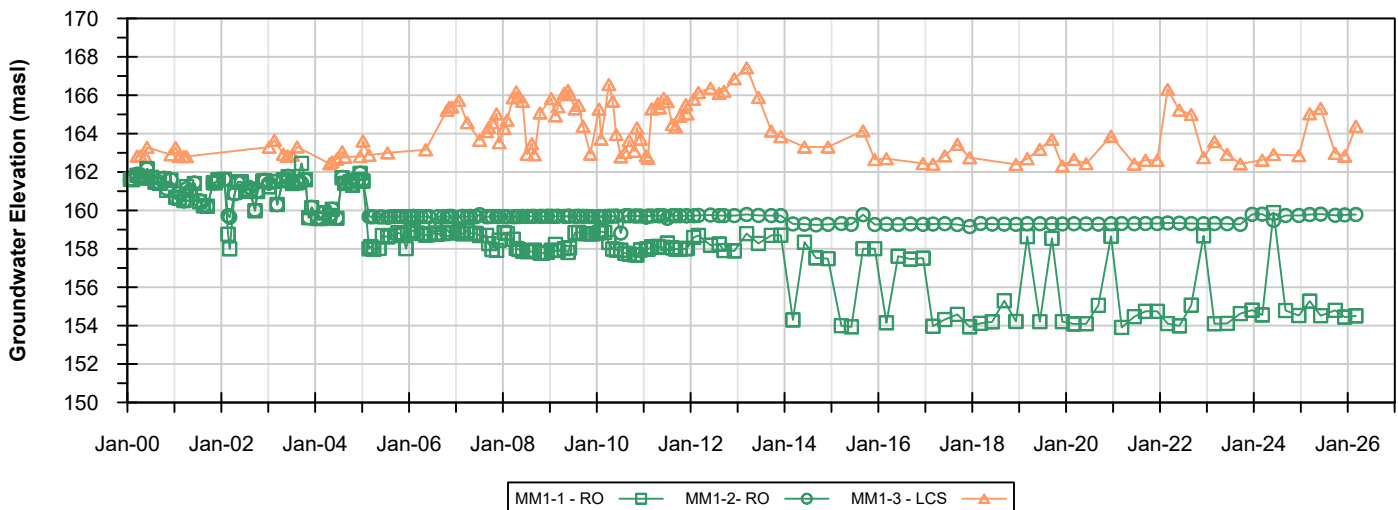


**Figure E2-40 - Groundwater Hydrograph
MM2 Water Levels**

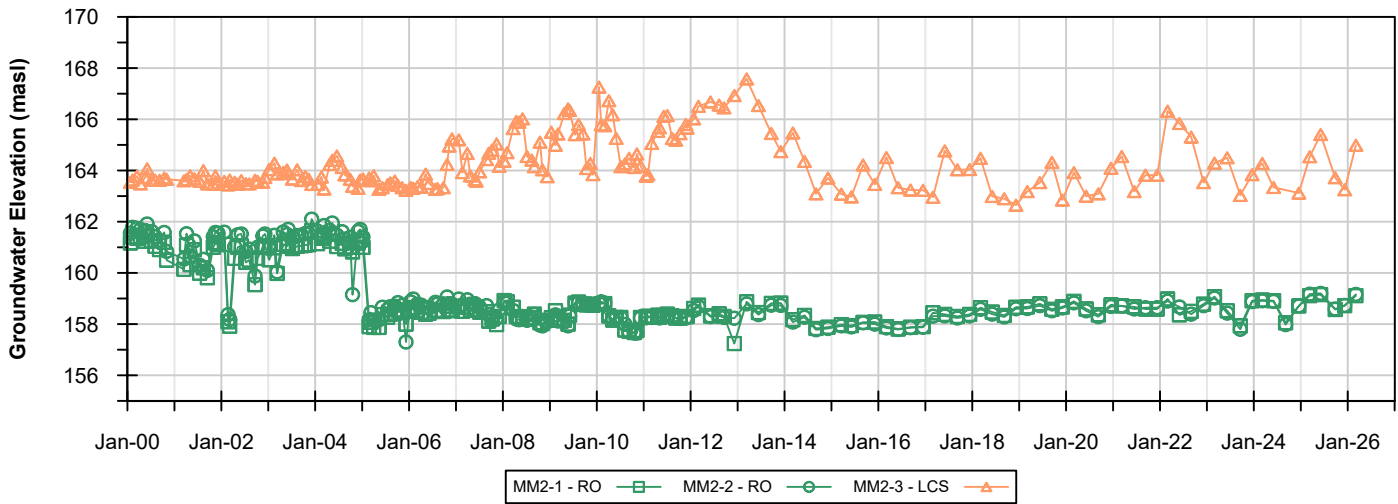


**Figure E2-41 - Groundwater Hydrograph
MM3 Water Levels**

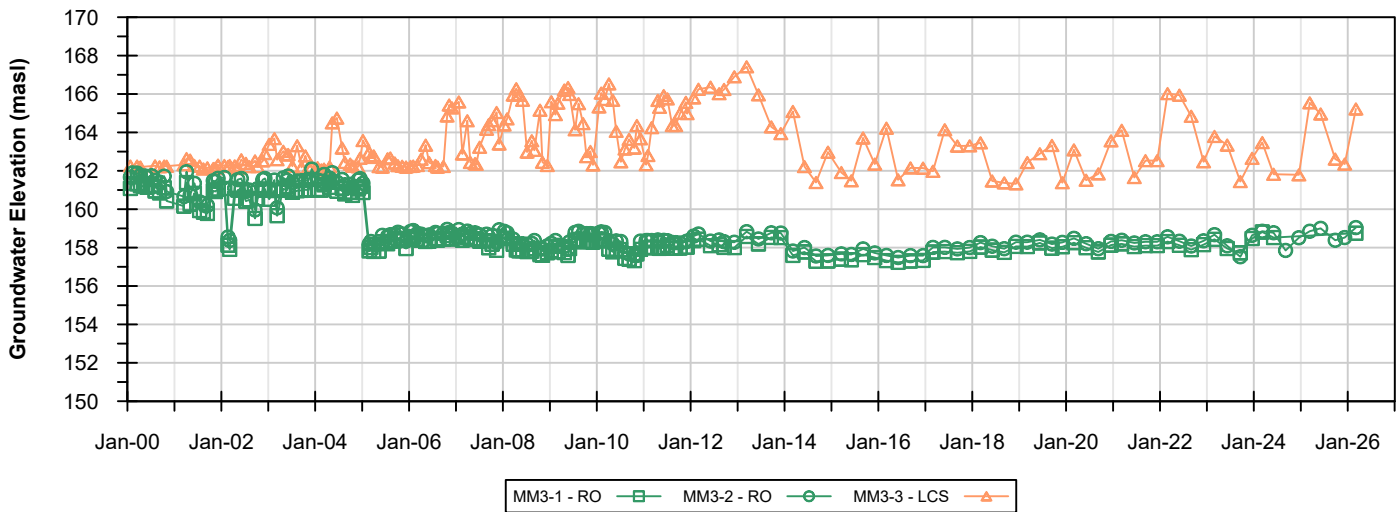


**Figure E2-42 - Groundwater Hydrograph
MM4 Water Levels**

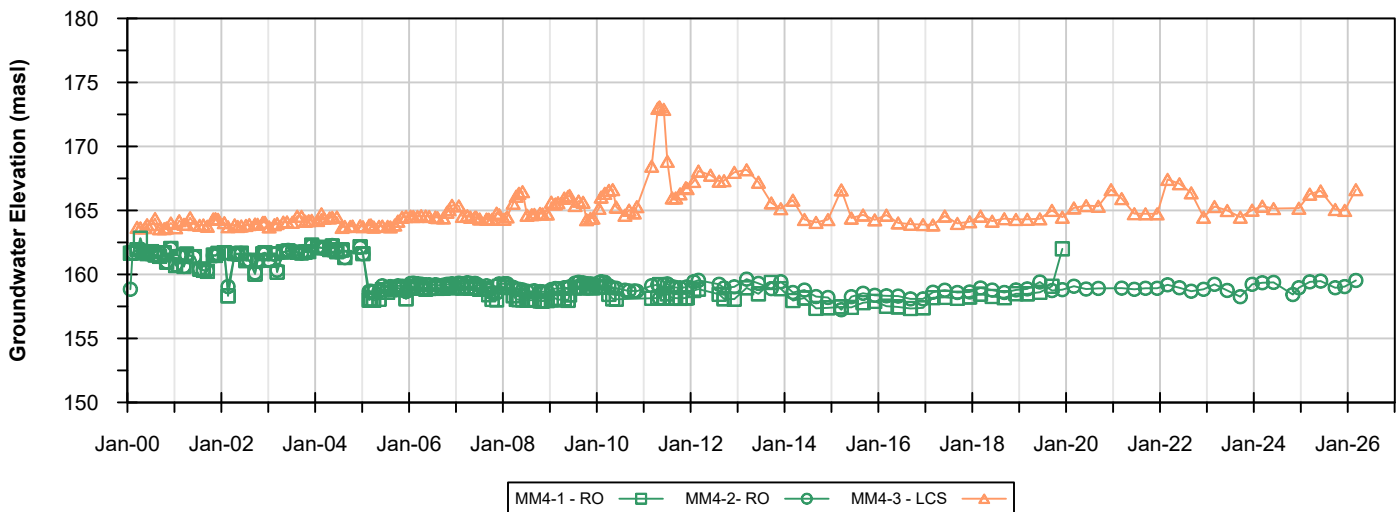


**Figure E2-43 - Groundwater Hydrograph
Leachate Pumping Wells Water Levels**

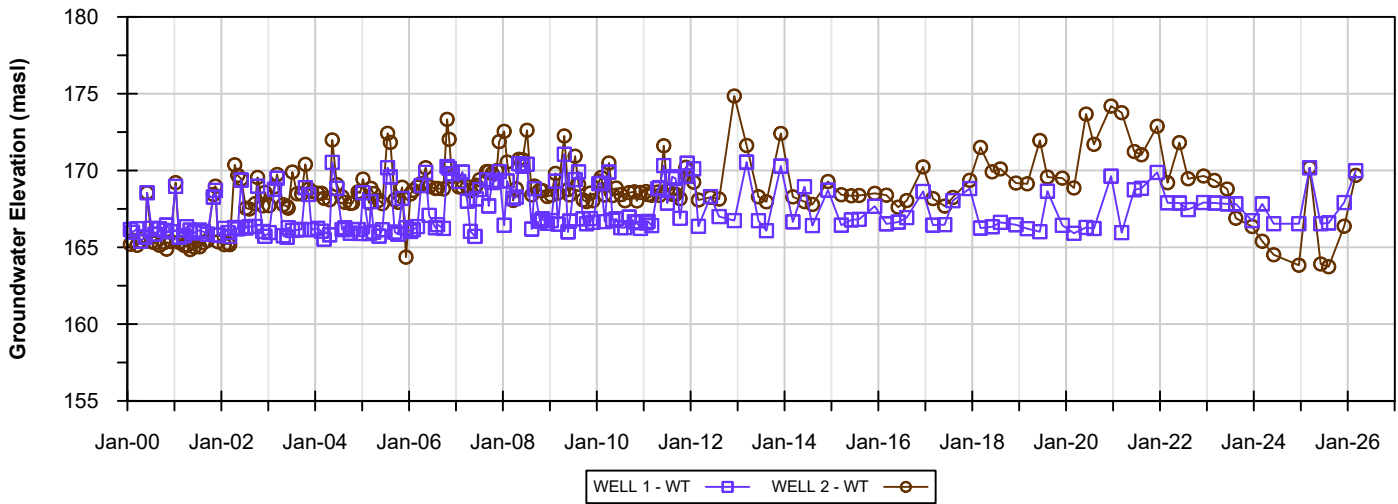


**Figure E2-44 - Groundwater Hydrograph
RES1 Water Levels**

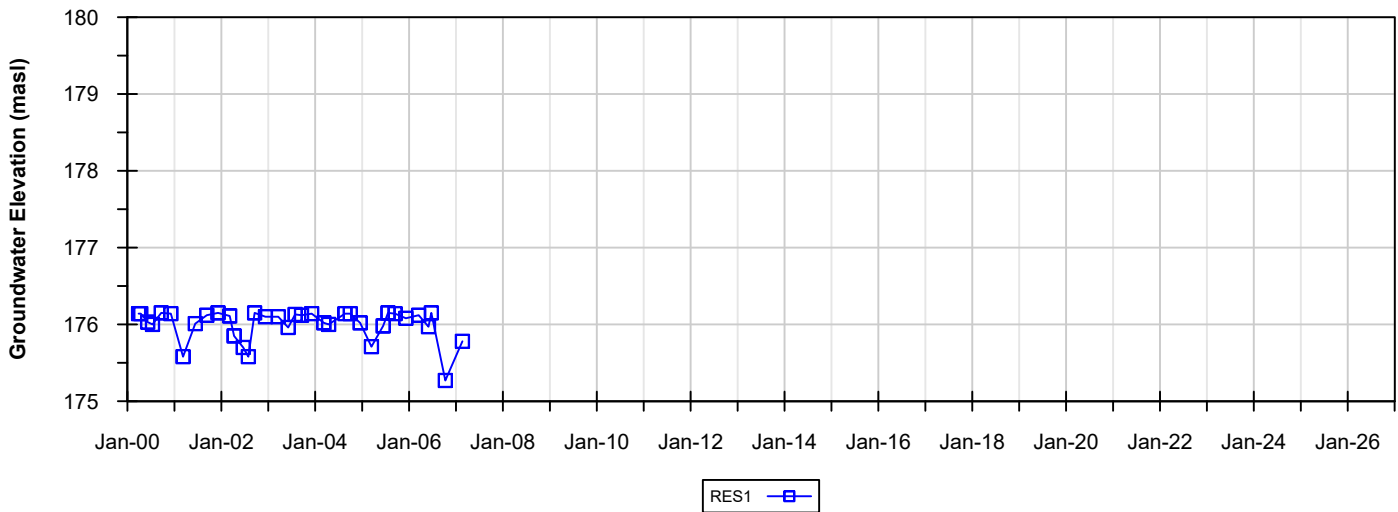


**Figure E2-45 - Groundwater Hydrograph
RES2 Water Levels**

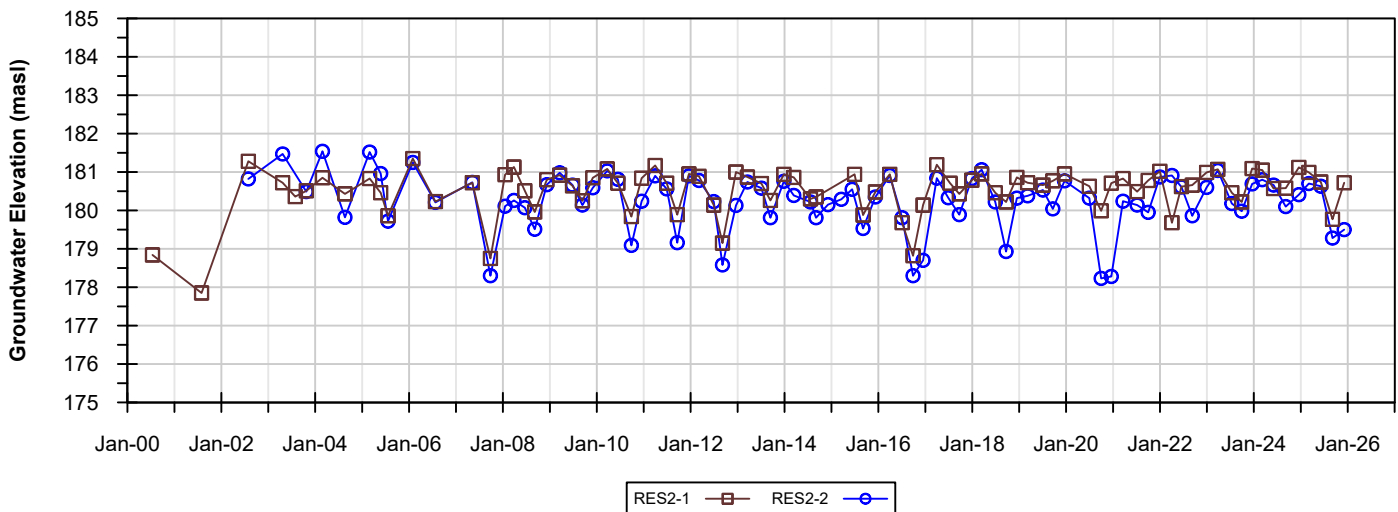


**Figure E2-46 - Groundwater Hydrograph
RES3 Water Levels**

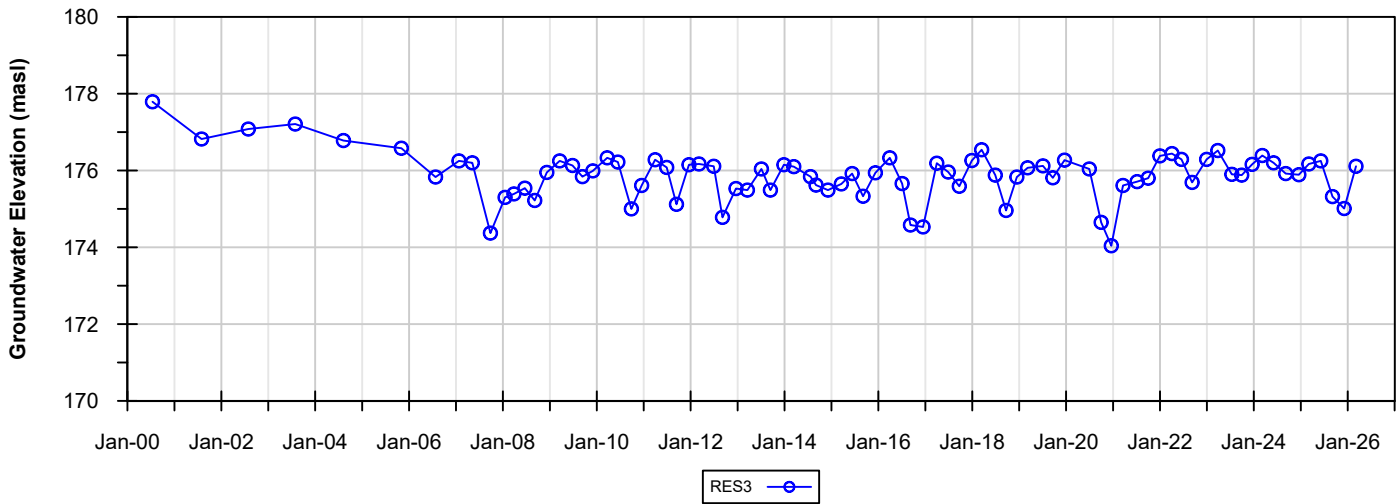


**Figure E2-47 - Groundwater Hydrograph
RES4 Water Levels**

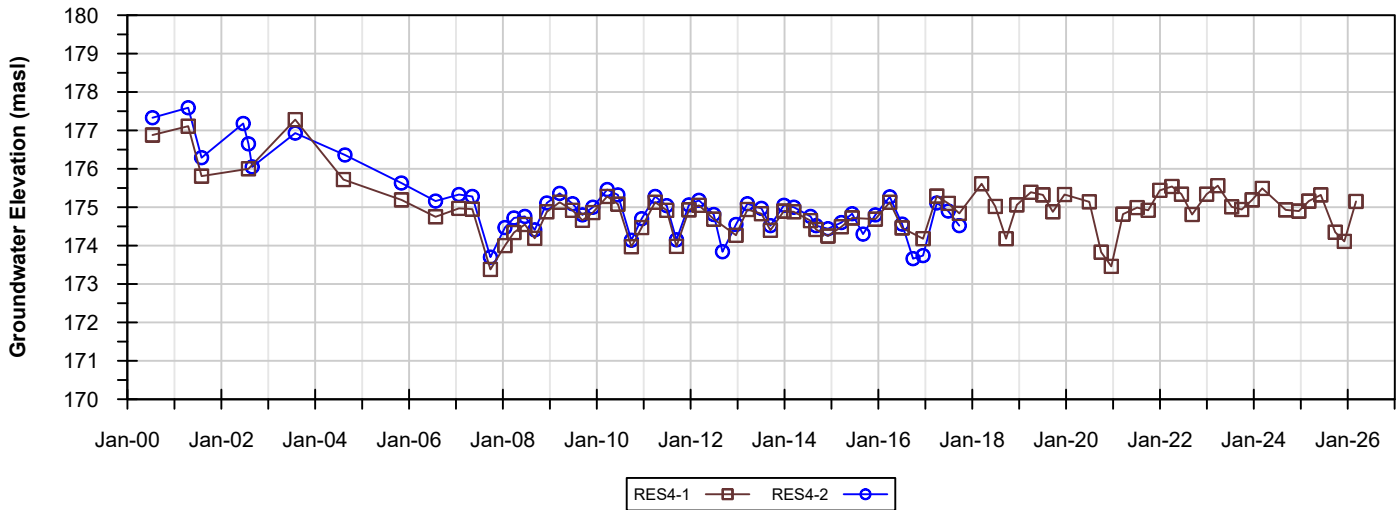


**Figure E2-48 - Groundwater Hydrograph
RES5 Water Levels**

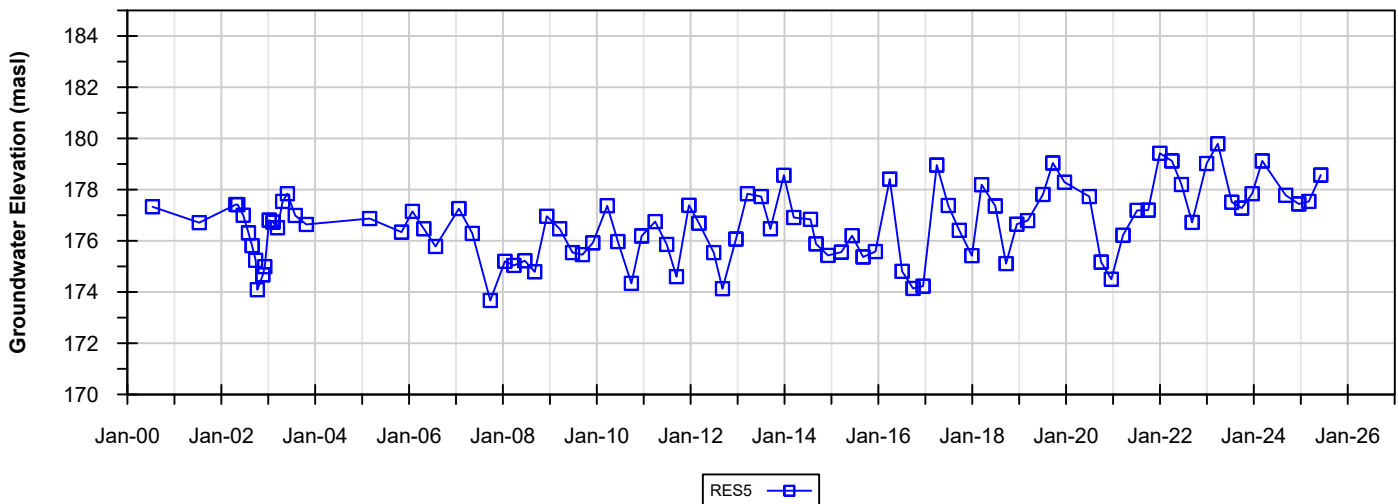


**Figure E2-49 - Groundwater Hydrograph
RES6 Water Levels**

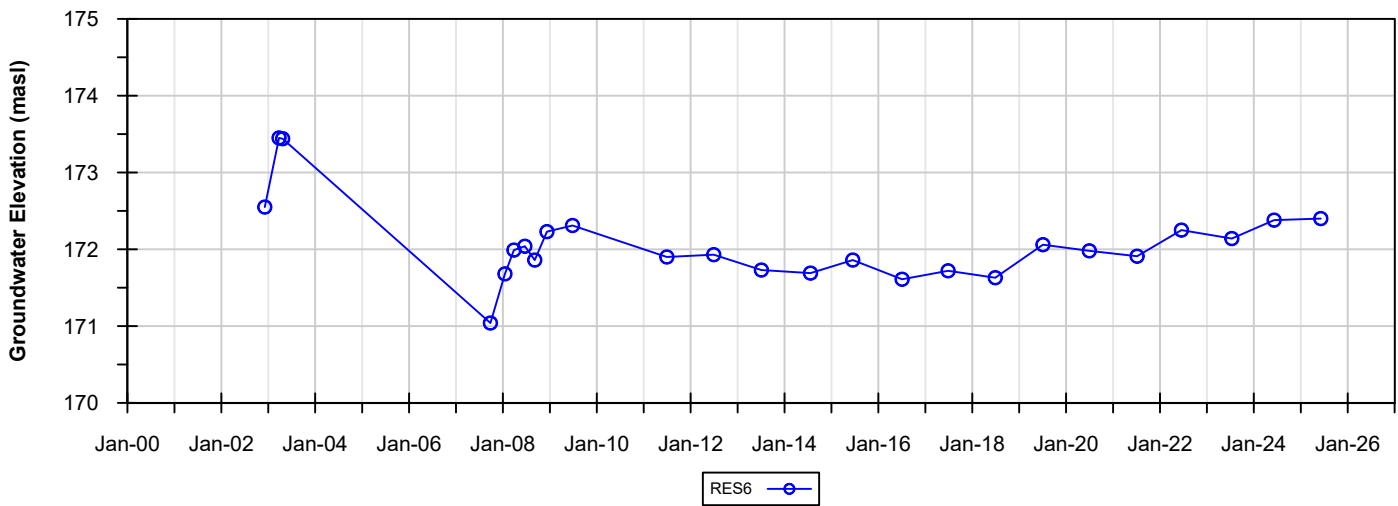


**Figure E2-50 - Groundwater Hydrograph
RES7 Water Levels**

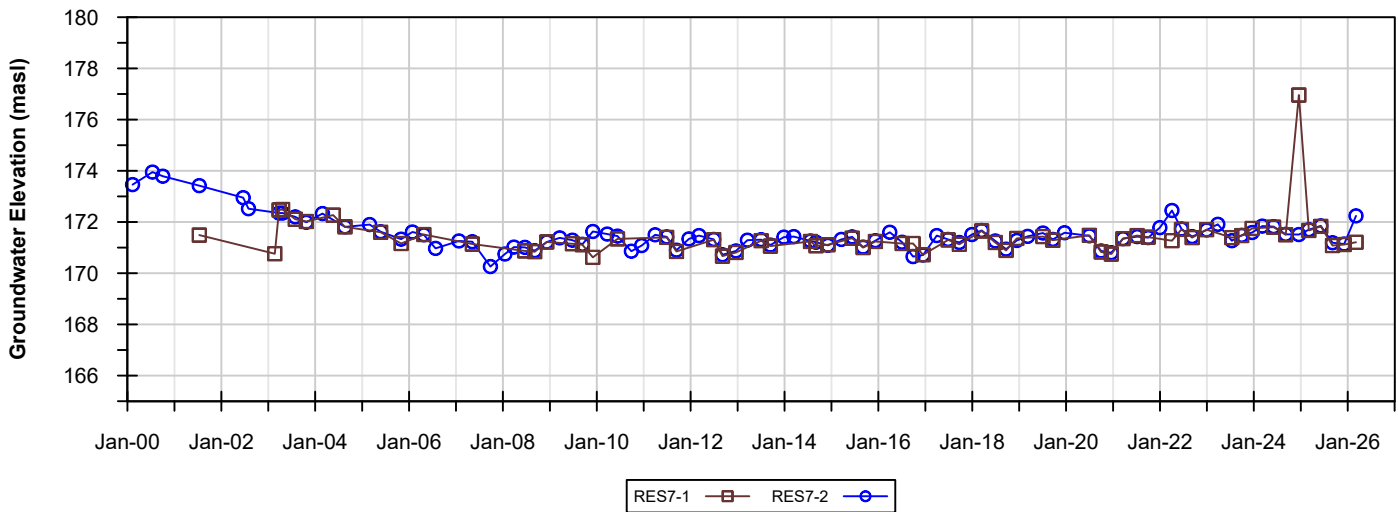


**Figure E2-51 - Groundwater Hydrograph
RES8 Water Levels**

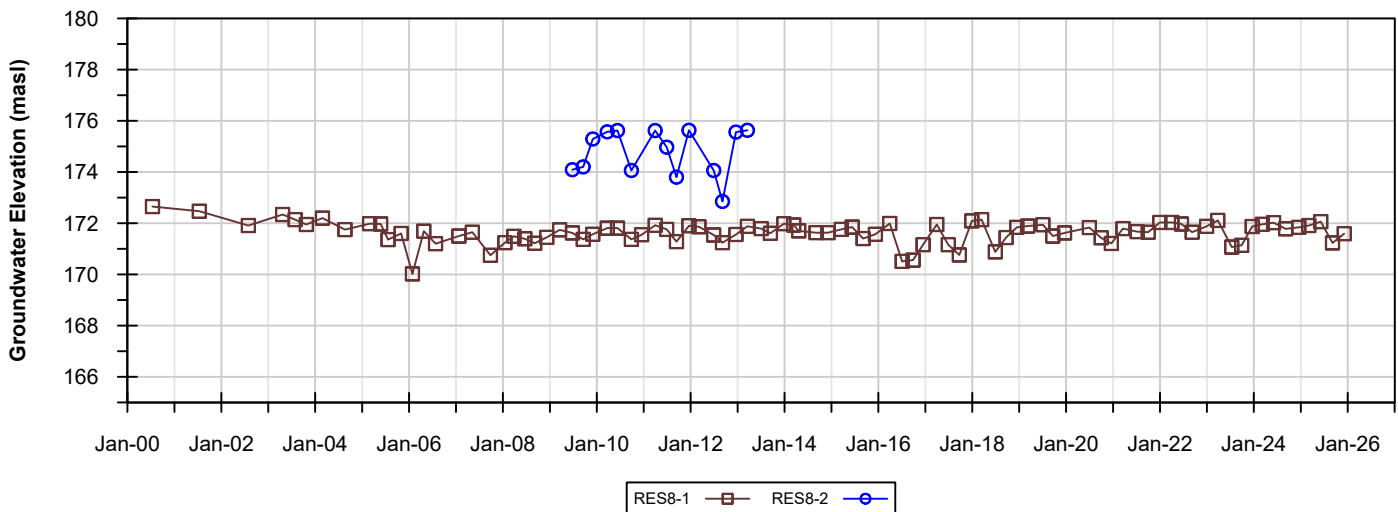


**Figure E2-52 - Groundwater Hydrograph
RES9 Water Levels**

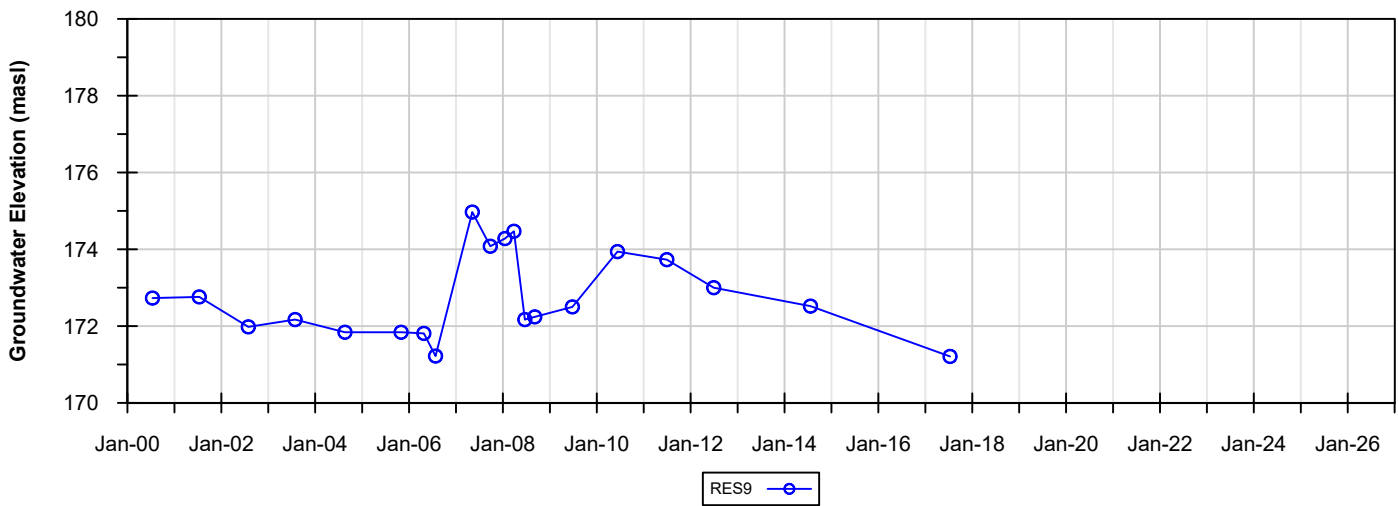


**Figure E2-53 - Groundwater Hydrograph
RES11 Water Levels**

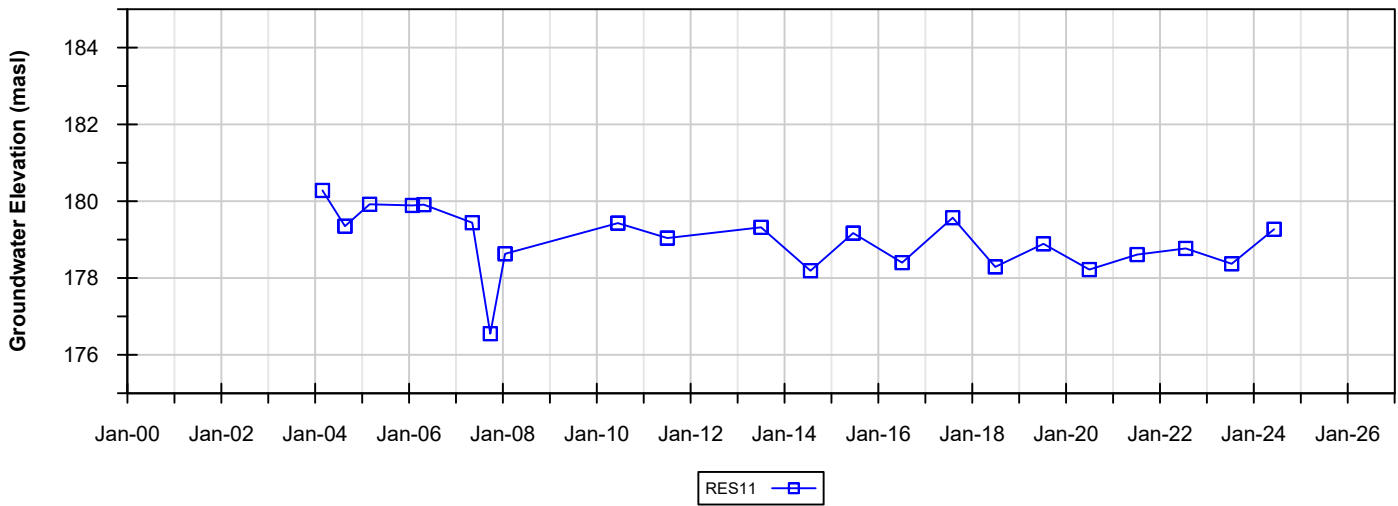


**Figure E2-54 - Groundwater Hydrograph
RES13 Water Levels**

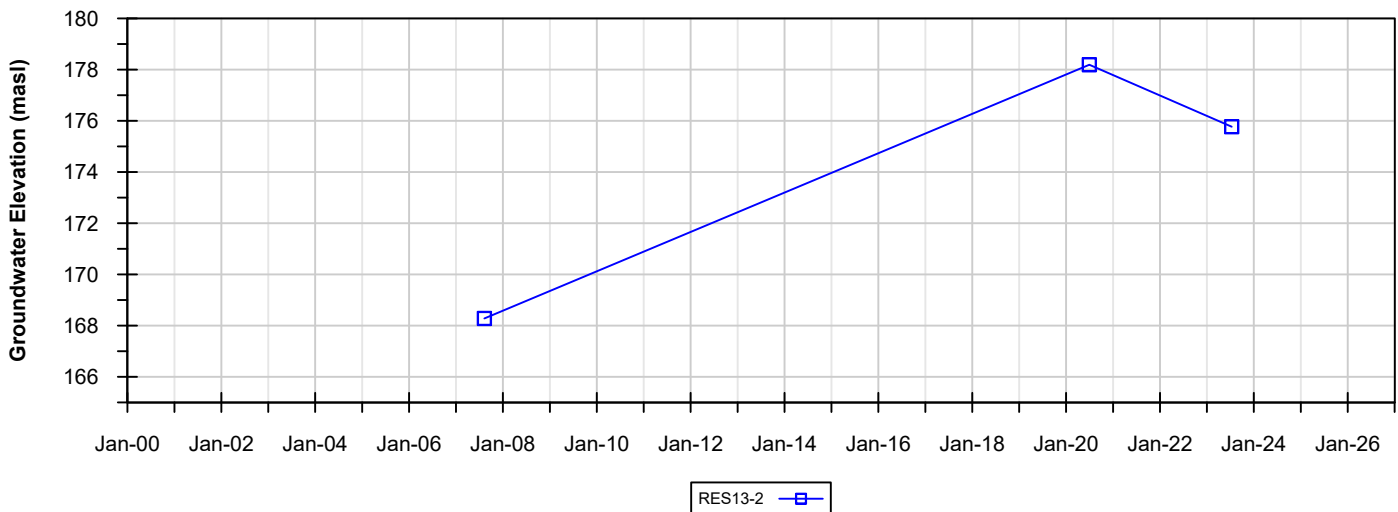


**Figure E2-55 - Groundwater Hydrograph
RES14 Water Levels**

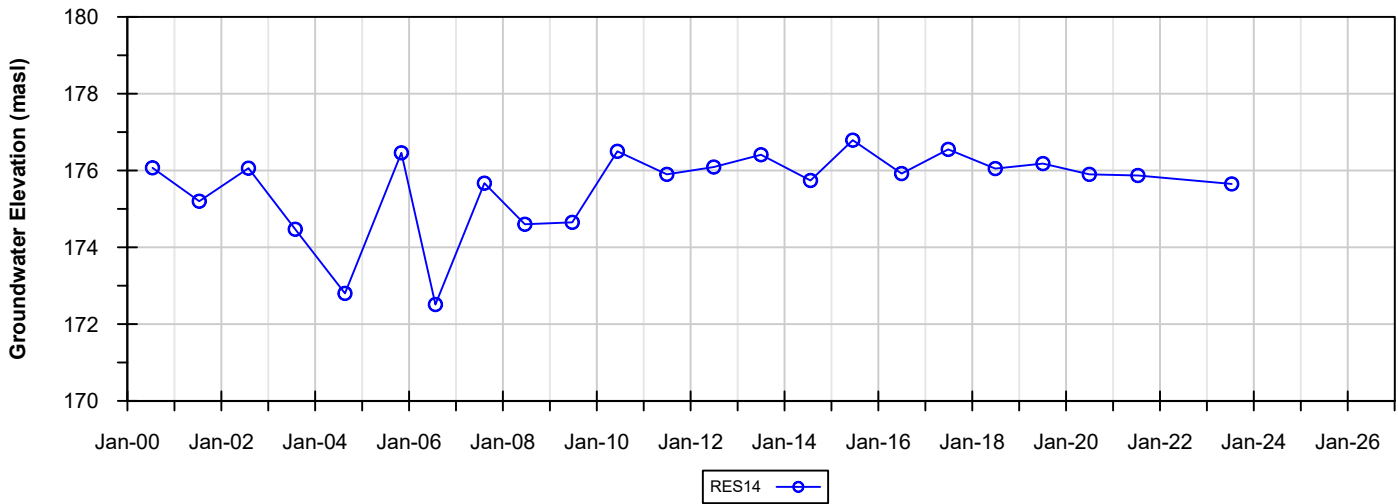


**Figure E2-56 - Groundwater Hydrograph
RES17 Water Levels**

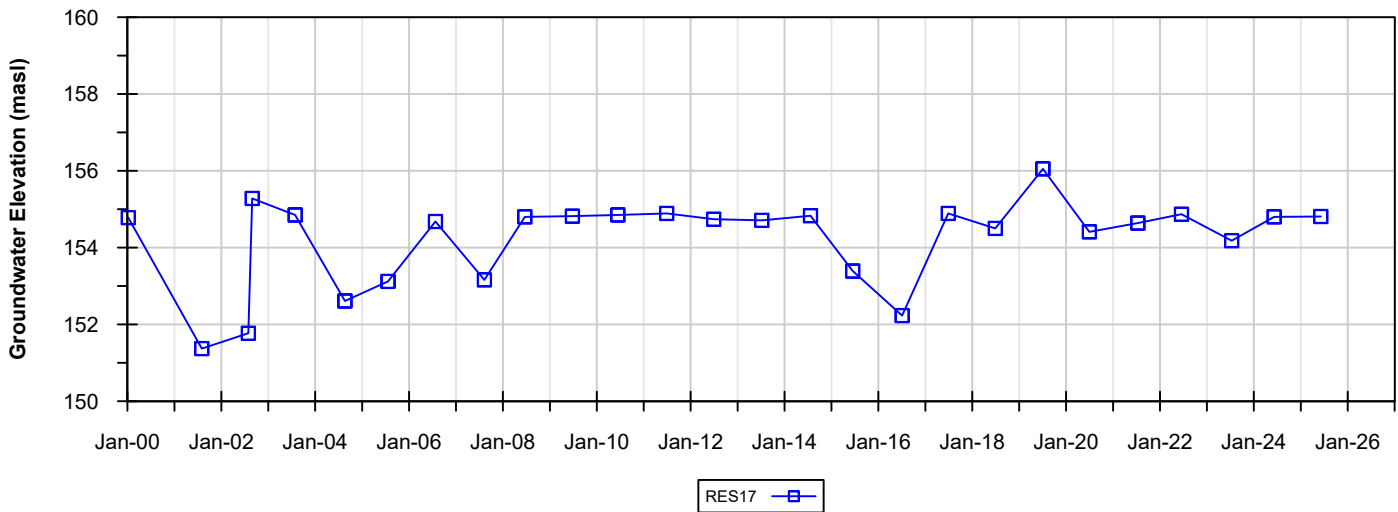


**Figure E2-57 - Groundwater Hydrograph
RES19 Water Levels**

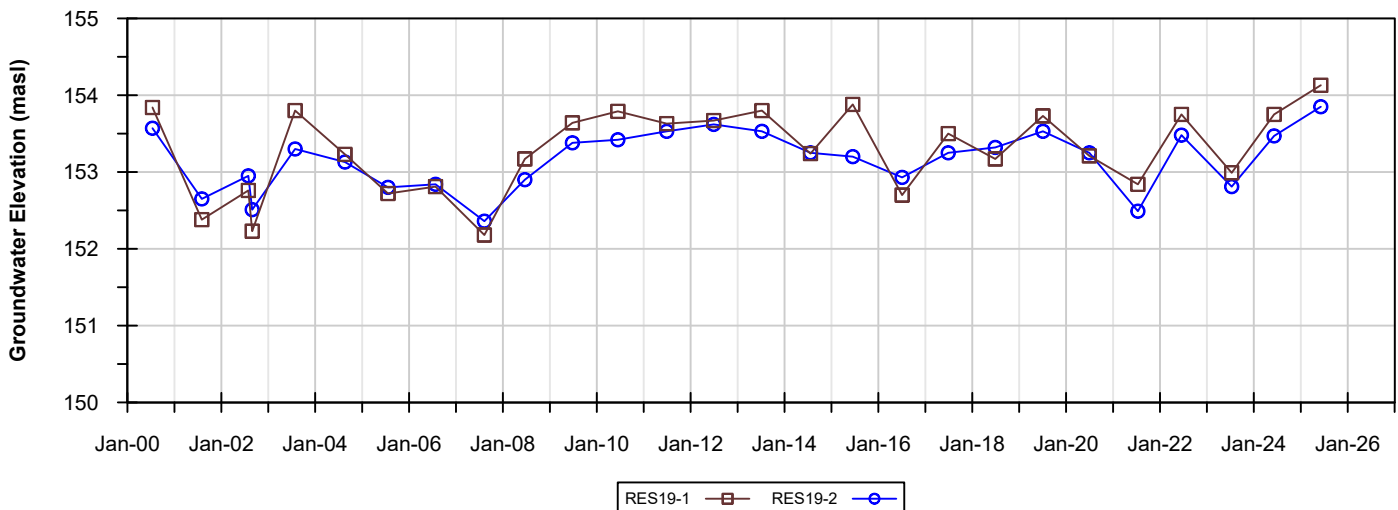


**Figure E2-58 - Groundwater Hydrograph
RES21 Water Levels**

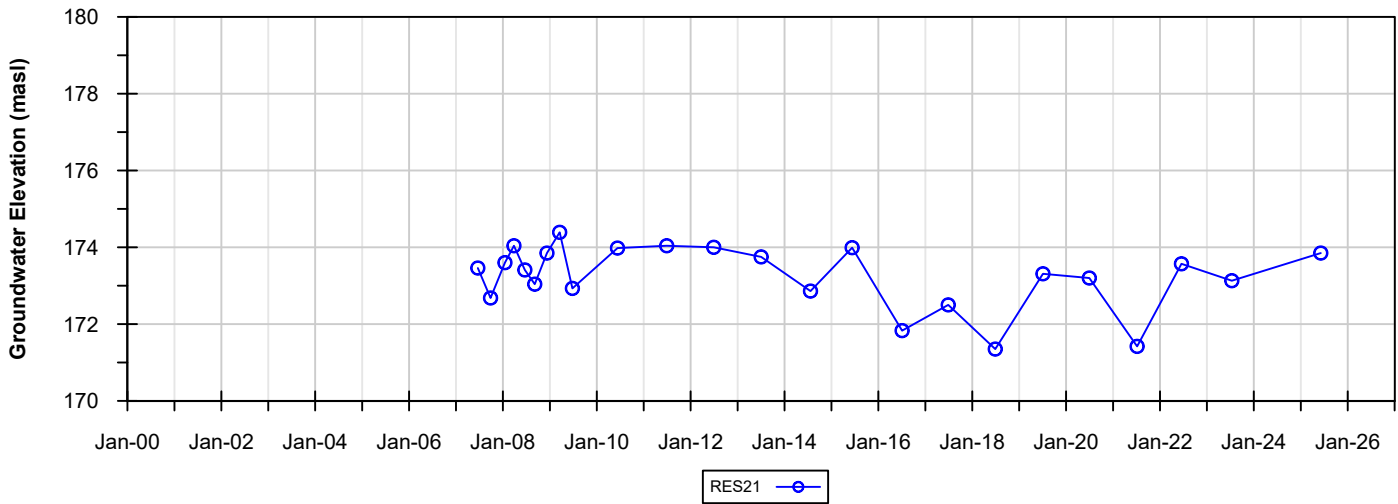


**Figure E2-59 - Groundwater Hydrograph
RES22 Water Levels**

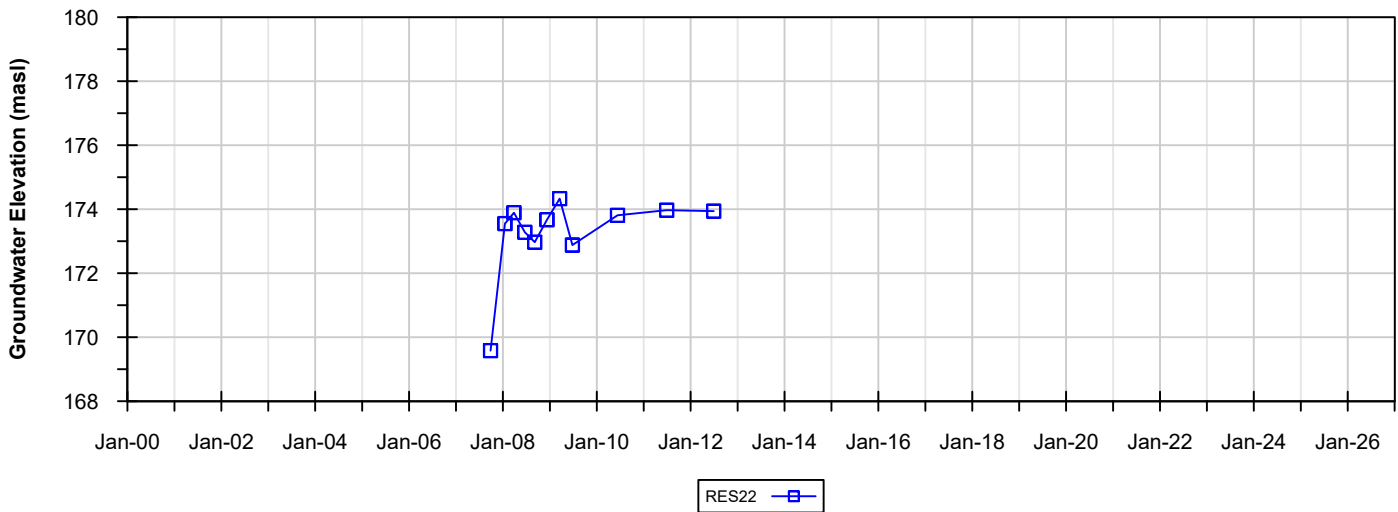


**Figure E2-60 - Groundwater Hydrograph (Pressure Transducer)
RES13-2 Water Levels**

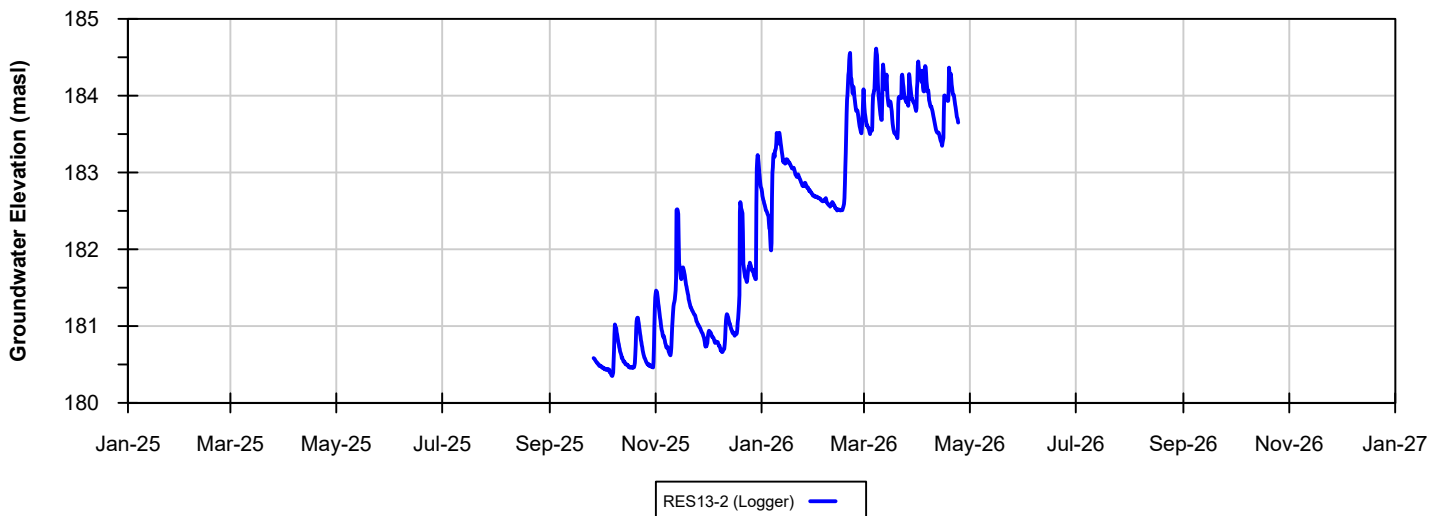


**Figure E2-61 - Groundwater Hydrograph (Pressure Transducer)
RES14 Water Levels**

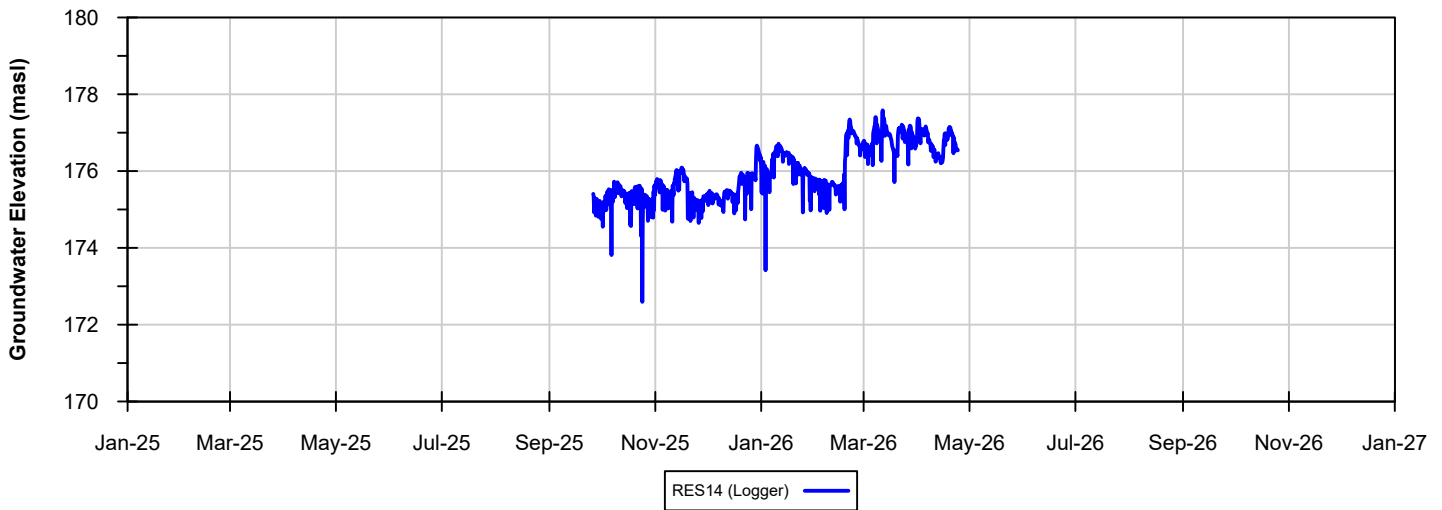


**Figure E2-62 - Groundwater Hydrograph (Pressure Transducer)
Thorold Works Yard Water Levels**

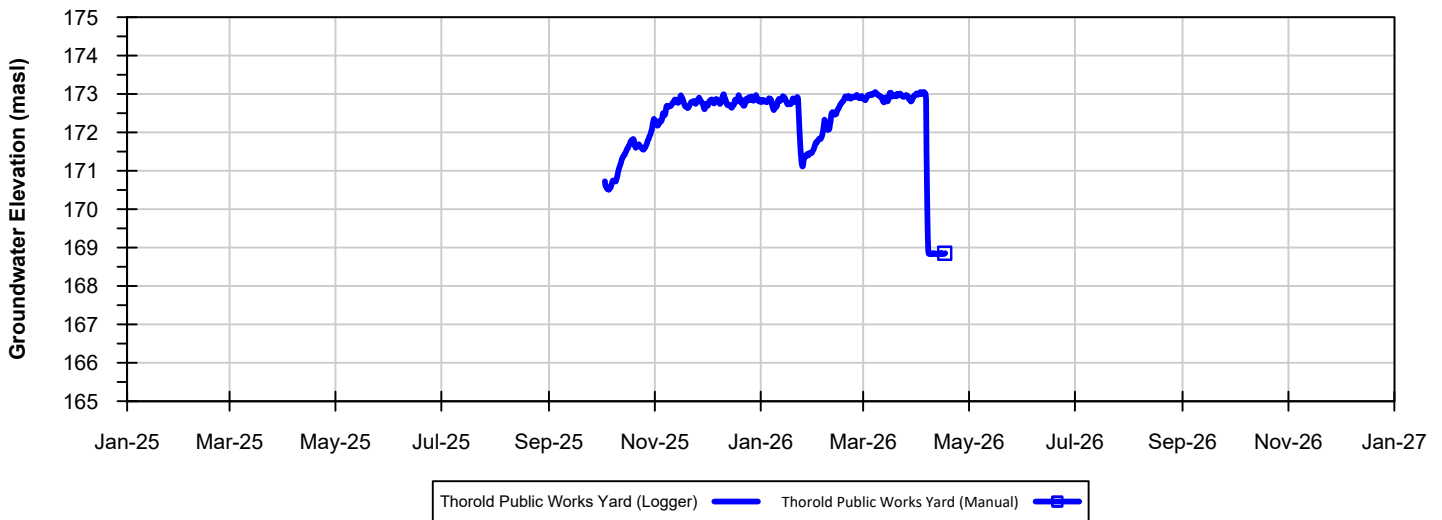


Table E-1 - Groundwater Elevations - Monitoring Wells

Date	3-1	3-2	3-4	3-5	4-1	4-2	4-4	7-1	7-1R	7-2	7-3	7-3R	14-1	14-1R	14-2
Top of Pipe	180.85	180.72	180.83	181.24	181.07	180.99	181.06	184.91	184.43	184.51	184.83	184.56	182.0	182.23	182.28
2009-01-12	169.86	171.28	176.07	179.43	169.46	169.93	173.95		167.71	172.49		173.15			
2009-02-13	170.17	171.33	175.20	179.63	169.80	170.29	174.41		167.73	172.57		173.13			
2009-03-05	169.83	171.30	174.93	179.60	169.47	169.91	173.97		167.78	172.59		173.14			167.00
2009-04-23	170.39	171.58	174.81	179.51	169.99	165.64	175.04		168.08	172.51		173.17	162.79		166.97
2009-05-22	170.34	171.61	174.61	179.24	169.73	170.41	174.81		168.13	172.50		173.17			
2009-06-03	170.18	171.58	171.58	179.09	169.61	170.25	174.73		168.12	172.49		173.17	162.76		166.99
2009-07-16	169.80	171.04	174.72	178.98	169.25	169.76	174.15		167.66	172.46		173.17			
2009-08-12	169.93	171.22	175.45	179.11	169.38	170.12	174.51		167.83	172.48		173.17	162.74		166.97
2009-09-16	171.60	170.84	174.50	178.37	168.13	168.55	174.08		167.70	172.49		173.16	162.07		166.94
2009-10-13	167.76	170.58	175.10	177.51	167.54	167.91	173.71		166.84	172.48		173.13			
2009-11-12	167.72	170.60	175.36	178.20	167.48	167.80	173.86		166.52	172.48		173.12			
2009-12-02	167.75	170.67	175.45	178.41	167.53	167.89	174.04		166.39	172.48		173.13	162.70		166.89
2010-01-18	169.41	171.14	174.91	179.29	169.03	169.52	174.35		166.84	172.46		173.12			
2010-02-04	169.36	171.10	174.88	179.24	168.92	169.35	174.54		166.94	172.46		173.13			
2010-03-04	169.58	171.24	174.70	179.57	169.19	169.60	174.54		167.21	172.49		173.13	177.96		166.87
2010-04-05	170.34	171.42	174.89	179.46	169.82	170.45	175.33		167.52	172.51		173.16	178.21		166.85
2010-05-05	169.78	171.46	175.09	179.22	169.30	169.82	174.91		167.61	172.52		173.17			
2010-06-01	169.56	171.15	174.94	178.93	169.09	169.61	174.62		167.55	172.50		173.16	175.92		166.86
2010-07-07	169.41	171.06	175.18	178.63	168.91	169.39	174.27		167.54	172.48		173.54			
2010-08-08	169.14	170.89	175.43	177.42	168.60	169.06	173.92		167.52	172.52		173.19	162.70		166.81
2010-09-09	169.29	170.70	175.39	176.87	168.14	168.57	173.82		167.11	172.52		173.16	158.41		166.81
2010-10-20	168.78	170.73	175.14	176.50	168.26	168.71	173.44		167.21	172.53		173.14			
2010-11-09	169.01	170.69	175.31	176.90	168.27	168.68	173.61		167.21	172.53		173.13			
2010-12-07	169.12	170.87	176.33	178.54	168.60	169.11	174.70		167.22	172.54		173.13	162.70		166.74
2011-01-20	169.23	171.10	175.76	178.44	168.79	169.31	174.07		167.27	172.54		173.13			
2011-02-03	169.38	171.05	175.56	178.13	168.64	169.07	174.02		167.26	172.54		173.14			
2011-02-16															
2011-03-04	169.72	171.26	176.05	179.45	169.30	169.75	174.97		167.27	172.52		176.31			166.82
2011-04-21	170.65	171.60	175.89	179.63	170.02	170.63	175.56		167.66	172.59		173.20	175.11		167.20
2011-05-04	170.36	171.62	175.01	179.64	169.87	170.45	175.39		167.70	172.60		173.19			
2011-06-06	170.59	171.64	175.00	179.39	170.00	170.65	175.87		167.86	172.64		173.20	162.85		167.20
2011-06-07															
2011-07-04	170.02	171.43	174.88	178.33	169.44	169.98	175.93		167.92	172.66		173.19			
2011-08-11	169.74	171.14	175.46	177.10	169.13	169.73	174.88		167.89	172.65		173.18	162.79		167.13
2011-09-07	169.39	170.83	175.51	176.38	168.79	169.29	173.59		167.68	172.61		173.15	162.55		167.09
2011-09-09															
2011-10-11	169.37	170.94	176.54	177.85	168.82	169.30	174.67		167.69	172.61		173.14			
2011-11-25	169.70	171.06	176.73	178.71	169.15	169.66	175.12		167.61	172.61		173.13			
2011-12-04															
2011-12-05	170.26	171.30	177.31	179.30	169.71	170.30	176.60		167.65	172.62		173.13	162.77		167.02
2012-01-25	170.21	171.65	177.50	179.78	169.75	170.26	176.83		167.69	172.64		173.19			
2012-02-01															
2012-03-01															
2012-03-02	170.15	171.41	177.53	179.50	169.66	170.22	176.78		167.72	172.67		173.19	162.82		167.05
2012-04-24	170.21	171.27	175.70	179.74					167.77	172.69		173.22			
2012-06-04	169.51	171.24	175.14	178.30	168.95	169.42	175.16		167.71	172.67		173.20	162.72		166.93
2012-06-05															
2012-08-09															
2012-08-10	169.07	170.83	174.62	176.63	168.49	168.91	173.98		167.59	172.62		173.17		162.83	166.90
2012-09-17														162.79	166.97
2012-09-28															
2012-12-06									166.79	172.59		173.10		162.80	166.81
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	3-1	3-2	3-4	3-5	4-1	4-2	4-4	7-1	7-1R	7-2	7-3	7-3R	14-1	14-1R	14-2
Top of Pipe	180.85	180.72	180.83	181.24	181.07	180.99	181.06	184.91	184.43	184.51	184.83	184.56	182.0	182.23	182.28
2013-03-08															
2013-03-12	170.89	171.62	176.58	179.46	170.28	170.92	177.17		167.82	172.79		173.18		162.91	167.23
2013-06-04															
2013-06-12	168.75	171.06	176.89	179.61	168.64	168.97	176.45		167.32	172.76		173.17		162.88	167.49
2013-08-13	168.09	170.86	177.57	178.74	167.85	168.11	176.07		166.62	172.79		173.17		162.84	167.36
2013-09-12															
2013-09-20														162.81	167.30
2013-12-03	169.18	171.12	177.51	179.13	168.76	169.16	176.40		166.47	172.84		173.15		162.86	167.18
2014-02-19															
2014-02-24															
2014-03-07	169.54	170.89	177.26	179.12	169.13	169.57	176.92		167.41	172.37		173.18		162.88	167.22
2014-03-11															
2014-06-05	169.76	171.18	176.96	178.99	169.30	169.80	176.16		167.46	172.39		173.20		162.91	167.61
2014-08-06	169.38	170.85	176.85	178.67	168.86	169.33	175.30		167.63	172.35		173.19		162.87	167.47
2014-09-03														162.87	167.42
2014-12-05	168.95	170.59	176.24	178.18	168.44	168.87	174.54		167.35	172.30		173.16		162.85	167.28
2015-02-25															
2015-02-26															
2015-03-19	167.34	170.40	176.01	177.35	167.16		173.58		166.54	172.29		173.17		162.88	167.18
2015-06-05	167.67	170.65	176.29	178.78	167.59	167.86	175.52		166.04	172.23		173.20		162.89	167.09
2015-08-04	167.48	170.41	175.56	177.18	167.30	167.54	174.51		166.00	172.24		173.18		162.88	167.05
2015-09-04														162.86	167.04
2015-12-04	167.87	170.52	175.80	177.67	167.52	167.78	174.10		166.02	172.27		173.14		162.86	167.00
2016-01-21												173.15			
2016-02-09															
2016-02-22												173.20			
2016-02-23															
2016-02-29															
2016-03-04	169.46	170.71	177.04	179.06	169.06	169.56	176.61		166.90	172.29		173.22		162.93	166.95
2016-06-03	168.93	170.68	176.19	177.84	168.46	168.88	175.60		167.32	172.36		173.21		162.95	167.11
2016-08-09	168.50	170.48	175.07	176.23	168.03	168.40	173.76		167.28	172.31		173.19		162.92	
2016-09-07														162.91	167.07
2016-12-14	168.50	170.23	175.68	177.18	168.15	168.64	173.74		167.19	172.22		173.15		162.90	167.02
2017-03-01	169.10	170.73	177.15	179.02	168.71	169.25	176.23		167.19	172.36		173.19		162.97	167.00
2017-06-01	169.51	170.94	176.89	178.35	168.88	169.36	176.20		167.55	172.50		173.21		163.01	167.46
2017-08-03	169.11	170.77	177.19	178.78	168.62	169.08	175.43		167.60	172.45		173.25		162.98	167.38
2017-09-07														162.99	167.33
2017-12-12	169.26	170.81	177.49	178.40	168.67	169.10	175.31		167.52	172.34		173.24		162.98	167.16
2018-03-06	169.86	171.21	177.62	179.27	170.02	169.35	176.86		167.55	172.41		173.25		163.05	167.48
2018-06-05	169.38	170.97	176.31	177.88	168.79	169.30	175.55		167.74	172.53		173.25		163.05	167.90
2018-08-08	169.11	170.77	175.79	177.10	168.50	168.95	174.15		167.69	172.44		173.24		163.00	167.70
2018-09-07														162.98	167.66
2018-12-07	168.02	170.47	176.88	178.63	167.71	168.39	175.56		166.80	172.43		173.16		162.95	167.40
2019-03-05	168.71	170.63	177.63	179.12	168.11		175.84		166.43	172.55		173.25		163.05	167.29
2019-06-11	169.66	171.26	177.91	178.87	169.06	169.70	175.45		167.25	172.67		173.26		164.15	167.80
2019-08-09	169.28	170.81	176.48	178.13	168.73	169.17	174.79		167.55	172.70		173.24		163.05	167.68
2019-09-13														163.02	167.58
2019-12-03	169.16	170.75	177.73	179.07	168.77	166.20	176.08		167.44	172.70		173.25		163.05	167.44
2019-12-05															
2020-03-02	169.82	171.27	177.89	179.14	169.35	169.84	177.02		167.60	172.84		173.25		163.12	167.77
2020-06-05	169.66	171.26	177.70	178.88	169.18	169.58	176.43		167.65	172.89		173.23		163.13	167.57
2020-06-08															
2020-08-05	169.22	170.83	176.62	177.15	168.63	169.09	174.48		167.63	172.87		173.24		163.07	167.47

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	3-1	3-2	3-4	3-5	4-1	4-2	4-4	7-1	7-1R	7-2	7-3	7-3R	14-1	14-1R	14-2
Top of Pipe	180.85	180.72	180.83	181.24	181.07	180.99	181.06	184.91	184.43	184.51	184.83	184.56	182.0	182.23	182.28
2020-09-08														163.05	167.42
2020-12-16	168.95	170.60	177.06	177.85	168.42	168.77	173.63		167.34	172.73		173.16		163.05	167.29
2020-12-18															
2021-03-08															
2021-03-09	169.43	170.83	178.12	178.75	168.99	169.39	175.65		167.34	172.75		173.15		163.08	167.16
2021-06-15	169.12	170.75	177.10	177.74	168.63	169.03	175.27		167.43	172.77		173.16		163.12	167.11
2021-08-10	169.14	170.91	176.38	177.49	168.63	169.03	174.73		167.48	172.79		173.16		163.10	167.07
2021-09-10														163.17	167.05
2021-12-10	170.32	171.01	177.47	178.99	169.25	169.64	176.59		167.70	172.88		173.24		163.17	167.05
2022-03-01	169.59	171.19	178.07	179.16	169.25	169.73	177.32		167.76	172.95		173.24		163.19	168.91
2022-03-23															
2022-06-01	168.83	170.84	177.53	178.80	168.41	168.84	176.43		166.85	173.09		173.26		163.19	169.59
2022-06-03															
2022-08-08	169.16	170.84	177.72	179.20	168.55	169.06	175.65		167.29	173.06		173.26		163.11	169.07
2022-09-01														163.15	168.94
2022-09-02															
2022-12-06	169.14	170.88	177.46	179.20	168.67	169.06	175.74		167.57	173.08		173.18		163.15	168.37
2022-12-09															
2023-03-01	169.76	171.25	178.15	179.33	169.51	169.94	177.26		167.71	173.23		173.29		163.19	168.36
2023-06-08	169.21	171.06	177.98	179.24	168.68	169.11	176.12		167.83	173.31		173.28		163.19	168.44
2023-08-14	169.27	171.07	177.92	179.19	168.65	169.03	175.92		167.82	173.30		173.35		163.20	168.17
2023-09-18														163.21	168.08
2023-09-20															
2023-12-19	168.76	170.88	178.27	179.25	167.90	168.65	174.46		167.66	173.23		173.25		163.18	167.82
2024-01-23												173.29			
2024-02-08												173.34			
2024-03-01															
2024-03-04												173.31			
2024-03-07	168.08	170.76		179.26	171.07	168.26	176.55		166.86	173.30		173.31		163.21	167.95
2024-04-02												173.29			
2024-06-04	169.01	171.21	178.21	179.22	168.49	168.85	176.67		167.49	173.32		173.30		163.18	168.29
2024-06-05															
2024-08-14	168.98	170.40		178.87	166.60	168.71	175.75		167.67	173.37		173.36		163.21	168.04
2024-09-04														163.19	167.96
2024-12-16	168.41	170.02		179.30	168.02	168.26	174.87		167.30	173.27		173.30		163.18	167.69
2025-01-15												173.28			
2025-02-18												173.28			
2025-02-20															
2025-03-03															
2025-03-05												173.28			
2025-03-10	169.88	170.62		179.50	167.85	169.78	176.73		167.53	173.25					
2025-03-11														163.22	167.73
2025-03-25															
2025-04-15												173.37			
2025-06-04	169.34	170.56		179.25	167.38	168.90	177.26		167.71	173.37		173.41		163.27	168.87
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25															
2025-08-05	168.62	170.04		178.79	166.04	168.32	174.88		167.66	173.34		173.31		162.28	168.05
2025-09-02														163.21	

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	3-1	3-2	3-4	3-5	4-1	4-2	4-4	7-1	7-1R	7-2	7-3	7-3R	14-1	14-1R	14-2
Top of Pipe	180.85	180.72	180.83	181.24	181.07	180.99	181.06	184.91	184.43	184.51	184.83	184.56	182.0	182.23	182.28
2025-09-03															168.01
2025-09-04															
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01												173.27			
2025-12-04	168.24	170.18		179.14	166.04	167.84	173.38							163.17	167.76
2025-12-05									167.46	173.25					
2026-01-23												173.30			
2026-02-24															
2026-02-25												173.29			
2026-02-26															
2026-03-03	169.78	170.62		178.65	166.83	169.66									
2026-03-04							174.57		172.39			173.37		163.25	167.58
2026-03-05										172.81					
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	14-3	14-4	14-5	15-1	15-1R	15-2	15-3	15-4	15-5	16-1	16-2	16-3	16-4	17-1	17-1R
Top of Pipe	182.29	181.99	182.04	175.93	176.567	175.8	175.81	175.93	176.1	177.6	177.64	177.66	177.6	182.05	182.68
2009-01-12															
2009-02-13															
2009-03-05	179.04	180.81		155.93				170.34	158.50	159.67		167.50	171.41	162.98	
2009-04-23	178.22	180.81	168.30												
2009-05-22															
2009-06-03	177.85		168.34	156.40		161.84	165.42	166.82	159.08	159.53		167.61	171.43	160.01	
2009-07-16															
2009-08-12	177.88	180.81	168.33												
2009-09-16	177.56	180.83	168.33	156.10		161.98	165.86	170.75	158.37	159.58		167.63	171.44	161.48	
2009-10-13															
2009-11-12															
2009-12-02	177.91		168.33	156.48		161.95	165.55	169.81	158.28	159.59		167.64	171.45	159.88	
2010-01-18															
2010-02-04															
2010-03-04	178.51	180.80	168.34	157.06		161.88	165.52	169.79	158.44	160.01		167.64	171.45	160.29	
2010-04-05	178.59	180.82	168.33												
2010-05-05															
2010-06-01	177.83		168.34	157.13		162.05	165.66	169.82	158.52	160.05		167.63		161.25	
2010-07-07															
2010-08-08	177.31	180.80													
2010-09-09	177.24	180.84	167.30	158.26		161.91	165.81	169.78	158.02	160.06		167.58		160.30	
2010-10-20															
2010-11-09															
2010-12-07	177.85		168.29	164.40		161.98	165.93	169.80	158.81	160.19	163.99	167.60	171.36	160.08	
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04	178.76		168.34	156.66		161.97	165.46	169.58	158.96	160.29	164.14	167.64	171.44		
2011-04-21	179.09	180.84	168.35												
2011-05-04															
2011-06-06	178.56	180.82	168.33	157.15		162.17	165.73	169.56	158.87	160.23	164.25	167.64	171.43	161.13	
2011-06-07															
2011-07-04															
2011-08-11	176.76	180.89	168.36												
2011-09-07	176.12	180.81	168.37	156.30		162.08	165.89	169.58	158.58	160.25	164.15	167.64	171.45	160.57	
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05	177.81		168.35	156.72		162.10	166.47	169.56	158.70	160.40		167.64	171.43	161.36	
2012-01-25															
2012-02-01															
2012-03-01															
2012-03-02	178.62		168.33	156.79		161.91	166.40	169.79	158.84	160.39		167.62	171.42		
2012-04-24															
2012-06-04	177.38		168.23	156.89		161.92	166.72	169.56	158.59	160.18	164.06	167.52	171.33	160.05	
2012-06-05															
2012-08-09															
2012-08-10	175.86		168.24												
2012-09-17				157.29		161.91	166.34	169.84	158.76	160.07	164.05	167.53	171.33		161.28
2012-09-28															
2012-12-06	177.28		168.23	157.49		161.76	165.30	169.55	158.54	160.27	164.04	167.52	171.32		160.46
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	14-3	14-4	14-5	15-1	15-1R	15-2	15-3	15-4	15-5	16-1	16-2	16-3	16-4	17-1	17-1R
Top of Pipe	182.29	181.99	182.04	175.93	176.567	175.8	175.81	175.93	176.1	177.6	177.64	177.66	177.6	182.05	182.68
2013-03-08															
2013-03-12	173.52		168.33	158.21		162.14	165.68	169.79	159.12	160.47		167.63	171.46		
2013-06-04															
2013-06-12	172.74		168.33	157.91		162.13	165.56	169.79	158.92	161.07	164.19	167.67	171.62		161.89
2013-08-13	172.70		168.33												
2013-09-12															
2013-09-20				157.40		161.96	165.48	169.81	158.84	160.34		167.62	171.43		160.83
2013-12-03	173.22		168.33	157.66		162.05	165.57	170.95	159.07	160.72		167.65	171.43		161.03
2014-02-19															
2014-02-24															
2014-03-07	173.26		168.13	157.57			164.14	169.41	158.67	161.00		167.61	171.89		161.51
2014-03-11															
2014-06-05	173.37		168.14	158.04		161.53	165.25	169.41	158.70	160.70	164.25	167.62	171.83		161.44
2014-08-06	172.88		168.09												
2014-09-03				156.78		161.63	165.39	169.41	158.38	160.31		167.57	171.60		160.43
2014-12-05	173.01		168.14	156.69		161.72	165.70	171.33	158.42	160.33		167.63	171.56		161.08
2015-02-25															
2015-02-26															
2015-03-19	173.00		168.12	156.70		161.71	166.06	169.41	158.39	160.32		167.58			160.32
2015-06-05	176.26		168.15	157.01		161.82	165.40	169.43	158.46	160.57	164.29	167.62	172.88		161.61
2015-08-04	172.72		168.14												
2015-09-04				156.57		161.84	165.44	169.41	158.39	160.40		167.60	171.53		160.43
2015-12-04	172.67		168.14	158.16	158.48	161.61	165.72	169.41	158.54	160.35		167.63	171.56		160.38
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04	173.38		168.12	158.30	158.39	161.73	164.74	169.41	158.57	160.67		167.65	171.60		161.65
2016-06-03	173.27		168.12	158.35	158.04	161.92	165.08	169.90	158.16	161.50	164.34	167.61	171.56		160.18
2016-08-09	172.18														
2016-09-07				158.32	158.31	161.90	165.06	171.19	158.39	160.07		167.61	171.59		160.43
2016-12-14	172.56		168.15	158.40	158.26	161.92	165.23	169.41	158.44	160.18		167.63	171.55		160.63
2017-03-01	173.75		168.12	158.54	158.67	161.41	165.43	169.40	158.78	160.59		167.68	171.54		161.70
2017-06-01	173.67		168.12	158.76	158.80	161.36	165.30	169.41	158.83	161.08	164.40	167.67	171.55		161.04
2017-08-03	174.09		168.10												
2017-09-07				158.66	158.51	161.37	165.01	169.42	158.69	160.74		167.69	171.57		160.79
2017-12-12	173.31		168.10	158.44	158.44	161.44	164.72	169.40	158.70	160.57		167.65	171.78		160.67
2018-03-06	173.48		168.09	158.82	158.76		165.27	169.42	158.95	160.72		167.64	171.85		161.95
2018-06-05	172.88		168.14	158.85	158.56		165.03	169.42	158.81	160.50	164.47	167.64	172.01		160.85
2018-08-08	172.59		167.93												
2018-09-07				158.50	159.57	161.43	165.04	169.42	158.61	160.11		167.61	171.54		160.64
2018-12-07	172.99		168.11	158.70	158.57	161.56	165.02	169.48	158.89	160.49		167.68	171.57		161.07
2019-03-05	173.52		168.12	159.05	158.68	161.63	165.21	169.45	158.93	160.47		167.67	171.54		161.53
2019-06-11	173.69		168.14	159.38	158.84	161.69	165.25	169.43	159.00	160.64	164.48	167.66	171.76		161.30
2019-08-09	172.89		168.13												
2019-09-13				158.60	158.58	162.00	165.28	169.67	158.81	160.45		167.68	171.80		160.93
2019-12-03	173.54		168.12	158.68	158.67	162.10	165.05	169.67	158.93	160.47		167.68	172.00		161.23
2019-12-05															
2020-03-02	173.80		168.05	158.98	158.77	162.29	165.26	169.67	158.98	160.69		167.65	173.21		161.40
2020-06-05	173.35		168.13	158.99	158.73	162.08	165.00	169.67	158.86	160.53	164.53	167.63	173.20		161.32
2020-06-08															
2020-08-05	173.25		168.04												

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	14-3	14-4	14-5	15-1	15-1R	15-2	15-3	15-4	15-5	16-1	16-2	16-3	16-4	17-1	17-1R
Top of Pipe	182.29	181.99	182.04	175.93	176.567	175.8	175.81	175.93	176.1	177.6	177.64	177.66	177.6	182.05	182.68
2020-09-08				158.61	158.47	162.43	164.95	169.67	158.61	160.26		167.61	171.54		160.27
2020-12-16	172.58		169.51	158.70	158.61	162.36	165.35	169.67	158.84	160.26		167.68	171.55		161.02
2020-12-18															
2021-03-08															
2021-03-09	173.02		168.10	158.62	158.70	162.24	165.48	169.68	158.94	160.32		167.64	171.90		160.82
2021-06-15	173.41		168.03	158.79	158.71	162.26	165.51	169.67	158.85	160.32	164.52	167.65	171.55		160.67
2021-08-10	172.95		168.11												
2021-09-10				158.79	158.69	162.46	165.31	169.54	158.95	160.38		167.64	171.55		160.70
2021-12-10	173.44		168.14	158.79	158.69	162.46	165.31	169.54	158.95	160.38		167.64	171.55		160.70
2022-03-01	173.88		168.13	159.43	158.87	169.59	164.84	169.45	159.11	160.41		167.64	171.55		161.56
2022-03-23															
2022-06-01	173.56		168.13	159.36	158.76	171.98	164.87	169.43	158.90	160.38	164.64	167.64	171.54		160.46
2022-06-03															
2022-08-08	173.31														
2022-09-01				158.60	158.60	169.49	165.25	169.68	158.76	160.15		167.61	171.55		160.09
2022-09-02															
2022-12-06	173.12		168.12	159.27	159.38	174.37	164.56	169.44	158.94	160.32		167.32	171.54		160.85
2022-12-09															
2023-03-01	173.39		168.11	159.47	158.90	171.69	164.93	169.45	159.13	160.48		167.57	171.59		160.72
2023-06-08	173.18			159.23	158.62	170.96	165.20	169.57	158.76	160.40	164.60	167.60	171.55		160.00
2023-08-14	173.21														
2023-09-18				159.22	158.58	172.44	166.11	169.53	158.52	160.35		164.63	171.55		160.02
2023-09-20															
2023-12-19	172.88		167.68	159.23	158.54	171.88	165.90	169.70	158.77	160.38		167.37	171.58		159.82
2024-01-23															
2024-02-08															
2024-03-01								169.66							
2024-03-04															
2024-03-07			168.12	159.31	158.70	172.98	166.04		161.95	160.33		167.61			160.11
2024-04-02															
2024-06-04	175.84		168.14	159.21	158.70	172.40	165.58	169.67	158.89	160.42	164.08	167.64	171.45		160.01
2024-06-05															
2024-08-14			168.12												
2024-09-04				158.82	158.36	173.64			158.51	177.56		167.63			160.14
2024-12-16			169.50	159.17	158.58	173.39	166.17		158.77	160.16		167.37			159.94
2025-01-15															
2025-02-18															
2025-02-20								169.53							
2025-03-03															
2025-03-05															
2025-03-10				157.44	158.90	171.37	166.61		159.10	160.97		167.20			
2025-03-11			168.10												160.65
2025-03-25															
2025-04-15															
2025-06-04				157.18	158.80	170.41	166.17		159.16	158.61					160.70
2025-06-11															
2025-06-19											175.27	167.14			
2025-06-20			168.10												
2025-06-23															
2025-06-24															
2025-06-25								169.42							
2025-08-05			169.48												
2025-09-02					158.52				158.71						159.81

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	14-3	14-4	14-5	15-1	15-1R	15-2	15-3	15-4	15-5	16-1	16-2	16-3	16-4	17-1	17-1R
Top of Pipe	182.29	181.99	182.04	175.93	176.567	175.8	175.81	175.93	176.1	177.6	177.64	177.66	177.6	182.05	182.68
2025-09-03				158.47		169.31	166.23			159.98					
2025-09-04															
2025-09-10												171.89			
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04			168.10	156.68	158.66	174.49	165.67		158.80						
2025-12-05										158.71		167.22			159.76
2026-01-23															
2026-02-24															
2026-02-25								169.53							
2026-02-26															
2026-03-03				157.25	158.70	174.59	164.89		159.06						
2026-03-04			168.14							159.04		167.17			160.04
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	17-2	17-3	17-4	17-5	18-1	18-2	18-3	18-4	19-1	19-1R	19-1R2	19-2	19-2R	19-3	19-3R
Top of Pipe	182.3	182.27	182.05	182.27	182.82	182.73	182.68	182.82	184.82	184.56	184.5	184.7	184.46	184.7	184.59
2009-01-12															
2009-02-13															
2009-03-05	169.90	175.28	180.75	169.92	162.24	170.65	170.82	177.30		162.06			169.16		169.79
2009-04-23															
2009-05-22															
2009-06-03	169.91	174.95	178.52	169.97	168.78	170.50	171.11			162.78			168.65		169.72
2009-07-16															
2009-08-12															
2009-09-16	169.88	174.40	178.31	169.88	163.18	170.34	170.52	176.35		158.20			167.42		169.85
2009-10-13															
2009-11-12															
2009-12-02	169.84	174.77		169.96	157.54	169.75	169.79			159.71			166.95		169.72
2010-01-18															
2010-02-04															
2010-03-04	169.77	175.01	178.90	169.79	156.24	169.96	170.08	176.32		162.25			168.33		172.47
2010-04-05															
2010-05-05															
2010-06-01	169.67	174.94	178.51	169.65		170.09	170.29			163.79			168.55		170.24
2010-07-07															
2010-08-08															
2010-09-09	169.66	174.91		169.65		170.31	170.42			158.09			168.10		169.74
2010-10-20															
2010-11-09															
2010-12-07	169.59	174.75		169.50	154.63			176.25		160.93			169.46		172.24
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04	169.57	175.03	179.15	169.56	154.71	168.41	170.43	176.32		164.56			172.50		174.71
2011-04-21															
2011-05-04															
2011-06-06	169.64	174.96	178.54	169.63	154.78	170.65	170.88	176.39		165.90			170.06		173.48
2011-06-07															
2011-07-04															
2011-08-11															
2011-09-07	169.60	174.93	178.27	168.90	154.83	169.93	170.12	176.29		159.05			167.64		169.74
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05	169.65	174.93	178.28	169.66		169.99	170.05	176.35		165.58			168.58		170.36
2012-01-25															
2012-02-01															
2012-03-01															
2012-03-02	169.34	174.99	179.34	169.28	154.72	170.41	170.58			168.96			170.63		173.20
2012-04-24															
2012-06-04	168.94	174.85	178.44	168.92	154.78	170.14	170.37			171.08			170.62		172.81
2012-06-05															
2012-08-09															
2012-08-10															
2012-09-17	168.61	174.84		168.61	154.75	169.62	169.64			172.29			167.42		169.75
2012-09-28															
2012-12-06	168.36	174.84		168.37						172.66			169.32		
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	17-2	17-3	17-4	17-5	18-1	18-2	18-3	18-4	19-1	19-1R	19-1R2	19-2	19-2R	19-3	19-3R
Top of Pipe	182.3	182.27	182.05	182.27	182.82	182.73	182.68	182.82	184.82	184.56	184.5	184.7	184.46	184.7	184.59
2013-03-08															
2013-03-12	168.22	174.23		168.20	157.87	170.24	170.38	176.32		173.35			172.05		173.89
2013-06-04															
2013-06-12	168.12	174.95		168.09	156.15	169.75	170.21	176.29		173.55			170.97		174.30
2013-08-13															
2013-09-12															
2013-09-20	168.08	174.95		168.03	154.71	170.08	170.11	176.25		173.73			169.83		170.84
2013-12-03	168.00	174.92		167.96	154.72	170.27	170.28			173.57			167.89		172.03
2014-02-19															
2014-02-24															
2014-03-07	168.62	175.22		168.58	155.84	170.00	170.01			174.26			171.54		173.36
2014-03-11															
2014-06-05	169.04	175.22		169.00	162.61	170.25	170.27	177.29		173.46			171.80		173.49
2014-08-06															
2014-09-03	168.60	175.16		168.57	155.83	169.82	169.82			174.16			169.56		172.30
2014-12-05	168.27	175.18		168.27	155.84	169.40	169.40			170.61			167.09		171.37
2015-02-25															
2015-02-26															
2015-03-19	168.30	175.22		168.26	155.88	169.68	169.69			174.16			167.66		171.54
2015-06-05	168.67	175.20		168.66	157.08	169.82	169.79			173.93			167.70		173.30
2015-08-04															
2015-09-04	168.27	175.15		168.48	156.17	169.67	169.69			173.80			167.61		172.61
2015-12-04	168.17	175.12		168.20	156.17	169.67	169.70				159.65		167.60		172.36
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04	168.26	175.10		168.22	156.19	170.15	170.16	177.29			161.43		168.69		173.56
2016-06-03	168.50	175.17		168.46	156.21	170.07	170.07				165.54		169.38		173.16
2016-08-09															
2016-09-07	168.15	175.18		168.11	156.27	169.43	169.39	177.00			169.24		169.81		172.54
2016-12-14	168.01	175.17		168.09	156.29	169.21	169.25				171.45		171.47		172.23
2017-03-01	168.56	175.17		168.46	156.31	170.16	170.07	177.15			172.89		173.66		173.83
2017-06-01	168.83	175.17		168.80	158.68	170.30	170.31	177.20			172.69		173.12		173.52
2017-08-03															
2017-09-07	168.40	175.22		168.50	155.69	169.93	169.96	177.02			172.70		174.19		173.47
2017-12-12	168.27	175.15		168.23	155.72	169.99	170.01	176.93			172.55		174.25		173.35
2018-03-06	169.18	175.16			155.74	170.45	170.43	177.03			173.10		174.90		173.89
2018-06-05	168.84	175.18		168.78	155.78	170.52	170.52	177.16			173.56		172.62		173.71
2018-08-08															
2018-09-07	168.25	175.17		168.19	155.81	169.74	169.76				169.59		172.55		172.98
2018-12-07	168.19	175.15		168.17	155.82	170.33	170.33	177.01			173.11		173.38		173.19
2019-03-05	168.69	175.14		168.57	156.50	170.30	170.43	177.03			174.45		173.07		173.55
2019-06-11	169.62	175.19		169.28	156.63	170.43	170.43	177.21			175.08		173.97		174.77
2019-08-09															
2019-09-13	168.66	175.19		168.63	156.68	169.93	169.92	177.04			175.00		174.85		173.41
2019-12-03	168.62	175.18		168.60	156.66	170.18	170.21	177.09			174.89		174.45		173.77
2019-12-05															
2020-03-02	169.23	175.18		169.09	156.89	170.58	170.59	177.14			174.99		174.02		174.11
2020-06-05	169.26	175.22		169.19	155.81	170.31	170.29	177.07			163.30		174.73		174.05
2020-06-08															
2020-08-05															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	17-2	17-3	17-4	17-5	18-1	18-2	18-3	18-4	19-1	19-1R	19-1R2	19-2	19-2R	19-3	19-3R
Top of Pipe	182.3	182.27	182.05	182.27	182.82	182.73	182.68	182.82	184.82	184.56	184.5	184.7	184.46	184.7	184.59
2020-09-08	168.66	175.16		168.60	155.76	169.53	169.52				172.71		174.91		173.25
2020-12-16	168.31	175.18		168.54	155.73	169.14	169.20	176.90			174.75		174.99		173.17
2020-12-18															
2021-03-08															
2021-03-09	168.66	175.17		168.62	155.78	169.52	169.47	177.32			175.30		174.55		173.62
2021-06-15	168.98	175.11		168.95	155.83	169.75	169.72	177.02			175.42		174.22		173.81
2021-08-10															
2021-09-10	168.95	175.13		168.94	155.92	169.93	169.92				175.30		173.84		173.85
2021-12-10	168.95	175.13		168.94	155.92	169.93	169.92	176.93			175.30		173.84		173.85
2022-03-01	169.32	175.12		169.14	156.11	170.03	170.02	177.01			175.62		174.13		174.15
2022-03-23															
2022-06-01	169.47	175.14		169.41	156.25	170.15	170.17	177.02			175.65		174.85		174.18
2022-06-03															
2022-08-08															
2022-09-01	169.16	175.12		169.10	155.82	169.68	169.73				166.06		173.59		173.59
2022-09-02															
2022-12-06	168.97	175.14		168.96	156.03	169.73	169.71	177.26			169.39		174.24		173.82
2022-12-09															
2023-03-01	169.37	175.14		169.41	156.27	170.21	170.18	177.21			170.88		174.37		174.15
2023-06-08	169.55	175.14		169.52	156.82	170.22	170.20	177.74			172.29		172.96		174.22
2023-08-14															
2023-09-18	169.14	175.16		169.12	156.83	170.56	169.99	177.16			172.92		174.47		173.98
2023-09-20															
2023-12-19	168.69	175.14		168.63		169.50	169.61				173.33		175.37		174.03
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07	169.08	175.13			181.83	169.98	170.02				173.65		175.37		174.18
2024-04-02															
2024-06-04	169.11	175.15		169.49	181.81	170.12	170.10				173.81		175.49		174.68
2024-06-05															
2024-08-14															
2024-09-04	169.23	175.21			181.89	170.12	170.10				173.93		175.71		174.42
2024-12-16	169.17	175.18			181.92	170.00	169.97				174.03		175.79		174.60
2025-01-15															
2025-02-18															
2025-02-20															
2025-03-03															
2025-03-05															
2025-03-10															
2025-03-11	169.50	175.17			182.01	170.32	170.31				174.06		176.09		175.45
2025-03-25															
2025-04-15															
2025-06-04	168.84	175.14			181.90	169.80					174.19		175.75		175.00
2025-06-11															
2025-06-19							170.21								
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25															
2025-08-05															
2025-09-02	169.20	175.12											175.42		

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	17-2	17-3	17-4	17-5	18-1	18-2	18-3	18-4	19-1	19-1R	19-1R2	19-2	19-2R	19-3	19-3R
Top of Pipe	182.3	182.27	182.05	182.27	182.82	182.73	182.68	182.82	184.82	184.56	184.5	184.7	184.46	184.7	184.59
2025-09-03					181.61	169.93					174.25				174.35
2025-09-04															
2025-09-10							169.83								
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04											174.20		174.90		174.59
2025-12-05	168.70	175.16			181.23	169.41	169.40								
2026-01-23															
2026-02-24															
2026-02-25															
2026-02-26															
2026-03-03											174.15		175.47		175.20
2026-03-04	172.02	175.14			181.74	169.89	169.79								
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	19-4	19-4R	22-1	22-2	22-3	22-4	23-1	23-1R	23-1Ra	24-1	24-4	26-1	26-1R	26-2	26-2R
Top of Pipe	184.82	184.53	180.63	180.55	180.52	180.62	174	174.2	174.525	180.42	180.42	172.3	179.21	172.34	179.2
2009-01-12													155.36		159.47
2009-02-13													154.66		159.53
2009-03-05		180.13	169.06	173.26	174.49	175.96		167.77		167.09	175.80		154.58		159.42
2009-04-23			169.08	173.34									157.39		159.50
2009-05-22													156.93		159.44
2009-06-03		179.56	169.09	172.90	174.24	175.93		167.63		167.23	175.78		156.77		159.45
2009-07-16													158.66		159.56
2009-08-12			168.99	173.32	174.49	175.97							158.93		159.56
2009-09-16		178.80	168.90	173.32	174.15	175.99		167.13		167.23	175.86		158.16		159.47
2009-10-13													158.14		159.54
2009-11-12													158.14		159.54
2009-12-02		178.41	168.77	173.34	173.87	175.97		166.17		167.12	175.82		158.11		159.56
2010-01-18													156.29		159.58
2010-02-04													156.11		159.53
2010-03-04		180.28	168.94	173.34	174.34	175.97		166.68		167.17	175.83		155.92		159.64
2010-04-05			169.03	173.37	174.49	175.97							156.99		159.53
2010-05-05													157.01		159.51
2010-06-01		179.23	169.08	173.36	174.54	175.97		167.28		167.24	175.86		159.00		159.59
2010-07-07													157.33		159.46
2010-08-08			169.08	172.82	173.97	175.93							157.28		159.69
2010-09-09		178.14	169.02	172.77	173.94			166.48		167.10	175.73		157.30		159.54
2010-10-20													157.31		159.60
2010-11-09													157.42		159.59
2010-12-07		179.69	169.01	172.87	174.25	175.92		166.89		167.08			157.01		159.56
2011-01-20													155.34		159.59
2011-02-03													155.06		159.53
2011-02-16															
2011-03-04			169.11	173.13	174.80	175.96		167.28		167.31	175.84		155.57		159.77
2011-04-21			169.67	173.26	174.82	175.98							158.12		159.92
2011-05-04													157.70		159.83
2011-06-06		180.49	169.66	173.29	174.53	175.97		168.75		167.38	175.82		157.49		159.69
2011-06-07															
2011-07-04													156.82		159.60
2011-08-11			169.59	173.29	173.94	175.98							157.43		159.62
2011-09-07		177.97	169.53	173.35	173.92	175.95		166.78		167.26	175.81		157.71		159.63
2011-09-09															
2011-10-11													158.79		159.62
2011-11-25													158.39		159.69
2011-12-04															
2011-12-05		179.92	169.56	173.35	174.76	175.97		167.48		167.23	175.80		159.77		159.76
2012-01-25													157.40		159.83
2012-02-01													157.73		
2012-03-01															
2012-03-02		180.39	169.57	173.51	174.49	175.97		168.07		167.31	175.83		156.11		159.76
2012-04-24													156.11		
2012-06-04		179.68	169.42	173.56	174.03	175.86		167.58		167.20	175.71		157.58		159.68
2012-06-05															
2012-08-09															
2012-08-10			169.36	173.54	173.82	175.86							157.16		159.57
2012-09-17		177.18						166.42		167.09	175.70		157.57		159.56
2012-09-28															
2012-12-06		178.50						167.05		167.10	175.71		157.35		159.55
2013-02-12													156.29		

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	19-4	19-4R	22-1	22-2	22-3	22-4	23-1	23-1R	23-1Ra	24-1	24-4	26-1	26-1R	26-2	26-2R
Top of Pipe	184.82	184.53	180.63	180.55	180.52	180.62	174	174.2	174.525	180.42	180.42	172.3	179.21	172.34	179.2
2013-03-08															
2013-03-12		180.86			174.68	175.87		168.72		167.32	175.89		158.64		
2013-06-04															
2013-06-12		180.21	169.78	173.94	174.78	175.96		167.79		167.35	175.83		159.43		159.92
2013-08-13					174.25	175.96									
2013-09-12															
2013-09-20		178.63			173.98			166.93		167.31	175.82		157.31		
2013-12-03		180.52	169.81		174.03	175.96		167.19		167.28	175.81		157.47		
2014-02-19															
2014-02-24													155.95		
2014-03-07		181.25			174.68	175.90		167.77		167.37	175.80		156.13		
2014-03-11															
2014-06-05		181.14	170.04	174.02	174.43	175.90		168.08		167.59	175.80		157.88		159.97
2014-08-06					174.36	175.90									
2014-09-03		178.49			173.99			166.69		167.49	175.74		157.56		
2014-12-05		178.63	170.16		173.79	175.89		165.94		167.34	175.75		157.61		
2015-02-25															
2015-02-26													155.63		
2015-03-19		179.13			173.91	175.90		165.76		167.28			155.52		
2015-06-05		180.31	170.27	173.98	173.98	175.90		166.66		167.37	175.77		158.26		159.73
2015-08-04					174.05	175.92									
2015-09-04		178.56			173.73			166.06		167.34	175.73		157.59		
2015-12-04		178.70	170.16		173.75	175.89		165.27		167.30	175.73		157.27		
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23													155.72		
2016-02-29															
2016-03-04		181.63			174.65	175.90		166.52		167.30	175.75		156.16		
2016-06-03		180.90	170.45	172.76	174.00	175.88		166.51		167.39	175.75		157.21		159.86
2016-08-09					173.14	175.84									
2016-09-07		177.14			173.30			165.62		167.29	175.74		157.26		
2016-12-14		178.34	170.27		173.40			165.84		167.23	175.73		157.28		
2017-03-01		181.38			173.36	176.35		166.23		167.26	175.74		155.15		
2017-06-01		181.26	170.38	172.84	174.62	175.90		168.10		167.67	175.74		157.55		160.04
2017-08-03					174.64	175.91									
2017-09-07		179.71			174.12			166.98		167.58			157.35		
2017-12-12		179.35	169.90		174.07	175.88		166.52		167.50	175.74		157.17		
2018-03-06		181.93			174.65	175.87		168.18		167.61	175.75		155.78		
2018-06-05		181.30	169.84	173.13	174.28	175.89		167.69		167.66	175.73		157.45		159.96
2018-08-08					173.84	175.80									
2018-09-07		177.74			173.81			166.00		167.58	175.75		157.40		
2018-12-07		180.45	169.62		174.59	175.89		166.77		167.52	175.73		157.48		
2019-03-05		181.64			174.61	175.94		166.94		167.55	175.74		155.27		
2019-06-11		181.60	169.67	173.43	174.49	175.97		167.77		167.68	175.74		158.07		159.31
2019-08-09					174.01	176.21									
2019-09-13		178.73			173.95			166.20		167.60	175.75		157.59		
2019-12-03		180.28	169.90		174.15	176.13		165.87		167.55	175.76		157.89		
2019-12-05															
2020-03-02		181.96			174.65	176.09		167.33		167.70	175.77		155.12		
2020-06-05		181.42	169.57	174.08	174.28	176.06		166.71		167.68	175.75		156.73		159.96
2020-06-08															
2020-08-05					173.85	175.86									

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	19-4	19-4R	22-1	22-2	22-3	22-4	23-1	23-1R	23-1Ra	24-1	24-4	26-1	26-1R	26-2	26-2R
Top of Pipe	184.82	184.53	180.63	180.55	180.52	180.62	174	174.2	174.525	180.42	180.42	172.3	179.21	172.34	179.2
2020-09-08		177.38			173.81			165.42		167.53			157.40		
2020-12-16		178.62	169.47		173.60	175.85		166.06		168.03			157.72		
2020-12-18															
2021-03-08															
2021-03-09		180.94			173.47	175.87		166.12		167.54	175.75		154.90		
2021-06-15		180.71	169.53	173.98	173.48	175.88		165.48		167.66	175.74		157.76		159.97
2021-08-10					173.32	175.86									
2021-09-10		180.99			174.66			166.28		167.07	175.77		157.94		
2021-12-10		180.99	169.56		174.66	175.90		166.28		167.07	175.77		157.94		
2022-03-01		181.86			174.67	175.85		167.56		167.23	175.75		157.45		
2022-03-23															
2022-06-01		181.20	169.76	174.46	174.36	175.86		167.14		167.31	175.74		157.85		159.97
2022-06-03															
2022-08-08					173.90	175.94									
2022-09-01		178.50			173.86			164.67		167.35	175.75		157.62		
2022-09-02															
2022-12-06		180.80	169.71		174.26	175.90		165.98		167.32	175.75		157.83		
2022-12-09															
2023-03-01		181.85			174.67	175.87		166.61		167.71	175.79		155.08		
2023-06-08		180.78	169.76	174.49	174.44	175.89		166.93					157.92		159.63
2023-08-14					174.19	175.84									
2023-09-18		180.49			173.99			166.49		168.21	175.77		157.77		
2023-09-20															
2023-12-19		180.35	169.79		174.40	175.92		165.82		167.58	175.72		157.74		
2024-01-23															
2024-02-08															
2024-03-01		181.41									175.78				
2024-03-04															
2024-03-07					174.54	176.05		167.01		167.76			155.01		
2024-04-02															
2024-06-04		181.23	169.93	174.45	174.38	175.92		166.65		167.68	175.74		157.89		159.91
2024-06-05															
2024-08-14					174.05	175.95									
2024-09-04					174.03			166.42		167.83			157.87		
2024-12-16					173.81	175.89				167.62			157.96		
2025-01-15															
2025-02-18															
2025-02-20		181.46									175.76				
2025-03-03													154.85		
2025-03-05															
2025-03-10					174.64	176.12				167.61					
2025-03-11															
2025-03-25															
2025-04-15															
2025-06-04			170.02	174.36		176.08				167.78			158.57		160.14
2025-06-11															
2025-06-19					172.16				166.60						
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25		180.70									175.57				
2025-08-05					174.03	175.88									
2025-09-02															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	19-4	19-4R	22-1	22-2	22-3	22-4	23-1	23-1R	23-1Ra	24-1	24-4	26-1	26-1R	26-2	26-2R
Top of Pipe	184.82	184.53	180.63	180.55	180.52	180.62	174	174.2	174.525	180.42	180.42	172.3	179.21	172.34	179.2
2025-09-03					173.81					167.67			157.66		
2025-09-04															
2025-09-10															
2025-09-22									167.06						
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04									165.99	167.68			157.82		
2025-12-05			170.38		173.68	175.76									
2026-01-23															
2026-02-24															
2026-02-25		181.42									175.81				
2026-02-26													155.39		
2026-03-03													155.13		
2026-03-04					174.70	176.15									
2026-03-05								167.18		167.77					
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	26-3	26-4	26-4R	32-1	32-1R	32-2	32-2R	36-2	36-2R	39-1	39-2	40-1	40-1R	40-2	40-2R
Top of Pipe	172.28	172.28	179.22	177	177.29	177	177.32	185.05	185.98	177.2	177.2	185.13	185.051	185.13	185.088
2009-01-12			164.92						170.70						
2009-02-13			165.27						170.61						
2009-03-05			164.96		169.46		169.45		170.69	153.86	163.70	153.98		171.00	
2009-04-23			165.00						171.18						
2009-05-22			164.82						171.17						
2009-06-03			164.79		169.44		169.43		171.05	157.54	163.77	156.79		170.81	
2009-07-16			164.93						170.43						
2009-08-12			164.95						170.65						
2009-09-16			164.82		169.38		169.38		166.96	164.09	163.81	158.37		170.62	
2009-10-13			164.85						166.89						
2009-11-12			164.90						166.91						
2009-12-02			164.81		169.34		169.33		167.02	158.50	163.73	158.58		170.68	
2010-01-18			164.96						169.67						
2010-02-04			164.96						169.75						
2010-03-04			164.88		169.46		169.45		170.07	155.02	163.73	156.67		170.86	
2010-04-05			164.98						170.62						
2010-05-05			164.88						170.33						
2010-06-01			164.95		169.43		169.43		170.20	158.65	163.72	157.76			
2010-07-07			164.91						170.14						
2010-08-08			164.84						170.03						
2010-09-09			164.86		169.33		169.32		169.00	157.85	163.61	158.48			
2010-10-20			164.90						169.63						
2010-11-09			164.86						169.60						
2010-12-07			164.95		169.44		169.44		169.78	157.78	163.63	158.82			
2011-01-20			164.87						169.88						
2011-02-03			164.77						169.82						
2011-02-16										154.70		156.96			
2011-03-04			165.13		169.52		169.51		170.05	154.53	163.68	162.65		170.88	
2011-04-21			165.33						170.75						
2011-05-04			165.16						170.75						
2011-06-06			165.06		169.50		169.49		170.94	158.18	163.67	158.31		170.63	
2011-06-07															
2011-07-04			164.87						170.75						
2011-08-11			164.88						170.57						
2011-09-07			164.94		169.27		169.27		169.55	158.36	163.67	158.62		170.64	
2011-09-09															
2011-10-11			165.01						170.29						
2011-11-25			164.97						170.26						
2011-12-04															
2011-12-05			165.23		169.50		169.49		170.73	159.28	163.65	158.50		170.66	
2012-01-25			165.09						170.34						
2012-02-01										159.31		158.82		170.66	
2012-03-01															
2012-03-02			165.03		169.45		169.52		170.55	155.33		155.14		179.74	
2012-04-24															
2012-06-04			164.87		169.45		169.46		170.31	158.25	163.51	159.03		170.52	
2012-06-05															
2012-08-09															
2012-08-10			164.73						170.04						
2012-09-17			164.89		169.26		169.25			158.49		159.00		170.51	
2012-09-28															
2012-12-06			164.91		169.38		169.40			158.10	163.49			170.53	
2013-02-12										155.49		158.57			

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	26-3	26-4	26-4R	32-1	32-1R	32-2	32-2R	36-2	36-2R	39-1	39-2	40-1	40-1R	40-2	40-2R
Top of Pipe	172.28	172.28	179.22	177	177.29	177	177.32	185.05	185.98	177.2	177.2	185.13	185.051	185.13	185.088
2013-03-08															
2013-03-12			165.21		169.52		169.51		170.91	164.09	163.60	152.29		170.62	
2013-06-04															
2013-06-12			165.15		169.51		169.50		167.11	159.37	163.57	159.43		170.66	
2013-08-13			164.94						166.75						
2013-09-12															
2013-09-20			164.73		169.42		169.41			158.33		160.84			
2013-12-03			164.94		169.51		169.51		168.94	158.38	163.56	159.87		170.75	
2014-02-19										155.36					
2014-02-24												161.27			
2014-03-07			164.93		169.06		169.06		169.68	156.08	163.22	155.48		170.30	
2014-03-11															
2014-06-05			165.08		169.08		169.07		169.88	161.14	163.22	159.69		170.29	
2014-08-06			165.09						169.83						
2014-09-03			164.80		168.97		168.96			158.21	163.19	159.96			
2014-12-05			164.91		169.05		169.04		169.35	158.49	163.24	159.86		170.49	
2015-02-25										156.38					
2015-02-26												158.37			
2015-03-19			164.75		169.04		169.03		166.47	154.53	163.23	156.28			
2015-06-05			165.05		169.04		169.02		166.45	158.63	163.25	159.74		170.28	
2015-08-04			165.05						166.53						
2015-09-04			165.02		168.92		168.92			158.08	163.23	155.73			
2015-12-04			164.81		168.92		168.91		167.87	157.89	163.20	159.78		170.28	
2016-01-21															
2016-02-09										154.86					
2016-02-22															
2016-02-23															
2016-02-29												158.19			
2016-03-04			165.09		169.08		169.07		169.51	154.83	163.21	144.43		170.28	
2016-06-03			164.94		168.94		168.93		169.61	157.62	163.23				
2016-08-09			165.01						169.30						
2016-09-07			165.06		168.75		168.75			157.60	163.20				
2016-12-14			165.04		168.83		168.82		169.26	157.73	163.19		152.73		170.44
2017-03-01			165.20		169.09		169.08		169.53	154.47	163.18		157.97		170.57
2017-06-01			165.12		169.08		169.07		170.02	158.11	163.18		159.98		170.48
2017-08-03			165.01						169.79						
2017-09-07			165.00		168.99		168.98			157.90	163.18		160.01		170.42
2017-12-12			164.88		169.06		169.05		169.74	157.72	163.17		159.89		170.43
2018-03-06			165.06		169.13		169.12		170.04	154.78	163.19		158.72		170.43
2018-06-05			164.94		169.04		169.03		170.12	157.64	163.18		160.09		170.45
2018-08-08			164.97						169.83						
2018-09-07			164.99		168.81		168.81			157.70	163.19		159.80		170.37
2018-12-07			165.04		169.08		169.07		166.35	157.93	163.20		160.24		170.37
2019-03-05			165.08		169.14		169.14		166.46	154.28	163.18		158.82		170.44
2019-06-11			165.11		169.16		169.17		169.91	158.13	163.19		160.38		170.43
2019-08-09			164.91						169.79						
2019-09-13			165.10		168.97		169.04			157.87	163.22		160.18		170.38
2019-12-03			165.30		169.21		169.20		169.72	158.19	163.18		160.65		170.42
2019-12-05															
2020-03-02			165.11		169.21		169.20		170.17	154.79	163.18		159.72		170.49
2020-06-05			165.03		169.12		169.12		170.13	157.71	163.24		160.26		170.46
2020-06-08															
2020-08-05			164.86						169.87						

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	26-3	26-4	26-4R	32-1	32-1R	32-2	32-2R	36-2	36-2R	39-1	39-2	40-1	40-1R	40-2	40-2R
Top of Pipe	172.28	172.28	179.22	177	177.29	177	177.32	185.05	185.98	177.2	177.2	185.13	185.051	185.13	185.088
2020-09-08			164.87		168.80		168.79			157.90	163.18		160.57		170.37
2020-12-16			165.10		169.15		169.14		169.49	158.27	163.17		160.98		
2020-12-18															
2021-03-08															
2021-03-09			165.12		169.51		169.53		169.86	155.30	163.21		160.12		170.37
2021-06-15			164.99		169.18		169.17		169.75	158.30	163.19		161.15		170.36
2021-08-10			165.01						169.74						
2021-09-10			164.99		168.54		169.56			158.55	163.16		161.69		170.38
2021-12-10			164.99		168.54		169.56		170.29	158.55	163.16		161.69		170.38
2022-03-01			165.51		169.57		169.58		169.41	156.71	163.25		160.97		170.39
2022-03-23															
2022-06-01			164.99		169.29		169.29		166.37	158.58	163.19		162.03		170.38
2022-06-03															
2022-08-08			166.24						169.66						
2022-09-01			164.97		169.31		169.32			158.20	163.19		161.59		170.37
2022-09-02															
2022-12-06			165.37		169.32		169.32		169.87	158.42	163.19		161.65		170.41
2022-12-09															
2023-03-01			165.09		169.45		169.46		170.39	155.56	163.18		161.05		170.39
2023-06-08			164.89		169.15		169.15		170.19	158.34	163.19		161.62		170.31
2023-08-14			165.08						170.07						
2023-09-18			164.96		169.17		169.17			158.72	163.18		161.61		170.32
2023-09-20															
2023-12-19			165.05		169.27		169.28		169.71	164.16	165.51		161.55		
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07			164.98		169.25		169.27		167.24	155.73			161.04		166.31
2024-04-02															
2024-06-04			164.92		169.19		169.19		169.68	158.47	163.19				
2024-06-05													161.34		170.32
2024-08-14			164.96						169.71						
2024-09-04			164.89		169.18		169.17			176.82			161.45		170.30
2024-12-16			165.11		169.16		169.17		169.22	174.92			161.31		170.42
2025-01-15															
2025-02-18															
2025-02-20															
2025-03-03										177.12			160.47		
2025-03-05															
2025-03-10									170.00						
2025-03-11			165.60												170.54
2025-03-25					169.28		169.28								
2025-04-15															
2025-06-04			165.08		169.25		169.25		169.95				161.60		170.40
2025-06-11															
2025-06-19										157.41					
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25															
2025-08-05			164.96						169.45						
2025-09-02			164.93												

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	26-3	26-4	26-4R	32-1	32-1R	32-2	32-2R	36-2	36-2R	39-1	39-2	40-1	40-1R	40-2	40-2R
Top of Pipe	172.28	172.28	179.22	177	177.29	177	177.32	185.05	185.98	177.2	177.2	185.13	185.051	185.13	185.088
2025-09-03					168.96		168.96								170.37
2025-09-04													161.13		
2025-09-10										166.87					
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04			165.21		169.08		169.07		169.14						
2025-12-05										158.05			161.07		170.37
2026-01-23															
2026-02-24										154.28			161.04		
2026-02-25															
2026-02-26															
2026-03-03			165.63		169.22		169.22		169.87						
2026-03-04										155.18			161.18		170.44
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	42-1	42-2	45-1	45-2	46-1	46-1R	46-2	46-3	46-3R	46-4	47-1	47-1R	47-2	47-2R	47-3
Top of Pipe	174.71	174.93	171.82	172.04	179.78	179.59	179.36	179.19	179.588	179.34	180.4	177.43	180.38	177.38	180.44
2009-01-12	162.84	168.34	163.24	163.27											
2009-02-13	162.62	169.69	163.24	163.33											
2009-03-05	162.58	168.85	163.24	163.27		159.51	172.98	172.75		173.61		159.39		160.64	
2009-04-23	163.21	170.80	163.25	163.29											
2009-05-22	163.15	168.21	163.25	163.27											
2009-06-03	163.13	168.93	163.24	163.27		160.25	173.11	172.84		173.57		157.34		160.82	
2009-07-16	162.92	169.23	163.26	163.26											
2009-08-12	163.17	169.82	163.25	163.27											
2009-09-16	163.05	167.45	163.25	163.26		154.82	173.01	172.70		173.40		156.92		160.60	
2009-10-13	162.59	167.29	163.24	163.26											
2009-11-12	162.36	167.42	163.25	163.26											
2009-12-02	162.28	167.58	163.25	163.26		156.66	172.95	172.62		173.50		157.29		160.61	
2010-01-18	162.43	169.11	163.25	163.28											
2010-02-04	162.61	169.03													
2010-03-04	162.69	168.82	163.26	163.29		158.01	173.14	172.68		174.24		157.19		160.69	
2010-04-05	162.97	169.93	163.26	163.27											
2010-05-05	162.99	167.98	163.27	163.27											
2010-06-01	162.95	167.86	163.27	163.28		158.72	173.18	172.90		173.73		157.85		160.85	
2010-07-07	162.91	167.71	161.34	163.24											
2010-08-08	162.87	167.60	163.13	163.28											
2010-09-09	162.74	167.38	163.15	163.43		154.19	172.71	172.31				157.02		160.74	
2010-10-20	162.68	167.51	163.16	163.27											
2010-11-09	162.66	167.67	163.15	163.27											
2010-12-07	162.66	168.17	163.17	163.27		156.52	172.64	172.33				158.64		160.67	
2011-01-20	162.56	168.41	163.18	163.27											
2011-02-03	162.47	167.92	163.18	163.26											
2011-02-16															
2011-03-04	162.41	168.71	163.20	163.29		157.74	173.32	171.94		174.66		158.08		160.93	
2011-04-21	163.11	170.22	163.24	163.32											
2011-05-04	163.21	169.19	163.23	163.31											
2011-06-06	163.68	170.26	163.24	163.29		158.95	173.30	173.17		174.46		158.54		160.79	
2011-06-07															
2011-07-04	164.05	169.83	163.23	163.27											
2011-08-11	164.05	169.53	163.24	163.27											
2011-09-07	163.55	169.16	163.23	163.26		154.44	172.49	172.38		173.23		158.20		160.76	
2011-09-09															
2011-10-11	163.22	167.83	163.24	163.27											
2011-11-25	162.94	169.59	163.24	163.29											
2011-12-04															
2011-12-05	163.35	170.37	163.23	163.28		156.75	172.71	172.66		173.62		158.10		160.73	
2012-01-25	162.49	170.06	163.25	163.34											
2012-02-01															
2012-03-01															
2012-03-02	162.41	168.89	163.25	163.28		158.22	172.97	172.87		173.91		158.35		160.91	
2012-04-24															
2012-06-04	162.68	168.20	163.26	163.31		159.18	172.64	172.80		173.69		158.25		160.84	
2012-06-05															
2012-08-09															
2012-08-10	162.61	167.59	163.25	163.26											
2012-09-17			163.25	163.26		161.83	166.20	172.24				158.79		160.75	
2012-09-28															
2012-12-06	162.66	168.66	163.27	163.27		163.46	169.17	172.15							
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	42-1	42-2	45-1	45-2	46-1	46-1R	46-2	46-3	46-3R	46-4	47-1	47-1R	47-2	47-2R	47-3
Top of Pipe	174.71	174.93	171.82	172.04	179.78	179.59	179.36	179.19	179.588	179.34	180.4	177.43	180.38	177.38	180.44
2013-03-08															
2013-03-12	167.04	170.39	163.29	163.30		163.71	172.30	172.43		173.68		159.01		160.83	
2013-06-04															
2013-06-12	162.48	168.61	163.30	163.30		163.99	170.24	172.18		173.59		158.91		160.83	
2013-08-13	162.13	167.50													
2013-09-12															
2013-09-20			163.31	163.26		164.33	170.00	172.39				159.02		160.75	
2013-12-03	162.73	169.57	163.31	163.27		164.36	169.98	171.80		173.30		159.06		160.74	
2014-02-19															
2014-02-24															
2014-03-07	161.53	168.56	162.95	162.92		163.89	171.51	171.75		173.47		158.64		160.18	
2014-03-11															
2014-06-05	163.03	168.79	162.97	162.94		163.00	171.38	171.31		173.58		158.61		160.41	
2014-08-06	163.88	167.66													
2014-09-03			162.85	162.92		152.95	170.58	170.83				158.17		160.18	
2014-12-05	164.83	168.52	162.85	162.92		154.70	170.84	170.96		172.89		158.35		160.03	
2015-02-25															
2015-02-26															
2015-03-19	161.84	168.22	162.88	162.92		155.32	170.36	170.75		172.82		158.21		160.21	
2015-06-05	162.16	167.21	162.89	162.97		155.62	171.12	171.12		173.07		158.47		160.27	
2015-08-04	161.70	167.01													
2015-09-04			162.89	162.90		155.81	170.17	170.36				157.58		160.16	
2015-12-04	161.52	167.56	162.89	162.90		156.32	164.65	170.70				158.41		160.14	
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04	162.72	168.24	162.88	162.92		156.67	171.24	171.15		173.13		157.95		160.01	
2016-06-03	161.89	167.33	162.90	162.90		157.03	171.17	171.12				157.91		160.16	
2016-08-09	161.71	167.19													
2016-09-07			162.92	162.96		157.23	164.14	169.87				158.32		160.14	
2016-12-14	164.44	168.39	162.92	162.93		157.47	163.91	170.14				158.46		160.09	
2017-03-01	162.75	168.24	162.93	162.95		157.52	171.25	171.24		172.99		158.84		160.35	
2017-06-01	162.09	167.72	162.96	162.92		157.53	171.21	171.12		173.52		158.81		160.29	
2017-08-03	161.96	167.93													
2017-09-07			162.96	162.92		157.64	171.06	171.12				158.45		160.12	
2017-12-12	164.42	168.55	162.96	162.91		157.71	171.19	171.16		173.28		158.60		159.96	
2018-03-06	162.93	168.54	162.98	162.95		157.72	171.29			174.56		159.58		160.35	
2018-06-05	162.89	167.70	162.99	162.94		157.78	171.45		170.61	173.07		158.80		160.32	
2018-08-08	163.72	167.38													
2018-09-07			162.96	162.92		153.53	164.78		170.27			157.48		160.11	
2018-12-07	161.60	167.89	162.95	162.92		154.50	164.46		170.58			158.60		160.22	
2019-03-05	163.51	167.96	162.97	162.94		155.00	168.30		170.73	173.64		158.64		160.35	
2019-06-11	162.97	168.94	162.98	162.96		155.17	169.21		170.62	173.46		158.70		160.33	
2019-08-09	164.23	168.46													
2019-09-13			162.98	162.92		155.31	165.02		170.51	173.19		158.59		160.16	
2019-12-03	161.72	168.20	162.90	162.92		155.24	164.55		170.68	173.33		158.71		160.07	
2019-12-05															
2020-03-02	163.00	168.28	162.95	162.94		157.18	169.50		170.96	174.54		158.77		160.51	
2020-06-05	162.57	167.96	162.96	162.94		155.64	167.38		170.91	173.76		158.69		160.40	
2020-06-08															
2020-08-05	163.61	167.40													

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	42-1	42-2	45-1	45-2	46-1	46-1R	46-2	46-3	46-3R	46-4	47-1	47-1R	47-2	47-2R	47-3
Top of Pipe	174.71	174.93	171.82	172.04	179.78	179.59	179.36	179.19	179.588	179.34	180.4	177.43	180.38	177.38	180.44
2020-09-08			162.95	162.93		155.74	163.69		170.10			158.47		160.12	
2020-12-16	162.27	169.03	162.95	162.93		155.80	163.69		170.52			158.61		160.04	
2020-12-18															
2021-03-08															
2021-03-09	161.99	167.92	162.94	162.94		155.84	166.78		170.69	172.96		158.71		160.75	
2021-06-15	161.93	168.41	162.96	162.91		155.88	164.95		170.60	173.13		158.69		160.48	
2021-08-10	164.33	168.51													
2021-09-10			162.94	162.92		156.27	165.32		170.78	173.33		159.03		160.75	
2021-12-10	162.97	169.37	162.94	162.92		156.27	165.32		170.78	173.33		159.03		160.75	
2022-03-01	161.80	168.84	162.97	162.96		156.60	168.01		170.86	174.22		159.02		160.73	
2022-03-23															
2022-06-01	161.44	168.23	162.99	162.94		156.82	164.51		170.84	173.51		158.82		160.76	
2022-06-03															
2022-08-08	161.68	168.15													
2022-09-01			163.04	162.94		152.63	163.32		170.59	173.15		158.57		160.28	
2022-09-02															
2022-12-06	162.36	168.08	163.01	162.94		153.45	164.59		170.60	173.43		158.70		160.25	
2022-12-09															
2023-03-01	163.97	168.53	163.00	162.95		153.95	167.35		170.66	174.28		158.77		160.58	
2023-06-08	161.41	167.80	162.98	162.93		154.24	168.40		170.71	173.49		158.61		160.49	
2023-08-14	164.24	167.95													
2023-09-18			162.97	162.93		154.45	163.84		170.42	173.26		158.51		160.37	
2023-09-20															
2023-12-19	164.08	167.88	162.90	162.94		154.65	163.15		170.37	173.21		158.46		159.77	
2024-01-23															
2024-02-08															
2024-03-01										173.64					
2024-03-04															
2024-03-07		168.29	162.95	162.94		154.86	169.85		170.47	173.80		158.68		160.49	
2024-04-02															
2024-06-04	161.33	167.68				154.98	165.71		170.53	173.64		158.82		160.33	
2024-06-05			162.94	162.92											
2024-08-14		167.39													
2024-09-04			162.95	162.93		155.35	163.57		170.41			158.38		160.28	
2024-12-16		167.84	162.92	162.92		153.95	164.14		170.66			158.62		160.11	
2025-01-15															
2025-02-18															
2025-02-20										173.71					
2025-03-03															
2025-03-05															
2025-03-10		170.11													
2025-03-11						155.48	165.97		171.23			158.88		160.59	
2025-03-25			162.94	162.94											
2025-04-15															
2025-06-04		168.05	162.98	162.94		155.44	164.59		170.37			158.74		160.67	
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25										173.15					
2025-08-05		167.26													
2025-09-02							164.67		170.30	172.84					

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	42-1	42-2	45-1	45-2	46-1	46-1R	46-2	46-3	46-3R	46-4	47-1	47-1R	47-2	47-2R	47-3
Top of Pipe	174.71	174.93	171.82	172.04	179.78	179.59	179.36	179.19	179.588	179.34	180.4	177.43	180.38	177.38	180.44
2025-09-03			162.92	162.91		155.42								160.23	
2025-09-04															
2025-09-10															
2025-09-22															
2025-09-30												158.30			
2025-10-01															
2025-12-01															
2025-12-04		168.03	162.92	162.92		155.57	162.97		170.35			158.41		160.28	
2025-12-05															
2026-01-23															
2026-02-24															
2026-02-25										173.81					
2026-02-26															
2026-03-03		170.13	162.92			155.72	169.58		170.23			158.48		160.64	
2026-03-04				162.94											
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	47-3R	47-4	47-4R	48-1	48-2	48-3	49-1	49-2	49-3	51-1	51-2	51-3	51-4	53-1	53-2
Top of Pipe	177.25	180.4	177.2	184.87	184.87	185.06	183.83	183.88	183.93	185.08	185.23	185.11	185.28	182.81	183.94
2009-01-12															
2009-02-13															
2009-03-05	168.90		169.94	167.63	175.74		165.02	177.34	177.34	181.76	182.64	182.12	182.32	158.20	167.66
2009-04-23															
2009-05-22															
2009-06-03	168.89		169.94	167.04	175.46	179.66	166.25	177.10	177.08	181.82	182.46	181.99	182.19	157.79	167.68
2009-07-16															
2009-08-12															
2009-09-16	168.81		170.00	165.89	175.24		167.40	176.75	176.75	180.98	181.45	181.20	181.37	157.76	167.62
2009-10-13															
2009-11-12															
2009-12-02	168.84		170.01	165.32	174.97		168.01	176.50	176.62	180.54	181.06	180.99	181.17	157.08	166.97
2010-01-18															
2010-02-04															
2010-03-04	168.83		170.24	165.00	175.27	176.78	168.77	176.89	177.30	181.32	182.05	181.77	181.97	158.11	167.66
2010-04-05															
2010-05-05															
2010-06-01	168.87			165.01	175.25		161.11	176.78	176.80	181.47	182.34	181.80	182.02	158.52	167.65
2010-07-07															
2010-08-08															
2010-09-09	168.82			165.08	174.81		162.85	176.06	176.02	179.92	180.28	180.12	180.31	157.54	167.67
2010-10-20															
2010-11-09															
2010-12-07	168.77		169.95	165.26	174.89		164.28	176.33	176.35	180.18	180.66	180.68	180.86	158.84	167.63
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04	168.88		170.47	166.22	175.51	176.79	165.61	177.27	177.38	181.76	183.49	182.05	182.28	158.90	167.70
2011-04-21															
2011-05-04															
2011-06-06	168.89		169.95	166.25	175.46		166.69	177.13	177.15	181.94	183.30	182.07	182.29	158.01	167.71
2011-06-07															
2011-07-04															
2011-08-11															
2011-09-07	168.83		169.95	166.17	174.89		167.71	176.08	176.07	179.73	179.91	179.83	180.02	158.57	167.64
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05	168.87		170.09	166.44	175.29		168.29	176.94	176.97	180.93	181.62	181.38	181.56	158.75	167.69
2012-01-25															
2012-02-01															
2012-03-01															
2012-03-02	168.88		170.29	166.75	175.63	176.77	168.95	177.39	177.49	181.78	183.26	182.08	182.33	158.84	167.66
2012-04-24															
2012-06-04	168.83		170.04	166.91	175.42	176.63	169.63	176.99	177.08	181.52	181.87	181.54	181.74	158.59	167.70
2012-06-05															
2012-08-09															
2012-08-10															
2012-09-17	168.78		169.93	166.84	175.10		170.07	176.34	176.37	178.99	179.01	178.93		158.84	167.63
2012-09-28															
2012-12-06				167.10	175.23		160.87	176.77	176.80	179.87	180.14	180.25	180.42	158.50	167.63
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	47-3R	47-4	47-4R	48-1	48-2	48-3	49-1	49-2	49-3	51-1	51-2	51-3	51-4	53-1	53-2
Top of Pipe	177.25	180.4	177.2	184.87	184.87	185.06	183.83	183.88	183.93	185.08	185.23	185.11	185.28	182.81	183.94
2013-03-08															
2013-03-12	168.85		170.92	167.48	175.76	176.76	162.85	177.59	177.82	181.66	182.82	181.87	182.12	159.19	167.69
2013-06-04															
2013-06-12	168.84		171.84	167.02	175.59		164.29	177.30	177.39	181.62	183.49	181.67	181.93	159.06	167.68
2013-08-13															
2013-09-12															
2013-09-20	168.83		169.95	166.93	175.36		165.82	176.76	176.75	180.49	180.64	180.57	180.74	158.96	167.70
2013-12-03	168.83		169.94	167.14	175.52		166.73	177.37	177.55	181.57	181.92	181.87	182.04	159.01	167.69
2014-02-19															
2014-02-24															
2014-03-07	168.30		169.52	166.90	175.30		167.22	177.02	177.28	181.22	182.43	181.63	181.90	159.14	167.69
2014-03-11															
2014-06-05	168.28		169.51	166.98	175.32		168.09	177.06	177.22	181.69	182.76	181.98	182.26	159.23	167.72
2014-08-06															
2014-09-03	168.32			166.85	174.93		168.74	176.43	176.46	180.32	180.71	180.68	180.90	158.87	167.71
2014-12-05	168.34		169.44	166.69	174.79		160.56	176.36	176.45	180.02	180.60	180.82	181.06	158.88	167.67
2015-02-25															
2015-02-26															
2015-03-19	168.37		169.46	166.69	174.86		162.25	176.44	176.51	180.21	181.03	180.92	181.15	158.82	167.72
2015-06-05	168.33		171.70	166.42	175.01		163.85	176.74	176.85	180.93	182.76	181.58	181.83	159.02	167.71
2015-08-04															
2015-09-04	168.35		169.52	166.17	174.77		165.03	176.24	176.31	179.67	180.14	180.20	180.43	158.81	167.71
2015-12-04	168.37		169.51	165.78	174.79		166.06	176.41	176.54	179.98	180.51	180.75	180.98	158.87	167.69
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04	168.31		170.85	166.28	175.17	176.56	166.91	177.06	177.19	180.93	182.11	181.76	182.01	158.82	167.74
2016-06-03	168.23		169.51	166.08	174.96		167.86	176.52	176.59	180.85	181.66	181.38	181.62	158.21	167.75
2016-08-09															
2016-09-07	168.30		169.44	165.65	174.57	176.43	168.39	175.70	175.73	178.27	178.78	178.75		158.70	167.64
2016-12-14	168.29		169.48	165.56	174.70	176.41	160.73	175.99	176.00	177.95	178.26	178.25		158.72	167.65
2017-03-01	168.38		174.12	165.91	175.62	176.54	162.28	177.30	177.72	180.00	181.04	180.80	181.06	159.00	167.68
2017-06-01	168.35		169.53	168.70	175.57	177.62	164.01	177.01	177.18	180.76	181.54	181.29	181.55	159.13	167.73
2017-08-03															
2017-09-07	168.33		169.51	167.42	174.36	177.13	165.19	176.15	176.28	180.08	180.58	180.57	180.83	158.90	167.71
2017-12-12	168.36		169.52	166.27	174.16	176.43	166.10	176.18	176.28	180.32	180.91	181.17	181.42	158.93	167.72
2018-03-06	168.35		172.18	162.14	174.57	176.94	167.04	176.72	176.85	180.57	182.96	181.91	182.20	159.28	167.76
2018-06-05	168.30		169.54	165.50	173.87		168.01	175.66	175.83	180.56	182.25	181.65	181.94	159.07	167.71
2018-08-08															
2018-09-07	168.35		169.38	165.41	173.78	176.47	168.41	175.28	175.39	178.50	179.13	179.12	179.47	158.82	167.70
2018-12-07	168.36		169.52	164.81	173.82		160.32	175.84	175.97	178.93	180.12	180.39	180.65	159.10	167.72
2019-03-05	168.32		169.95	164.81	174.08	176.66	161.69	176.22	176.40	179.79	181.74	181.13	181.41	159.17	167.75
2019-06-11	168.28		174.97	165.87	174.11	176.47	163.85	176.19	176.34	180.37	181.85	181.54	181.81	159.23	167.73
2019-08-09															
2019-09-13	168.33		169.53	166.43	174.01		164.94	175.72	175.92	179.13	180.19	180.30	180.57	159.00	167.72
2019-12-03	168.41		169.99	166.87	174.04	176.44	165.76	176.27	176.55	179.83	181.07	181.38	181.64	159.23	167.72
2019-12-05															
2020-03-02	168.36		175.30	166.85	174.04	176.50	166.98	176.45	176.77	180.52	182.69	182.01	182.30	159.27	167.77
2020-06-05	168.33		169.53	166.90	173.98	176.45	167.58	176.17	176.34	180.49	182.52	181.87	182.17	159.12	167.75
2020-06-08															
2020-08-05															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	47-3R	47-4	47-4R	48-1	48-2	48-3	49-1	49-2	49-3	51-1	51-2	51-3	51-4	53-1	53-2
Top of Pipe	177.25	180.4	177.2	184.87	184.87	185.06	183.83	183.88	183.93	185.08	185.23	185.11	185.28	182.81	183.94
2020-09-08	168.24		169.44	162.55	173.49	176.41	168.18	175.12	175.17	178.07	178.60	178.46	179.44	158.79	167.70
2020-12-16	168.32		169.49	164.89	173.56	176.40	160.45	175.21	175.23	177.38	178.08	178.06		159.01	167.71
2020-12-18															
2021-03-08															
2021-03-09	168.37		169.62	165.18	173.77	176.39	162.13	175.91	175.99	178.91	180.31	180.74	180.72	159.12	167.72
2021-06-15	168.22		170.57	165.05	173.66	176.42	163.82	175.61	175.71	179.54	180.74	181.02	181.02	159.16	167.71
2021-08-10															
2021-09-10	168.29		170.43	164.29	173.59	176.41	165.88	175.89	176.16	179.72	181.02	181.61	181.60	159.24	167.74
2021-12-10	168.29		170.43	164.29	173.59	176.41	165.88	175.89	176.16	179.72	181.02	181.61	181.60	159.24	167.74
2022-03-01	168.41		175.53	164.72	173.68	176.46	166.80	176.19	176.59	180.28	182.71	182.09	182.10	159.50	167.74
2022-03-23															
2022-06-01	168.29		169.56	164.23	173.13	176.43	167.50	175.68	175.84	180.21	181.58	181.62	181.61	159.22	167.75
2022-06-03															
2022-08-08															
2022-09-01	168.26		169.56	164.00	172.82		168.10	175.25	175.33	179.08	179.90	180.30	180.30	159.02	167.72
2022-09-02															
2022-12-06	168.32		169.60	164.93	173.01	176.40	160.29	175.72	175.83	179.32	180.55	181.23	181.22	159.22	167.73
2022-12-09															
2023-03-01	168.35		175.39	165.33	173.48	176.42	162.19	176.07	176.93	180.21	181.85	182.05	182.06	159.34	167.77
2023-06-08	168.27		169.52	163.69	172.73	176.40	163.68	175.51	175.70	179.95	181.17	181.33	181.33	159.05	167.71
2023-08-14															
2023-09-18	168.28		169.53	163.12	171.00	176.38	164.75	175.52	175.57	179.72	180.96	181.24	181.24	158.90	167.71
2023-09-20															
2023-12-19	168.12			163.43	170.55	176.42	165.82	175.59	175.66	179.15	180.23	180.88	180.89	159.05	167.71
2024-01-23															
2024-02-08															
2024-03-01			169.99												
2024-03-04															
2024-03-07	168.23		171.28	163.37	172.79	176.42	166.71	175.76	175.85	179.91	181.41	181.51	181.71	159.26	167.72
2024-04-02															
2024-06-04			169.52				167.51	176.01	176.08	180.06	181.39	181.45	181.64	159.55	167.71
2024-06-05	168.12		169.52	163.17	172.35	176.43									
2024-08-14															
2024-09-04	168.07			163.37	171.58		168.07	175.73	175.81	179.50	180.48	180.62	180.81	159.55	167.72
2024-12-16	167.98			163.58	171.49		161.16	175.95	176.10	179.07	180.13	180.77	180.95	159.07	167.71
2025-01-15															
2025-02-18															
2025-02-20			174.23												
2025-03-03															
2025-03-05															
2025-03-10															
2025-03-11	167.36			163.60	173.59	176.41	162.61	176.41	176.72	179.75	182.26	181.56	181.75	159.55	167.72
2025-03-25															
2025-04-15															
2025-06-04	167.51			163.49	173.24	177.02		176.09	176.22	180.10	182.04	181.63	181.82	159.65	167.69
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25			169.51												
2025-08-05															
2025-09-02				163.33	172.36		165.18	175.36	175.39	178.01	179.36	179.57	179.76		

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	47-3R	47-4	47-4R	48-1	48-2	48-3	49-1	49-2	49-3	51-1	51-2	51-3	51-4	53-1	53-2
Top of Pipe	177.25	180.4	177.2	184.87	184.87	185.06	183.83	183.88	183.93	185.08	185.23	185.11	185.28	182.81	183.94
2025-09-03	167.80													159.07	167.70
2025-09-04															
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04	167.66			163.66	172.04		161.16	175.42	175.43						
2025-12-05										177.09	178.85	179.34		159.16	167.66
2026-01-23															
2026-02-24															
2026-02-25			175.66												
2026-02-26															
2026-03-03	168.39						162.11	176.21	176.34	177.55	182.01	180.91	181.12		
2026-03-04				163.90	173.59									159.43	167.70
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16						176.51									

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	53-3	53-4	54-1	54-2	54-3	54-4	55-1	55-2	55-3	55-4	56-1	56-2	56-3	56-4	61-1
Top of Pipe	182.82	181.78	177.84	177.92	177.9	178.11	178.39	178.4	178.43	178.39	182.56	182.64	182.57	182.47	186.38
2009-01-12															
2009-02-13															
2009-03-05	169.67	158.81	171.03	163.03	170.49	176.68	168.53	166.82	170.71	173.21	181.62	180.57	181.18		
2009-04-23															157.75
2009-05-22															
2009-06-03	169.64	158.76	170.36	163.25	170.50	175.94	168.19	167.00	170.77	173.65	181.34	180.89	180.85	181.21	156.81
2009-07-16															
2009-08-12															156.92
2009-09-16	169.62	149.77	170.44	163.04	170.40	174.34	168.38	167.12	170.63	171.48	180.87	180.38	180.35	180.71	
2009-10-13															
2009-11-12															
2009-12-02	169.60	149.88	170.12	163.08	170.41		168.36	167.27	170.60	171.21	180.69	179.81	180.43	180.66	
2010-01-18															
2010-02-04															
2010-03-04	169.60	151.86	170.64	163.37	170.45	176.28	168.28	167.42	170.73	172.97	181.34	180.59	180.97	181.06	
2010-04-05															157.22
2010-05-05															
2010-06-01	169.60	153.28	171.67	163.36	170.61	175.56	168.59	167.50	170.80	172.40	181.27	180.74	180.97	181.26	158.99
2010-07-07															
2010-08-08															157.23
2010-09-09		150.21	170.76	164.96	170.30		168.02	165.56	170.59	171.28	166.43	169.05	179.63	179.93	
2010-10-20															
2010-11-09															
2010-12-07	169.59	152.06		164.59	170.35		168.18	166.50	170.49	171.26	172.30	174.87	180.14	181.46	
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04	169.58	154.14	170.90	164.50	170.68	177.24	168.45	166.74	170.82	174.45	176.29	178.20	181.22	182.12	
2011-04-21															157.94
2011-05-04															
2011-06-06	169.61	156.33	171.70	163.29	170.69	175.83	168.65	166.87	170.88	173.06	181.32	180.83	180.98	181.29	157.60
2011-06-07															
2011-07-04															
2011-08-11															157.54
2011-09-07	169.58		170.85	164.13	170.31		167.21	167.12	170.63	172.31	179.84	179.49	179.31	179.72	
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05	169.57			163.90	170.70	175.87	167.16	167.07	170.68	172.25	181.17	179.56	180.86	182.14	
2012-01-25															
2012-02-01															
2012-03-01															
2012-03-02	169.63	158.29	171.57	163.89	170.70	176.86	168.06	167.14	170.79	173.50	181.56	180.20	181.24	182.14	
2012-04-24															
2012-06-04	169.66	158.55	176.62	163.91	170.67	175.65	168.41	167.22	170.78	172.62	181.25	180.51	180.74	181.17	157.42
2012-06-05															
2012-08-09															
2012-08-10															157.21
2012-09-17	169.62	150.67	170.74	163.41	170.34		167.29	165.16	170.26	171.27	166.41	170.72	178.84	179.21	
2012-09-28															
2012-12-06	169.60	153.53	169.43	164.44	170.60	175.17	167.50	166.04	170.42		171.28	174.76	180.00	181.48	
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	53-3	53-4	54-1	54-2	54-3	54-4	55-1	55-2	55-3	55-4	56-1	56-2	56-3	56-4	61-1
Top of Pipe	182.82	181.78	177.84	177.92	177.9	178.11	178.39	178.4	178.43	178.39	182.56	182.64	182.57	182.47	186.38
2013-03-08															
2013-03-12	169.63	155.77	171.22	164.86	170.82	177.02	167.74	166.44	170.72	173.08	174.92	178.28	181.07	182.16	158.72
2013-06-04															
2013-06-12	169.65	157.01	169.92	165.23	170.79	175.85	167.85	166.60	170.68	171.73	177.20	179.58	181.17	182.14	159.57
2013-08-13															157.74
2013-09-12															
2013-09-20	169.64	157.75	171.05	164.82	170.72	173.53	167.93	166.74	170.53		180.44	179.96	180.03	180.47	
2013-12-03	169.65	158.17	171.68	164.56	170.89	176.73	167.94	166.83	170.73	172.37	181.01	180.26	181.03	181.97	
2014-02-19															
2014-02-24															
2014-03-07	169.71	158.58	171.46	164.02	170.51	176.35	167.89	166.60	170.42	173.05	180.49	180.18	180.46	181.61	158.40
2014-03-11															
2014-06-05	169.73	158.81	171.51	164.02	170.57	176.33	168.28	166.68	170.50	173.74	180.97	180.42	180.68	181.39	157.33
2014-08-06															159.48
2014-09-03	169.70	149.46	170.61	163.59	170.29	173.64	167.40	164.06	170.29	171.19	165.30	169.73	179.77	180.91	
2014-12-05	169.68	151.27	170.39	163.44	170.32		167.95	165.59	169.92	171.05	169.62	175.33	179.88	181.49	
2015-02-25															
2015-02-26															
2015-03-19	169.73	152.76	170.92	163.44	170.38	175.17	167.94	166.02	170.28	171.15	176.06	178.48	179.80	180.75	155.19
2015-06-05	169.73	154.06	171.15	163.39	170.43	174.95	168.54	166.22	170.39	172.06	179.32	179.35	180.24	180.87	158.18
2015-08-04															157.68
2015-09-04	169.70	154.86	170.61	163.25	170.28		168.42	166.34	170.20	170.89	178.83	179.41	179.46	180.56	
2015-12-04	169.69	155.56	170.58	163.12	170.28		168.37	166.45	170.31	170.96	178.71	179.16	180.10	181.51	
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04	169.73	156.23	171.00	162.99	170.57	176.01	168.79	166.60	170.41	173.91	179.57	179.64	180.67	181.47	155.80
2016-06-03	169.74	156.76	171.08	163.14	170.58	175.20	168.97	166.80	170.47	172.80	179.40	179.96	180.01	180.94	156.92
2016-08-09															156.77
2016-09-07	169.71	158.59	169.77	162.78	169.85		167.37	163.04	169.96		177.72	178.73	178.49	179.08	
2016-12-14	169.67	158.85	169.98	162.65	170.04		168.29	165.29	169.93		177.15	177.54	177.84	177.93	
2017-03-01	169.70	158.87	170.54	164.97	170.58	174.87	168.47	165.85	170.38	173.53	178.46	178.27	180.14	181.62	155.79
2017-06-01	169.74	159.01	170.69	162.95	170.65	175.21	168.47	166.10	170.51	173.07	178.79	179.34	180.23	181.14	157.24
2017-08-03															157.29
2017-09-07	169.72	159.10	170.05	162.84	170.11	173.07	168.80	166.27	170.31	171.21	178.66	178.81	179.74	180.57	
2017-12-12	169.72	159.14	170.93	162.68	170.64	175.59	168.88	165.43	169.55	172.92	178.88	179.49	180.36	181.56	
2018-03-06	169.79	159.18	169.71	163.52	170.75	176.98	169.02	166.57	170.69	174.63	179.19	180.41	180.84	181.62	155.11
2018-06-05	169.97	159.20	169.86	163.24	170.21	175.79	168.82	166.74	170.47	174.03	179.04	180.27	180.37	181.13	157.03
2018-08-08															166.92
2018-09-07	169.72	159.10	170.73	162.83	170.34		167.72	163.22	170.18		165.40	166.63	178.44	179.41	
2018-12-07	169.70	159.34	170.86	162.94	170.62	173.22	167.95	164.91	170.50	173.54	169.24	170.82	179.99	181.53	
2019-03-05	169.63	159.38	171.44	163.00	170.69	175.78	168.37	165.55	170.50	173.31	171.75	174.07	180.12	181.24	154.59
2019-06-11	169.80	159.42	171.49	163.11	170.77	176.09	168.70	165.91	170.70	174.33	173.82	176.54	180.54	181.46	157.44
2019-08-09															157.46
2019-09-13	169.82	159.46	171.00	162.96	170.50		168.68	166.14	170.40	171.24	175.38	177.88	179.58	179.85	
2019-12-03	169.74	159.49	171.20	162.80	170.59	176.21	168.79	166.29	170.51	173.96	175.71	178.40	180.45	181.64	
2019-12-05															
2020-03-02	169.80	159.53	171.46	163.05	170.78	177.04	168.69	166.47	170.73	175.05	176.19	179.31	180.79	181.70	157.48
2020-06-05	169.79	159.58	171.31	163.02	170.76	175.85	168.79	166.61	170.70	174.51	176.32	179.61	180.65	181.52	157.08
2020-06-08															
2020-08-05															157.17

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	53-3	53-4	54-1	54-2	54-3	54-4	55-1	55-2	55-3	55-4	56-1	56-2	56-3	56-4	61-1
Top of Pipe	182.82	181.78	177.84	177.92	177.9	178.11	178.39	178.4	178.43	178.39	182.56	182.64	182.57	182.47	186.38
2020-09-08	169.71	159.60	170.63	162.74	170.42		168.27	163.90	170.11		176.07	179.01	177.95	179.23	
2020-12-16	169.69	159.63	170.73	162.74	170.42		168.00	165.20	170.09		176.33	178.02	177.38	180.69	
2020-12-18															
2021-03-08															
2021-03-09	169.67	159.65	170.82	162.97	170.74	173.52	168.41	165.83	170.47	173.12	176.69	178.22	179.89	181.47	155.31
2021-06-15	169.72	159.69	170.75	162.95	170.64	173.11	168.81	166.12	170.61	173.74	176.83	178.94	179.94	181.06	157.54
2021-08-10															157.57
2021-09-10	169.25	159.72	170.98	163.01	170.81		168.81	166.38	170.71	174.11	177.22	179.35	180.53	181.71	
2021-12-10	169.25	159.72	170.98	163.01	170.81	175.45	168.81	166.38	170.71	174.11	177.22	179.35	180.53	181.71	
2022-03-01	169.81	159.77	171.07	163.15	170.82	176.35	168.82	166.50	170.78	175.24	177.23	179.70	180.69	181.54	156.97
2022-03-23															
2022-06-01	169.79	159.80	171.03	163.09	170.81	175.23	168.99	166.63	170.76	174.26	177.17	179.84	180.26	181.17	157.67
2022-06-03															
2022-08-08															157.60
2022-09-01	169.74	149.04	170.21	162.68	170.44		167.71	162.13	170.46	171.67	169.24	167.41	179.49	179.82	
2022-09-02															
2022-12-06	169.72	150.97	170.78	162.76	170.72	173.28	168.20	165.15	170.69	173.19	174.13	173.21	180.26	182.30	
2022-12-09															
2023-03-01	169.79	152.22	171.04	165.44	170.92	176.52	168.79	165.99	170.98	175.32	174.43	177.09	180.69	181.77	154.52
2023-06-08	169.80	153.44	170.40	162.97	170.37	175.06	168.93	166.23	170.68	173.95	174.52	178.40	180.08	180.69	157.70
2023-08-14															157.83
2023-09-18	169.73	154.39	170.46	163.02	170.35	173.17	169.06	166.36	170.63	173.41	174.58	179.00	179.98	181.18	
2023-09-20															
2023-12-19	169.72	154.91	170.14	163.17	170.74	172.99	169.05	166.45	170.71	172.60	174.67	179.17	180.11	181.60	
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07		155.91	171.01	163.08	170.82	175.23	169.14	166.88	170.89	174.56	174.77	179.84	180.34	180.70	
2024-04-02															
2024-06-04	169.77	153.89	170.97	163.14	170.83	175.15		167.06			174.68	180.08	180.24	181.37	157.65
2024-06-05							169.10	167.06	170.91	174.29					
2024-08-14															
2024-09-04		156.64	170.80	162.64	170.82	173.00	168.96	166.12	170.64	171.77	165.48	170.25	179.65	179.87	
2024-12-16		156.81	170.92	162.88	170.82	173.03	169.51	166.77	170.65	172.47	168.10	175.60	179.88	181.30	
2025-01-15															
2025-02-18															
2025-02-20	169.78														
2025-03-03															
2025-03-05															
2025-03-10															
2025-03-11		157.27	170.90	163.01	170.89	175.29	169.48	167.51	170.59	175.23	169.75	177.71	180.39	181.73	
2025-03-25															
2025-04-15															
2025-06-04		157.64	171.12	163.03	170.91	175.65	169.70	167.52	170.90	174.37	171.25	178.91	180.45	181.27	
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25	169.85														
2025-08-05															
2025-09-02				162.56	170.68	173.04	169.54	164.25	170.47	171.17	172.17	170.85	179.07		

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	53-3	53-4	54-1	54-2	54-3	54-4	55-1	55-2	55-3	55-4	56-1	56-2	56-3	56-4	61-1
Top of Pipe	182.82	181.78	177.84	177.92	177.9	178.11	178.39	178.4	178.43	178.39	182.56	182.64	182.57	182.47	186.38
2025-09-03		157.84	170.42											179.47	
2025-09-04															
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04			170.63	162.73	170.62	173.03	169.60	165.81	171.01		172.62	175.21	179.16	180.54	
2025-12-05		157.99													
2026-01-23															
2026-02-24															
2026-02-25	169.73														
2026-02-26															
2026-03-03															
2026-03-04		170.52	173.71	173.42	170.79	175.57						177.53	180.38	181.48	
2026-03-05							169.19	167.57	170.90	175.12					
2026-03-11											173.54				
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	61-2	61-3	61-4	63-1	63-2	63-3	67-1	67-2	67-3	67-4	68-1	68-2	68-3	69-1	69-2
Top of Pipe	186.12	186.19	186.35	177.52	176.32	176.11	183.10	183.99	183.02	183.12	183.80	183.67	183.56	183.21	183.24
2009-01-12															
2009-02-13															
2009-03-05							154.38								
2009-04-23	166.11	166.37	171.36	163.70	166.90	170.82	157.49	169.74	166.29	170.21	170.65	170.60	168.29	170.49	162.73
2009-05-22															
2009-06-03	166.08	166.24	171.24	163.75	166.93	170.16	157.11	169.62	166.65	170.16	170.71	170.77	168.31	170.33	162.78
2009-07-16															
2009-08-12	165.90	166.00	171.16	163.58	166.52	169.83	158.83	169.37	167.17	169.97	170.10	170.05	168.33	170.04	162.91
2009-09-16							158.25								
2009-10-13															
2009-11-12															
2009-12-02							158.18								
2010-01-18															
2010-02-04															
2010-03-04															
2010-04-05	166.13	166.24	171.20	163.57	166.64	170.42	157.14	168.98	164.31	169.86	169.67	169.46	168.42	170.03	163.23
2010-05-05															
2010-06-01	165.91	166.05	171.06	163.57	166.52	169.50	158.75	168.89	164.85	169.81	169.84	169.81	168.44	169.59	163.38
2010-07-07															
2010-08-08	165.80	165.91	171.09	163.39	166.29	168.95	157.40	168.94	165.34	169.82	169.79	169.85	168.50	169.45	163.54
2010-09-09							157.36								
2010-10-20															
2010-11-09															
2010-12-07							157.38								
2011-01-20															
2011-02-03															
2011-02-16							154.68								
2011-03-04							157.33								
2011-04-21	166.45	166.24	171.26	163.66	166.71	170.85	157.77	169.47	162.80	170.26	170.01	169.80	168.57	170.15	164.11
2011-05-04															
2011-06-06	166.21	166.33	171.23	163.75	166.86	170.56	157.62	169.28	163.36	170.14	170.32	170.36	168.60	170.31	164.24
2011-06-07															
2011-07-04															
2011-08-11	165.79	165.87	170.99	163.45	166.54	169.48	157.59	169.23	163.93	170.00	170.23	170.37	168.63	169.97	164.42
2011-09-07							157.75								
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05							159.81								
2012-01-25															
2012-02-01							156.81								
2012-03-01															
2012-03-02							155.39								
2012-04-24							157.80	169.21	163.61	170.16	170.34	170.31	168.75	170.03	165.13
2012-06-04	165.94	165.99	170.63	163.45	166.60	169.38	157.76	168.97	164.06	170.02	170.09	170.25	168.75	169.71	165.21
2012-06-05															
2012-08-09															
2012-08-10	165.66	165.83	170.53	163.19	166.26	168.84	157.37	168.93	164.41	169.91	169.84	169.99	168.78	169.49	165.35
2012-09-17															
2012-09-28															
2012-12-06															
2013-02-12							155.90								

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	61-2	61-3	61-4	63-1	63-2	63-3	67-1	67-2	67-3	67-4	68-1	68-2	68-3	69-1	69-2
Top of Pipe	186.12	186.19	186.35	177.52	176.32	176.11	183.10	183.99	183.02	183.12	183.80	183.67	183.56	183.21	183.24
2013-03-08															
2013-03-12	166.10	166.36	170.93	163.52	166.96	171.17	158.57	169.78	163.27	170.15	170.38	171.70	168.86	170.31	166.39
2013-06-04															
2013-06-12	165.92	166.04	170.66	163.56	166.66	169.48	159.56	169.58	164.50	169.81	170.15	172.28	168.91	167.36	166.50
2013-08-13	165.86	166.03	170.61	163.21	166.03	168.01	158.32	169.21	164.99	169.55	170.51	172.46	168.93	167.06	166.53
2013-09-12															
2013-09-20							158.05								
2013-12-03							157.94								
2014-02-19															
2014-02-24							155.29								
2014-03-07	165.95	165.86	170.70	164.12	166.22	169.83	155.44	170.16	162.99	169.43	172.40	172.55	168.63	169.15	166.28
2014-03-11															
2014-06-05	166.01	165.95	170.52	164.62	166.32	169.61	158.18	170.15	164.08	169.36	172.03	172.79	168.69	169.36	166.36
2014-08-06	165.67	165.70	170.35	164.47	166.13	169.07	160.11	170.23	164.59	169.45	172.02	172.78	168.71	169.34	166.43
2014-09-03							157.88								
2014-12-05							157.88								
2015-02-25															
2015-02-26							154.92								
2015-03-19	165.38	165.44	170.41	163.47	165.44	167.50	154.82	169.79	161.76	169.25	171.51	172.46	168.82	166.54	166.56
2015-06-05	165.55	165.64	170.52	164.06	165.48	167.62	158.28	169.62	163.03	169.30	171.31	172.49	168.83	166.52	166.58
2015-08-04	165.50	165.48	170.46	164.00	165.32	167.34	157.80	169.67	163.54	169.26	171.41	172.52	168.85	166.61	166.59
2015-09-04							157.61								
2015-12-04							157.28								
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23							154.81								
2016-02-29															
2016-03-04	165.48	165.70	170.49	164.00	165.79	169.69	155.47	169.93	160.32	169.43	171.57	172.56	168.90	169.04	166.68
2016-06-03	165.65	165.64	170.50	164.31	166.02	168.61	157.39	169.86	162.19	169.35	171.97	172.82	168.96	169.12	166.77
2016-08-09	165.42	165.33	170.40	164.04	165.73	168.12	157.23	169.82	162.64	169.32	171.90	172.61	168.98	168.85	166.82
2016-09-07							157.48								
2016-12-14							157.48								
2017-03-01	165.62	165.87	170.83	163.88	165.91	169.41	154.26	170.08	160.24	169.51	172.03	172.81	169.05	169.03	166.87
2017-06-01	165.90	165.88	171.09	164.49	166.37	169.11	157.98	170.23	162.43	169.54	172.30	173.10	169.11	169.46	180.54
2017-08-03	165.71	165.72	171.07	164.29	166.08	168.74	157.64	170.16	163.05	169.48	172.26	173.14	169.14	169.28	178.61
2017-09-07							157.53								
2017-12-12							157.23								
2018-03-06	165.66	166.10	171.11	164.09	166.14	170.27	154.89	170.32	161.01	169.58	172.26	173.21	169.25	169.43	181.03
2018-06-05	165.79	165.71	170.91	164.35	166.24	169.00	157.55	170.21	162.93	169.49	172.51	173.36	169.32	169.55	
2018-08-08	165.58	165.57	170.80	164.16	165.97	168.66	157.43	170.12	163.16	169.45	172.22	173.08	169.35	169.49	
2018-09-07							157.49								
2018-12-07							157.54								
2019-03-05	165.73	165.98	171.13	163.74	165.73	168.62	154.30	169.97	163.90	169.34	172.42	173.08	169.44	166.79	
2019-06-11	165.89	165.84	171.09	164.45	166.19	169.52	157.90	170.10	168.88	169.44	172.92	173.27	169.53	169.45	
2019-08-09	165.67	165.63	170.86	164.25	165.99	168.89	157.85	169.98	168.85	169.42	172.90	173.17	169.54	169.38	
2019-09-13							157.69								
2019-12-03							157.87								
2019-12-05															
2020-03-02	165.67	165.98	171.12	164.22	166.29	170.03	154.28	170.17	168.87	169.56	172.59	173.46	169.70	169.66	
2020-06-05	165.76	165.75	170.96	164.39	166.25	169.44	157.17	169.95	168.50	169.49	172.62	173.54	169.76	169.60	
2020-06-08															
2020-08-05	165.61	165.52	170.73	164.20	165.99	168.79	157.41	169.86	168.39	169.44	170.15	172.23	167.88	169.26	

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	61-2	61-3	61-4	63-1	63-2	63-3	67-1	67-2	67-3	67-4	68-1	68-2	68-3	69-1	69-2
Top of Pipe	186.12	186.19	186.35	177.52	176.32	176.11	183.10	183.99	183.02	183.12	183.80	183.67	183.56	183.21	183.24
2020-09-08							157.33								
2020-12-16							157.70								
2020-12-18															
2021-03-08															
2021-03-09	165.51	165.77	170.97	163.82	165.92	169.58	153.89	170.07	164.82	169.53	171.02	173.57	167.91	169.19	
2021-06-15	165.56	165.57	170.48	164.22	165.99	168.76	157.77	169.77	168.93	169.47	171.46	173.40	167.97	169.12	
2021-08-10	165.51	165.54	170.46	164.18	165.89	168.74	157.80	169.95	168.84	169.47	171.50	173.21	168.00	169.12	
2021-09-10							158.05								
2021-12-10							158.05								
2022-03-01	165.65	166.13	171.09	164.15	166.44	170.10	156.00	170.12	167.53	169.60	172.09	173.72	168.10	168.68	
2022-03-23															
2022-06-01	165.77	165.88	170.91	164.30	166.09	168.69	158.08	169.85	168.84	169.36	170.99	173.98	168.15	167.72	
2022-06-03															
2022-08-08	165.63	165.61	170.87	164.20	165.89	168.67	158.09	169.83	168.64	169.39	172.38	173.49	168.18	169.09	
2022-09-01							157.82								
2022-09-02															
2022-12-06							157.99								
2022-12-09															
2023-03-01	165.64	165.86	171.09	164.32	166.30	171.97	154.41	170.39	169.01	169.58	173.31	173.94	168.26	169.49	
2023-06-08	165.74	165.78	170.83	164.38	166.20	168.88	158.11	170.34	168.94	169.52	173.13	173.80	168.32	169.48	
2023-08-14	165.64	165.70	171.00	164.30	165.96	168.81	158.31	170.38	168.68	169.54	173.07	173.72	168.36	169.44	
2023-09-18							158.08								
2023-09-20															
2023-12-19							158.07								
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07	165.55	165.65	170.98	163.61	165.79	168.32	154.32	170.22	168.68	169.34		173.45	168.45	166.77	
2024-04-02															
2024-06-04	170.71	165.72	165.81	164.24	165.94	168.68	158.15	170.32	169.03	169.47				169.12	
2024-06-05											172.70	173.43	168.43		
2024-08-14	165.66	165.85	170.98	164.27	165.93	168.48		161.79	169.25	169.50		173.68	168.54	169.15	
2024-09-04							158.12								
2024-12-16							158.15								
2025-01-15															
2025-02-18															
2025-02-20															
2025-03-03							154.07								
2025-03-05															
2025-03-10	165.57	165.77	171.16	163.88	166.00	170.78		170.45	169.06	169.58		173.19	168.53	169.38	
2025-03-11															
2025-03-25															
2025-04-15															
2025-06-04	165.73	165.82	171.13	164.45	166.24	169.20	158.67		169.11	169.53		174.25	168.66	169.35	
2025-06-11								170.45							
2025-06-19															
2025-06-20															
2025-06-23															
2025-06-24															
2025-06-25															
2025-08-05	165.67	165.57	170.88	164.05	165.86	168.16		170.24	168.82	169.46		173.43		168.94	
2025-09-02															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	61-2	61-3	61-4	63-1	63-2	63-3	67-1	67-2	67-3	67-4	68-1	68-2	68-3	69-1	69-2
Top of Pipe	186.12	186.19	186.35	177.52	176.32	176.11	183.10	183.99	183.02	183.12	183.80	183.67	183.56	183.21	183.24
2025-09-03							157.89								
2025-09-04															
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01					165.58	167.84									
2025-12-01															
2025-12-04							158.05								
2025-12-05															
2026-01-23															
2026-02-24															
2026-02-25							154.64								
2026-02-26															
2026-03-03	165.60	165.55	171.14	163.93	165.93	170.52	154.35	170.37	168.93	169.54		174.28	168.74	169.20	
2026-03-04															
2026-03-05															
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	69-2R	69-3	70-1	70-2	73-1	75-1	75-2	75-3	75-4	75-5	76-1	76-2	76-3	76-4	77-1
Top of Pipe	183.40	183.12	168.84	168.88	184.20	180.80	180.50	180.41	180.69	180.62	180.79	180.87	180.91	180.94	182.56
2009-01-12															
2009-02-13															
2009-03-05															
2009-04-23		172.74	159.32	166.56											
2009-05-22															
2009-06-03		172.71	159.39	166.04											
2009-07-16															
2009-08-12		172.69	159.56	166.35											
2009-09-16															
2009-10-13															
2009-11-12															
2009-12-02															
2010-01-18															
2010-02-04															
2010-03-04															
2010-04-05		172.76	159.37	166.21											
2010-05-05															
2010-06-01		172.70	159.28	165.52											
2010-07-07															
2010-08-08		172.66	159.43	165.46											
2010-09-09															
2010-10-20															
2010-11-09															
2010-12-07															
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04															
2011-04-21		172.75	159.36	166.29											
2011-05-04															
2011-06-06		172.89	159.34	166.33											
2011-06-07					158.43										
2011-07-04															
2011-08-11		172.66	159.43	166.14											
2011-09-07															
2011-09-09					158.43										
2011-10-11															
2011-11-25															
2011-12-04					158.58										
2011-12-05															
2012-01-25															
2012-02-01															
2012-03-01					158.50										
2012-03-02															
2012-04-24		172.77													
2012-06-04		172.70	159.33	165.56											
2012-06-05					158.40										
2012-08-09					158.40										
2012-08-10		172.30	159.23	165.42											
2012-09-17															
2012-09-28					158.46										
2012-12-06															
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	69-2R	69-3	70-1	70-2	73-1	75-1	75-2	75-3	75-4	75-5	76-1	76-2	76-3	76-4	77-1
Top of Pipe	183.40	183.12	168.84	168.88	184.20	180.80	180.50	180.41	180.69	180.62	180.79	180.87	180.91	180.94	182.56
2013-03-08					158.46										
2013-03-12		172.81	159.06	166.55											
2013-06-04					158.28										
2013-06-12		172.69	159.35	165.91											
2013-08-13		172.65	159.35	165.57											
2013-09-12					158.28										
2013-09-20															
2013-12-03					158.42										
2014-02-19															
2014-02-24															
2014-03-07		172.40	156.65	165.18											
2014-03-11					158.65										
2014-06-05		172.49	158.81	165.62	158.74										
2014-08-06		172.37	159.01	165.50											
2014-09-03					158.49										
2014-12-05					158.54										
2015-02-25															
2015-02-26															
2015-03-19		171.65	156.67	165.08	158.63										
2015-06-05		172.37	158.87	165.00	158.60										
2015-08-04		172.33	159.02	164.98											
2015-09-04					158.37										
2015-12-04					158.53										
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04		172.70	156.61	165.21	158.45										
2016-06-03		172.33	158.95	165.06	157.79										
2016-08-09		172.14	158.86	165.05											
2016-09-07					158.43										
2016-12-14					158.47										
2017-03-01		172.58	156.67	165.18	158.76										
2017-06-01		172.53	158.88	165.09	158.76										
2017-08-03		172.36	158.85	165.19											
2017-09-07					158.63										
2017-12-12					158.59										
2018-03-06		172.72	156.65	165.24	157.82										
2018-06-05	166.02	172.59	158.76	163.25	158.72										
2018-08-08	166.01	172.33	158.80	165.14											
2018-09-07					158.56										
2018-12-07					158.81										
2019-03-05	166.00	172.64	156.69	165.13	158.84										
2019-06-11	167.29	172.77	158.73	165.60	158.82										
2019-08-09	167.30	172.29	158.95	165.54											
2019-09-13					158.71										
2019-12-03															
2019-12-05					158.80										
2020-03-02	167.16	172.61	158.68	165.17	158.92										
2020-06-05	167.06	172.42	159.25	165.10											
2020-06-08					158.79										
2020-08-05	166.70	172.30	158.98	165.11											

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	69-2R	69-3	70-1	70-2	73-1	75-1	75-2	75-3	75-4	75-5	76-1	76-2	76-3	76-4	77-1
Top of Pipe	183.40	183.12	168.84	168.88	184.20	180.80	180.50	180.41	180.69	180.62	180.79	180.87	180.91	180.94	182.56
2020-09-08					158.53										
2020-12-16															
2020-12-18					158.72										
2021-03-08					158.82										
2021-03-09	168.83	172.60	158.19	165.11											
2021-06-15	169.14	172.34	159.04	165.42	158.77										
2021-08-10	169.18	172.32	158.85	165.51											
2021-09-10					158.53										
2021-12-10					158.85										
2022-03-01	168.98	172.82	156.65	165.24											
2022-03-23					159.00										
2022-06-01	168.63	172.50	158.82	165.13											
2022-06-03					158.79										
2022-08-08	168.57	172.39	159.08	165.30											
2022-09-01															
2022-09-02					158.89										
2022-12-06															
2022-12-09					158.82										
2023-03-01	168.84	172.82	158.32	165.67	158.98										
2023-06-08	167.66	172.38	158.75	165.03	158.67										
2023-08-14	167.24	172.39	158.77	165.07											
2023-09-18															
2023-09-20					158.63										
2023-12-19					158.97										
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07	165.77	172.37	156.62	165.01	159.00										
2024-04-02															
2024-06-04	166.16	172.39	158.85	164.85											
2024-06-05					159.01										
2024-08-14	165.88	172.40	159.21	164.84											
2024-09-04					158.94										
2024-12-16					158.89										
2025-01-15															
2025-02-18															
2025-02-20															
2025-03-03															
2025-03-05															
2025-03-10	165.40	172.48	156.66	165.43											
2025-03-11					159.14										
2025-03-25															
2025-04-15															
2025-06-04	165.28	172.74	158.94	164.89	159.19										
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23							171.34				163.70	162.02	163.05	172.52	
2025-06-24						154.74		171.84	171.84	171.15					148.61
2025-06-25															
2025-08-05	165.06	172.30	158.77	164.81											
2025-09-02															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	69-2R	69-3	70-1	70-2	73-1	75-1	75-2	75-3	75-4	75-5	76-1	76-2	76-3	76-4	77-1
Top of Pipe	183.40	183.12	168.84	168.88	184.20	180.80	180.50	180.41	180.69	180.62	180.79	180.87	180.91	180.94	182.56
2025-09-03					158.81										
2025-09-04						155.40	170.82	171.52	171.50	170.88	162.87	161.64	164.48	171.73	151.14
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01		172.20													
2025-12-01															
2025-12-04					158.88										
2025-12-05						154.95	170.82	171.12	171.09	170.54	161.93	161.24	165.32	171.55	153.97
2026-01-23															
2026-02-24															
2026-02-25															
2026-02-26															
2026-03-03	164.83	172.50	156.61	165.35											
2026-03-04					159.16										
2026-03-05						155.46	171.20	171.88	171.86	170.69	163.08	162.13	166.19		155.88
2026-03-11															
2026-03-12														173.55	
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	77-2	77-3	77-4	77-5	78-1	78-2	78-3	78-4	78-5	79-1	79-2	79-3	79-4	80-1	80-2
Top of Pipe	182.52	182.50	182.46	182.43	182.90	182.89	182.87	183.00	182.92	183.26	183.29	183.32	183.35	183.04	183.08
2009-01-12															
2009-02-13															
2009-03-05															
2009-04-23															
2009-05-22															
2009-06-03															
2009-07-16															
2009-08-12															
2009-09-16															
2009-10-13															
2009-11-12															
2009-12-02															
2010-01-18															
2010-02-04															
2010-03-04															
2010-04-05															
2010-05-05															
2010-06-01															
2010-07-07															
2010-08-08															
2010-09-09															
2010-10-20															
2010-11-09															
2010-12-07															
2011-01-20															
2011-02-03															
2011-02-16															
2011-03-04															
2011-04-21															
2011-05-04															
2011-06-06															
2011-06-07															
2011-07-04															
2011-08-11															
2011-09-07															
2011-09-09															
2011-10-11															
2011-11-25															
2011-12-04															
2011-12-05															
2012-01-25															
2012-02-01															
2012-03-01															
2012-03-02															
2012-04-24															
2012-06-04															
2012-06-05															
2012-08-09															
2012-08-10															
2012-09-17															
2012-09-28															
2012-12-06															
2013-02-12															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	77-2	77-3	77-4	77-5	78-1	78-2	78-3	78-4	78-5	79-1	79-2	79-3	79-4	80-1	80-2
Top of Pipe	182.52	182.50	182.46	182.43	182.90	182.89	182.87	183.00	182.92	183.26	183.29	183.32	183.35	183.04	183.08
2013-03-08															
2013-03-12															
2013-06-04															
2013-06-12															
2013-08-13															
2013-09-12															
2013-09-20															
2013-12-03															
2014-02-19															
2014-02-24															
2014-03-07															
2014-03-11															
2014-06-05															
2014-08-06															
2014-09-03															
2014-12-05															
2015-02-25															
2015-02-26															
2015-03-19															
2015-06-05															
2015-08-04															
2015-09-04															
2015-12-04															
2016-01-21															
2016-02-09															
2016-02-22															
2016-02-23															
2016-02-29															
2016-03-04															
2016-06-03															
2016-08-09															
2016-09-07															
2016-12-14															
2017-03-01															
2017-06-01															
2017-08-03															
2017-09-07															
2017-12-12															
2018-03-06															
2018-06-05															
2018-08-08															
2018-09-07															
2018-12-07															
2019-03-05															
2019-06-11															
2019-08-09															
2019-09-13															
2019-12-03															
2019-12-05															
2020-03-02															
2020-06-05															
2020-06-08															
2020-08-05															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	77-2	77-3	77-4	77-5	78-1	78-2	78-3	78-4	78-5	79-1	79-2	79-3	79-4	80-1	80-2
Top of Pipe	182.52	182.50	182.46	182.43	182.90	182.89	182.87	183.00	182.92	183.26	183.29	183.32	183.35	183.04	183.08
2020-09-08															
2020-12-16															
2020-12-18															
2021-03-08															
2021-03-09															
2021-06-15															
2021-08-10															
2021-09-10															
2021-12-10															
2022-03-01															
2022-03-23															
2022-06-01															
2022-06-03															
2022-08-08															
2022-09-01															
2022-09-02															
2022-12-06															
2022-12-09															
2023-03-01															
2023-06-08															
2023-08-14															
2023-09-18															
2023-09-20															
2023-12-19															
2024-01-23															
2024-02-08															
2024-03-01															
2024-03-04															
2024-03-07															
2024-04-02															
2024-06-04															
2024-06-05															
2024-08-14															
2024-09-04															
2024-12-16															
2025-01-15															
2025-02-18															
2025-02-20															
2025-03-03															
2025-03-05															
2025-03-10															
2025-03-11															
2025-03-25															
2025-04-15															
2025-06-04															
2025-06-11															
2025-06-19															
2025-06-20															
2025-06-23										158.39	179.84	180.30	180.26	178.54	178.52
2025-06-24	169.63	157.82	170.52	174.48	161.00	161.03	175.20	174.26	174.30						
2025-06-25															
2025-08-05															
2025-09-02															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	77-2	77-3	77-4	77-5	78-1	78-2	78-3	78-4	78-5	79-1	79-2	79-3	79-4	80-1	80-2
Top of Pipe	182.52	182.50	182.46	182.43	182.90	182.89	182.87	183.00	182.92	183.26	183.29	183.32	183.35	183.04	183.08
2025-09-03															
2025-09-04	169.15	159.34	171.42	174.23	160.99	160.55	173.92	174.09	174.12	158.49	180.75	179.24	179.21	177.75	176.34
2025-09-10															
2025-09-22															
2025-09-30															
2025-10-01															
2025-12-01															
2025-12-04															
2025-12-05	168.78	159.84	172.22	174.11	160.68	160.43	173.22	173.63	173.89	158.37	180.01	179.40	179.36	177.80	177.15
2026-01-23															
2026-02-24															
2026-02-25															
2026-02-26															
2026-03-03															
2026-03-04															
2026-03-05	168.67	160.43	172.90	174.77	160.65	159.19	173.41	174.02	174.29	158.23	180.80	180.61	180.55	179.12	176.04
2026-03-11															
2026-03-12															
2026-03-16															

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	80-3	81-1	81-2	81-3	WELL1	WELL2
Top of Pipe	183.07	183.57	183.62	183.67	176.67	179.04
2009-01-12					166.74	168.39
2009-02-13					169.31	169.81
2009-03-05					166.51	168.53
2009-04-23					171.06	172.25
2009-05-22					166.00	168.76
2009-06-03					166.71	168.41
2009-07-16					169.41	170.93
2009-08-12					169.91	169.10
2009-09-16					166.85	168.08
2009-10-13					166.53	167.97
2009-11-12					166.87	168.53
2009-12-02					166.63	168.03
2010-01-18					169.14	169.31
2010-02-04					169.17	169.55
2010-03-04					166.67	168.40
2010-04-05					169.90	170.49
2010-05-05					166.77	168.37
2010-06-01					166.85	168.86
2010-07-07					166.28	168.43
2010-08-08					166.28	168.03
2010-09-09					166.97	168.56
2010-10-20					166.67	168.61
2010-11-09					166.60	168.02
2010-12-07					166.23	168.57
2011-01-20					166.59	168.63
2011-02-03					166.69	168.43
2011-02-16						
2011-03-04					166.41	168.39
2011-04-21					168.82	168.60
2011-05-04					168.89	168.38
2011-06-06					170.32	171.61
2011-06-07						
2011-07-04					167.88	168.71
2011-08-11					169.60	168.45
2011-09-07					169.47	168.45
2011-09-09						
2011-10-11					166.89	168.17
2011-11-25					169.63	170.21
2011-12-04						
2011-12-05					170.48	169.65
2012-01-25					170.11	169.24
2012-02-01						
2012-03-01						
2012-03-02					166.37	168.08
2012-04-24						
2012-06-04					168.30	168.25
2012-06-05						
2012-08-09						
2012-08-10					167.00	168.14
2012-09-17						
2012-09-28						
2012-12-06					166.74	174.85
2013-02-12						

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	80-3	81-1	81-2	81-3	WELL1	WELL2
Top of Pipe	183.07	183.57	183.62	183.67	176.67	179.04
2013-03-08						
2013-03-12					170.55	171.63
2013-06-04						
2013-06-12					166.73	168.29
2013-08-13					166.08	167.96
2013-09-12						
2013-09-20						
2013-12-03					170.29	172.41
2014-02-19						
2014-02-24						
2014-03-07					166.65	168.28
2014-03-11						
2014-06-05					168.94	167.97
2014-08-06					166.41	167.79
2014-09-03						
2014-12-05					168.72	169.28
2015-02-25						
2015-02-26						
2015-03-19					166.44	168.42
2015-06-05					166.78	168.35
2015-08-04					166.82	168.37
2015-09-04						
2015-12-04					167.67	168.51
2016-01-21						
2016-02-09						
2016-02-22						
2016-02-23						
2016-02-29						
2016-03-04					166.52	168.39
2016-06-03					166.64	167.61
2016-08-09					166.93	168.04
2016-09-07						
2016-12-14					168.63	170.23
2017-03-01					166.44	168.17
2017-06-01					166.47	167.68
2017-08-03					168.03	168.24
2017-09-07						
2017-12-12					168.82	169.36
2018-03-06					166.25	171.50
2018-06-05					166.33	169.91
2018-08-08					166.62	170.10
2018-09-07						
2018-12-07					166.46	169.18
2019-03-05					166.21	169.13
2019-06-11					166.01	171.95
2019-08-09					168.65	169.57
2019-09-13						
2019-12-03					166.43	169.50
2019-12-05						
2020-03-02					165.91	168.86
2020-06-05					166.29	173.67
2020-06-08						
2020-08-05					166.22	171.70

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	80-3	81-1	81-2	81-3	WELL1	WELL2
Top of Pipe	183.07	183.57	183.62	183.67	176.67	179.04
2020-09-08						
2020-12-16					169.63	174.19
2020-12-18						
2021-03-08						
2021-03-09					165.95	173.76
2021-06-15					168.74	171.23
2021-08-10					168.84	171.02
2021-09-10						
2021-12-10					169.87	172.88
2022-03-01					167.89	169.20
2022-03-23						
2022-06-01					167.88	171.81
2022-06-03						
2022-08-08					167.45	169.46
2022-09-01						
2022-09-02						
2022-12-06					167.91	169.64
2022-12-09						
2023-03-01					167.88	169.35
2023-06-08					167.82	168.79
2023-08-14					167.82	166.89
2023-09-18						
2023-09-20						
2023-12-19					166.73	166.35
2024-01-23						
2024-02-08						
2024-03-01						
2024-03-04						
2024-03-07					167.82	165.39
2024-04-02						
2024-06-04					166.53	164.51
2024-06-05						
2024-08-14						
2024-09-04						
2024-12-16					166.53	163.83
2025-01-15						
2025-02-18						
2025-02-20						
2025-03-03						
2025-03-05						
2025-03-10					170.17	170.18
2025-03-11						
2025-03-25						
2025-04-15						
2025-06-04					166.53	163.91
2025-06-11						
2025-06-19						
2025-06-20						
2025-06-23	178.61	178.32	178.64	178.61		
2025-06-24						
2025-06-25						
2025-08-05					166.58	163.73
2025-09-02						

Table E-1 - Groundwater Elevations - Monitoring Wells

Date	80-3	81-1	81-2	81-3	WELL1	WELL2
Top of Pipe	183.07	183.57	183.62	183.67	176.67	179.04
2025-09-03						
2025-09-04	177.79	177.64	177.81	177.81		
2025-09-10						
2025-09-22						
2025-09-30						
2025-10-01						
2025-12-01						
2025-12-04					167.91	166.37
2025-12-05	177.86	177.70	177.88	177.89		
2026-01-23						
2026-02-24						
2026-02-25						
2026-02-26						
2026-03-03						
2026-03-04					169.98	169.68
2026-03-05	179.19	179.01	179.18	179.21		
2026-03-11						
2026-03-12						
2026-03-16						

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES1	RES2-1	RES2-2	RES3	RES4-1	RES4-2	RES5	RES6	RES7-1	RES7-2	RES8-1	RES8-2
Top of Pipe	175.83	182.06	184.59	181.5	181.23	181.23	180.66	180.32	177.99	178.53	176.94	176.94
2009-03-18		180.92	180.98	176.25	175.13	175.36	176.47			171.38	171.74	
2009-06-24												
2009-06-25									171.15	171.29	171.62	174.09
2009-06-26		180.64	180.66	176.13	174.92	175.09	175.54	172.31				
2009-09-11		180.25	180.14	175.84	174.66	174.8	175.46		171.11	171.13		
2009-09-17											171.37	174.2
2009-12-01		180.85	180.59	175.99	174.86	175	175.92		170.62	171.63	171.57	175.29
2010-03-23		181.08	181.03	176.33	175.28	175.46	177.37			171.53	171.81	175.57
2010-06-10												
2010-06-11									171.34	171.45	171.81	175.62
2010-06-14		180.71	180.81	176.22	175.08	175.32	175.97					
2010-09-27		179.84	179.09	175	173.97	174.14	174.34			170.86	171.37	174.06
2010-12-16		180.84	180.24	175.61	174.47	174.7	176.19			171.08	171.55	
2011-03-31		181.17	180.9	176.28	175.13	175.28	176.75			171.5	171.92	175.62
2011-06-29		180.71	180.56	176.08	174.92	175.04	175.86		171.4	171.42	171.76	174.97
2011-06-30								171.9				
2011-07-04												
2011-09-13				175.12	173.98	174.15	174.6		170.85	170.9	171.28	173.8
2011-09-19		179.89	179.16									
2011-12-19		180.95	180.9	176.15	174.93	175.06	177.39			171.34	171.9	175.63
2012-03-06		180.89	180.78	176.17	175.05	175.18	176.69			171.47	171.86	
2012-06-29		180.14	180.23	176.11	174.69	174.81	175.54	171.93	171.31	171.32	171.54	174.06
2012-09-05		179.15	178.58	174.78		173.84	174.13		170.67	170.72	171.24	172.85
2012-12-19		181	180.13	175.53	174.27	174.55	176.07		170.81	170.87	171.56	175.56
2013-03-18		180.87	180.74	175.49	174.94	175.09	177.84			171.29	171.88	175.63
2013-07-02												
2013-07-03							177.73		171.27	171.31	171.79	
2013-07-05		180.7	180.58	176.04	174.83	174.97		171.73				
2013-07-08												
2013-07-09												
2013-09-13		180.26	179.81	175.49	174.4	174.52	176.47		171.06	171.1	171.61	
2013-12-27		180.94	180.76	176.15	174.9	175.05	178.56			171.41	171.98	
2014-03-14		180.86	180.39	176.1	174.88	175	176.91			171.43	171.93	
2014-04-22											171.7	
2014-07-22		180.3	180.22	175.84	174.65	174.76	176.84	171.69	171.24	171.26		
2014-08-13												
2014-09-03		180.35	179.81	175.62	174.42	174.52	175.88		171.07	171.21	171.63	
2014-12-05			180.15	175.49	174.25	174.44	175.43		171.11	171.09	171.63	
2015-03-19			180.29	175.65	174.49	174.6	175.56			171.32	171.76	
2015-06-11			180.55	175.92	174.72	174.83	176.2		171.37	171.42	171.85	
2015-06-16								171.86				
2015-06-19												
2015-06-30		180.94										

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES1	RES2-1	RES2-2	RES3	RES4-1	RES4-2	RES5	RES6	RES7-1	RES7-2	RES8-1	RES8-2
Top of Pipe	175.83	182.06	184.59	181.5	181.23	181.23	180.66	180.32	177.99	178.53	176.94	176.94
2015-09-04		179.88	179.53	175.33	180.6	174.3	175.37		171	171.02	171.4	
2015-12-09		180.48	180.35	175.94	174.69	174.8	175.58		171.24	171.27	171.57	
2016-03-30		180.94	180.91	176.33	175.13	175.27	178.41			171.6	171.99	
2016-06-30												
2016-07-04		179.68	179.81	175.66	174.46	174.56	174.81	171.61	171.16	171.21	170.51	
2016-09-07				174.58								
2016-09-27		178.82	178.3			173.66	174.14		171.16	170.65	170.56	
2016-12-14		180.14	178.7	174.53	174.18	173.74	174.23		170.72	170.71	171.16	
2017-03-31		181.19	180.84	176.19	175.29	175.11	178.96			171.47	171.95	
2017-06-27								171.72	171.3	171.32		
2017-06-28			180.33	175.96	175.1	174.9	177.38				171.16	
2017-07-12		180.71										
2017-08-02												
2017-09-22		180.43	179.89	175.59	174.84	174.52	176.41		171.13	171.2	170.76	
2017-12-29		180.79	180.83	176.26			175.42			171.51	172.09	
2018-03-15		180.95	181.06	176.54	175.61		178.19		171.65	171.67	172.14	
2018-06-29		180.46	180.22	175.88	175.02		177.36	171.63	171.2	171.26	170.88	
2018-09-21		180.22	178.93	174.96	174.18		175.11		170.89	170.94	171.44	
2018-12-14		180.86	180.32	175.83	175.06		176.65		171.36	171.28	171.84	
2019-03-08		180.72	180.38	176.07			176.79			171.44	171.89	
2019-04-02					175.39							
2019-07-05		180.66	180.53	176.12	175.32		177.81	172.06	171.43	171.57	171.94	
2019-07-09												
2019-07-10												
2019-09-20		180.77	180.04	175.81	174.88		179.04		171.29	171.32	171.5	
2019-12-20		180.95	180.77	176.27	175.33		178.29			171.58	171.62	
2020-06-30		180.63	180.32	176.04	175.14		177.73	171.98	171.48	171.46	171.83	
2020-08-06												
2020-09-30		179.99	178.23	174.65	173.83		175.17		170.83	170.87	171.43	
2020-12-18		180.71	178.28	174.04	173.46		174.5		170.75	170.8	171.21	
2021-03-19		180.83	180.24	175.61	174.82		176.22		171.35	171.35	171.79	
2021-07-07		180.49	180.14	175.71	174.99		177.19	171.91	171.47	171.43	171.67	
2021-07-13												
2021-10-01		180.78	179.95	175.8	174.92		177.2		171.41	171.39	171.65	
2021-12-31		181.02	180.87	176.38	175.44		179.42			171.78	172.03	
2022-04-04		179.68	180.91	176.44	175.54		179.12		171.27	172.45	172.03	
2022-06-17		180.62	180.61	176.29	175.34		178.2	172.25	171.71	171.73	171.97	
2022-07-20												
2022-09-08				175.69	174.81		176.72		171.39	171.43	171.65	
2022-09-09		180.66	179.86									
2022-12-30		180.99	180.6	176.29	175.34		179.02		171.7	171.69	171.88	
2023-03-27		181.07	181.04	176.52	175.56		179.79			171.91	172.11	
2023-07-13					175.01							

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES1	RES2-1	RES2-2	RES3	RES4-1	RES4-2	RES5	RES6	RES7-1	RES7-2	RES8-1	RES8-2
Top of Pipe	175.83	182.06	184.59	181.5	181.23	181.23	180.66	180.32	177.99	178.53	176.94	176.94
2023-07-14		180.46	180.18	175.9			177.51	172.14	171.39	171.27	171.07	
2023-08-15												
2023-09-29		180.22	179.98	175.88	174.94		177.28		171.47	171.48	171.14	
2023-12-19		181.09	180.69	176.16	175.19		177.84		171.75	171.59	171.87	
2024-03-07		181.05	180.8	176.39	175.49		179.12			171.84	171.96	
2024-06-03		180.57	180.66	176.2	180.95				171.8	171.82	172.02	
2024-06-07								172.38				
2024-09-05		180.58	180.1	175.92	174.93		177.78		171.5	171.52	171.78	
2024-12-16		181.12	180.41	175.89	174.9		177.44		176.96			
2025-03-04		180.99	180.7	176.17	175.16		177.54		171.67	171.7	171.91	
2025-06-05		180.74	180.63	176.25	175.32		178.57	172.4	171.83	171.85	172.06	
2025-09-04		179.77	179.28	175.32					171.08	171.19	171.23	
2025-09-25					174.35							
2025-12-04		180.72	179.5	175.01					171.12	171.14	171.59	
2025-12-05					174.11							
2026-03-06				176.11	175.15				171.21	172.24	171.92	
2026-04-17												
2026-04-24												

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES9	RES11	RES13-2	RES14	RES17	RES19-1	RES19-2	RES21	RES22	Thorold Public Works Yard
Top of Pipe	179.48	181.57	190.8	179.95	162.12	159.72	160.29	179.34	178.54	179.02
2009-03-18								174.39	174.33	
2009-06-24			183.11	174.65						
2009-06-25	172.5				154.82	153.64	153.38	172.93	172.88	
2009-06-26										
2009-09-11										
2009-09-17										
2009-12-01										
2010-03-23										
2010-06-10			183.01	176.5						
2010-06-11	173.94							173.98	173.81	
2010-06-14		179.43			154.85	153.79	153.42			
2010-09-27										
2010-12-16										
2011-03-31										
2011-06-29					154.89	153.63	153.53	174.04	173.97	
2011-06-30	173.73			175.9						
2011-07-04		179.04	182.84							
2011-09-13										
2011-09-19										
2011-12-19										
2012-03-06										
2012-06-29	173		182.91	176.09	154.74	153.67	153.62	174	173.94	
2012-09-05										
2012-12-19										
2013-03-18										
2013-07-02		179.32		176.41						
2013-07-03			183.51					173.75		
2013-07-05										
2013-07-08					154.71					
2013-07-09						153.8	153.53			
2013-09-13										
2013-12-27										
2014-03-14										
2014-04-22										
2014-07-22	172.52	178.19		175.74	154.83	153.24	153.25	172.86		
2014-08-13			183.12							
2014-09-03										
2014-12-05										
2015-03-19										
2015-06-11								173.99		
2015-06-16			183.38	176.79	153.39	153.88	153.2			
2015-06-19		179.17								
2015-06-30										

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES9	RES11	RES13-2	RES14	RES17	RES19-1	RES19-2	RES21	RES22	Thorold Public Works Yard
Top of Pipe	179.48	181.57	190.8	179.95	162.12	159.72	160.29	179.34	178.54	179.02
2015-09-04										
2015-12-09										
2016-03-30										
2016-06-30			181.93	175.92						
2016-07-04		178.4			152.23	152.7	152.93	171.83		
2016-09-07										
2016-09-27										
2016-12-14										
2017-03-31										
2017-06-27										
2017-06-28			183.32	176.55	154.89	153.5	153.25	172.5		
2017-07-12	171.21									
2017-08-02		179.57								
2017-09-22										
2017-12-29										
2018-03-15										
2018-06-29		178.29	182.12	176.05	154.5	153.17	153.32	171.35		
2018-09-21										
2018-12-14										
2019-03-08										
2019-04-02										
2019-07-05				176.18	156.05	153.73	153.53	173.31		
2019-07-09		178.89								
2019-07-10			182.71							
2019-09-20										
2019-12-20										
2020-06-30		178.22	178.19	175.9	154.41	153.21	153.25	173.2		
2020-08-06			181.52							
2020-09-30										
2020-12-18										
2021-03-19										
2021-07-07		178.61						171.42		
2021-07-13			182.09	175.87	154.64	152.84	152.49			
2021-10-01										
2021-12-31										
2022-04-04										
2022-06-17			182.57		154.87	153.75	153.48	173.57		
2022-07-20		178.77								
2022-09-08										
2022-09-09										
2022-12-30										
2023-03-27										
2023-07-13		178.37	175.77	175.65	154.18	152.99	152.81			

Table E-2 - Groundwater Elevations - Residential Wells

Date	RES9	RES11	RES13-2	RES14	RES17	RES19-1	RES19-2	RES21	RES22	Thorold Public Works Yard
Top of Pipe	179.48	181.57	190.8	179.95	162.12	159.72	160.29	179.34	178.54	179.02
2023-07-14								173.13		
2023-08-15			182.57							
2023-09-29										
2023-12-19										
2024-03-07										
2024-06-03										
2024-06-07		179.27	182.57		154.8	153.75	153.47			
2024-09-05										
2024-12-16										
2025-03-04										
2025-06-05					154.81	154.13	153.85	173.85		
2025-09-04										
2025-09-25										
2025-12-04										
2025-12-05										
2026-03-06										
2026-04-17										168.85
2026-04-24			183.29	176.54						

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MHC2A	MHC2B	MHC2G	MM1-1	MM1-2	MM1-3	MM2-1	MM2-2	MM2-3	MM3-1	MM3-2
Top of Pipe	182.16	190.15	185.32	185.30	185.30	185.30	184.48	184.48	184.48	182.08	182.08
2009-01-12				157.93	159.70	165.83	158.25	158.18	165.50	157.84	158.22
2009-02-13	157.78	157.80		158.23	159.69	164.93	158.52	158.36	164.99	158.07	158.37
2009-03-05				157.91	159.70	165.41	158.20	158.12	165.43	157.78	158.12
2009-03-06			156.87								
2009-04-23				158.01	159.69	166.11	158.15	158.08	166.23	157.74	158.07
2009-05-22				157.81	159.70	166.25	158.00	157.93	166.41	157.59	157.91
2009-06-03				158.05	159.70	166.03	158.35	158.32	166.35	157.95	158.30
2009-06-04	157.91										
2009-06-22			156.36								
2009-07-16	158.40	158.41		158.84	159.69	165.29	158.82	158.84	165.40	158.39	158.79
2009-08-12	158.39	158.42		158.86	159.70	165.48	158.86	158.84	165.80	158.42	158.85
2009-09-11	158.39	158.36									
2009-09-16				158.79	159.69	164.39	158.77	158.80	165.43	158.30	158.74
2009-10-13	158.38	158.38	156.29	158.79	159.69		158.75	158.79	164.08	158.32	158.73
2009-11-12	158.38	158.39	156.30	158.78	159.68	162.94	158.76	158.79	164.28	158.32	158.73
2009-12-02	158.37	158.39	156.40	158.78	159.68		158.74	158.76	163.84	158.29	158.71
2010-01-18	158.41	158.44	156.37	158.83	159.68	165.28	158.77	158.81	167.26	158.38	158.76
2010-02-04	158.46	158.48	156.38	158.90	159.68	163.72	158.80	158.87	165.79	158.42	158.82
2010-03-04	158.44	158.45	156.36	158.86	159.69		158.80	158.82	165.75	158.35	158.79
2010-04-05	157.86		155.78	158.33	159.70	166.56	158.32	158.30	166.73	157.92	158.30
2010-05-05			155.35	157.99	159.70	165.70	158.16	158.18	166.18	157.78	158.20
2010-06-01	157.59			157.94	159.71	163.96	158.26	158.25	165.26	157.86	158.35
2010-07-07				157.93	158.82	162.79	158.26	158.26	164.15	157.90	158.32
2010-07-14	157.76		155.07								
2010-08-08				157.77	159.72	163.03	157.77	157.99	164.26	157.44	157.75
2010-09-09				157.73	159.72	163.64	157.72	157.69	164.48	157.39	157.67
2010-10-20				157.69	159.71	163.09	157.67	157.65	164.12	157.32	157.59
2010-11-09				157.68	159.71	164.30	157.75	157.65	164.65	157.67	157.59
2010-12-07				157.94	159.71	163.72	158.26	158.24	164.18	157.91	158.34
2010-12-09	157.66		155.06								
2011-01-20	157.70	159.75	150.81	157.99	159.65	162.85	158.29	158.25	163.78	157.99	158.37
2011-02-03				157.98	159.71	162.73	158.31	158.27	163.84	158.00	158.37
2011-02-04	157.73		155.09								
2011-03-04				158.11	159.71	165.29	158.28	158.26	165.06	158.01	158.37
2011-03-22	157.68	153.35									
2011-04-21				158.13	159.73	165.57	158.35	158.27	165.53	158.00	158.40
2011-04-27	157.71	157.74	155.52								
2011-05-04				158.08	159.72	165.34	158.27	158.24	165.67	157.96	158.30
2011-05-11	157.64		155.01								
2011-06-06				158.08	159.72	165.84	158.34	158.29	166.12	158.00	158.38

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MHC2A	MHC2B	MHC2G	MM1-1	MM1-2	MM1-3	MM2-1	MM2-2	MM2-3	MM3-1	MM3-2
Top of Pipe	182.16	190.15	185.32	185.30	185.30	185.30	184.48	184.48	184.48	182.08	182.08
2011-06-07	157.68	153.11	155.02								
2011-07-04				158.30	159.59	165.67	158.39	158.32	166.15	158.12	158.36
2011-07-05	157.86	157.87	155.79								
2011-08-11	157.69		155.09	158.05	159.73	164.48	158.32	158.30	165.25	157.97	158.27
2011-09-07				157.99	159.72	164.34	158.24	158.24	165.19	157.97	158.26
2011-09-09	157.69		155.07								
2011-10-11				157.98	159.72	164.92	158.24	158.22	165.44	157.98	158.24
2011-10-12	157.89	153.28	154.87								
2011-11-25	157.68		155.18	158.00	159.72	165.51	158.29	158.24	165.80	158.02	158.30
2011-12-04	157.72	157.78	155.13								
2011-12-05				158.03	159.72	165.03	158.30	158.26	165.66	158.02	158.34
2012-01-25	151.13	166.10		158.59	159.72	165.80	158.61	158.53	166.02	158.36	158.60
2012-03-01	160.22	158.21	158.06								
2012-03-02				158.70	159.74	166.15	158.74	158.69	166.51	158.44	158.71
2012-04-24			157.07								
2012-06-04				158.19	159.76	166.37	158.32	158.29	166.68	158.10	158.34
2012-06-05	160.82	165.85	157.86								
2012-08-09	161.74		157.00								
2012-08-10				158.25	159.73	166.10	158.40	158.32	166.56	158.15	158.40
2012-09-17				157.91	159.73	166.21	158.30	158.26	166.45	158.01	158.31
2012-09-28	162.72		156.91								
2012-12-06				157.89	159.73	166.86	157.24	158.23	166.93	158.00	158.28
2012-12-12			157.00								
2013-03-08	158.09	158.08	158.08								
2013-03-12				158.79	159.79	167.43	158.87	158.79	167.58	158.58	158.83
2013-06-04	157.93		157.87								
2013-06-12				158.28	159.74	165.89	158.45	158.37	166.54	158.19	158.45
2013-09-12	157.99		158.02								
2013-09-20				158.70	159.73	164.14	158.81	158.74	165.45	158.53	158.77
2013-12-03	158.23	158.23	158.26	158.71	159.73	163.84	158.82	158.73	164.74	158.52	158.76
2014-03-07	158.22	158.23	158.26	154.30	159.30		158.17	158.08	165.47	157.59	157.82
2014-06-05	158.27	158.27	158.30	158.35	159.29	163.31	158.34	158.27	164.36	157.77	158.00
2014-09-03	157.80		157.08	157.53	159.25		157.83	157.78	163.09	157.29	157.56
2014-12-05	157.83		157.06	157.49	159.28	163.31	157.88	157.83	163.71	157.30	157.59
2015-03-19	157.84			154.00	159.32		157.98	157.93	163.08	157.40	157.67
2015-06-05	157.86		157.07	153.94	159.28		157.94	157.89	162.97	157.36	157.64
2015-09-04	157.85		157.03	158.01	159.78	164.15	158.07	158.05	164.22	157.63	157.93
2015-12-04	158.01	158.00	158.05	158.01	159.27	162.66	158.08	158.00	163.46	157.48	157.72
2016-03-04	157.84		157.62	154.15	159.29	162.70	157.90	157.85	164.51	157.32	157.59
2016-06-03	157.81		157.07	157.62	159.27		157.81	157.79	163.33	157.23	157.48

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MHC2A	MHC2B	MHC2G	MM1-1	MM1-2	MM1-3	MM2-1	MM2-2	MM2-3	MM3-1	MM3-2
Top of Pipe	182.16	190.15	185.32	185.30	185.30	185.30	184.48	184.48	184.48	182.08	182.08
2016-09-07	157.86		157.08	157.47	159.30		157.88	157.86	163.24	157.30	157.58
2016-12-14	157.86		157.42	157.52	159.28	162.45	157.90	157.88	163.23	157.33	157.58
2017-03-01	158.30		158.34	153.97	159.29	162.41	158.44	158.31	162.96	157.77	158.01
2017-06-01				154.32	159.31	162.85	158.38	158.32	164.77	157.79	158.01
2017-06-14	158.32	158.32	158.36								
2017-09-07	158.25	158.25	158.27	154.59	159.27	163.45	158.30	158.24	164.03	157.73	157.93
2017-12-12	158.33	158.32	158.33	153.94	159.16	162.75	158.38	158.32	164.04	157.80	158.00
2018-03-06	158.58	158.57	158.59	154.12	159.32		158.64	158.58	164.48	158.03	158.26
2018-06-05	158.41	160.56	158.42	154.20	159.29		158.47	158.39	162.99	157.87	158.07
2018-09-07	158.29	158.28	158.31	155.30	159.29		158.34	158.28	162.90	157.75	157.94
2018-12-07	158.62	158.61	158.64	154.22	159.28	162.40	158.66	158.60	162.65	158.06	158.28
2019-03-05	158.63		158.65	158.64	159.31	162.70	158.67	158.61	163.18	158.05	158.28
2019-06-11	158.73	158.73	158.76	154.21	159.31	163.19	158.79	158.72	163.53	158.24	158.40
2019-09-13	158.52	158.52	158.54	158.55	159.30	163.71	158.58	158.52	164.32	157.97	158.18
2019-12-03				154.21	159.30	162.32	158.67	158.63	162.85	158.04	158.27
2019-12-05	158.62	158.62	158.66								
2020-03-02				154.09	159.31	162.66	158.89	158.83	163.92	158.25	158.48
2020-03-11	158.85	158.84	158.88								
2020-06-05				154.10	159.30	162.44	158.59	158.52	163.00	157.99	158.20
2020-06-08	158.54	158.53	158.58								
2020-09-08	158.30	158.31	158.33	155.06	159.29		158.36	158.29	163.09	157.77	157.94
2020-12-16				158.66	159.31	163.88	158.75	158.69	164.09	158.13	158.32
2020-12-18	158.62	158.61	158.64								
2021-03-09	158.74	158.65	158.76	153.91	159.32		158.71	158.71	164.55	158.19	158.38
2021-06-15	158.50		158.60	154.47	159.31	162.42	158.67	158.59	163.18	158.05	158.24
2021-09-10	157.81		157.08	154.75	159.32	162.62	158.59	158.64	163.82	158.10	158.30
2021-12-10	158.64	158.64	158.68	154.75	159.32	162.62	158.59	158.64	163.82	158.10	158.30
2022-03-01				154.11	159.35	166.31	158.98	158.90	166.32	158.31	158.56
2022-03-23	158.92	158.90	158.93								
2022-06-01				153.99	159.34	165.23	158.36	158.67	165.84	158.12	158.33
2022-06-02	158.67	158.68									
2022-06-03			158.48								
2022-09-01				155.07	159.32	165.01	158.50	158.39	165.31	157.89	158.08
2022-09-02	158.44	158.47	158.48								
2022-12-06				158.68	159.31	162.76	158.78	158.72	163.53	158.15	158.35
2022-12-09	158.73	158.70	158.74								
2023-03-01				154.10	159.32	163.59	159.07	159.02	164.29	158.43	158.67
2023-03-16	159.04		159.07								
2023-04-10		159.13									
2023-06-08	158.38	158.76	158.47	154.12	159.31	162.93	158.52	158.43	164.50	157.95	158.09

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MHC2A	MHC2B	MHC2G	MM1-1	MM1-2	MM1-3	MM2-1	MM2-2	MM2-3	MM3-1	MM3-2
Top of Pipe	182.16	190.15	185.32	185.30	185.30	185.30	184.48	184.48	184.48	182.08	182.08
2023-09-18				154.63	159.28	162.43	157.93	157.80	163.03	157.72	157.52
2023-09-20	157.80	157.80	157.70								
2023-12-19	158.66	158.62	158.67	154.81	159.80		158.91	158.88	163.84	158.47	158.64
2024-03-07	158.74	158.72	158.75	154.56	159.81	162.63	158.94	158.91	164.28	158.81	158.85
2024-06-03			158.72	159.89	159.49	162.92	158.91	158.89	163.34	158.52	158.77
2024-06-04	158.68	158.48									
2024-09-04	157.79		157.51	154.79	159.74		158.05	157.98			157.85
2024-10-30											
2024-12-16	158.52	158.44	158.31	154.53	159.74	162.86	158.71	158.71	163.12		158.51
2025-03-11	158.97			155.28	159.79	165.04	159.11	159.17	164.54		158.85
2025-03-13			159.00								
2025-03-26		159.01									
2025-06-04	159.00		159.06	154.52	159.81	165.32	159.15	159.20	165.41		159.00
2025-06-20		158.73									
2025-07-23			158.58								
2025-08-26			158.49								
2025-09-18	158.39	158.57	157.35								
2025-09-25				154.80	159.75	162.98	158.57	158.59	163.72		158.38
2025-10-22			158.41								
2025-11-06			158.88								
2025-11-24			158.62								
2025-12-04	158.55										
2025-12-08				154.45	159.77	162.84	158.72	158.73	163.25		158.52
2025-12-11		158.53									
2025-12-15			158.48								
2026-01-26			158.94								
2026-02-24			158.96								
2026-03-05	159.04	159.17		154.51	159.79	164.39	159.11	159.16	164.99	158.75	159.04
2026-03-09			159.14								

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MM3-W	MM4-1	MM4-2	MM4-3
Top of Pipe	182.08	193.71	193.71	193.71
2009-01-12		158.02	158.82	165.65
2009-02-13		158.14	158.9	165.51
2009-03-05		158.01	158.89	165.61
2009-03-06				
2009-04-23	163.96	158.09	158.96	165.97
2009-05-22	164.00	157.97	158.91	166.09
2009-06-03	164.04	158.40	159.03	166.17
2009-06-04				
2009-06-22				
2009-07-16	164.06	158.95	159.32	165.39
2009-08-12	164.03	159.01	159.39	165.74
2009-09-11				
2009-09-16	164.10	158.95	159.34	165.64
2009-10-13	164.04	158.97	159.28	164.28
2009-11-12	164.03	158.96	159.26	164.38
2009-12-02	164.02	158.95	159.23	164.41
2010-01-18	163.98	159.01	159.36	165.17
2010-02-04	163.98	159.05	159.43	166.05
2010-03-04	163.99	158.99	159.38	166.34
2010-04-05	164.08	158.44	159.11	166.57
2010-05-05	164.08	158.09	158.95	166.63
2010-06-01	164.09	158.06	158.92	165.27
2010-07-07	164.07			
2010-07-14				
2010-08-08	164.08		158.77	164.63
2010-09-09	164.07		158.71	165.03
2010-10-20	164.03		158.71	164.81
2010-11-09	164.03		158.69	165.30
2010-12-07	163.99			
2010-12-09				
2011-01-20	163.95			
2011-02-03	163.95			
2011-02-04				
2011-03-04	163.84	158.14	159.12	168.46
2011-03-22				
2011-04-21	163.78	158.16	159.20	172.98
2011-04-27				
2011-05-04	163.77	159.21	158.14	173.09
2011-05-11				
2011-06-06	163.84	158.16	159.21	172.90

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MM3-W	MM4-1	MM4-2	MM4-3
Top of Pipe	182.08	193.71	193.71	193.71
2011-06-07				
2011-07-04	163.88	158.48	159.26	168.84
2011-07-05				
2011-08-11	163.90	158.15	159.04	165.98
2011-09-07	163.87	158.15	158.98	165.98
2011-09-09				
2011-10-11	163.86	158.13	158.95	166.30
2011-10-12				
2011-11-25	163.79	158.16	159.00	166.78
2011-12-04				
2011-12-05		158.17	159.01	166.71
2012-01-25	163.76	158.74	159.43	167.27
2012-03-01				
2012-03-02	163.84	158.85	159.54	168.08
2012-04-24				
2012-06-04	164.05			167.76
2012-06-05				
2012-08-09				
2012-08-10	164.06	158.45	159.23	167.29
2012-09-17	164.10	158.09	158.94	167.33
2012-09-28				
2012-12-06	164.14	158.07	159.03	167.98
2012-12-12				
2013-03-08				
2013-03-12	164.31	158.95	159.63	168.18
2013-06-04				
2013-06-12	164.56	158.48	159.30	167.21
2013-09-12				
2013-09-20	164.60	159.37	158.89	165.59
2013-12-03	164.57	158.88	159.43	165.14
2014-03-07	163.68	157.96	158.59	165.81
2014-06-05	163.66	158.16	158.78	164.30
2014-09-03	163.62	157.35	158.27	164.07
2014-12-05	163.55	157.39	158.20	164.29
2015-03-19	163.45	157.46	157.24	166.61
2015-06-05	163.40	157.43	158.26	164.41
2015-09-04	163.36	157.79	158.53	164.65
2015-12-04	163.36	157.90	158.37	164.27
2016-03-04	163.30	157.52	158.33	164.64
2016-06-03	163.27	157.46	158.31	164.03

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MM3-W	MM4-1	MM4-2	MM4-3
Top of Pipe	182.08	193.71	193.71	193.71
2016-09-07	163.27	157.34	158.09	163.93
2016-12-14	163.22	157.39	158.09	163.90
2017-03-01	163.17	158.18	158.61	163.87
2017-06-01	163.18	158.21	158.77	164.57
2017-06-14				
2017-09-07	163.18	158.14	158.59	163.99
2017-12-12	163.14	158.24	158.63	164.12
2018-03-06	163.11	158.46	158.94	164.56
2018-06-05	162.68	158.28	158.78	164.17
2018-09-07	162.28	158.18	158.59	164.36
2018-12-07		158.49	158.79	164.30
2019-03-05		158.48	158.87	164.31
2019-06-11		158.61	159.41	164.35
2019-09-13	163.09	159.08	158.74	165.01
2019-12-03		162.00	158.81	164.48
2019-12-05				
2020-03-02			159.08	165.20
2020-03-11				
2020-06-05			158.86	165.38
2020-06-08				
2020-09-08			158.91	165.33
2020-12-16				166.63
2020-12-18				
2021-03-09			158.93	165.93
2021-06-15			158.84	164.75
2021-09-10			158.92	164.74
2021-12-10			158.92	164.74
2022-03-01	163.26		159.19	167.43
2022-03-23				
2022-06-01	163.49		158.96	167.09
2022-06-02				
2022-06-03				
2022-09-01	163.66		158.69	166.38
2022-09-02				
2022-12-06	163.55		158.84	164.48
2022-12-09				
2023-03-01	163.43		159.23	165.31
2023-03-16				
2023-04-10				
2023-06-08	163.50		158.75	165.00

Table E-3 - Groundwater Elevations - GWCS and Sub-Liner Monitors

Date	MM3-W	MM4-1	MM4-2	MM4-3
Top of Pipe	182.08	193.71	193.71	193.71
2023-09-18	163.50		158.26	164.48
2023-09-20				
2023-12-19	163.39		159.23	165.03
2024-03-07	163.22		159.35	165.34
2024-06-03	163.29		159.38	165.15
2024-06-04				
2024-09-04				
2024-10-30			158.43	
2024-12-16			158.96	165.18
2025-03-11			159.42	166.28
2025-03-13				
2025-03-26				
2025-06-04			159.48	166.53
2025-06-20				
2025-07-23				
2025-08-26				
2025-09-18				
2025-09-25			158.96	165.08
2025-10-22				
2025-11-06				
2025-11-24				
2025-12-04				
2025-12-08			159.05	165.01
2025-12-11				
2025-12-15				
2026-01-26				
2026-02-24				
2026-03-05			159.53	166.63
2026-03-09				

Table E-4 - Groundwater Elevations Summary Table

Well	Formation	Notes (slow recovery, quarry drawdown)	Winter (Dec-Feb)			Spring (Mar-May)			Summer (Jun-Aug)			Autumn (Sep-Nov)		
			Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N
Res2-1			180.84	0.24	16	180.88	0.34	15	180.54	0.28	17	180.11	0.52	17
Res2-2			180.24	0.73	17	180.75	0.27	16	180.41	0.25	17	179.45	0.62	17
Res3		2m drawdown from South Quarry pre-2009	175.74	0.64	17	176.16	0.30	17	176.02	0.18	17	175.38	0.44	17
Res4-1		2m drawdown from South Quarry pre-2009	174.71	0.53	16	175.18	0.29	17	175.32	1.43	17	174.91	1.56	15
Res5			176.75	1.54	16	177.61	1.18	16	176.89	1.06	16	175.94	1.37	16
Res6					0			0	171.97	0.26	16			0
Res7-1			171.65	1.72	11	171.43	0.19	5	171.40	0.20	17	171.12	0.24	16
Res7-2		2m drawdown from South Quarry pre-2009	171.30	0.32	16	171.62	0.31	17	171.43	0.19	17	171.11	0.26	17
Res8-1		1m drawdown from South Quarry pre-2009	171.69	0.26	16	171.91	0.12	18	171.59	0.44	16	171.36	0.31	17
Res11					0			0	178.82	0.46	14			0
Res13-2			182.45	0.97	360	183.91	0.28	218	182.07	1.91	18	180.88	0.45	263
Res14			175.92	0.56	360	176.82	0.31	218	176.01	0.50	14	175.35	0.38	263
Res17					0			0	154.57	0.76	17			0
Res19-1					0			0	153.50	0.39	17			0
Res19-2					0			0	153.31	0.32	17			0
Res21					0	174.39		1	173.11	0.88	16			0
Thorold Works Yard		Periodically pumped for brine production	172.58	0.47	360	172.03	1.70	190			0	172.04	0.75	235

Table E-4 - Groundwater Elevations Summary Table

Well	Formation	Notes (slow recovery, quarry drawdown)	Winter (Dec-Feb)			Spring (Mar-May)			Summer (Jun-Aug)			Autumn (Sep-Nov)		
			Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N
3-1	Rochester		169.11	0.73	23	169.70	0.76	25	169.22	0.61	37	169.18	1.08	9
3-2	Lockport		170.85	0.40	23	171.14	0.37	25	170.94	0.32	37	170.78	0.15	9
3-4	Overburden		176.50	1.01	21	176.40	1.26	22	176.22	1.35	34	175.50	0.66	9
3-5	Overburden		178.79	0.65	23	179.23	0.46	25	178.40	0.84	37	177.47	0.81	9
4-1	Rochester		168.54	0.84	23	169.24	0.94	24	168.58	0.78	37	168.28	0.53	9
4-2	Lockport		168.93	0.93	23	169.64	1.03	22	169.16	0.63	37	168.72	0.59	9
4-4	Overburden		174.86	1.03	23	175.82	1.09	24	175.31	0.86	37	173.98	0.52	9
7-1R	Rochester		167.22	0.46	24	167.66	1.05	25	167.48	0.44	37	167.28	0.40	9
7-2	Lockport		172.64	0.30	24	172.65	0.28	25	172.71	0.34	37	172.54	0.05	9
7-3R	Overburden		173.20	0.07	32	173.34	0.58	28	173.24	0.08	37	173.14	0.01	9
14-1	Rochester		162.72	0.03	3	171.38	7.08	5	164.64	4.61	7	161.01	1.85	3
14-1R	Rochester		163.01	0.14	14	163.07	0.13	14	163.05	0.29	27	163.02	0.15	14
14-2	Lockport		167.29	0.41	17	167.36	0.52	21	167.59	0.66	33	167.45	0.53	17
14-3	Lockport		173.01	0.35	10	173.44	0.30	10	173.45	0.96	21			0
14-4	Overburden				0	180.82	0.01	5	180.83	0.04	4	180.83	0.01	3
14-5	Lockport		168.31	0.46	17	168.19	0.11	20	168.22	0.26	29	168.00	0.50	3
15-1R	Rochester		158.52	1.38	28	158.28	0.92	29	158.34	0.82	27	158.20	0.85	27
15-2	Lockport		164.65	4.96	17	165.27	4.89	15	164.28	4.16	16	164.10	4.06	17
15-3	Lockport		165.48	0.48	17	165.41	0.61	17	165.46	0.44	17	165.53	0.44	16
15-4	Overburden		169.75	0.53	17	169.60	0.24	16	169.41	0.67	17	169.78	0.49	15
15-5	Decew		158.73	0.21	17	159.02	0.75	18	158.78	0.24	17	158.58	0.22	17
16-1	Rochester		160.22	0.44	17	160.38	0.44	18	160.39	0.62	17	160.22	0.25	16
16-2	Lockport		164.02	0.02	2	164.14	0.00	1	165.09	2.73	15	164.10	0.05	2
16-3	Lockport		167.56	0.14	17	167.57	0.14	18	167.60	0.12	17	167.69	1.26	17
16-4	Overburden		171.55	0.16	15	171.70	0.45	14	171.78	0.52	15	171.54	0.10	14
17-1R	Rochester - Upper		160.58	0.51	17	161.15	0.79	15	160.82	0.60	17	160.54	0.43	17
17-2	Gasport - Lower		168.69	0.57	17	169.20	0.85	18	169.11	0.46	17	168.85	0.54	17
17-3	Goat Island / Gasport		175.07	0.15	17	175.09	0.22	18	175.10	0.12	17	175.06	0.20	17
17-4	Overburden		178.28	0.00	1	179.54	0.72	4	178.50	0.04	4	178.29	0.02	2
17-5	Overburden		168.67	0.59	15	168.93	0.57	14	169.11	0.48	16	168.75	0.51	15
18-1	Rochester		155.92	0.77	12	156.48	1.77	15	157.58	3.77	14	156.30	2.08	14
18-2	Lockport		169.77	0.36	15	170.05	0.49	18	170.17	0.27	17	169.91	0.29	17
18-3	Lockport		169.79	0.35	15	170.20	0.33	18	170.29	0.32	17	169.91	0.28	17
18-4	Overburden		176.84	0.33	8	176.95	0.38	12	177.04	0.40	10	176.73	0.38	7
19-1	Rochester	Slow recovery												
19-1R	Rochester	Slow recovery												
19-1R2	Rochester - Mid	Slow recovery												
19-2R	Decew		171.74	3.21	17	172.57	2.59	18	172.08	2.53	17	171.58	3.14	17
19-3R	Gasport - Lower		172.80	1.38	16	173.59	1.27	18	173.44	1.39	17	172.39	1.67	17
19-4R	Overburden		179.79	1.06	17	181.11	0.79	15	180.69	0.67	17	178.56	1.08	15
22-1	Rochester		169.73	0.43	15	169.21	0.27	7	169.68	0.41	21	169.15	0.27	3
22-2	Lockport		173.19	0.22	3	173.32	0.11	7	173.62	0.56	21	173.15	0.27	3
22-3	Lockport		174.07	0.39	16	174.47	0.40	20	174.09	0.49	34	173.94	0.26	16
22-4	Overburden		175.92	0.08	15	175.98	0.12	20	175.93	0.08	34	175.97	0.02	2
23-1R	Rochester - Mid		166.35	0.60	15	167.16	0.77	17	167.30	0.77	16	166.29	0.62	16
24-1	Rochester - Mid		167.39	0.25	17	167.44	0.21	18	167.49	0.19	16	167.44	0.29	17

Table E-4 - Groundwater Elevations Summary Table

Well	Formation	Notes (slow recovery, quarry drawdown)	Winter (Dec-Feb)			Spring (Mar-May)			Summer (Jun-Aug)			Autumn (Sep-Nov)		
			Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N
24-4	Overburden		175.76	0.03	15	175.79	0.04	15	175.76	0.06	16	175.76	0.04	13
26-1R	Irondequoit		156.94	1.15	30	156.10	1.11	25	157.79	0.70	24	157.71	0.39	23
26-2R	Rochester		159.59	0.10	11	159.64	0.17	10	159.75	0.21	24	159.58	0.06	10
26-4R	Rochester		165.02	0.16	24	165.11	0.22	24	165.00	0.23	37	164.93	0.08	23
32-1R	Lockport		169.17	0.25	17	169.30	0.18	18	169.23	0.18	17	169.06	0.25	17
32-2R	Lockport		169.22	0.21	17	169.31	0.19	18	169.22	0.18	17	169.12	0.23	17
36-2R	Waste													
39-1	Irondequoit		157.57	1.41	20	155.61	2.45	15	158.41	0.90	15	158.52	1.57	15
39-2	Lockport	Slight Drawdown	163.49	0.58	15	163.34	0.22	14	163.35	0.21	16	163.31	0.22	13
40-1R	Irondequoit		159.58	1.96	23	157.61	4.24	18	159.95	1.42	16	159.94	1.55	16
40-2R	Gasport - Lower		170.49	0.13	15	170.83	2.45	17	170.45	0.15	15	170.42	0.11	12
42-1	Rochester		162.81	0.88	22	162.94	1.08	21	162.77	0.89	34	162.86	0.34	9
42-2	Decew		168.59	0.76	24	168.91	0.85	24	168.13	0.81	37	167.92	0.80	9
45-1	Rochester		163.07	0.16	23	163.08	0.15	24	163.02	0.38	24	163.08	0.15	23
45-2	Rochester		163.09	0.18	23	163.10	0.18	24	163.10	0.17	24	163.09	0.18	23
46-1R	Rochester - Upper	Slow recovery												
46-2	Gasport - Lower	At least 4m drawdown since 2000	164.06	0.78	7	168.17	1.33	8	166.40	1.78	7	164.21	0.73	7
46-3R	Lockport	4m drawdown since 2000	170.59	0.25	11	170.81	0.30	11	170.78	0.25	11	170.43	0.32	11
46-4	Overburden		173.40	0.24	11	173.78	0.57	17	173.53	0.33	16	173.20	0.17	7
47-1R	Rochester - Mid	17m drawdown since 2000, stable since 2009	158.50	0.39	16	158.62	0.53	18	158.50	0.42	17	158.22	0.60	17
47-2R	Gasport - Lower	12m drawdown since 2000, stable since 2008	160.28	0.31	16	160.54	0.25	18	160.53	0.24	17	160.38	0.27	17
47-3R	Goat Island	3m drawdown since 2000, stable since 2006	168.38	0.31	16	168.44	0.35	18	168.40	0.35	17	168.41	0.29	17
47-4R	Overburden	dry after 2006	170.46	1.80	15	171.47	2.13	17	170.25	1.38	17	169.70	0.30	13
48-1	Rochester - Mid	At least 10m drawdown since 2007, stable since 2010	165.42	1.23	16	165.36	1.44	17	165.71	1.47	16	165.23	1.53	16
48-2	Gasport - Lower	5m drawdown since 2007, stable since 2008	173.91	1.38	17	174.58	0.93	18	174.42	1.07	17	173.92	1.27	17
48-3	Overburden	dry since 2008	176.41	0.01	7	176.59	0.17	15	176.95	0.98	10	176.53	0.27	6
49-1	Rochester - Mid	Slow recovery												
49-2	Gasport - Lower	3m drawdown in 2007, stable since then	176.16	0.54	17	176.68	0.55	18	176.44	0.60	17	175.90	0.49	17
49-3	Overburden	At least 8m drawdown in 2007, stable since then	176.26	0.56	17	176.91	0.55	18	176.55	0.57	17	175.97	0.48	17
51-1	Rochester - Upper	3m drawdown since 2007, ongoing	178.98	1.02	11	179.89	0.85	12	180.35	0.40	11	179.07	0.71	11
51-2	Gasport - Lower	1m drawdown since 2007	180.34	1.03	17	182.16	0.81	18	182.10	0.72	17	180.07	0.81	17
51-3	Goat Island	1m drawdown since 2007	180.58	1.05	17	181.60	0.48	18	181.61	0.27	17	180.12	0.88	17
51-4	Overburden	1m drawdown since 2007	181.18	0.42	14	181.81	0.49	18	181.81	0.33	17	180.52	0.63	15
53-1	Decew	3m drawdown between 2002 and 2005	158.86	0.49	17	159.05	0.38	18	158.92	0.50	17	158.79	0.47	17
53-2	Lockport	1m drawdown between 2002 and 2005	167.65	0.17	17	167.71	0.04	18	167.71	0.03	17	167.69	0.04	17
53-3	Overburden		169.65	0.12	17	169.70	0.07	15	169.74	0.09	17	169.66	0.13	14
53-4	Rochester	Slow recovery												
54-1	Rochester		170.63	0.53	15	170.99	0.44	17	171.27	1.44	17	170.60	0.33	17
54-2	Decew	8m drawdown between 2000 and 2009	163.27	0.66	17	163.67	0.81	17	163.36	0.55	17	163.25	0.71	17
54-3	Lockport	At least 1m drawdown between 2000 and 2008	170.56	0.22	17	170.68	0.15	18	170.63	0.18	17	170.41	0.24	17
54-4	Overburden	Slight drawdown	174.60	1.41	11	176.04	0.94	18	175.44	0.70	17	173.40	0.45	7
55-1	Rochester - Mid	4m drawdown between 2001 and 2008	168.38	0.64	17	168.56	0.47	18	168.69	0.40	17	168.21	0.68	17
55-2	Decew	Slow recovery												
55-3	Goat Island	3m drawdown between 2000 and 2008	170.44	0.36	17	170.65	0.20	18	170.67	0.16	17	170.41	0.21	17
55-4	Overburden		172.45	1.05	13	173.91	1.09	18	173.45	0.85	17	171.77	0.92	13
56-1	Rochester - Upper	Slow recovery												

Table E-4 - Groundwater Elevations Summary Table

Well	Formation	Notes (slow recovery, quarry drawdown)	Winter (Dec-Feb)			Spring (Mar-May)			Summer (Jun-Aug)			Autumn (Sep-Nov)		
			Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N
56-2	Decew	Slow recovery												
56-3	Goat Island		179.90	0.93	17	180.60	0.43	18	180.49	0.36	17	179.43	0.67	17
56-4	Overburden		181.27	0.95	17	181.54	0.41	17	181.24	0.30	17	180.10	0.74	17
61-1	Irondequoit				0	156.48	1.40	14	157.89	1.78	31			0
61-2	Rochester				0	165.75	0.28	17	165.90	0.86	34			0
61-3	Rochester				0	165.93	0.27	17	165.78	0.22	34			0
61-4	Decew				0	171.00	0.25	17	170.67	0.88	34			0
63-1	Rochester				0	163.86	0.25	17	164.05	0.39	34			0
63-2	Rochester	Slight drawdown			0	166.18	0.42	17	166.15	0.34	34	165.58		1
63-3	Decew				0	170.00	1.07	17	168.94	0.65	34	167.84		1
67-1	Irondequoit		157.11	1.36	23	155.54	1.47	21	157.97	0.65	32	157.77	0.28	16
67-2	Rochester				0	169.96	0.40	18	169.56	1.42	34			0
67-3	Rochester				0	164.86	3.08	18	166.02	2.56	34			0
67-4	Lockport				0	169.66	0.31	18	169.58	0.25	34			0
68-1	Rochester	6m increase 2000-2005, 2m increase in 2014			0	172.12	0.61	10	172.09	0.73	21			0
68-2	Rochester	2m increase in 2013			0	173.25	0.54	13	173.22	0.49	24			0
68-3	Lockport				0	168.71	0.45	18	168.71	0.46	33			0
69-1	Rochester	Slight drawdown			0	169.08	1.16	18	169.09	0.92	34			0
69-2R	Rochester	4m increase between 2008 and 2013, replaced 2018			0	167.83	3.86	14	167.88	3.54	26			0
69-3	Lockport				0	172.59	0.27	18	172.48	0.18	34	172.20		1
70-1	Rochester				0	157.58	1.15	17	159.05	0.24	34			0
70-2	Rochester				0	165.51	0.52	17	165.30	0.54	34			0
73-1	Rochester	0.5m increase since 2011	158.70	0.17	14	158.74	0.33	15	158.63	0.31	16	158.58	0.18	15
75-1	Irondequoit		155.19	0.12	361	154.89	1.70	127	155.06	0.06	351	154.99	0.09	365
75-2	Rochester - Mid		171.34	0.35	362	171.46	0.24	134	171.55	0.10	369	171.07	0.24	365
75-3	Rochester - Upper		171.60	0.33	361	171.79	0.13	137	171.71	0.10	369	171.28	0.16	365
75-4	Gasport - Lower		171.45	0.23	361	171.84	1.22	138	171.75	0.14	369	171.20	0.13	365
75-5	Goat Island		170.74	0.09	361	171.28	0.18	137	171.20	0.12	369	170.72	0.12	365
76-1	Irondequoit		162.60	0.44	360	163.93	0.36	113	163.54	0.34	369	162.25	0.33	365
76-2	Rochester - Lower		161.70	0.32	360	162.52	0.17	109	161.95	0.27	369	161.50	0.16	365
76-3	Rochester - Mid	Slow recovery												
76-4	Rochester - Upper		172.43	0.85	360	173.48	0.38	113	172.23	0.33	369	171.62	0.06	365
77-1	Irondequoit	Slow recovery												
77-2	Rochester - Lower		168.57	0.39	361	168.87	0.29	22	169.39	0.44	368	168.86	0.30	365
77-3	Rochester - Mid		160.03	0.14	361	163.43	6.44	29	158.91	0.23	368	159.56	0.15	365
77-4	Rochester - Upper		172.53	0.26	361	171.29	1.66	32	170.83	0.46	369	171.49	0.33	365
77-5	Gasport - Lower		174.43	0.21	361	174.78	0.04	34	174.40	0.14	369	174.11	0.04	365
78-1	Irondequoit		160.51	0.10	361	161.17	0.35	78	160.84	0.08	351	160.63	0.10	365
78-2	Rochester - Lower		160.29	0.09	360	160.95	0.40	82	160.58	0.13	356	160.37	0.11	364
78-3	Rochester - Upper		173.06	0.38	360	173.90	0.18	83	173.50	0.38	368	173.09	0.41	364
78-4	Gasport - Lower		173.27	1.62	361	171.08	2.62	84	173.53	1.64	369	172.98	1.86	365
78-5	Gasport - Upper		174.18	0.16	361	174.49	0.06	84	174.23	0.12	369	173.98	0.09	365
79-1	Rochester - Mid		158.39	0.25	361	158.09	0.39	31	158.27	0.24	369	158.32	0.22	365
79-2	Rochester - Upper		179.97	2.34	360	180.94	0.05	16	176.73	5.71	351	179.03	2.90	365
79-3	Gasport - Lower		180.05	0.90	361	180.73	0.12	30	180.06	0.40	369	178.71	0.56	365
79-4	Goat Island		181.37	0.68	361	181.26	0.61	34	179.98	0.40	369	178.67	0.31	365

Table E-4 - Groundwater Elevations Summary Table

Well	Formation	Notes (slow recovery, quarry drawdown)	Winter (Dec-Feb)			Spring (Mar-May)			Summer (Jun-Aug)			Autumn (Sep-Nov)		
			Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N	Average	St. Dev	N
80-1	Rochester - Mid		178.38	0.40	360	179.10	0.09	37	178.27	0.41	369	177.39	0.24	365
80-2	Rochester - Upper	Slow recovery												
80-3	Gasport - Lower		178.41	0.39	360	179.20	0.15	37	178.37	0.42	369	177.67	0.10	148
81-1	Rochester - Mid		178.30	0.40	360	178.94	0.06	33	178.21	0.36	368	177.30	0.26	364
81-2	Rochester - Upper		178.57	0.41	361	179.29	0.11	33	178.49	0.41	369	177.56	0.26	365
81-3	Gasport - Lower		178.58	0.41	361	179.29	0.10	33	178.60	0.33	304	177.42	0.23	5277
Well1	Waste		168.06	1.42	24	167.59	1.63	24	167.41	1.19	36	167.39	1.16	9
Well2	Waste		169.43	2.33	24	169.26	1.67	24	168.82	2.10	36	168.51	0.64	9

APPENDIX F

**Water Well Record Search and
Survey Results**

Table F-1 - Water Well Records

May 5, 2026
4:12:50 PM

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
NIAGARA FALLS CITY	17 650416 4775087 W	2002/05 4795	5 5	FR 0048	8/15/14/2:30	DO		6604658 (240884)	BLCK LOAM PCKD 0001 BRWN CLAY PCKD 0011 BRWN CLAY FGVL PCKD 0019 GREY SHLE LYRD 0020 GREY LMSN LYRD 0051
NIAGARA FALLS CITY	17 649042 4775628 W	2005/05 1129	1.97				0091 5	3804251 (Z27858) A026660	BRWN LOAM 0001 BRWN SILT CLAY 0004 BRWN SILT CLAY 0024 GREY 0056 GREY 0067 SHLE 0096
NIAGARA FALLS CITY	17 650765 4777029 W	2024/05 7179						7481411 (Z433997) A324345 P	
NIAGARA FALLS CITY	17 648475 4774508 W	1971/11 2102	6	FR 0040	14/36/10/2:0	ST DO		6602644 ()	BRWN LOAM 0006 BLUE CLAY 0036 MSND GRVL 0038 ROCK 0044
NIAGARA FALLS CITY	17 649321 4777013 W	2008/06 1129	3.94 1.97			MO		7120942 (Z80401) A067443	LOAM 0000 BRWN FILL SNDY 0002 BRWN CLAY SILT TILL 0022 GRVL 0024 GREY DLMT SHLE 0053 GREY DLMT 0058 GREY SHLE 0091
NIAGARA FALLS CITY	17 649315 4777002 W	2008/09 1129						7120943 (Z85673) A	
NIAGARA FALLS CITY	17 648563 4775806 W	2010/04 7238						7147855 (Z117072) A	
NIAGARA FALLS CITY	17 650248 4777727 W	1974/08 3608	6	SU 0055 SU 0068	22/65/5/2:0	DO		6602985 ()	BRWN CLAY 0019 GREY LMSN 0070
NIAGARA FALLS CITY	17 650319 4777722 W	1974/12 3608	6	FR 0055	22/60/5/2:0	DO		6603030 ()	BRWN CLAY 0019 GREY LMSN 0063
NIAGARA FALLS CITY	17 649321 4777012 W	2015/09 6809	2			MT		7260044 (Z164778) A067443 A	
NIAGARA FALLS CITY	17 648512 4776394 W	2019/12 6607			///:			7351998 (6HI78OQ9) _NO_TAG A	
NIAGARA FALLS CITY 013	17 650555 4777823 W	1972/05 3608	6	FR 0030 FR 0040	20/55/3/3:0	IR DO		6602700 ()	BRWN CLAY STNS 0008 GREY LMSN 0062
NIAGARA FALLS CITY 028	17 650887 4777262 W	1961/02 3409	7 6	FR 0035	18/35/5/2:0	DO		6601269 ()	BRWN CLAY 0028 LMSN 0035
NIAGARA FALLS CITY 029	17 649450 4777151 W	1957/08 3409	6 6	FR 0040	18/43/5/4:0	DO		6601270 ()	CLAY 0018 CLAY STNS 0031 GREY LMSN 0043
NIAGARA FALLS CITY 029	17 650295 4777443 W	1969/09 3608	6	FR 0055	18/60/6/2:30	DO		6602471 ()	BRWN CLAY 0018 BLUE CLAY 0031 BLUE CLAY GRVL 0033 GREY LMSN 0070
NIAGARA FALLS CITY 029	17 650337 4777253 W	1963/12 3608	6 6	FR 0049	25/35/10/1:0	DO		6601271 ()	BLUE CLAY 0036 GREY LMSN 0050
NIAGARA FALLS CITY 032	17 650360 4777041 W	1959/05 3409	6	FR 0030	10/20/5/3:0	DO		6601272 ()	BRWN CLAY 0012 BLUE CLAY 0030 FSND 0031 GRVL 0032

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
NIAGARA FALLS CITY 033	17 650425 4776840 W	1956/10 3409	6 6	FR 0019	2/15/25/2:0	DO		6601273 ()	BRWN CLAY 0008 BLUE CLAY 0018 LMSN 0020
NIAGARA FALLS CITY 033	17 650890 4777127 W	1960/05 3409	7 7	FR 0032	5/20/17/2:0	ST DO		6601274 ()	CLAY 0008 BLUE CLAY 0031 GRVL 0032 LMSN 0033
NIAGARA FALLS CITY 047	17 650469 4776379 W	1961/05 3409	7 6	FR 0025	6/23/5/2:0	DO		6601281 ()	CLAY 0016 HPAN STNS 0024 LMSN 0025
NIAGARA FALLS CITY 048	17 650298 4776637 W	1957/04 3409	6 4	FR 0020	4/15/8/2:0	DO		6601282 ()	CLAY 0010 BLUE CLAY 0015 CLAY MSND 0020 GRVL 0021 GREY LMSN 0024
NIAGARA FALLS CITY 051	17 649418 4776059 W	1963/07 3608	6 6	FR 0027	12/20/10/1:0	DO		6601283 ()	BRWN CLAY 0025 GREY LMSN 0027
NIAGARA FALLS CITY 051	17 649840 4775957 W	1964/08 3409	6 6	SU 0032	8/28/2/2:0	ST		6601284 ()	BRWN CLAY 0025 LMSN 0032
NIAGARA FALLS CITY 052	17 650474 4776072 W	1956/10 3409	6 6	FR 0028	6/23/5/2:0	DO		6601288 ()	BRWN CLAY 0010 BLUE CLAY 0026 LMSN 0028
NIAGARA FALLS CITY 052	17 650438 4776364 W	1953/11 5425	6 6	FR 0026	15/15/6/0:30	DO		6601285 ()	YLLW CLAY 0009 BLUE CLAY 0023 GRVL 0025 LMSN 0028
NIAGARA FALLS CITY 052	17 650486 4775807 W	1955/10 3409	6 6	SU 0032	9/33/3/1:0	DO		6601286 ()	BRWN CLAY 0008 BLUE CLAY 0024 LMSN 0034
NIAGARA FALLS CITY 052	17 650464 4776194 W	1957/03 3409	6	FR 0020	4/15/8/2:0	DO		6601289 ()	BRWN CLAY 0010 BLUE CLAY 0020 GRVL 0022 LMSN 0023
NIAGARA FALLS CITY 052	17 650455 4776234 W	1959/03 3409	6	FR 0024	12/23/8/2:0	DO		6601290 ()	BRWN CLAY 0012 BLUE CLAY 0016 BRWN CLAY MSND 0023 GRVL 0024 LMSN 0025
NIAGARA FALLS CITY 052	17 650453 4776214 W	1959/06 3409	6	FR 0026	10/23/5/3:0	DO		6601291 ()	BRWN CLAY 0024 CLAY MSND 0025 GRVL 0026 LMSN 0027
NIAGARA FALLS CITY 052	17 650465 4776151 W	1959/07 3409	7	FR 0024	9/15/8/2:0	DO		6601292 ()	BRWN CLAY 0024 GRVL 0025 LMSN 0026
NIAGARA FALLS CITY 052	17 650461 4776204 W	1956/10 3409	6 6	SU 0034	6/23/5/2:0	DO		6601287 ()	BRWN CLAY 0010 BLUE CLAY 0020 CLAY MSND 0027 FSND 0028 LMSN 0034
NIAGARA FALLS CITY 064	17 650509 4775790 W	1955/08 3409	6 6	FR 0032	4/20/8/2:0	DO		6601300 ()	CLAY 0020 MSND STNS 0023 LMSN 0033
NIAGARA FALLS CITY 064	17 650516 4775965 W	1954/10 3409	6 6	FR 0029	9/20/20/2:0	DO		6601299 ()	CLAY 0018 BLUE CLAY 0027 GRVL 0029 LMSN 0030
NIAGARA FALLS CITY 064	17 650488 4775704 W	1956/06 3609	6	FR 0025	8/8/17/:	DO		6601301 ()	CLAY 0023 GRVL 0025
NIAGARA FALLS CITY 064	17 650508 4775807 W	1958/09 5425	6 6	FR 0029	12/15/10/0:30	DO		6601302 ()	LOAM 0001 BRWN CLAY 0015 BLUE CLAY 0023 SHLE 0024 BRWN LMSN 0031
NIAGARA FALLS CITY 065	17 649415 4775803 W	1977/10 2123	7	FR 0035	12//6/2:0	ST DO		6603250 ()	BRWN CLAY 0009 GREY CLAY 0020 CLAY GRVL 0034 ROCK 0035
NIAGARA FALLS CITY 065	17 649425 4775648 W	1971/10 3609	6	FR 0033	12/14/10/1:0	ST DO		6602648 ()	GREY CLAY 0031 HPAN 0032 SHLE 0033

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION	
NIAGARA FALLS CITY 066	17 648415 4775533 W	1972/10 3608	6	FR 0034	18/25/5/2:0	DO		6602725 ()	BRWN CLAY 0015 GREY CLAY 0032 GREY CLAY GRVL 0034	
NIAGARA FALLS CITY 067	17 648450 4775288 W	1953/06 3409	6	SU 0033	6/23/10/2:0	DO		6601303 ()	CLAY 0015 BLUE CLAY 0025 MSND 0032 LMSN 0033	
NIAGARA FALLS CITY 067	17 648695 4775323 W	1978/03 5417	6	FR 0031	15/19/25/1:0	DO		6603262 ()	BRWN CLAY 0013 GREY CLAY 0030 GREY LMSN 0032	
NIAGARA FALLS CITY 068	17 650242 4775187 W	1960/06 5425	6 6	FR 0028	2/13/6/0:30	DO		6601304 ()	LOAM 0001 BRWN CLAY 0017 BLUE CLAY 0027 GRVL 0028 BRWN LMSN 0030	
NIAGARA FALLS CITY 069	17 650283 4775153 W	1949/04 3409	6 6	FR 0029	10/20/15/1:0	ST DO		6601305 ()	CLAY 0005 BRWN CLAY 0018 MSND STNS 0025 GRVL 0028 LMSN 0030	
NIAGARA FALLS CITY 082	17 649980 4774916 L	2000/05 2123	6	FR 0038 SU 0055	13//20/1:0	DO		6604439 (210921)	BRWN CLAY 0001 GREY CLAY 0029 GREY CLAY GRVL 0033 ROCK LMSN 0063	
NIAGARA FALLS CITY 083	17 648861 4775064 W	1967/05 3409	6	FR 0031	12/23/17/2:0	DO		6601326 ()	CLAY 0031 LMSN 0032	
NIAGARA FALLS CITY 083	17 648471 4774966 W	1949/08 3409	6 6	MN 0036	22/25/15/1:0	ST		6601325 ()	CLAY 0010 BLUE CLAY 0034 MSND 0035 LMSN 0037	
NIAGARA FALLS CITY 083	17 648952 4774872 L	1998/10 2123	6	FR 0055	20//15/1:0	DO		6604319 (192377)	BRWN CLAY 0002 GREY CLAY 0014 GREY CLAY GRVL 0030 ROCK 0060	
NIAGARA FALLS CITY 085	17 649491 4774713 W	1956/12 3409	6 6	SU 0043	14/30/8/3:0	DO		6601328 ()	LOAM MSND 0005 BLUE CLAY 0020 CLAY MSND 0033 CLAY MSND STNS 0035 LMSN 0044	
NIAGARA FALLS CITY (	17 650467 4776266 W	7179						7168531 (Z127633) A112542		
NIAGARA FALLS CITY (	17 651164 4776951 W	2023/06 7179						7453028 (Z371773) A324373 P		
NIAGARA FALLS CITY (	17 651164 4776951 W	2023/06 7179						7453029 (Z371772) A324372 P		
NIAGARA FALLS CITY (	17 651423 4776547 W	2023/06 7179						7453027 (Z371774) A324374 P		
NIAGARA FALLS CITY (	17 651401 4777181 W	2023/06 7179						7456241 (Z371761) A324376 P		
NIAGARA FALLS CITY (066	17 648560 4775806 W	2010/04 7238						7147856 (Z117071) A		
NIAGARA FALLS CITY (066	17 648565 4775131 W	2010/04 7238						7147857 (Z117085) A		
NIAGARA FALLS CITY (066	17 648560 4775131 W	2010/04 7238						7147854 (Z117073) A		

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION	
THOROLD TOWN	17 647905 4776543 W	1960/06 3409	7 6	FR 0039	33/37/3/2:0	DO		6601625 ()	BRWN CLAY 0032 LMSN 0039	
THOROLD TOWN	17 648275 4776983 W	1963/04 3409	7 6	SU 0301	91/291/13/2:0	CO		6601626 ()	BRWN CLAY STNS 0034 LMSN 0145 WHIT SNDS 0167 RED SNDS 0201 LMSN 0210 RED SNDS 0241 RED SHLE 0301	
THOROLD TOWN	17 648133 4776675 W	2022/06 7282		UT 0036	///:	MO		7422646 (I994J74U) _NO_TAG A		
THOROLD TOWN	17 648284 4776917 W	2007/05 1129			///:	MO		7100086 (Z67558) A		
THOROLD TOWN	17 648284 4776917 W	2007/05 1129	1.97		///:	MO		7052656 (Z67540) A055377	BRWN FILL CLAY SILT 0007 BRWN TILL SILT SILT 0040 GREY DLMT 0051 GREY SHLE 0090	
THOROLD TOWN	17 648131 4776679 W	2022/06 7282		UT 0036	///:	MO		7422645 (WZKXI3TH) _NO_TAG A		
THOROLD TOWN	17 648134 4776681 W	2022/06 7282		UT 0036	///:	MO		7426995 (LPC4BA63) _NO_TAG A		
THOROLD TOWN	17 648410 4775663 W	2008/12 1129	1.97				0098 5	7120522 (Z87494) A073967	BRWN SILT CLYY 0018 BRWN CLAY SLTY SOFT 0030 BRWN CLAY CSND SLTY 0033 GREY DLMT 0068 GREY DLMT 0078 BLCK DLMT SHLE CLAY 0104	
THOROLD TOWN	17 648534 4776994 W	2008/03 1129				MO		7106013 (Z80372) A		
THOROLD TOWN	17 648290 4776922 W	2007/05 1129			///:	MO		7102530 (Z67574) A		
THOROLD TOWN	17 648131 4776679 W	2022/06 7282		UT 0036	///:	MO		7426996 (WZKXI3TH) _NO_TAG A		
THOROLD TOWN	17 648133 4776675 W	2022/06 7282		UT 0036	///:	MO		7426997 (I994J74U) _NO_TAG A		
THOROLD TOWN	17 648302 4776925 W	2007/09 1129	1.97		///:	MO		7100093 (Z67566) A060903	BRWN LOAM FILL 0002 BRWN SILT CLYY 0010 BRWN CLAY SLTY 0018 BRWN CLAY 0028 BRWN GRVL SNDY 0030 GREY SAND GVLV 0032 GREY GRVL 0041 GREY SHLE 0092 GREY LMSN 0100	
THOROLD TOWN	17 648134 4776681 W	2022/06 7282		UT 0036	///:	MO		7422644 (LPC4BA63) _NO_TAG A		
THOROLD TOWN (THOROL	17 646920 4776126 W	2010/12 7238	2			TH	0087 5	7157913 (Z123646) A107525	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 648031 4775442 W	2019/11 7179	6.25 6.25	UT 0055 UT 0120	18/67/10/1:0	IN		7349174 (Z326122) A283985	BRWN CLAY DNSE 0033 GREY ROCK FCRD 0125	

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION	
THOROLD TOWN (THOROL	17 648118 4775460 W	2019/09 7179						7342579 (Z298876) A		
THOROLD TOWN (THOROL	17 648119 4775462 W	2019/09 7179						7342540 (Z298875) A		
THOROLD TOWN (THOROL	17 647301 4775727 W	2018/11 7609						7326551 (C42418) A242648 P		
THOROLD TOWN (THOROL	17 648423 4775839 W	2018/09 7320	0.79	UT		TH MO	0033 33	7322944 (Z292693) A252234	BRWN FILL 0007 BRWN CLAY 0039 GREY CLAY 0066	
THOROLD TOWN (THOROL	17 648430 4775827 W	2018/09 7320	0.79	UT		TH MO	0033 33	7322943 (Z292692) A252233	BRWN FILL 0007 BRWN CLAY 0039 GREY CLAY 0066	
THOROLD TOWN (THOROL	17 648355 4775164 W	2015/08 7179	6.25 6.25	UT 0050	20/20/10/:30	IR		7248844 (Z201587) A141372	BRWN LOAM 0008 BRWN CLAY DNSE 0019 GREY CLAY SOFT 0035 GREY ROCK FCRD 0065	
THOROLD TOWN (THOROL	17 646892 4775970 W	2010/12 7238	2			TH	0087 5	7157912 (Z123647) A110031	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 646925 4776155 W	2010/12 7238				TH	0087 5	7157911 (Z123648) A110034	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 646920 4775959 W	2010/12 7238				TH	0087 5	7157907 (Z123642) A109984	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 646920 4775959 W	2010/12 7238	2			TH	0087 5	7157906 (Z123641) A109985	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 646896 4775972 W	2010/12 7238	2			TH	0087 5	7157905 (Z123643) A109983	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 646898 4776000 W	2010/12 7238	2			TH	0087 5	7157904 (Z123644) A109982	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 647208 4775585 W	1950/07 3409	6 6	SU 0052	10/23/15/2:0	CO		6601628 ()	CLAY 0010 BLUE CLAY 0048 STNS 0050 LMSN 0052	
THOROLD TOWN (THOROL	17 646909 4776060 W	2010/12 7238	2			TH	0087 5	7157903 (Z123645) A109981	GREY ---- 0085 BLCK SHLE ROCK 0092	
THOROLD TOWN (THOROL	17 647825 4776600 W	2007/05 1129			///:	MO		7100095 (Z67557) A		
THOROLD TOWN (THOROL	17 648204 4776890 W	2007/05 1129			///:	MO		7100094 (Z67556) A		

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION	
THOROLD TOWN (THOROL	17 648387 4776063 W	2015/09 6809						7260185 (C31309) A177560 P		
THOROLD TOWN (THOROL 004	17 648318 4776839 W	2018/05 7626						7328170 (C40335) A243073 P		
THOROLD TOWN (THOROL 012	17 648255 4775823 W	1978/10 5417	6	SU 0027	11/21/8/1:0	MN		6603286 ()	BRWN CLAY 0017 GREY CLAY 0026 GREY LMSN DKCL 0028	
THOROLD TOWN (THOROL 012	17 648295 4775723 W	1978/10 5417	6	SU 0032	14/26/10/1:0	MN		6603287 ()	BRWN CLAY 0019 GREY CLAY 0031 GREY LMSN 0032	
THOROLD TOWN (THOROL 012	17 648415 4775163 W	1978/06 2123		FR 0042	16/25/20/2:0	ST		6603302 ()	BRWN CLAY 0006 BLUE CLAY 0032 STNS 0045	
THOROLD TOWN (THOROL 012	17 648315 4775763 W	1980/05 5417	7	SU 0032	14/20/18/1:0	MN		6603388 ()	BRWN CLAY 0018 GREY CLAY 0032 GREY LMSN 0032	
THOROLD TOWN (THOROL 025	17 648213 4775512 W	1951/10 4754	6 6	FR 0035	12///:	DO		6601637 ()	CLAY 0020 LMSN 0035	
THOROLD TOWN (THOROL 025	17 648391 4774524 W	1964/12 3608	6 6	FR 0035	20/25/10/1:0	ST		6601638 ()	RED CLAY 0032 GREY SHLE 0035	
THOROLD TOWN (THOROL 025	17 648235 4774998 L	1989/08 2123	6	FR 0047	26/49/5/1:0	DO		6603911 (42613)	BRWN CLAY LOAM 0002 GREY CLAY 0021 GREY CLAY GRVL 0030 LMSN 0049	
THOROLD TOWN (THOROL 026	17 647635 4775401 W	1949/09 3409	6 6	SU 0040	10/42/10/1:0	DO		6601639 ()	CLAY 0020 BLUE CLAY 0035 LMSN 0042	

TOWNSHIP CON L	UTM	DATE CN	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION

Notes:
UTM: UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid
DATE CNTR: Date Work Completedand Well Contractor Licence Number
CASING DIA: .Casing diameter in inches
WATER: Unit of Depth in Fee. See Table 4 for Meaning of Code

PUMP TEST: Static Water Level in Feet / Water Level After Pumping in Feet / Pump Test Rate in GPM / Pump Test Duration in Hour : Minutes
WELL USE: See Table 3 for Meaning of Code
SCREEN: Screen Depth and Length in feet
WELL: WEL (AUDIT #) Well Tag . A: Abandonment; P: Partial Data Entry Only

1. Core Material and Descriptive te

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
BLDR	BOULDERS	FCRD	FRACTURED	IRFM	IRON FORMATION	PORS	POROUS	SOFT	SOFT
BSLT	BASALT	FGRD	FINE-GRAINED	LIMY	LIMY	PRDG	PREVIOUSLY DUG	SPST	SOAPSTONE
CGRD	COARSE-GRAINED	FGVL	FINE GRAVEL	LMSN	LIMESTONE	PRDR	PREV. DRILLED	STKY	STICKY
CGVL	COARSE GRAVEL	FILL	FILL	LOAM	TOPSOIL	QRTZ	QUARTZITE	STNS	STONES
CHRT	CHERT	FLDS	FELDSPAR	LOOS	LOOSE	QSND	QUICKSAND	STNY	STONEY
CLAY	CLAY	FLNT	FLINT	LTCL	LIGHT-COLOURED	QTZ	QUARTZ	THIK	THICK
CLN	CLEAN	FOSS	FOSILIFEROUS	LYRD	LAYERED	ROCK	ROCK	THIN	THIN
CLYY	CLAYEY	FSND	FINE SAND	MARL	MARL	SAND	SAND	TILL	TILL
CMTD	CEMENTED	GNIS	GNEISS	MGRD	MEDIUM-GRAINED	SHLE	SHALE	UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE	GRNT	GRANITE	MGVL	MEDIUM GRAVEL	SHLY	SHALY	VERY	VERY
CRYS	CRYSTALLINE	GRSN	GREENSTONE	MRBL	MARBLE	SHRP	SHARP	WBRG	WATER-BEARING
CSND	COARSE SAND	GRVL	GRAVEL	MSND	MEDIUM SAND	SHST	SCHIST	WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED	GRWK	GREYWACKE	MUCK	MUCK	SILT	SILT	WTHD	WEATHERED
DLMT	DOLOMITE	GVLY	GRAVELLY	OBDN	OVERBURDEN	SLTE	SLATE		
DNSE	DENSE	GYPS	GYPSUM	PCKD	PACKED	SLTY	SILTY		
DRTY	DIRTY	HARD	HARD	PEAT	PEAT	SNDS	SANDSTONE		
DRY	DRY	HPAN	HARDPAN	PGVL	PEA GRAVEL	SNDY	SANDYOAPSTONE		

2. Core Color

Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GREN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Well Use

Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial	MT	Monitoring TestHole
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail

Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		

Table F-2 2025 Water Well Survey

Address	MECP WWR No.			Building on Property	Comments	Source	Responded to Survey	Owner Name	Supply	Use
	Well 1	Well 2	Well 3							
1. 3393 Thorold Townline Road				Yes	Residence (Walker Residential Well 8)	Door-to-Door Survey	✓	Mollica	Cistern / Well	Domestic (Well) / Not in use (Cistern)
2. 3547/3551/3557 Thorold Townline Road	6603286	6603287	6603388	Yes	Thorold Public Works / Niagara Fleet Garage	Door-to-Door Survey	✓	Reg. Mun. of Niagara	Cistern / Well	Domestic (Cistern) / Washing vehicles (Well)
3. 1037 Old Thorold Stone Road	6601637			Yes	Residence	Door-to-Door Survey	✓	Silverline Group	Cistern / Well	Domestic (Cistern) / Not in use (Well)
4. 1040 Old Thorold Stone Road				Yes	Abandoned industrial					
5. 1051 Old Thorold Stone Road	7342540 (Abandonment)	7349174		Yes	Silverline Group Inc. (Walker Residential Well 9)	Email Correspondence		Silverline Group	Well	Truck Washing
6. 1040 Thorold Stone Road	7248844			Yes	PetroCanada Gas Station	Door-to-Door Survey	✓	Malhotra	Cistern	Domestic
7. 1061 Thorold Stone Road				Yes	Residence					
8. 9332 Thorold Stone Road				Yes	Residence (Walker Residential Well 3)	Door-to-Door Survey	✓	Colavacchia	Well	Well use not specified
9. 9435 Thorold Stone Road				Yes	Residence (Walker Residential Well 5)	Door-to-Door Survey	✓	Cupolo	Cistern / Well	Domestic (Cistern) / Garden (Well)
10. 9536 Thorold Stone Road				Yes	Residence (Walker Residential Well 4)					
11. 10056 Thorold Stone Road	6601326	6604319		Yes	Boondocks Pet Resort / Southall (Walker Residential Well 7)	Door-to-Door Survey	✓	Black	Cistern / Well	Domestic (Well) / Not in use (Cistern)
12. 8865 Mountain Road	6602700			Yes	Gauld Nurseries Ltd. (Walker Residential Well 14)	Door-to-Door Survey	✓	Gauld	Well	Domestic / Garden
13. 2155 Garner Road	6602985	6603030		Yes	Residence (Walker Residential Well 13)			Gauld		

APPENDIX G

Groundwater Quality Results

Notation	Description
mg/L	milligrams per Litre
•	values in mg/L unless otherwise noted
µg/L	micrograms per Litre
pH	provided in Scientific Units
E C	Electrical Conductivity
	provided in microSiemens per centimetre
T	Temperature
	provided in degrees Celsius
VOCs	Volatile Organic Compounds
	VOC results provided in ug/L
ODWQS	Ontario Drinking Water Quality Standards (MECP, June 2003 and updates)
MAC	Maximum Acceptable Concentration
IMAC	Interim Maximum Acceptable Concentration
AO	Aesthetic objective
OG	Operational Guideline
nc	no OWDQS criteria
	shading indicates an exceedance of the ODWQS criteria
(1)	NSD - well dry
(2)	NSI - insufficient volume for sample
(3)	INX - well inaccessible
blank	data not available
< value	parameter not detected above associated laboratory reported detection limit
*	As of January 1, 2017, the ODWQS for benzene decreased from 0.005 mg/L to 0.001 mg/L and the ODWQS for vinyl chloride decreased from 0.002 mg/L to 0.001 mg/L.

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
15-1 Ro	17-Jun-09	7.2	64,800	7.33	59,900	47,900	16,700	22,900	1,060	208	3,760	1,780	9,250	180	<0.1	<0.1	16.8	13.7
	30-Jun-10	6.8	116,000	7.06	90,700	72,600	29,500	45,000	1,090	117	6,600	3,160	16,800	294	<0.1	<0.1	28.9	26.7
	15-Jun-11	7.0	46,400	7.48	46,700	35,000	9,860	18,000	681	190	2,020	1,170	7,880	92	<0.1	<0.1	10.8	8.68
	27-Jun-12	6.9	73,000	7.37	67,800	54,200	18,500	26,400	959	222	3,780	2,190	9,580	183	<0.1	<0.1	19.8	17.9
	25-Jun-13	7.6	15,100	7.86	15,600	11,700	3,950	4,960	629	274	905	410	2,080	49	<0.1	<0.1	6.09	4.56
	18-Jun-14	7.5	16,100	7.88	16,900	12,700	4,300	5,490	598	287	990	445	2,240	43	<0.1	<0.1	3.64	3.67
	26-Jun-15	6.9	36,900	7.43	36,000	26,500	9,100	13,000	780	230	2,000	1,000	5,400	100	<0.5	<0.05	9	10
	27-Jun-16	6.5	47,900	7.22	58,000	42,400	14,000	23,000	1,600	230	3,300	1,400	8,200	160	<0.5	<0.05	17	15
	23-Jun-17	6.5	69,000	7.24	66,000	47,500	17,000	28,000	1,600	210	4,000	1,800	10,000	180	<0.1	0.039	22	18
	27-Jun-18	6.6	77,100	7.04	87,000	69,800	25,000	36,000	1,500	160	6,000	2,500	15,000	260	<0.5	<0.05	23	22
	28-Jun-19	6.6	99,600	7.06	82,000	68,800	26,000	43,000	1,400	140	6,000	2,700	15,000	250	<1.0	<0.1	26	25
	23-Jun-20	6.5	106,000	6.82	99,000	81,300	30,000	46,000	1,300	130	6,800	3,300	16,000	310	<1.0	<0.1	31	27
	30-Jun-21	6.2	109,000	6.95	(4)	83,100	26,000	46,000	1,300	130	5,800	2,800	14,000	260	<0.1	0.038	31	26
	22-Jun-22	6.2	126,038	6.90	(4)	84,100	33,000	53,000	1,300	110	7,600	3,300	18,000	300	<0.5	<0.05	38	32
	28-Jun-23	6.5	120,000	7.02	(4)	92,700	34,000	46,000	1,200	110	7,700	3,500	19,000	330	<1.0	<0.1	35	34
	10-Jun-24	7.5	1,950	7.02	60,000	57,900	12,000	37,000	780	170	2,900	1,200	6,500	110	0.2	0.116	20	18
	17-Jun-25	7.5	1,240	7.43	43,000	28,400	14,000	17,000	470	240	3,200	1,400	7,500	130	<0.1	0.016	19	19
17-1 Ro	17-Jun-09	7.1	34,300	7.44	41,300	33,000	9,201	13,500	1,610	243	2,260	864	4,960	140	<0.1	<0.1	12.9	12
	1-Oct-09	7.1	42,800	7.14	54,600	43,700	12,350	20,000	2,080	292	3,000	1,180	8,820	177	<0.1	<0.1	20.3	16.3
	16-Mar-10	7.7	6,670	7.69	10,000	7,500	1,888	2,840	566	235	466	176	1,470	28	0.47	<0.1	4.15	3.28
	29-Jun-10	6.9	32,000	7.68	41,100	32,900	8,194	15,800	1,840	245	2,000	777	6,440	130	<0.1	<0.1	15	13.3
	20-Sep-10	6.9	44,400	7.80	41,700	33,400	10,107	17,100	2,190	248	2,410	993	7,990	162	<0.1	<0.1	18.3	15.9
	25-Mar-11	7.3	24,800	7.15	26,200	21,000	4,795	9,670	1,490	226	1,170	455	4,480	73	1.8	<1.0	7.5	6.69
	15-Jun-11	6.9	16,100	7.58	37,100	29,700	7,028	12,800	1,950	239	1,670	694	6,380	96	<0.1	<0.1	11.7	11
	16-Sep-11	6.8		7.19	47,400	37,900	10,545	17,200	1,960	288	2,630	966	8,550	144	<0.1	<0.1	15.6	14.7
	13-Mar-12	7.1	35,500	7.61	35,000	28,000	6,296	12,150	1,980	265	1,560	583	5,800	101	<0.1	<0.1	9.5	9.6
	25-Jun-12	6.9	30,400	7.69	34,300	27,400	6,519	11,500	2,020	269	1,590	619	6,240	99	<0.1	<0.1	12.3	10.5
17-1R Ro	25-Sep-12	7.1	48,300	7.53	45,200	36,200	10,063	16,800	1,960	260	2,470	946	6,500	128	<1.0	<1.0	16.9	15
	27-Mar-13	6.8	60,400	7.95	55,600	44,500	11,771	19,950	1,850	250	2,900	1,100	9,390	183	<0.1	<0.1	18.3	17.9
	25-Jun-13	6.8	50,000	7.87	56,000	44,800	11,129	20,200	2,080	219	2,610	1,120	8,990	176	<0.1	<0.1	22.8	19.6
	26-Sep-13	6.9	47,700	7.93	56,700	45,400	11,757	19,900	1,830	253	2,680	1,230	9,300	199	<0.1	<0.1	21.3	17.5

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
15-1 Ro	17-Jun-09	0.05		1.9		0.003		<1.0	3	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	30-Jun-10	0.09		2.2		0.001		<1.0	4	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	15-Jun-11	0.02		2.8		0.005		<0.1	1.3	<0.001	<0.1	<0.01	<0.3	<0.01	0.1		<0.1
	27-Jun-12	<0.05		1.7		<0.01		<1.0	3	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	25-Jun-13	0.02		2.7		0.011		<0.1	0.9	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	18-Jun-14	0.01		2.9		0.007		<1.0	1	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	26-Jun-15	0.054		8.5		0.021		0.051	1.8	<0.001	<0.05	<0.01	<1.0	<0.005	0.2		<0.05
	27-Jun-16	<0.04		2.4		0.056		0.041	4.2	<0.001	<0.05	<0.01	<1.0	<0.005	0.22		<0.05
	23-Jun-17	<0.04		2.2		<0.5		<0.1	4.6	<0.005	<0.25	<0.05	<5.0	<0.025	0.28		<0.25
	27-Jun-18	<0.04		4.3		<0.002		0.062	4.6	<0.001	<0.05	0.024	<1.0	<0.005	0.44		<0.05
	28-Jun-19	0.06		1.8		0.0047		<0.1	5.7	<0.005	<0.25	<0.05	<5.0	<0.025	0.44		<0.25
	23-Jun-20	0.05		4		<0.005		0.064	4.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.55		<0.05
	30-Jun-21	<0.04		1.7		0.017		0.072	4	<0.0009	<0.05	<0.009	<1.0	<0.005	0.54		<0.05
	22-Jun-22	<0.04		1.9		0.029		<0.1	4.2	<0.0045	<0.25	<0.045	<5.0	<0.025	0.62		<0.25
	28-Jun-23	0.049		2.3		0.0023		<0.1	4.1	<0.0045	<0.25	<0.045	<5.0	<0.025	0.66		<0.25
	10-Jun-24	1.4		2.7		<0.001		0.13	1.4	<0.0009	<0.05	<0.009	<1.0	<0.005	0.24		<0.05
	17-Jun-25	1.7		3.4		0.0083		0.13	1.6	<0.0009	<0.05	<0.009	1	<0.005	0.33		<0.05
17-1 Ro	17-Jun-09	0.05		7	490	0.014	0.22	0.2	2.7	<0.001	0.01	0.03	0.5	<0.01	0.2	<0.0001	<0.1
	1-Oct-09	<0.05		1.3	815	0.053	0.3	0.1	4	<0.001	<0.005	0.02	<0.3	<0.01	0.2	<0.0001	<0.1
	16-Mar-10	0.08		1.3	<5.0	<0.001	<0.1	0.3	1.4	<0.001	<0.005	<0.01	0.4	<0.01	<0.1	<0.0001	<0.1
	29-Jun-10	0.41		2.6	875	0.009	0.106	0.2	2.7	<0.001	<0.05	0.02	<0.3	<0.01	<0.1	<0.0001	<0.1
	20-Sep-10	0.4		1.6	1,300	0.077	<1.0	0.1	3.4	<0.001	<0.005	0.02	<0.3	<0.01	<0.1	<0.0001	<0.1
	25-Mar-11	0.12		4.8	1,150	0.036	<0.1	0.3	2.3	<0.001	<0.01	<0.01	2	<0.01	0.2	<0.0001	<0.1
	15-Jun-11	1.69		6	300	0.018	<0.1	0.5	3.2	<0.001	<0.1	0.02	<0.3	<0.01	0.3	<0.0001	<0.1
	16-Sep-11	0.57		2	2,000	0.019	<1.0	0.3	3.2	<0.001	<0.005	0.02	0.8	<0.01	0.2	<0.0001	<0.1
	13-Mar-12	0.26		<12.5	500	0.042	<0.1	<0.1	2.9	<0.001	<0.01	<0.01	0.6	<0.01	0.3	<0.0001	<0.1
17-1R Ro	25-Jun-12	0.2		34.5	575	0.05	0.1	<1.0	3	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	25-Sep-12	0.04		3	1,190	0.092	<1.0	<0.1	3.9	<0.001	<0.01	0.01	<0.3	<0.01	0.4	<0.0001	<0.1
	27-Mar-13	<0.01		1.1	1,110	0.061	<1.0	<0.1	4	<0.001	<0.01	0.03	<0.3	<0.01	0.2	<0.0001	<0.1
	25-Jun-13	<0.05		1.4	455	<0.001	<1.0	<0.1	4.6	<0.001	<0.005	0.02	<0.3	<0.01	<0.1	<0.0001	<0.1
17-1R Ro	26-Sep-13	0.03		<5.0	<2000.0	0.158	<1.0	<0.1	4.2	<0.001	<0.01	0.03	<0.3	<0.01	<0.1	<0.0001	<0.1

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Field		General Parameters			Major Ions						Nutrients and Organic Indicators				
			pH (s.u)	EC (µS/cm)	pH (s.u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN
17-1R Ro (cont'd)	11-Mar-14	6.7	43,600	7.36	53,400	42,700	11,189	19,700	2,260	317	2,700	1,080	9,940	191	<0.1	<0.1	18.7	18.5
	18-Jun-14	6.9	57,600	8.00	54,400	43,500	11,339	20,000	1,950	292	2,760	1,080	9,720	184	<0.1	<0.1	20	17.9
	22-Sep-14	6.7	31,700	7.86	57,000	44,400	11,933	21,000	2,100	250	2,800	1,200	9,600	180	<0.1	<0.01	24	18
	26-Mar-15	7.1	30,700	7.66	57,000	38,000	11,933	22,000	2,300	280	2,800	1,200	10,000	200	<2.0	<0.2	19	19
	25-Jun-15	6.8	47,400	7.72	54,000	40,500	11,022	21,000	2,300	280	2,600	1,100	9,400	180	<1.0	<0.1	16	19
	17-Sep-15	6.7	53,400	7.96	58,000	38,700	12,183	23,000	2,200	250	2,900	1,200	10,000	190	<1.0			
	14-Mar-16			7.73	56,000	38,700	11,434	22,000	2,200	230	2,600	1,200	10,000	190	<1.0			
	28-Jun-16	6.7	45,300	7.37	60,000	37,700	12,595	21,000	2,300	300	2,900	1,300	9,600	200	<0.5	<0.05	21	19
	28-Sep-16	6.7	38,800	7.72	55,000	39,900	11,933	21,000	2,300	290	2,800	1,200	10,000	200	<0.5			
	28-Mar-17	6.8	56,500	7.69	57,000	37,200	11,933	19,000	2,100	280	2,800	1,200	11,000	220	<0.5			21
	26-Jun-17	7.0	60,900	7.64	57,000	41,900	10,772	21,000	2,100	300	2,500	1,100	9,300	180	<0.5	<0.05	22	19
	22-Sep-17	6.9	59,500	7.65	59,000	41,300	11,684	21,000	2,000	300	2,700	1,200	10,000	190	<0.5			19
	22-Mar-18	6.9	59,400	7.83	60,000	39,000	11,434	21,000	2,000	280	2,600	1,200	10,000	200	<0.5			19
	22-Jun-18	7.0	61,400	7.66	58,000	40,700	11,684	22,000	2,100	310	2,700	1,200	9,700	190	<0.5	<0.05	20	20
	28-Sep-18	7.2	53,100	7.99	60,000	36,500	11,933	22,000	2,200	280	2,800	1,200	10,000	190	<0.5			21
	26-Mar-19	6.9	56,900	7.70	58,000	39,700	11,684	21,000	2,200	290	2,700	1,200	10,000	200	<1.0			19
	19-Jun-19	6.9	56,200	7.96	55,000	38,900	11,684	23,000	2,300	280	2,700	1,200	10,000	200	<0.1	<0.01	20	19
	24-Sep-19	6.8	46,300	7.94	57,000	41,600	11,684	21,000	2,000	290	2,700	1,200	9,600	190	<0.1			20
	24-Mar-20	6.8	54,500	7.35	59,000	40,800	11,933	22,000	2,300	320	2,800	1,200	9,800	190	<0.1			20
	19-Jun-20	6.8	60,100	7.55	61,000	39,400	12,844	22,000	2,200	310	3,000	1,300	10,000	210	<1.0	<0.1	21	21
	28-Sep-20	6.9	51,800	8.01	56,000	40,900	12,183	23,000	2,300	290	2,900	1,200	10,000	200	<0.5			20
	25-Mar-21	7.0	55,900	7.86	58,000	38,900	11,684	24,000	2,400	270	2,700	1,200	9,800	200	<0.5			20
	30-Jun-21	6.4	52,700	7.60	57,000	33,100	12,183	23,000	2,100	300	2,900	1,200	10,000	200	<0.5	<0.05	23	19
	30-Sep-21	6.7	70,373	8.00	51,000	41,500	13,506	19,000	1,800	270	3,100	1,400	11,000	220	<0.5			19
	24-Mar-22	6.7	60,929	7.83	57,000	37,400	13,094	21,000	2,200	280	3,100	1,300	10,000	210	<0.1			20
	13-Jun-22	6.8	59,323	7.80	58,000	40,600	12,183	23,000	2,100	280	2,900	1,200	10,000	200	<0.1	0.014	22	20
	26-Sep-22	6.8	62,200	7.91	56,000	38,600	13,756	23,000	2,100	170	3,200	1,400	11,000	230	<0.1			20
	23-Mar-23	6.7	63,600	7.90	60,000	40,600	13,344	27,000	2,100	270	3,200	1,300	11,000	220	<1.0			21
	29-Jun-23	6.5	58,100	7.65	58,000	38,700	12,595	29,000	2,000	260	2,900	1,300	11,000	200	<1.0	<0.1	31	21
	28-Sep-23	6.9	54,300	7.92	44,000	36,500	11,933	26,000	2,300	230	2,800	1,200	11,000	210	<1.0			19
	14-Mar-24	6.8			7.61	61,000	39,600	12,183	25,000	2,200	190	2,900	1,200	9,700	210	<0.1		

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals									
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg
17-1R Ro (cont'd)	11-Mar-14	<0.01		<5.0	370	0.01	<0.1	<1.0	<1.0	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	18-Jun-14	<0.05		0.7	850	0.075	<0.01	<0.1	4.5	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1	<0.0001	<0.1
	22-Sep-14	0.035		1.4	340	0.18	<0.01	0.052	5.2	<0.001	<0.05	<0.05	<1.0	<0.005	0.046	<0.0001	<0.05
	26-Mar-15	0.033		1.2	340	0.29	<0.05	0.048	5.3	<0.001	<0.05	<0.01	<1.0	<0.005	0.034	<0.0001	<0.05
	25-Jun-15	0.088		1.2	290	0.23	<0.04	0.059	4.9	<0.002	<0.1	<0.02	<2.0	<0.01	0.055	<0.0001	<0.1
	17-Sep-15			1.9	250			<0.04	5.6				<2.0				
	14-Mar-16			1.3	320			<0.1	5.7				<5.0				
	28-Jun-16	<0.04		1.5	350	0.24	<0.05	0.028	5.4	<0.001	<0.05	<0.01	<1.0	<0.005	0.065	<0.0001	<0.05
	28-Sep-16			3.3	410			<0.1	6				<5.0				
	28-Mar-17			1.6	420			0.047	7.1				<1.0				
	26-Jun-17	0.15		1.3	320	0.16	<0.05	<0.1	5.3	<0.005	<0.25	<0.05	<5.0	<0.025	<0.1	<0.0001	<0.25
	22-Sep-17			2.3	220			<0.1	6.2				<5.0				
	22-Mar-18			<2.5	290			0.033	5.9				<1.0				
	22-Jun-18	<0.1		1.2	190	<0.02	<0.01	0.025	5.7	<0.001	<0.05	<0.01	<1.0	<0.005	0.086	<0.0001	<0.05
	28-Sep-18			1.3	310			0.035	5.4				<1.0				
	26-Mar-19			1.4	160			0.034	5				<0.5				
	19-Jun-19	0.019		1.2	380	0.023	<0.01	0.024	4.8	<0.001	<0.05	<0.01	<1.0	<0.005	0.054	<0.0001	<0.05
	24-Sep-19			1.2	160			0.023	4.8				<1.0				
	24-Mar-20			1.2	290			0.027	5.6				<1.0				
	19-Jun-20	<0.02		1.1	370	0.0058	<0.01	0.027	5.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.09	<0.0001	<0.05
	28-Sep-20			1.1	200			0.034	5.8				<1.0				
	25-Mar-21			1.3	300			0.033	5.5				<0.5				
	30-Jun-21	<0.04		1.1	280	0.0039	<0.01	0.03	5.8	<0.0009	<0.05	<0.009	<1.0	<0.005	0.092	<0.0001	<0.05
	30-Sep-21			1.2	190			0.035	5.4				<1.0				
	24-Mar-22			0.99	150			0.03	5.3				<1.0				
	13-Jun-22	0.015		1	430	0.0042	<0.01	0.028	4.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.1	<0.0001	<0.05
	26-Sep-22			1.1	380			0.033	5.8				<1.0				
	23-Mar-23			1.5	210			0.036	4.7				<1.0				
	29-Jun-23	0.01		1.3	230	<0.001	<0.01	0.032	4.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.1	<0.0001	<0.05
	28-Sep-23			2	210			0.034	4.5				<0.5				
	14-Mar-24			1.5	180			0.033	4.5				<1.0				

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
17-1R Ro (cont'd)	11-Jun-24	6.7		7.32	55,000	39,100	12,345	27,000	2,300	250	2,800	1,300	11,000	220	<0.1	0.012	21	18
	10-Sep-24	6.7	15,610	7.39	55,000	38,400	10,273	27,000	2,300	280	2,300	1,100	9,300	190	<0.1			18
	19-Mar-25	6.5		7.26	56,000	39,100	11,022	23,000	2,100	220	2,600	1,100	10,000	190	<0.1			19
	18-Jun-25	6.9	62,500	7.56	55,000	39,700	10,000	25,000	2,200	160	2,400	1,100	9,800	190	<0.1	<0.01	21	21
	9-Sep-25	6.6		7.64	58,000	39,600	11,933	24,000	2,200	240	2,800	1,200	10,000	210	<0.1			20
	17-Sep-25	6.7																
	11-Mar-26	7.0	3,999	7.82	60,000	38,800	24,000	2,300		240	2,900	1,200	11,000	210	<2.0	<0.2	22	20
17-2 L	17-Jun-09	7.4	7,590	7.32	6,900	5,520	2,334	1,330	1,450	371	661	166	765	33	<0.1	<0.1	2.86	2.69
	1-Oct-09	7.6	7,300	7.26	6,440	5,150	2,036	1,180	1,460	365	583	141	670	28	<0.1	<0.1	2.81	2.28
	16-Mar-10	7.2	4,230	7.37	5,930	4,740	2,007	1,050	1,420	340	568	143	633	33	<0.1	<0.1	2.99	2.1
	29-Jun-10	7.3	6,450	7.50	5,780	4,620	1,971	1,020	1,520	344	486	184	527	35	<0.1	<0.1	2.43	2.32
	20-Sep-10	7.5	6,000	7.50	5,660	4,530	1,861	1,040	1,550	335	508	144	550	26	0.26	<0.1	2.58	2.43
	25-Mar-11	7.8	5,590	7.11	5,760	4,610	1,885	1,050	1,510	344	519	143	595	25	0.17	<0.1	2.89	2.12
	15-Jun-11	7.8	1,720	8.05	2,700	2,020	913	367	609	333	242	75	220	14	<0.1	<0.1	1.46	1.26
	22-Sep-11	7.2	4,130	7.55	4,500	3,600	1,668	678	1,210	355	475	117	448	22	0.83	<0.1	2.8	2.52
	15-Mar-12	8.0	5,070	7.60	4,830	3,860	1,878	670	1,460	359	508	148	487	25	1.36	<0.1	3.55	2.6
	25-Jun-12	7.2	4,720	7.38	4,840	3,870	1,728	750	1,380	364	476	131	487	26	0.25	<0.1	2.56	2.58
	25-Sep-12	7.2	4,180	7.27	4,270	3,420	1,655	547	1,300	369	473	115	462	25	0.34	<0.1	3.12	2.68
	28-Mar-13	7.9	5,760	7.41	3,460	2,770	1,282	398	1,050	348	355	96	319	20	0.97	<0.1	2.14	1.79
	25-Jun-13	7.1	3,910	7.75	3,610	2,890	1,240	395	1,110	345	348	90	284	22	1.42	<0.1	2.73	2.62
	30-Sep-13	7.6	4,570	7.55	4,270	3,420	1,654	546	1,340	354	466	119	395	24	1.87	0.14	2.9	2.94
	11-Mar-14	7.3	624	7.66	611	397	310	27	33	247	91	20	16	1	0.85	<0.1	0.64	0.1
	18-Jun-14	7.0	705	7.76	723	470	351	26	48	306	106	21	34	2	<0.1	<0.1	0.52	0.15
	22-Sep-14	7.1	3,820	7.74	1,900	2,150	843	200	360	350	250	53	100	6	0.11	0.021	5.2	4
	26-Mar-15	7.5	470	7.61	1,600	556	585	160	310	240	170	39	84	8	0.36	0.024	2.2	0.74
	25-Jun-15	7.2	2,040	7.55	1,000	620	369	110	110	250	110	23	67	5	0.13	0.023	1.6	0.72
	17-Sep-15	7.3	1,860	7.61	2,300	1,430	1,013	290	510	270	300	64	140	9	0.69			
	14-Mar-16			7.87	770	478	320	46	130	170	95	20	29	3	2.83			
	28-Jun-16	7.8	1,390	7.73	1,200	786	436	94	220	250	130	27	66	5	0.26	0.032	0.77	0.36
	28-Sep-16	7.4	1,490	7.75	2,100	1,540	859	240	480	260	250	57	120	9	0.17			0.74
	28-Mar-17	8.3	475	7.79	640	404	297	30	79	190	91	17	21	2	0.95			<0.05

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
17-1R Ro (cont'd)	11-Jun-24	0.044		1.9	510	<0.001	<0.01	0.044	5.8	<0.0009	<0.05	<0.009	<1.0	<0.005	0.42	<0.0001	<0.05
	10-Sep-24			2	260			0.032	4.7				<0.5				
	19-Mar-25			1.7	390			0.038	5.1				<1.0				
	18-Jun-25	0.034		1.2	440	0.001	<0.01	0.036	5.1	<0.0009	<0.05	<0.009	<1.0	<0.005	0.22	<0.0001	<0.05
	9-Sep-25			2.5	250			0.04	5.6				<1.0				
	17-Sep-25					0.0097										<0.0001	
	11-Mar-26	0.005	120	1.4	280	0.0014	<0.01	0.041	4.8	<0.0009	<0.05	<0.009	<1.0	<0.005	0.11	<0.0001	<0.05
17-2 L	17-Jun-09	0.1		4.1	13	<0.001	0.02	<0.1	1.9	<0.001	0.01	<0.01	8.7	<0.01	0.3	<0.0001	<0.1
	1-Oct-09	0.02		2.8	19	<0.001	0.016	0.06	2	<0.0001	<0.005	0.003	3.87	<0.001	0.27	<0.0001	0.01
	16-Mar-10	<0.01		1.3	28	<0.001	<0.01	<0.1	1.6	<0.001	<0.005	<0.01	3.4	<0.01	0.3	<0.0001	<0.1
	29-Jun-10	0.02		2.3	20	<0.001	0.014	<0.1	1.8	<0.001	<0.005	<0.01	4.7	<0.01	0.3	<0.0001	<0.1
	20-Sep-10	0.03		2.3	25	<0.001	<0.1	<0.1	1.8	<0.001	<0.005	<0.01	4.3	<0.01	0.3	<0.0001	<0.1
	25-Mar-11	0.05		2.2	38	<0.001	<0.01	<0.1	1.9	<0.001	<0.1	<0.01	5.4	<0.01	0.3	<0.0001	<0.1
	15-Jun-11	0.01		4.5	25	<0.001	<0.01	0.07	0.9	<0.0001	0.004	0.002	1.46	<0.001	0.12	<0.0001	0.01
	22-Sep-11	0.01		3	28	<0.005	<0.01	0.07	1.3	<0.0001	0.007	0.004	0.86	<0.001	0.18	<0.0001	0.02
	15-Mar-12	0.02		7.9	28	<0.001	<0.01	0.06	1.7	<0.0001	<0.005	0.005	2.28	<0.001	0.19	<0.0001	0.02
	25-Jun-12	0.06		1.9	19	<0.001	<0.01	<0.1	1.5	<0.001	<0.1	<0.01	4.1	<0.01	0.3	<0.0001	<0.1
	25-Sep-12	<0.01		2.4	11	<0.001	<0.01	0.05	1.7	<0.0001	0.01	0.006	<0.03	<0.001	0.17	<0.0001	0.02
	28-Mar-13	0.01		3.1	107	<0.01	<0.01	0.04	1.3	0.0001	0.003	0.01	2.39	<0.001	0.17	<0.0001	0.03
	25-Jun-13	0.04		2.8	19	<0.001	<0.01	0.04	1.3	<0.0001	<0.005	0.005	4.22	<0.001	0.18	<0.0001	0.02
	30-Sep-13	0.07		1.8	26	0.013	<0.01	0.05	1.3	<0.0001	0.006	0.004	2.24	<0.001	0.24	<0.0001	0.01
	11-Mar-14	0.01		7	30	<0.001	<0.001	0.02	0.03	0.0002	<0.001	0.005	<0.03	<0.001	<0.01	<0.0001	<0.01
	18-Jun-14	<0.01		8.2	30	<0.001	0.001	0.03	0.07	<0.0001	<0.001	0.001	2.37	<0.001	0.37	<0.0001	<0.01
	22-Sep-14	0.64		7.9	23	0.012	0.0012	0.089	0.24	<0.0001	<0.005	<0.001	2.3	<0.0005	0.32	<0.0001	<0.005
	26-Mar-15	0.042		12	23	0.0017	0.0012	0.079	0.18	<0.0001	<0.005	0.0023	1.4	<0.0005	0.29	<0.0001	0.028
	25-Jun-15	0.069		4.8	15	<0.001	0.0017	0.037	0.13	<0.0001	<0.005	0.0013	3.1	<0.0005	0.15	<0.0001	0.0051
	17-Sep-15			3.9	15			0.11	0.35				2.3				
	14-Mar-16			4	<4.0			0.03	0.034				<0.1				
	28-Jun-16	0.026		4.8	16	<0.001	0.0019	0.042	0.14	<0.0001	<0.005	0.0012	2.8	<0.0005	0.18	<0.0001	0.0076
	28-Sep-16			5.1	13			0.09	0.3				3.7				
	28-Mar-17			2.5	<4.0			0.029	0.041				<0.1				

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
17-2 L (cont'd)	25-Jun-17	7.7	997	7.84	1,000	708	465	60	150	310	140	28	46	3	0.34	<0.01	0.62	0.15
	21-Sep-17	7.0	1,620	7.75	1,500	1,280	706	92	390	360	210	44	74	6	1.29			0.75
	22-Mar-18	7.4	1,020	8.01	1,100	650	527	49	120	410	160	31	33	2	0.5			0.44
	22-Jun-18	7.7	1,200	7.74	1,400	800	627	130	160	390	190	37	52	2	<0.1	<0.01	0.39	0.17
	24-Sep-18	7.6	1,760	7.97	2,000	1,400	938	230	360	360	280	58	95	5	1.35			0.43
	26-Mar-19	7.1	1,250	7.77	1,300	875	714	56	240	440	210	46	53	1	0.19			<0.05
	19-Jun-19	7.5	1,300	8.10	1,300	825	743	38	190	500	220	47	52	2	0.46	0.017	0.75	0.18
	24-Sep-19	6.8	1,240	7.83	1,600	1,100	743	85	310	480	220	47	83	3	0.18			0.26
	24-Mar-20	7.5	1,250	7.83	1,300	830	672	38	190	480	200	42	52	1	0.27			0.16
	19-Jun-20	7.1	1,260	7.87	1,400	835	656	69	230	450	190	44	65	2	<0.1	<0.01	0.59	0.37
	28-Sep-20	7.2	1,880	8.06	2,300	1,690	1,116	250	480	420	330	71	120	5	0.47			0.35
	25-Mar-21	7.8	1,980	7.81	2,200	1,370	979	230	500	380	290	62	120	5	<0.1			0.19
	30-Jun-21	7.2	1,370	7.88	1,500	1,060	714	110	320	400	210	46	73	3	0.1	<0.01	0.42	0.18
	30-Sep-21	7.3	3,241	7.86	2,600	2,010	1,349	370	630	380	400	85	150	7	0.56			0.85
	24-Mar-22	7.5	902	7.98	990	595	527	27	92	430	160	31	20	1	0.17			<0.05
	13-Jun-22	7.3	1,216	7.95	1,400	950	743	110	220	400	220	47	67	4	<0.1	<0.01	0.32	0.14
	26-Sep-22	7.4	3,810	7.85	2,700	1,800	1,378	350	580	380	410	86	160	7	0.33			0.6
	23-Mar-23	7.3	984	7.84	980	615	556	36	82	420	170	32	20	1	0.12			<0.05
	29-Jun-23	7.3	1,240	7.90	1,300	795	610	91	160	380	180	39	48	2	0.12	<0.01	0.48	0.14
	29-Sep-23	7.2	5,030	7.87	2,100	1,830	1,349	260	460	350	410	79	120	5	1.9			0.39
	14-Mar-24	7.8	1,440	7.96	960	585	498	25	120	380	150	30	20	1	0.17			<0.05
	12-Jun-24	7.6	900	8.12	1,000	600	531	61	130	340	160	32	38	2	0.21	0.011	0.69	0.066
	10-Sep-24	7.6	580	7.57	690	500	569	13	100	240	170	35	43	3	0.15			0.48
	19-Mar-25	7.4	1,130	7.75	1,000	525	407	71	110	300	120	26	17	1	1.8			<0.05
	18-Jun-25	7.5	950	7.91	900	530	460	25	99	350	140	28	21	1	0.65	<0.01	0.4	0.16
	10-Sep-25	7.5	3,530	7.55	2,100	1,540	606	250	390	320	180	38	70	4	0.64			0.39
	17-Sep-25	7.2	1,280															
	11-Mar-26	7.6	920	7.88	840	545		28	96	310	120	24	16	1	0.16	<0.01	0.59	<0.05
17-3 L	5-Jun-09 (2)																	
	1-Oct-09 (2)																	
	8-Mar-10 (2)																	

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
17-2 (cont'd)	L	25-Jun-17	0.009		4.2	6	<0.001	<0.001	0.043	0.084	0.00012	<0.005	0.0029	0.31	<0.0005	0.48	<0.0001	0.0097
		21-Sep-17			6.8	13			0.068	0.17				2.6				
		22-Mar-18			4.3	11			0.041	0.028				<0.1				
		22-Jun-18	0.005		4.3	9	<0.02	<0.001	0.055	0.063	0.00041	<0.005	0.0015	<0.1	<0.0005	1	<0.0001	0.0089
		24-Sep-18			3.3	12			0.083	0.15				<0.1				
		26-Mar-19			4.2	6			0.051	0.035				<0.1				
		19-Jun-19	<0.004		5.1	11	<0.001	<0.001	0.06	0.085	0.00021	<0.005	0.0095	<0.1	<0.0005	0.0077	<0.0001	<0.005
		24-Sep-19			3.8	13			0.071	0.11				1.4				
		24-Mar-20			3.5	4			0.05	0.071				<0.1				
		19-Jun-20	0.015		3.5	11	0.0013	<0.001	0.061	0.095	<0.00009	<0.005	<0.0009	1.9	<0.0005	0.38	<0.0001	<0.005
		28-Sep-20			3.2	9			0.1	0.23				0.61				
		25-Mar-21			3	5			0.096	0.25				0.41				
		30-Jun-21	<0.004		3.3	9	0.0014	<0.001	0.061	0.15	<0.00009	<0.005	<0.0009	0.39	<0.0005	0.25	<0.0001	<0.005
		30-Sep-21			3.2	13			0.12	0.34				1.3				
		24-Mar-22			3.8	20			0.041	0.056				<0.1				
		13-Jun-22	<0.008		2.9	12	<0.001	<0.001	0.073	0.17	0.00011	<0.005	<0.0009	0.43	<0.0005	0.24	<0.0001	<0.005
		26-Sep-22			3.1	11			0.11	0.4				1.5				
		23-Mar-23			3.5	11			0.042	0.054				<0.1				
		29-Jun-23	0.009		2.7	<4.0	<0.001	<0.001	0.055	0.12	0.00018	<0.005	0.022	<0.1	<0.0005	0.53	<0.0001	0.0055
		29-Sep-23			3.4	23			0.12	0.31				2				
		14-Mar-24			3.6	13			0.039	0.05				<0.1				
		12-Jun-24	0.093		4.9	34	<0.001	<0.001	0.048	0.087	0.00029	<0.005	0.0035	<0.1	<0.0005	0.11	<0.0001	0.0091
		10-Sep-24			4.2	21			0.06	0.13				1.2				
		19-Mar-25			3.3	11			0.031	0.046				<0.1				
		18-Jun-25	0.088		4.9	20	<0.001	<0.001	0.037	0.057	<0.00009	<0.005	0.0011	0.93	<0.0005	0.18	<0.0001	<0.005
		10-Sep-25			3	10			0.065	0.13				1.7				
		17-Sep-25					<0.001										<0.0001	
		11-Mar-26	<0.001	13	4.1	160	<0.001	<0.001	0.031	0.043	<0.00009	<0.005	0.0017	<0.1	<0.0005	<0.002	<0.0001	<0.005
17-3	L	5-Jun-09 (2)																
		1-Oct-09 (2)																
		8-Mar-10 (2)																

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
			pH (s u)	E C (µs/cm)	pH (s u)	E C (µs/cm)	T D S	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	T K N	Ammonia NH ₃
17-3 L (cont'd)	22-Jun-10 (2)																		
	17-Sep-10 (2)																		
	25-Mar-11 (2)																		
	15-Jun-11 (2)																		
	14-Sep-11 (2)																		
	13-Mar-12 (2)																		
	7-Jun-12 (2)																		
	20-Sep-12 (2)																		
	12-Mar-13 (2)																		
	12-Jun-13 (2)																		
	20-Sep-13 (2)																		
	11-Mar-14 (2)																		
	18-Jun-14 (2)																		
	22-Sep-14 (2)																		
	26-Mar-15 (2)																		
	25-Jun-15 (2)																		
	17-Sep-15 (2)																		
	28-Jun-16 (2)																		
	28-Sep-16 (2)																		
	28-Mar-17 (2)																		
	25-Jun-17 (2)																		
	21-Sep-17 (2)																		
	22-Mar-18 (2)																		
	22-Jun-18 (2)																		
	24-Sep-18 (2)																		
	26-Mar-19 (2)																		
	19-Jun-19 (2)																		
	24-Sep-19 (2)																		
	24-Mar-20 (2)																		
	19-Jun-20 (2)																		
	28-Sep-20 (2)																		

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
17-3 L (cont'd)	22-Jun-10 (2)																
	17-Sep-10 (2)																
	25-Mar-11 (2)																
	15-Jun-11 (2)																
	14-Sep-11 (2)																
	13-Mar-12 (2)																
	7-Jun-12 (2)																
	20-Sep-12 (2)																
	12-Mar-13 (2)																
	12-Jun-13 (2)																
	20-Sep-13 (2)																
	11-Mar-14 (2)																
	18-Jun-14 (2)																
	22-Sep-14 (2)																
	26-Mar-15 (2)																
	25-Jun-15 (2)																
	17-Sep-15 (2)																
	28-Jun-16 (2)																
	28-Sep-16 (2)																
	28-Mar-17 (2)																
	25-Jun-17 (2)																
	21-Sep-17 (2)																
	22-Mar-18 (2)																
	22-Jun-18 (2)																
	24-Sep-18 (2)																
	26-Mar-19 (2)																
	19-Jun-19 (2)																
	24-Sep-19 (2)																
	24-Mar-20 (2)																
	19-Jun-20 (2)																
	28-Sep-20 (2)																

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Field		General Parameters			Major Ions							Nutrients and Organic Indicators			
			pH (s u)	E C (µS/cm)	pH (s u)	E C (µS/cm)	T D S	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	T K N
17-3 L (cont'd)	25-Mar-21 (2)																	
	30-Jun-21 (1)																	
	30-Sep-21 (2)																	
	24-Mar-22 (2)																	
	13-Jun-22 (2)																	
	26-Sep-22 (2)																	
	23-Mar-23 (2)																	
	29-Jun-23 (2)																	
	29-Sep-23 (2)																	
	14-Mar-24 (2)																	
	11-Jun-24 (2)																	
	10-Sep-24 (2)																	
	19-Mar-25 (2)																	
	18-Jun-25 (2)																	
	9-Sep-25 (2)																	
11-Mar-26 (2)																		
19-1R Ro	22-Jun-09	7.4	39,600	7.58	37,700	30,200	9,236	12,600	2,070	128	2,000	1,030	6,530	164	<0.1	<0.1	14.6	12.3
	30-Jun-10	7.8	31,200	7.56	33,800	27,000	6,542	12,300	1,920	202	1,370	758	5,070	125	0.19	<0.1	16.2	12.7
	14-Jun-11	7.8	16,400	7.67	28,200	22,600	4,182	8,780	2,380	173	860	494	4,240	90	<0.1	0.5	12	10.4
	20-Jun-14	7.5	15,000	7.70	12,500	10,000	1,423	2,860	2,180	238	301	163	2,430	53	2.66	0.14	1.39	1.23
19-1R2 Ro	26-Jun-18	7.5	15,900	7.58	24,000	12,900	3,182	6,900	2,300	290	730	330	3,900	88	<0.1	<0.01	11	12
	13-Jun-22	7.1	17,229	7.70	20,000	13,600	2,942	5,800	1,900	450	700	290	3,400	86	<0.1	<0.01	9.2	9.2
19-3R L	22-Jun-09 (2)																	
	5-Oct-09 (2)																	
	10-Mar-10	7.6	3,940	7.28	3,750	2,810	1,521	783	708	309	286	196	265	11	0.11	<0.1	0.9	0.26
	28-Jun-10	7.5	3,130	7.60	3,350	2,680	1,335	521	763	318	284	152	186	11	<0.1	<0.1	0.23	0.25
	17-Sep-10 (2)																	
	18-Mar-11	7.8	3,420	7.55	3,630	2,720	1,354	720	624	312	257	173	248	10	<0.1	<0.1	0.49	0.25
	14-Jun-11	7.2	3,290	8.13	3,530	2,650	1,290	632	596	331	228	175	201	8	0.18	<0.1	0.25	0.21
	15-Sep-11 (2)																	
	13-Mar-12	7.4	3,730	7.51	3,740	2,800	1,452	704	674	340	265	192	245	9	0.22	<0.1	0.54	0.1

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
17-3 L (cont'd)	25-Mar-21 (2)																
	30-Jun-21 (1)																
	30-Sep-21 (2)																
	24-Mar-22 (2)																
	13-Jun-22 (2)																
	26-Sep-22 (2)																
	23-Mar-23 (2)																
	29-Jun-23 (2)																
	29-Sep-23 (2)																
	14-Mar-24 (2)																
	11-Jun-24 (2)																
	10-Sep-24 (2)																
	19-Mar-25 (2)																
	18-Jun-25 (2)																
	9-Sep-25 (2)																
	11-Mar-26 (2)																
19-1R Ro	22-Jun-09	<0.01		1.8	1,460	0.002	0.18	<0.1	4.2	<0.001	<0.01	<0.01	<0.3	<0.01	0.4	<0.0001	<0.1
	30-Jun-10	<0.01		2.6	650	<0.001	<0.1	<1.0	123	<0.01	<0.1	<0.1	10	<0.1	<1.0	<0.0001	<1.0
	14-Jun-11	0.01		2.2	575	<0.005	<0.1	<0.1	190	<0.001	<0.01	<0.01	7.4	<0.01	0.2	<0.0001	<0.1
	20-Jun-14	0.03		1.9	50	<0.001	<0.01	<0.1	78	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1	<0.0001	<0.1
19-1R2 Ro	26-Jun-18	0.029		49	180	<0.005	0.016	0.042	3.1	<0.001	<0.05	<0.01	<1.0	<0.005	0.14	<0.0001	<0.05
	13-Jun-22	0.037		34	130	<0.001	<0.005	0.036	3.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.084	<0.0001	<0.025
19-3R L	22-Jun-09 (2)																
	5-Oct-09 (2)																
	10-Mar-10	<0.01		2.4	10	<0.001	0.002	0.03	0.89	<0.0001	<0.005	0.002	0.15	<0.001	0.06	<0.0001	<0.01
	28-Jun-10	<0.01		2.4	45	<0.001	<0.001	0.02	0.45	<0.0001	0.008	0.002	<0.03	<0.001	0.03	<0.0001	<0.01
	17-Sep-10 (2)																
	18-Mar-11	<0.01		2	<5.0	<0.001	<0.01	0.03	0.85	<0.0001	0.003	0.002	0.31	<0.001	0.08	<0.0001	<0.01
	14-Jun-11	0.02		2.2	15	<0.001	<0.001	0.03	0.72	<0.0001	0.007	0.002	0.2	<0.001	0.05	<0.0001	<0.01
	15-Sep-11 (2)																
	13-Mar-12	<0.01		2	<5.0	<0.01	<0.001	0.03	1	<0.0001	<0.001	0.002	0.11	<0.001	0.07	<0.0001	<0.01

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
19-3R L (cont'd)	26-Jun-12	7.5	4,080	7.25	3,490	2,620	1,363	636	658	343	272	166	198	9	0.24	<0.1	0.96	0.18
	20-Sep-12 (2)																	
	28-Mar-13	7.3	4,160	7.38	3,700	2,780	1,496	769	653	336	289	188	228	10	0.1	<0.1	0.29	0.16
	27-Jun-13	7.1	4,010	7.47	3,880	2,910	1,404	796	624	329	254	187	234	10	0.13	<0.1	0.31	0.26
	26-Sep-13	7.3	3,610	7.62	3,720	2,790	1,598	683	744	345	348	177	203	11	0.39	<0.1	0.31	0.15
	11-Mar-14	7.2	3,620	7.29	3,980	2,980	1,673	832	697	319	322	211	266	11	<0.1	<0.1	0.58	0.4
	18-Jun-14	7.3	3,660	7.67	3,860	2,900	1,645	733	736	345	342	192	250	11	0.22	<0.1	0.28	0.2
	22-Sep-14	6.9	3,160	7.68	3,700	3,420	1,690	580	870	340	380	180	200	11	0.29	<0.01	0.42	0.11
	26-Mar-15	7.3	3,910	7.59	4,300	2,830	1,739	870	680	340	350	210	270	13	<0.1	<0.01	0.3	0.27
	26-Jun-15	6.9	3,840	7.51	4,200	2,820	1,846	870	690	340	360	230	290	13	0.27	<0.01	0.73	0.064
	16-Sep-15	6.8	3,920	7.67	4,400	3,620	1,938	840	920	330	430	210	270	13	<0.1			
	14-Mar-16			7.64	4,400	2,870	1,822	810	890	330	400	200	250	13	0.14			
	27-Jun-16	7.0	3,790	7.60	4,300	3,020	1,831	780	870	340	420	190	240	12	0.29	<0.01	0.34	0.11
	28-Sep-16	7.0	3,140	7.69	3,800	3,210	1,715	640	830	340	390	180	200	11	0.39			0.087
	22-Mar-17	7.5	4,600	7.49	4,600	3,410	2,080	830	920	340	470	220	280	14	0.29			<0.05
	23-Jun-17	7.4	4,590	7.62	4,500	3,280	2,012	910	780	350	410	240	310	14	<0.1	<0.01	0.85	0.34
	22-Sep-17	6.9	4,450	7.63	4,700	3,620	1,855	930	820	350	380	220	280	13	0.12			0.47
	22-Mar-18	7.2	4,300	8.15	4,700	3,180	1,673	950	730	360	340	200	250	12	0.15			0.47
	26-Jun-18	7.5	3,990	7.58	4,300	2,860	1,756	830	810	350	390	190	250	12	0.46	<0.01	0.38	0.1
	28-Sep-18	7.1	4,120	7.51	4,400	2,980	1,996	830	840	360	420	230	290	13	0.23			0.37
	26-Mar-19	7.0	4,220	7.60	4,600	3,030	1,955	890	820	340	420	220	320	13	0.29			0.31
	18-Jun-19	7.1	4,470	7.74	5,000	3,360	1,945	1,300	600	360	350	260	370	13	0.21	0.028	0.36	0.19
	26-Sep-19	6.7	4,270	7.86	5,000	3,260	1,988	990	920	350	450	210	310	13	<0.1			0.41
	24-Mar-20	7.2	5,220	7.48	5,500	3,570	2,045	1,300	690	360	390	260	400	13	0.22			0.33
	19-Jun-20	6.9	5,000	7.61	5,100	3,600	2,028	1,100	730	360	400	250	360	12	0.16	0.015	0.5	0.24
	28-Sep-20	7.0	4,400	7.85	4,600	3,410	2,005	910	890	360	440	220	310	13	0.43			<0.05
	25-Mar-21	6.9	4,500	7.60	5,000	3,260	2,105	1,000	940	350	480	220	320	14	<0.1			0.46
	30-Jun-21	7.1	4,160	7.57	4,900	3,190	1,930	1,100	770	360	410	220	370	13	0.26	0.031	0.45	0.2
	30-Sep-21	7.1	5,793	7.89	4,200	3,570	2,030	1,100	880	350	450	220	350	14	<0.1			0.55
	31-Mar-22	7.0	5,337	7.73	5,000	3,450	2,021	1,100	840	370	430	230	390	14	<0.1			0.58
	13-Jun-22	6.8	4,920	7.71	5,100	3,140	2,162	1,000	950	350	470	240	370	15	0.14	0.029	0.86	0.45

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
19-3R L (cont'd)	26-Jun-12	<0.01		1.8	15	<0.001	<0.001	0.02	0.55	<0.0001	0.008	0.001	0.12	<0.001	0.03	<0.0001	<0.01
	20-Sep-12 (2)																
	28-Mar-13	<0.01		1.8	13	<0.01	<0.001	0.02	0.68	<0.0001	0.004	0.002	0.06	<0.001	0.07	<0.0001	<0.01
	27-Jun-13	<0.01		2.6	6	<0.001	<0.01	0.03	0.6	<0.0001	0.008	0.002	0.05	<0.001	0.1	<0.0001	<0.01
	26-Sep-13	<0.01		2.2	40	<0.001	<0.01	0.03	0.71	<0.0001	0.008	0.002	0.14	<0.001	0.05	<0.0001	<0.01
	11-Mar-14	<0.01		2.4	11	<0.001	<0.001	0.03	0.76	<0.0001	<0.001	<0.001	0.04	<0.001	0.14	<0.0001	<0.01
	18-Jun-14	<0.01		2	6	<0.001	<0.001	0.02	0.6	<0.0001	<0.001	<0.001	0.16	<0.001	0.04	<0.0001	<0.01
	22-Sep-14	0.003		1.7	7	<0.001	<0.001	0.025	0.56	<0.0001	<0.005	<0.001	0.19	<0.0005	0.031	<0.0001	<0.01
	26-Mar-15	<0.004		1.8	11	<0.001	<0.001	0.021	0.65	<0.0001	<0.005	<0.001	0.18	<0.0005	0.083	<0.0001	0.009
	26-Jun-15	<0.004		1.8	8	<0.001	0.0014	0.021	0.57	<0.0001	<0.005	<0.001	1.7	<0.0005	0.04	<0.0001	<0.01
	16-Sep-15			1.7	<4.0			0.025	0.61				0.61				
	14-Mar-16			1.7	10			0.022	0.62				<0.1				
	27-Jun-16	<0.004		1.7	16	<0.001	<0.001	0.022	0.61	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.016	<0.0001	<0.01
	28-Sep-16			3.2	10			0.023	0.5				<0.1				
	22-Mar-17			1.9	10			0.024	0.71				0.11				
	23-Jun-17	<0.004		1.7	12	<0.001	<0.001	0.024	0.64	<0.0001	<0.005	0.0014	<0.1	<0.0005	0.044	<0.0001	0.012
	22-Sep-17			1.9	8			0.021	0.64				<0.1				
	22-Mar-18			2.2	10			0.022	0.51				<0.1				
	26-Jun-18	<0.004		2.8	<4.0	<0.001	<0.001	0.02	0.5	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.0052	<0.0001	<0.005
	28-Sep-18			2.6	6			0.021	0.57				<0.1				
	26-Mar-19			1.8	8			0.02	0.62				<0.1				
	18-Jun-19	0.004		1.8	13	<0.001	<0.001	0.024	0.5	<0.0001	<0.005	0.029	<0.1	<0.0005	0.066	<0.0001	0.008
	26-Sep-19			1.6	10			0.023	0.54				<0.1				
	24-Mar-20			2.1	11			0.025	0.5				<0.1				
	19-Jun-20	<0.004		1.7	15	<0.001	<0.001	0.024	0.5	<0.00009	<0.005	0.00099	<0.1	<0.0005	0.034	<0.0001	0.0072
	28-Sep-20			1.8	<4.0			0.025	0.56				<0.1				
	25-Mar-21			1.7	11			0.022	0.59				<0.1				
	30-Jun-21	<0.004		1.6	8	0.0027	<0.001	0.021	0.59	<0.00009	<0.005	0.035	<0.1	0.00075	0.028	<0.0001	0.0058
	30-Sep-21			1.6	13			0.021	0.62				<0.1				
	31-Mar-22			2.2	14			0.022	0.61				<0.1				
	13-Jun-22	<0.008		1.8	13	<0.001	<0.001	0.02	0.59	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.062	<0.0001	<0.005

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
19-3R L (cont'd)	23-Sep-22	6.9	5,270	7.81	5,100	3,020	2,262	1,000	1,100	330	510	240	360	15	<0.1			0.38
	23-Mar-23	6.8	5,420	7.50	5,400	3,350	2,062	1,100	790	360	430	240	440	15	<0.1			0.5
	27-Jun-23	7.0	4,980	7.76	5,300	3,840	2,127	1,100	660	360	390	280	470	14	0.31	0.014	0.68	0.15
	28-Sep-23	7.2	2,680	7.67	5,300	3,730	2,309	1,500	810	360	430	300	530	15	<0.1			0.42
	12-Mar-24	7.2	5,380	7.41	5,800	3,800	2,475	1,300	960	350	480	310	520	15	<0.1			0.54
	11-Jun-24	7.1	4,650	7.52	7,100	5,200	2,522	2,000	720	390	400	370	770	15	<0.1	<0.01	0.72	0.38
	10-Sep-24	7.2	2,120	7.30	5,500	4,100	2,218	1,100	780	350	410	290	530	13	0.27			0.051
	18-Mar-25	6.8	4,340	7.46	7,200	4,710	1,953	1,700	700	380	370	250	340	11	<0.1			0.4
	17-Jun-25	7.1	5,480	7.44	6,000	3,930	2,200	1,500	730	370	350	320	640	12	0.14	<0.01	0.53	0.41
	9-Sep-25	6.9	5,370	7.51	6,300	4,760	2,177	1,500	720	380	410	280	470	13	0.11			0.29
	17-Sep-25	7.2	2,420															
	11-Mar-26	7.3	3,768	7.20	7,100	4,800		2,000	790	370	400	320	620	12	<0.1	<0.01	0.34	0.37
23-1R Ro	5-Jul-10	7.4	3,240	7.65	3,160	2,530	1,420	89	1,480	351	332	143	247	31	<0.1	<0.1	3.07	2.37
	18-May-11	7.1	6,780	7.98	7,640	6,110	2,380	1,460	2,310	285	544	249	845	49	1.05	<0.1	4.82	4.6
	16-Jun-11	7.1	5,610	7.74	7,100	5,680	2,170	1,100	2,210	286	472	240	847	50	1.24	<0.1	4.71	4.27
	18-Jun-14	7.4	6,190	7.60	7,390	5,910	2,350	1,300	1,790	281	592	212	838	55	<0.1	<0.1	4.27	3.83
	21-Jun-18	7.5	2,510	7.70	3,600	2,700	1,500	190	1,400	380	350	150	290	32	<0.1	<0.01	2.1	2
	16-Jun-22	7.2	4,435	7.76	4,600	3,440	1,400	350	1,800	340	330	130	600	44	<0.1	<0.01	3	2.7
	19-Jun-25	7.3	3,110	7.70	3,100	2,200	1,000	140	1,200	340	250	100	330	33	0.14	0.122	1.8	1.6
	22-Sep-25	7.4	2,980	7.36	2,800	2,140	1,200	84	1,100	330	280	120	240	32	2.42	0.05	0.54	0.27
39-1 Ir	2-Jan-09	6.7	51,600	7.08	48,000	38,400	11,545	17,900	1,590	376	2,760	1,130	7,170	148	<0.1	<0.1	13	10.9
	1-Feb-09			7.08	48,000	38,400	11,545	17,900	1,590	376	2,760	1,130	7,170	148	<0.1	<0.1	13	10.9
	20-Mar-09	7.2	26,700	6.96	23,800	19,000	3,946	7,170	1,480	384	970	370	3,850	83	<0.1	<0.1	8.16	8
	15-Mar-10	7.0	28,700	7.13	22,300	17,800	3,481	6,750	1,820	450	853	328	3,890	87	<0.1	<0.1	8	7.87
	16-Feb-11	7.0	31,600	7.12	35,300	28,200	6,712	13,300	1,690	346	1,560	684	5,900	132	<0.1	<0.1	20.3	12
	6-Feb-12	6.9	42,200	6.87	38,600	30,900	7,220	13,000	1,770	345	1,790	668	7,010	119	<0.1	<0.1	14.1	13.4
	25-Feb-13	6.7	42,600	7.17	35,700	28,600	6,737	12,200	1,930	385	1,560	690	5,940	105	<0.1	<0.1	13.9	11.2
	19-Feb-14	6.5	31,200	6.80	41,600	33,300	7,727	15,800	1,560	349	1,800	785	7,880	139	<0.1	<0.1	15	14
	25-Feb-15	6.8	30,100	7.23	45,000	30,300	9,573	16,000	2,000	270	2,300	930	7,700	160	<0.5	<0.05	14	15
	9-Feb-16	6.5	43,000	7.24	43,000	29,400	9,449	16,000	1,800	300	2,300	900	7,800	150	<0.5	<0.05	15	14
	6-Mar-17	6.7	43,100	7.14	42,000	26,900	7,915	15,000	1,800	300	1,900	770	6,500	140	<0.1	0.049	15	15

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
19-3R L (cont'd)	23-Sep-22			1.6	15			0.022	0.64				<0.1				
	23-Mar-23			1.9	17			0.023	0.54				<0.1				
	27-Jun-23	<0.004		1.8	25	<0.001	<0.001	0.028	0.5	<0.00009	<0.005	0.0055	<0.1	<0.0005	0.027	<0.0001	0.0081
	28-Sep-23			1.9	9			0.029	0.53				0.28				
	12-Mar-24			1.8	16			0.027	0.49				0.32				
	11-Jun-24	0.026		1.8	9	<0.001	<0.001	0.035	0.38	<0.00009	<0.005	<0.0009	0.88	<0.0005	0.11	<0.0001	0.0057
	10-Sep-24			1.9	9			0.029	0.39				<0.1				
	18-Mar-25			1.7	12			0.027	0.36				<0.1				
	17-Jun-25	0.025		1.8	17	<0.001	<0.001	0.036	0.31	<0.00009	<0.005	<0.0009	1	<0.0005	0.12	<0.0001	<0.005
	9-Sep-25			1.6	16			0.031	0.33				0.34				
	17-Sep-25					<0.001										<0.0001	
	11-Mar-26	<0.004	<2.0	1.7	21	0.001	<0.001	0.038	0.37	<0.00009	<0.005	<0.0009	0.71	<0.0005	0.073	<0.0001	<0.005
23-1R Ro	5-Jul-10	0.02		3.2	<0.001			<0.01	2.7	<0.0001	0.003	0.002	1.11	<0.001	0.06		<0.01
	18-May-11	<0.01		90.4	<0.02			0.01	2.38	<0.0001	0.006	0.006	0.26	<0.001	0.1		<0.01
	16-Jun-11	0.01		1.7	0.014			<0.1	3	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	18-Jun-14	0.02		2.2	0.013			<0.1	3.1	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	21-Jun-18	0.02		4.3	<0.001			0.007	2.3	<0.0001	<0.005	<0.001	0.52	<0.0005	0.061		<0.005
	16-Jun-22	0.021		2.8	<0.001			0.007	3.7	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.051		<0.005
	19-Jun-25	0.3		3.8	<0.001			0.05	2.9	<0.00009	<0.005	<0.0009	0.24	<0.0005	0.15		<0.005
	22-Sep-25	0.076		2.9	<0.001			0.009	3.8	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.055		<0.005
39-1 Ir	2-Jan-09	0.07		0.9	1,680	0.016	0.1	<1.0	5	<0.01	<0.1	<0.1	3	<0.1	<1.0	<0.0001	<1.0
	1-Feb-09	0.07		0.9	1,680	0.016	0.1	<1.0	5	<0.01	<0.1	<0.1	3	<0.1	<1.0	<0.0001	<1.0
	20-Mar-09	<0.01		2.9	507	0.005	0.08	<0.1	4.4	<0.001	0.047	<0.01	<0.3	<0.01	0.1	<0.05	<0.1
	15-Mar-10	<0.01		16.4	400	0.01	<0.1	<1.0	6	<0.01	<0.005	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	16-Feb-11	0.01		1.9	1,550	<0.02	<0.001	<0.1	5	<0.001	<0.005	0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	6-Feb-12	<0.01		4.3	450	<0.01	<1.0	<0.1	5.6	<0.001	<0.005	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	25-Feb-13	<0.01		2.9	560	0.03	<0.1	<0.1	6.2	<0.001	<0.01	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	19-Feb-14	<0.01		2.7	140	<0.01	<0.1	<1.0	7	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	25-Feb-15	0.04		2.4	140	0.091	<0.01	0.031	6.6	<0.001	<0.05	<0.05	<1.0	<0.005	0.27	<0.0001	<0.05
	9-Feb-16	<0.04		2.3	310	0.073	<0.05	<0.1	6.3	<0.005	<0.25	<0.05	<5.0	<0.025	0.28	<0.0001	<0.25
	6-Mar-17	0.03		2.3	240	0.055	<0.005	0.028	6.7	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.24	0.0002	<0.025

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
39-1 Ir (cont'd)	12-Mar-18	6.6	35,900	7.22	38,000	24,900	7,295	13,000	1,800	370	1,800	680	6,400	130	<0.1	<0.01	13	13
	12-Mar-19	6.6	41,000	7.08	42,000	28,400	8,206	15,000	1,700	340	2,000	780	6,200	140	<0.1	<0.01	13	13
	5-Mar-20	6.4	45,800	7.14	44,000	29,900	9,449	15,000	1,500	320	2,300	900	6,400	140	<0.1	0.012	14	14
	9-Mar-21	6.6	49,700	7.06	51,000	33,600	12,183	19,000	1,500	320	2,900	1,200	8,300	190	<0.1	0.017	16	16
	11-Mar-22	6.4	46,607	6.87	57,000	39,400	14,093	27,000	1,200	310	3,500	1,300	8,500	170	<0.1	0.016	21	17
	2-Mar-23	6.4	71,400	7.09	67,000	42,700	17,987	34,000	1,600	290	4,400	1,700	11,000	240	<0.5	<0.05	20	18
	6-Mar-24	6.7	20,000	7.08	74,000	51,500	19,648	30,000	1,400	270	4,900	1,800	12,000	250	<0.1	0.023	26	19
	19-Mar-25	7.4	1,760	7.31	27,000	33,100	5,843	9,000	630	230	1,400	570	3,500	66	<0.1	<0.01	2	1.4
	4-Mar-26	6.7	20,000	7.19	57,000	43,600		20,000	1,000	170	3,200	1,300	8,400	170	<0.1	0.078	9.5	7.6
40-1 Re	9-Jan-09	7.2	30,600	7.39	26,900	21,500	5,407	8,700	1,400	371	1,400	464	4,220	135	<0.1	<0.1	15.3	13
	31-Mar-09	7.3	31,300	8.16	29,700	23,800	5,510	10,800	1,720	307	1,420	477	4,520	128	<0.1	<0.1	17	14.2
	1-Sep-09			7.39	26,900	21,500	5,407	8,700	1,400	371	1,400	464	4,220	135	<0.1	<0.1	15.3	13
	16-Mar-10	6.9	32,200	7.58	28,500	22,800	5,638	9,560	2,040	333	1,590	405	5,200	86	<0.1	<0.1	15.2	13.3
	4-Mar-11	7.5	29,700	8.20	33,500	26,800	7,313	11,400	2,440	242	1,860	648	4,570	155	<0.1	<0.1	18.3	15.1
	15-Feb-12	7.5	37,900	7.64	31,100	24,900	5,786	10,400	2,720	369	1,420	544	4,840	128	<0.1	<0.1	17.6	13.7
	1-Mar-13	8.4	31,400	7.57	25,000	20,000	4,269	7,600	2,520	360	1,040	406	4,540	112	<0.1	<0.1	14.5	11.2
	24-Feb-14	7.1	17,300	7.49	18,900	15,100	3,418	5,370	2,210	362	864	306	3,230	102	<0.1	<0.1	11.1	10.2
	26-Feb-15	7.0	14,200	7.38	18,000	12,000	3,375	5,900	2,500	340	890	280	3,000	97	<1.0	<0.1	9	9.9
	29-Feb-16	6.6	16,900	7.51	18,000	12,800	3,309	5,000	2,300	350	880	270	2,800	97	<0.1	0.026	9.2	9.7
40-1R Ir	9-Mar-17	7.3	37,500	7.84	51,000	28,900	8,494	18,000	1,600	270	2,000	850	6,700	150	<1.0	<0.1	17	18
	12-Mar-18	6.7	42,900	7.39	53,000	34,900	11,022	21,000	1,800	310	2,600	1,100	9,100	190	<1.0	<0.1	19	16
	13-Mar-19	7.3	23,900	7.55	31,000	21,100	5,429	10,000	1,800	340	1,300	530	4,800	96	<0.1	<0.01	9.7	9.6
	9-Mar-20	6.8	53,600	7.15	49,000	17,400	10,028	18,000	2,000	320	2,400	980	8,600	170	<0.1	0.014	11	10
	10-Mar-21	7.1	18,800	7.45	14,000	8,470	2,954	3,700	1,800	380	820	220	2,600	63	<0.1	<0.01	5.5	5.8
	14-Mar-22	7.0	9,867	7.51	12,000	7,520	2,332	3,200	1,700	390	670	160	1,900	54	<0.1	<0.01	6	5.7
	7-Mar-23	7.1	10,300	7.56	10,000	6,390	2,332	2,300	1,900	360	670	160	1,500	49	<0.1	<0.01	5.6	5.4
	6-Mar-24	7.5	8,440	7.89	7,800	4,660	1,220	1,600	1,300	450	350	84	1,200	35	0.15	<0.01	3.9	3.5
	3-Mar-25	7.5	5,120	7.74	5,200	3,520	879	1,000	840	450	240	68	950	27	0.4	0.013	2.8	2.4
	18-Jun-25	7.2	6,980	7.96	6,600	4,360	1,100	1,300	1,100	440	320	82	1,100	34	0.27	0.052	3.6	3.5
	22-Sep-25	7.4	7,120	7.50	7,500	4,950	1,200	1,400	1,400	430	340	92	1,300	41	<0.1	<0.01	4.4	4.3
	4-Mar-26	7.8	6,580	7.83	6,500	4,190		990	1,000	440	230	68	1,100	35	<0.1	<0.01	4.1	3.7

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
39-1 Ir (cont'd)	12-Mar-18	<0.02		2.2	93	0.044	<0.01	<0.02	6.1	<0.001	<0.05	<0.01	<1.0	<0.005	0.27	<0.0001	<0.05
	12-Mar-19	0.04		2.3	210	<0.01	<0.01	0.037	5	<0.001	<0.05	<0.01	<1.0	<0.005	0.37	<0.0001	<0.05
	5-Mar-20	<0.02		2	120	<0.001	<0.01	0.046	3.8	<0.001	<0.05	<0.01	<1.0	<0.005	0.43	<0.0001	<0.05
	9-Mar-21	0.015		2.2	130	<0.002	<0.005	0.051	4.2	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.51	<0.0001	<0.025
	11-Mar-22	<0.02		2.1	290	<0.002	<0.01	0.07	3.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.64	<0.0001	<0.05
	2-Mar-23	0.025		2.1	240	<0.001	<0.01	0.077	2.5	<0.0009	<0.05	<0.009	<1.0	<0.005	1.1	<0.0001	<0.05
	6-Mar-24	0.041		2.2	300	0.001	<0.01	0.12	2.3	<0.0009	<0.05	<0.009	<1.0	<0.005	0.97	<0.0001	<0.05
	19-Mar-25	2.6		3.8	30	0.0021	<0.005	0.33	1	<0.00045	<0.025	<0.0045	2	<0.0025	0.59	<0.0001	<0.025
	4-Mar-26	0.072		3.8	170	0.0021	<0.005	0.53	1.9	<0.00045	<0.025	<0.0045	0.81	<0.0025	1.4	<0.0001	<0.025
40-1 Re	9-Jan-09	0.14		1.5	695	0.178	<0.01	<0.1	<0.1	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1	<0.0001	<0.1
	31-Mar-09	0.09		4.5	710	0.161	0.15	<0.1	2	<0.001	0.02	0.02	<0.3	<0.01	0.5	<0.0001	<0.1
	1-Sep-09	0.14		1.5	695	0.178	<0.01	<0.1	<0.1	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1	<0.0001	<0.1
	16-Mar-10	0.13		1.1	900	0.065	<0.1	<0.1	1.8	<0.001	<0.005	0.02	<0.3	<0.01	0.5	<0.0001	<0.1
	4-Mar-11	0.13		6.4	1,350	0.06	<0.1	<0.1	2.9	<0.001	<0.005	0.02	<0.3	<0.01	0.6	<0.0001	<0.1
	15-Feb-12	0.09		6	410	<0.01	<1.0	<0.1	3.8	<0.001	<0.05	0.03	<0.3	<0.01	0.4	<0.0001	<0.1
	1-Mar-13	0.1		9	615	0.011	<0.1	<0.1	4.2	<0.001	<0.5	0.01	<0.3	<0.01	0.3	<0.0001	<0.1
	24-Feb-14	0.06		2.4	160	<0.02	<0.01	<0.1	4.5	<0.001	<0.01	<0.01	<0.3	<0.01	0.1	<0.0001	<0.1
	26-Feb-15	0.04		2.5	75	0.075	<0.01	0.02	3.4	<0.001	<0.05	<0.01	<1.0	<0.005	0.12	<0.0001	<0.05
	29-Feb-16	0.031		4.4	81	0.055	<0.005	0.021	3.3	<0.0005	<0.025	<0.01	<0.5	<0.0025	0.2	<0.0001	<0.025
40-1R Ir	9-Mar-17	2.5		12	570	0.13	<0.05	0.21	2.7	<0.005	<0.25	<0.05	<5.0	<0.025	1.1	<0.0001	<0.25
	12-Mar-18	2.6		110	520	0.17	0.012	0.099	3.5	<0.001	<0.05	<0.01	<1.0	<0.005	0.76	<0.0001	<0.05
	13-Mar-19	2.8		39	210	0.0042	0.019	0.069	2.3	<0.001	<0.05	<0.01	<1.0	<0.005	0.74	<0.0001	<0.05
	9-Mar-20	2.1		15	200	0.0012	0.023	0.1	3.2	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.46	<0.0001	<0.025
	10-Mar-21	0.74		5.2	62	<0.001	<0.005	0.037	2.9	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.21	<0.0001	<0.025
	14-Mar-22	1.4		6.9	64	0.0012	0.002	0.038	2.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.18	<0.0001	<0.005
	7-Mar-23	1.3		2.8	42	<0.001	<0.01	0.03	2.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.15	<0.0001	<0.05
	6-Mar-24	3.5		3.3	31	<0.001	0.0036	0.029	2.1	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.2	<0.0001	<0.005
	3-Mar-25	6.8		3.3	37	<0.001	0.0011	0.029	1.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.17	<0.0001	<0.005
	18-Jun-25	4.2		2.8	33	<0.001	0.0012	0.034	1.7	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.2	<0.0001	<0.005
	22-Sep-25	5.9		2.4	33	0.0013	<0.001	0.034	2	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.21	<0.0001	<0.005
	4-Mar-26	7.4		2.2	19	<0.001	<0.001	0.033	1.9	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.23	<0.0001	<0.005

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone			Date	Field		General Parameters				Major Ions						Nutrients and Organic Indicators			
				pH (s u)	E C (µS/cm)	pH (s u)	E C (µS/cm)	T D S	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	T K N
40-2 L	5-Jun-09	(2)																	
	20-Sep-09	(2)																	
	8-Mar-10	(2)																	
	22-Jun-10	(1)																	
	17-Sep-10	(1)																	
	18-Mar-11	(2)																	
	8-Jun-11	(2)																	
	15-Sep-11	(2)																	
	13-Mar-12	(2)																	
	14-Jun-12	(2)																	
	20-Sep-12	(2)																	
	12-Mar-13	(2)																	
	12-Jun-13	(2)																	
	20-Sep-13	(2)																	
	10-Mar-14	(1)																	
	16-Jun-14	(2)																	
	22-Sep-14	(1)																	
	26-Mar-15	(1)																	
	23-Jun-15	(1)																	
	17-Sep-15	(1)																	
15-Mar-16	(1)																		
24-Jun-16	(3)																		
28-Sep-16	(3)																		
40-2R L	20-Dec-16		7.5	1,950	7.92	1,700	1,320	977	74	460	480	210	110	30	6	<0.1	<0.01	0.33	0.16
	27-Mar-17		7.5	2,010	7.89	2,000	1,470	1,160	73	580	460	250	130	31	6	0.2			<0.05
	23-Jun-17		7.4	1,770	7.84	1,700	1,340	1,110	65	430	480	230	130	26	5	0.1	<0.01	0.45	<0.05
	28-Sep-17		7.2	1,700	8.17	1,700	1,310	952	62	460	450	200	110	24	5	0.15			<0.05
	23-Mar-18		7.4	1,530	8.19	1,800	1,140	911	61	440	500	200	100	21	5	<0.1			0.065
	21-Jun-18																		
	25-Jun-18		7.5	1,430	8.03	1,700	1,320	886	66	370	490	190	100	23	4	<0.1	<0.01	0.26	<0.05
	30-Sep-18		7.9	1,500	8.05	1,700	1,120	944	74	390	440	180	120	29	5	0.24			<0.05

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
40-2 L	5-Jun-09 (2)																
	20-Sep-09 (2)																
	8-Mar-10 (2)																
	22-Jun-10 (1)																
	17-Sep-10 (1)																
	18-Mar-11 (2)																
	8-Jun-11 (2)																
	15-Sep-11 (2)																
	13-Mar-12 (2)																
	14-Jun-12 (2)																
	20-Sep-12 (2)																
	12-Mar-13 (2)																
	12-Jun-13 (2)																
	20-Sep-13 (2)																
	10-Mar-14 (1)																
	16-Jun-14 (2)																
	22-Sep-14 (1)																
	26-Mar-15 (1)																
	23-Jun-15 (1)																
	17-Sep-15 (1)																
	15-Mar-16 (1)																
	24-Jun-16 (3)																
	28-Sep-16 (3)																
40-2R L	20-Dec-16	0.01		1.9	<4.0	<0.001	<0.001	0.061	0.11	<0.0001	<0.005	0.004	<0.1	<0.0005	0.17	<0.0001	0.0096
	27-Mar-17			2.2	11			0.036	0.15				<0.1				
	23-Jun-17	<0.004		1.8	10	<0.001	<0.001	0.036	0.1	<0.0001	<0.005	0.0059	<0.1	<0.0005	0.069	<0.0001	0.012
	28-Sep-17			2	6			0.035	0.096				<0.1				
	23-Mar-18			2	4			0.036	0.078				<0.1				
	21-Jun-18					<0.02											
	25-Jun-18	<0.004		2.9	<4.0		<0.001	0.037	0.078	<0.0001	<0.005	0.019	<0.1	<0.0005	0.016	<0.0001	0.015
	30-Sep-18			1.7	5			0.032	0.09				<0.1				

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
40-2R L (cont'd)	28-Mar-19	6.9	1,500	7.69	1,700	1,210	886	70	360	480	190	100	24	4	<0.1			<0.05
	19-Jun-19	7.0	1,590	7.95	1,600	1,110	977	76	370	470	210	110	25	4	<0.1	<0.01	0.12	<0.05
	24-Sep-19	6.9	1,330	7.90	1,600	1,190	952	80	370	460	200	110	27	4	0.19			0.18
	24-Mar-20	7.3	1,610	7.76	1,600	1,150	952	80	330	460	200	110	25	4	<0.1			<0.05
	14-Jun-20	7.4	1,620	7.73	1,600	1,150	1,002	81	330	470	220	110	28	5	<0.1	<0.01	0.3	<0.05
	30-Sep-20	7.4	1,470	8.06	1,600	1,170	911	83	370	460	200	100	25	4	<0.1			<0.05
	23-Mar-21	7.3	1,430	7.92	1,600	1,200	886	78	350	400	190	100	24	4	<0.1			<0.05
	27-Jun-21	7.5	1,380	7.97	1,600	1,080	886	87	300	460	190	100	25	4	<0.1	<0.01	1.9	<0.05
	29-Sep-21	7.5	1,401	8.01	1,500	985	841	87	290	460	180	95	22	4	0.32			<0.05
	24-Mar-22	7.2	1,370	7.77	1,500	1,170	853	91	320	470	190	92	22	4	<0.1			<0.05
	13-Jun-22	7.0	1,376	7.77	1,600	1,150	870	120	310	450	190	96	30	4	0.16	<0.01	0.34	<0.05
	22-Sep-22	6.7	1,820	7.93	1,600	1,010	874	110	340	440	190	97	27	4	0.16			<0.05
	13-Mar-23	6.9	1,580	7.89	1,600	1,020	886	130	310	460	190	100	34	5	<0.1			<0.05
	29-Jun-23	7.1	1,370	8.13	1,500	1,030	861	97	280	440	180	100	26	5	0.19	<0.01	0.28	0.1
	26-Sep-23 (2)																	
	6-Mar-24 (2)																	
	11-Jun-24 (2)																	
	10-Sep-24 (2)																	
	18-Mar-25 (2)																	
	18-Jun-25 (2)																	
	10-Sep-25 (2)																	
	4-Mar-26 (2)																	
46-1R Ro	22-Jun-09	6.6	167,000	6.58	183,000	146,000	63,666	103,000	839	35	15,800	5,880	59,400	604	<0.1	<0.1	57.8	54.2
	29-Jun-10	6.5	171,000	6.64	149,000	119,000	50,529	91,700	949	48	12,600	4,630	35,400	507	<0.1	<0.1	57.2	49.5
	15-Jun-11	6.6	82,800	7.00	127,000	102,000	25,654	55,500	1,140	105	5,920	2,640	21,200	320	<0.1	<0.1	33.5	32.9
	20-Jun-14	6.6	133,000	7.00	138,000	110,000	42,073	70,100	1,030	91	10,500	3,850	24,400	469	<0.1	<0.1	42.4	43
	27-Jun-18	6.6	166,000	6.64	100,000	180,000	60,516	93,000	830	53	15,000	5,600	40,000	580	<1.0	<0.1	56	53
	16-Jun-22	6.2	260,810	6.51	180,000	178,000	62,601	95,000	780	46	16,000	5,500	38,000	580	<0.1	<0.01	61	41
46-2 L	17-Jun-09	7.9	4,860	7.51	4,720	3,780	1,837	931	791	493	190	331	409	10	<0.1	<0.1	0.45	0.2
	23-Sep-09	7.6	5,090	7.49	4,630	3,700	1,536	790	759	524	221	239	331	10	0.39	<0.1	0.96	0.58
	9-Mar-10	7.5	3,790	7.47	3,710	2,970	1,559	543	869	477	217	247	274	10	0.71	<0.1	0.32	0.11

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
40-2R L (cont'd)	28-Mar-19			1.6	<4.0			0.037	0.082				<0.1				
	19-Jun-19	0.005		1.6	<4.0	<0.001	<0.001	0.038	0.074	<0.0001	<0.005	0.0038	<0.1	<0.0005	0.023	<0.0001	<0.005
	24-Sep-19			2.2	7			0.04	0.081				<0.1				
	24-Mar-20			1.3	<4.0			0.041	0.08				<0.1				
	14-Jun-20	0.007		5	7	<0.001	<0.001	0.045	0.083	<0.00009	<0.005	0.019	<0.1	<0.0005	0.013	<0.0001	0.0055
	30-Sep-20			1.2	7			0.037	0.098				<0.1				
	23-Mar-21			1.6	8			0.035	0.09				<0.1				
	27-Jun-21	<0.004		2.9	32	0.0018	<0.001	0.04	0.084	<0.00009	<0.005	0.047	<0.1	<0.0005	0.02	<0.0001	0.013
	29-Sep-21			2.5	7			0.037	0.091				<0.1				
	24-Mar-22			1.6	11			0.035	0.075				<0.1				
	13-Jun-22	<0.008		3	10	<0.001	<0.001	0.052	0.12	<0.00009	<0.005	0.017	<0.1	<0.0005	0.059	<0.0001	0.012
	22-Sep-22			2	5			0.039	0.093				<0.1				
	13-Mar-23			1.5	7			0.039	0.077				0.83				
	29-Jun-23	0.007		1.6	<4.0	<0.001	<0.001	0.041	0.08	<0.00009	<0.005	0.0025	<0.1	<0.0005	0.018	<0.0001	0.0079
	26-Sep-23 (2)																
	6-Mar-24 (2)																
	11-Jun-24 (2)																
	10-Sep-24 (2)																
	18-Mar-25 (2)																
	18-Jun-25 (2)																
	10-Sep-25 (2)																
	4-Mar-26 (2)																
46-1R Ro	22-Jun-09	<0.3		0.9	5,440	0.004	1.2	<1.0	8	<0.01	<0.1	<0.1	<3.0	0.1	2	<0.0001	<1.0
	29-Jun-10	0.09		1.2	5,000	0.006	0.742	<1.0	14	<0.01	<0.1	<0.1	<3.0	<0.1	2	<0.001	<1.0
	15-Jun-11	<0.05		1	3,500	0.003	<1.0	<1.0	22	<0.01	<0.1	<0.1	3	<0.1	1	<0.0001	<1.0
	20-Jun-14	<0.05		0.9	5,280	0.001	<0.1	<1.0	16	<0.01	<0.1	<0.1	<3.0	0.2	1	<0.001	<1.0
	27-Jun-18	0.5		4.5	1,100	<0.02	<0.1	0.47	7.1	<0.01	<0.5	<0.1	<10.0	0.27	2.1	<0.0005	<0.5
	16-Jun-22	<0.08		7.5	1,600	0.025	<0.05	0.46	6	<0.0045	<0.25	<0.045	<5.0	<0.025	2.3	<0.0015	<0.25
46-2 L	17-Jun-09	<0.01		3.2	9	<0.001	0.006	0.02	0.28	<0.0001	0.01	0.003	0.17	<0.001	0.09	<0.0001	<0.01
	23-Sep-09	0.04		4.2	26	<0.001	0.006	0.02	0.35	<0.0001	<0.005	0.004	0.81	<0.001	0.38	<0.0001	<0.01
	9-Mar-10	<0.01		2.9	15	<0.001	0.002	0.03	0.31	<0.0001	<0.005	0.003	0.21	<0.001	0.06	<0.0001	<0.01

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
46-2 L (cont'd)	23-Jun-10	7.6	5,450	7.74	5,310	3,980	1,984	1,220	748	498	191	366	451	8	0.24	<0.1	<0.5	0.1
	17-Sep-10	7.3	3,900	7.93	4,390	3,510	1,698	812	838	522	195	294	344	9	0.45	<0.1	0.14	0.12
	18-Mar-11	7.7	3,870	7.61	4,010	3,210	1,533	650	837	540	190	257	290	9	0.33	<0.1	0.42	0.08
	9-Jun-11	7.3	4,520	7.70	5,310	4,250	2,024	1,170	752	529	169	389	500	8	0.22	<0.1	0.26	0.07
	15-Sep-11	7.6		8.18	5,180	4,140	1,934	1,060	775	575	184	358	391	9	0.31	<0.1	<0.5	0.08
	7-Mar-12	7.5	4,680	7.57	4,520	3,620	1,875	910	864	544	248	305	365	8	0.32	<0.1	0.28	0.11
	14-Jun-12	7.4	4,280	7.58	4,670	3,740	1,822	897	807	539	207	317	359	9	0.49	<0.1	0.99	0.54
	25-Sep-12	6.8	43,600	7.24	23,700	19,000	7,034	8,620	1,240	437	1,420	847	3,320	52	0.56	<0.1	4.4	2.98
	25-Mar-13	7.3	13,600	7.26	19,500	15,600	4,218	6,190	970	441	868	498	3,010	53	<0.1	<0.1	3.9	4.02
	25-Jun-13	7.3	9,210	7.61	15,300	12,200	3,409	4,560	1,010	424	679	416	2,190	43	0.37	<0.1	4.06	3.83
	24-Sep-13	7.2	9,680	7.25	10,500	8,400	2,318	2,910	929	457	468	279	1,480	39	<0.1	<0.1	2.63	2.81
	10-Mar-14	7.1	5,460	7.38	7,230	5,780	2,200	1,840	840	493	332	333	933	24	<0.1	<0.1	1.85	1.8
	13-Jun-14	7.7	4,860	7.55	5,010	4,010	1,888	1,070	784	512	192	342	456	9	0.33	<0.1	0.28	0.11
	16-Sep-14	7.9	3,910	7.95	4,400	3,300	1,767	800	740	550	180	320	330	8	0.58	<0.01	0.4	0.18
	24-Mar-15	7.5	3,930	7.42	4,400	2,980	1,735	760	820	520	200	300	330	9	<0.1	<0.01	0.31	0.087
	23-Jun-15	7.3	5,240	7.75	5,500	4,590	1,858	1,200	690	470	200	330	490	9	0.22	<0.01	0.46	<0.05
	9-Sep-15	7.3	4,260	7.67	4,700	3,560	1,760	980	780	510	210	300	400	9	0.22			
	15-Mar-16	7.0	4,320	7.73	4,600	3,130	1,736	790	950	500	250	270	330	10	0.99			
	20-Jun-16	7.2	4,220	7.83	5,300	4,470	1,611	1,200	590	450	200	270	520	9	0.87	<0.01	0.33	<0.05
	30-Sep-16	7.0	9,070	7.72	13,000	8,870	3,351	3,700	1,000	450	600	450	1,400	31	0.36			2.4
	29-Mar-17	7.4	5,530	7.67	5,300	3,670	1,952	920	1,100	460	320	280	420	11	0.62			<0.05
	21-Jun-17	7.6	6,090	7.86	5,900	4,040	1,826	1,400	730	470	220	310	590	9	0.26	<0.01	0.63	<0.05
	21-Sep-17	7.3	4,090	7.83	4,200	3,010	1,661	620	850	560	220	270	310	10	0.91			<0.05
	19-Mar-18	7.7	3,960	7.88	3,900	2,290	1,636	510	840	560	210	270	290	10	0.96			0.065
	14-Jun-18	7.4	5,540	8.04	5,200	3,490	1,867	1,100	660	510	220	320	540	10	0.64	<0.01	0.22	0.1
	21-Sep-18	7.5	9,840	7.61	10,000	7,180	3,259	2,800	1,100	510	530	470	1,200	29	0.21			0.056
	20-Mar-19	7.3	5,680	7.93	6,200	3,970	1,818	1,500	660	520	250	290	670	10	0.5			<0.05
	24-Jun-19	6.9	12,600	7.77	6,400	4,220	2,123	1,800	700	520	240	370	760	13	0.36	<0.01	0.27	0.069
	24-Sep-19	6.9	14,400	7.72	13,000	10,700		3,900	990	480	560	420	1,600	29	1.74			<0.05
	18-Mar-20	7.5	8,230	7.73	5,900	3,960	1,735	1,400	610	490	200	300	630	12	0.37			<0.05
	19-Jun-20	7.1	14,100	7.74	13,000	8,500	3,235	4,100	980	470	570	440	1,900	37	1.19	0.066	1.4	0.42

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
46-2 L (cont'd)	23-Jun-10	0.02		2.6	20	<0.001	<0.01	<0.1	0.3	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1	<0.0001	<0.1
	17-Sep-10	<0.01		3.1	48	0.002	<0.01	0.02	0.25	<0.0001	<0.005	0.002	0.3	<0.001	0.09	<0.0001	<0.01
	18-Mar-11	0.02		2.7	15	<0.001	<0.01	0.02	0.24	<0.0001	0.006	0.003	0.1	<0.001	0.05	<0.0001	<0.01
	9-Jun-11	0.01		2.9	18	<0.001	<0.005	0.03	0.2	<0.0001	<0.005	0.003	0.22	<0.001	0.05	<0.0001	<0.01
	15-Sep-11	0.01		2.7	15	<0.001	<0.01	0.03	0.24	<0.0001	<0.005	0.002	0.06	<0.001	0.04	<0.0001	<0.01
	7-Mar-12	<0.01		2.8	10	<0.001	<0.01	0.02	0.28	<0.0001	<0.005	0.003	0.34	<0.001	0.1	<0.0001	<0.01
	14-Jun-12	<0.01		4.2	12	<0.001	<0.01	0.02	0.27	<0.0001	0.003	0.001	0.24	<0.001	0.6	<0.0001	<0.01
	25-Sep-12	<0.01		4.6	420	0.045	<0.1	<0.1	1	<0.001	<0.1	<0.01	2.3	<0.01	3.8	<0.0001	<0.1
	25-Mar-13	<0.01		3	39	<0.001	<0.1	<0.1	1.9	<0.001	<0.5	<0.01	0.8	<0.01	4.6	<0.0001	<0.1
	25-Jun-13	<0.01		2.8	34	<0.001	<0.1	0.04	1.8	<0.0001	<0.005	0.004	1.87	<0.001	3.09	<0.0001	0.01
	24-Sep-13	<0.01		3.2	50	<0.001	<0.1	<0.1	1.5	<0.001	<0.01	<0.01	<0.3	<0.01	1.8	<0.0001	<0.1
	10-Mar-14	<0.01		3.4	16	<0.001	<0.01	<0.1	1	<0.001	<0.01	<0.01	0.7	<0.01	1.1	<0.0001	<0.1
	13-Jun-14	<0.01		3	19	<0.001	<0.001	0.03	0.29	<0.0001	<0.001	<0.001	0.09	<0.001	0.07	<0.0001	<0.01
	16-Sep-14	0.006		3	13	<0.001	<0.001	0.021	0.26	<0.0001	<0.005	<0.002	0.2	<0.0005	0.18	<0.0001	<0.005
	24-Mar-15	0.006		2.6	9	0.0037	<0.001	0.023	0.3	<0.0001	<0.005	<0.002	0.75	<0.0005	0.16	<0.0001	<0.005
	23-Jun-15	0.009		2.5	9	0.0067	<0.001	0.025	0.24	<0.0001	<0.005	<0.001	0.15	<0.0005	0.047	0.00021	<0.005
	9-Sep-15			2.7	23			0.023	0.27				0.27				
	15-Mar-16			2.4	9			0.022	0.35				0.44				
	20-Jun-16	0.035		2.1	15	<0.001	<0.001	0.019	0.22	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.046	<0.0001	<0.005
	30-Sep-16			3.3	77			0.038	0.94				3.3				
	29-Mar-17			2.6	8			0.03	0.35				<0.1				
	21-Jun-17	<0.04		2.8	17	<0.001	<0.001	0.022	0.23	<0.0001	<0.005	0.0014	<0.1	<0.0005	0.045	<0.0001	<0.005
	21-Sep-17			2.6	9			0.019	0.29				<0.1				
	19-Mar-18			2.6	9			0.018	0.25				<0.1				
	14-Jun-18	<0.004		3.7	19	<0.001	<0.001	0.023	0.22	<0.0001	<0.005	0.0028	<0.1	<0.0005	0.0097	<0.0001	<0.005
	21-Sep-18			6.8	29			0.036	0.61				0.79				
	20-Mar-19			2.8	21			0.024	0.27				<0.1				
	24-Jun-19	0.006		2.9	19	<0.001	<0.001	0.028	0.25	<0.0001	<0.005	0.0022	<0.1	<0.0005	0.055	<0.0001	0.0053
	24-Sep-19			3.1	36			0.038	0.75				1.5				
	18-Mar-20			3.2	21			0.025	0.22				<0.1				
	19-Jun-20	<0.004		4.7	34	<0.001	<0.001	0.044	1	0.00017	<0.005	0.0033	<0.1	<0.0005	1	<0.0001	0.015

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
46-2 L (cont'd)	28-Sep-20	7.2	13,700	7.83	15,000	9,900	3,510	4,200	1,100	430	680	440	2,100	45	1.9			<0.05
	25-Mar-21	7.1	1,270	7.72	11,000	8,600	2,731	2,900	990	450	500	360	1,400	30	1.21			<0.05
	30-Jun-21	6.9	11,700	7.72	13,000	7,380	2,765	3,800	980	440	530	350	1,700	35	1.73	<0.01	1.7	0.1
	30-Sep-21	7.0	12,809	7.87	10,000	7,890	2,971	3,500	950	450	530	400	1,700	37	2.3			0.054
	29-Mar-22	7.4	5,678	7.82	5,800	3,300	1,908	1,500	680	520	220	330	630	12	0.48			<0.05
	16-Jun-22	7.1	12,289	7.64	12,000	7,190	2,896	3,400	970	440	500	400	1,400	37	1.01	<0.01	0.92	0.056
	26-Sep-22	7.2	13,700	7.84	13,000	8,310	3,600	3,800	1,000	350	650	480	2,000	41	1.37			<0.05
	20-Mar-23	7.4	6,300	7.84	5,800	3,200	1,727	1,400	600	470	230	280	650	13	0.65			<0.05
	29-Jun-23	7.4	7,470	7.96	7,900	5,200	2,167	2,000	710	430	340	320	1,000	23	0.49	<0.01	0.77	0.051
	29-Sep-23	7.2	10,200	7.74	11,000	6,950	2,929	3,600	990	410	530	390	1,600	32	0.91			0.16
	14-Mar-24	7.7	10,500	7.65	12,000	6,500	2,375	3,500	950	380	440	310	1,200	28	1.27			<0.05
	11-Jun-24	7.4	5,920	7.77	9,800	6,120	2,681	3,100	780	400	480	360	1,500	32	1.05	<0.01	0.55	<0.05
	10-Sep-24	7.2	3,660	7.56	11,000	7,710	3,095	2,800	1,100	480	580	400	1,800	41	1.35			<0.05
	19-Mar-25	7.1	9,730	7.49	17,000	10,300	3,592	4,900	1,200	430	680	460	2,000	47	2.75			<0.05
	17-Jun-25	7.5	6,560	7.81	8,600	7,720	3,300	2,200	800	490	660	390	2,000	45	1.03	<0.01	0.77	0.056
	9-Sep-25	7.1	9,400	7.63	13,000	7,910	2,953	3,500	1,000	460	490	420	1,500	36	2.3			<0.05
	17-Sep-25																	
46-3 L	11-Mar-26	7.6	3,999	7.45	10,000	7,030		3,100	1,100	520	470	450	1,400	30	1.63	<0.01	0.38	<0.05
	19-Jun-09	7.4	2,520	7.75	2,750	2,200	1,348	139	944	566	177	220	105	7	<0.1	<0.1	0.44	0.34
	23-Sep-09	7.6	2,710	7.42	2,590	2,070	1,276	157	894	439	229	171	105	8	0.23	<0.1	0.49	0.25
	16-Mar-10	7.3	3,180	7.43	3,000	2,250	1,230	411	613	504	166	198	182	11	1.88	<0.1	3.21	2.76
	29-Jun-10	7.4	5,340	7.63	3,270	2,620	1,386	350	793	569	199	216	183	13	2.35	<0.1	3.35	3.23
	20-Sep-10	7.3	2,420	7.65	2,590	2,070	1,423	109	861	640	189	231	124	9	0.36	<0.1	2.1	2.07
	24-Mar-11	7.7	3,560	7.45	3,840	2,880	1,534	743	689	549	164	273	264	8	0.21	<0.1	0.72	0.57
	15-Jun-11	7.4	3,210	7.73	3,380	2,700	1,593	446	759	607	163	288	205	8	0.12	<0.1	1.2	1.16
	16-Sep-11	7.4		7.32	2,860	2,290	1,581	195	911	607	206	259	144	8	0.17	<0.1	1.21	0.84
	13-Mar-12	7.5	4,870	7.52	4,170	3,130	1,595	777	676	547	162	289	261	7	0.12	<0.1	1.16	0.68
	26-Jun-12	7.2	2,520	7.28	2,540	1,900	1,477	197	709	558	212	230	190	14	<0.1	<0.1	0.8	0.71
	25-Sep-12	7.4	2,970	7.59	2,870	2,300	1,303	254	862	488	202	194	175	9	<0.1	<0.1	1.12	0.87
	27-Mar-13	7.4	4,640	7.74	4,150	3,320	1,687	733	806	490	209	283	312	12	0.11	<0.1	0.47	0.32
	27-Jun-13	7.1	3,000	7.57	2,970	2,230	1,265	331	591	549	134	226	165	7	<0.1	<0.1	0.51	0.46

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
46-2 L (cont'd)	28-Sep-20			3.5	25			0.038	1.2				<0.1				
	25-Mar-21			3.3	27			0.03	0.96				<0.1				
	30-Jun-21	<0.004		4.4	30	0.002	<0.005	0.032	1.2	<0.00045	<0.025	0.014	<0.5	<0.0025	0.17	<0.0001	<0.025
	30-Sep-21			3.6	36			0.033	0.98				<0.1				
	29-Mar-22			3.3	21			0.024	0.3				<0.1				
	16-Jun-22	<0.004		3.6	39	<0.001	<0.001	0.031	0.85	0.00013	<0.005	0.0032	<0.1	<0.0005	0.093	<0.0001	0.011
	26-Sep-22			3.4	34			0.037	1.2				<0.5				
	20-Mar-23			4.5	24			0.022	0.36				<0.1				
	29-Jun-23	<0.004		3.9	35	0.0013	<0.001	0.027	0.5	0.00015	<0.005	0.015	<0.1	<0.0005	0.037	<0.0001	0.011
	29-Sep-23			5	20			0.043	0.86				<0.1				
	14-Mar-24			4.8	33			0.031	0.61				<0.1				
	11-Jun-24	0.06		5.2	40	<0.001	<0.001	0.039	0.71	0.0002	<0.005	0.0043	<0.1	<0.0005	0.013	<0.0001	0.015
	10-Sep-24			6.2	27			0.044	0.77				2.4				
	19-Mar-25			3.6	36			0.043	1				<0.1				
	17-Jun-25	0.023		4	33	<0.001	<0.001	0.045	0.97	0.00032	<0.005	0.0031	<0.1	<0.0005	0.0073	<0.0001	0.026
	9-Sep-25			3.7	76			0.036	0.78				<0.1				
	17-Sep-25					<0.001										<0.0001	
46-3 L	11-Mar-26	0.016	<2.0	3.5	46	<0.001	<0.001	0.031	0.69	0.00017	<0.005	0.0021	<0.1	<0.0005	0.024	<0.0001	0.02
	19-Jun-09	<0.01		4.9	<5.0	<0.001	0.003	0.02	0.16	<0.0001	0.004	0.001	<0.03	<0.001	1.45	<0.0001	<0.01
	23-Sep-09	<0.01		11.1	27	<0.001	0.003	0.03	0.48	<0.0001	0.009	0.003	0.11	<0.001	0.27	<0.0001	<0.01
	16-Mar-10	0.02		2.4	18	<0.001	<0.05	0.03	0.21	<0.0001	<0.005	0.003	3.15	<0.001	1.48	<0.0001	0.01
	29-Jun-10	0.02		3.7	33	<0.001	<0.01	0.04	0.28	<0.0001	0.007	0.002	0.33	<0.001	0.25	<0.0001	<0.01
	20-Sep-10	0.02		3.9	30	<0.001	<0.01	0.03	0.19	<0.0001	0.008	0.002	2.04	<0.001	0.46	<0.0001	<0.01
	24-Mar-11	0.03		3.3	25	<0.001	<0.01	0.03	0.22	<0.0001	<0.005	0.003	2.08	<0.001	0.35	<0.0001	<0.01
	15-Jun-11	<0.01		10.8	750	<0.001	<0.01	0.02	0.19	<0.0001	0.007	0.003	0.18	<0.001	0.14	<0.0001	<0.01
	16-Sep-11	0.01		4.3	15	<0.001	<0.01	0.03	0.23	<0.0001	0.009	0.002	0.34	<0.001	0.37	<0.0001	<0.01
	13-Mar-12	<0.01		3.1	<5.0	<0.001	<0.01	0.03	0.2	<0.0001	<0.001	0.003	0.22	<0.001	0.18	<0.0001	<0.01
	26-Jun-12	0.02		4.3	10	<0.01	<0.01	0.03	0.28	<0.0001	<0.005	0.001	2.61	<0.001	0.5	<0.0001	<0.01
	25-Sep-12	0.01		3.1	8	<0.001	<0.01	0.03	0.27	<0.0001	0.008	0.002	3.21	<0.001	0.46	<0.0001	<0.01
	27-Mar-13	<0.01		1.8	15	<0.01	<0.01	0.03	0.31	<0.0001	0.003	0.003	0.04	<0.001	0.44	<0.0001	<0.01
	27-Jun-13	<0.01		3.2	13	<0.001	<0.01	0.02	0.28	<0.0001	<0.005	0.001	0.53	<0.001	0.42	<0.0001	<0.01

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
46-3 L (cont'd)	26-Sep-13	7.4	2,810	7.65	2,840	2,270	1,293	250	787	546	188	200	170	10	<0.1	<0.1	1.16	1.14
	11-Mar-14	7.2	4,130	7.37	3,730	2,980	1,645	611	814	489	207	274	254	10	<0.1	<0.1	1.43	1.43
	13-Jun-14	7.5	3,360	7.40	3,420	2,740	1,600	462	824	574	189	274	201	8	0.27	<0.1	1.11	0.8
	22-Sep-14	6.9	2,630	7.90	2,900	2,240	1,330	270	750	530	170	220	190	7	0.25	<0.01	0.88	0.33
	26-Mar-15	7.6	5,340	7.67	5,000	3,110	1,923	1,100	610	480	160	370	390	9	<0.1	<0.01	0.33	<0.05
	26-Jun-15	7.0	3,960	7.59	4,400	2,850	1,800	870	640	500	160	340	380	8	<0.1	<0.01	0.46	0.074
	16-Sep-15	7.0	2,910	7.73	3,200	2,590	1,513	310	840	540	210	240	210	8	<0.1			
	16-Mar-16	7.0	4,270	7.78	4,900	3,190	2,080	1,100	610	500	190	390	430	10	0.51			
	27-Jun-16	7.0	3,130	7.60	3,500	2,980	1,488	380	840	540	200	240	240	8	<0.1	<0.01	0.61	0.4
	28-Sep-16	7.0	3,880	7.72	4,700	4,150	2,416	650	1,500	370	440	320	310	11	0.2			0.13
	28-Mar-17	7.6	6,470	7.79	6,100	4,060	2,055	1,500	510	430	180	390	640	8	<0.1			<0.05
	26-Jun-17	7.6	4,910	7.82	4,900	3,340	1,841	1,000	650	520	160	350	420	8	0.17	<0.01	<0.5	<0.05
	22-Sep-17	7.0	3,770	7.69	3,900	2,790	1,561	530	840	580	180	270	280	9	0.26			0.14
	19-Mar-18 (3)																	
46-3R L	13-Jun-18	7.5	3,170	7.97	3,800	3,130	1,915	490	1,100	340	470	180	260	12	<0.1	0.057	0.56	0.47
	21-Sep-18	7.4	4,110	7.55	4,600	3,780	2,526	560	1,700	480	550	280	290	11	0.26			0.21
	26-Mar-19	7.0	5,640	7.59	6,100	4,470	2,609	1,100	1,400	450	550	300	530	13	0.46			0.22
	19-Jun-19	7.2	5,620	7.74	5,700	4,410	2,607	1,100	1,400	450	500	330	520	14	0.53	<0.01	0.59	0.06
	24-Sep-19	6.9	4,090	7.74	4,800	3,710	2,153	680	1,400	470	450	250	350	9	0.36			<0.05
	24-Mar-20	7.1	6,350	7.60	6,300	4,650	2,558	1,200	1,300	450	480	330	550	13	0.35			0.11
	16-Jun-20	7.0	6,360	7.66	6,300	4,700	2,456	1,300	1,000	500	390	360	540	13	<0.1	0.012	0.52	0.36
	28-Sep-20	7.3	5,120	7.95	5,400	4,300	2,418	900	1,500	460	490	290	420	11	0.46			<0.05
	25-Mar-21	7.1	5,640	7.68	6,100	4,260	2,450	1,200	1,300	440	470	310	510	13	0.14			0.48
	30-Jun-21	6.9	5,240	7.59	6,000	4,350	2,509	1,200	1,500	450	510	300	470	12	0.42	<0.01	0.99	0.43
	30-Sep-21	7.0	6,567	7.80	5,400	4,240	2,525	1,100	1,400	480	500	310	500	12	0.21			0.38
	31-Mar-22	7.0	6,261	7.69	6,000	3,730	2,416	1,200	1,200	490	440	320	530	12	0.21			0.39
	16-Jun-22	7.1	5,827	7.68	6,400	5,180	2,582	1,200	1,400	480	490	330	520	12	0.54	0.014	0.76	<0.05
	26-Sep-22	7.0	6,230	7.79	5,600	3,830	2,631	1,100	1,200	420	460	360	520	12	0.44			0.11
	23-Mar-23	6.9	6,240	7.54	6,200	4,340	2,599	1,100	1,300	470	480	340	530	13	0.25			0.18
	29-Jun-23	7.1	4,930	7.72	6,100	4,900	2,756	1,000	1,500	480	510	360	500	12	0.49	<0.01	0.96	0.062
	29-Sep-23	7.3	6,150	7.71	5,400	4,270	2,599	1,100	1,400	490	480	340	480	11	<0.1			0.51

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
46-3 L (cont'd)	26-Sep-13	0.03		2.3	21	<0.001	<0.01	0.03	0.41	<0.0001	<0.005	0.002	3.11	<0.001	0.23	<0.0001	<0.01
	11-Mar-14	<0.01		3.4	18	<0.001	0.001	0.04	0.58	<0.0001	<0.001	<0.001	0.36	<0.001	0.26	<0.0001	<0.01
	13-Jun-14	<0.01		3.5	15	<0.001	<0.001	0.03	0.22	<0.0001	<0.001	<0.001	0.2	<0.001	0.12	<0.0001	<0.01
	22-Sep-14	0.004		2.4	10	<0.001	0.0018	0.025	0.34	<0.0001	<0.005	<0.001	0.31	<0.0005	0.26	<0.0001	<0.005
	26-Mar-15	0.004		2.3	16	<0.001	<0.002	0.027	0.19	<0.0001	<0.005	<0.001	0.33	<0.0005	0.036	<0.0001	<0.005
	26-Jun-15	0.004		3.8	20	<0.001	0.0024	0.023	0.22	<0.0001	<0.005	<0.002	<0.1	<0.0005	0.44	<0.0001	<0.005
	16-Sep-15			3.2	6			0.023	0.33				0.39				
	16-Mar-16			2.4	14			0.026	0.21				<0.1				
	27-Jun-16	<0.004		2.9	19	<0.001	<0.001	0.022	0.35	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.17	<0.0001	<0.01
	28-Sep-16			3.6	12			0.034	0.35				0.48				
	28-Mar-17			3.2	20			0.027	0.17				<0.1				
	26-Jun-17	<0.004		2.8	14	<0.001	<0.001	0.025	0.24	<0.0001	<0.005	0.0024	<0.1	<0.0005	0.0032	<0.0001	0.0061
	22-Sep-17			3	11			0.034	0.27				<0.1				
	19-Mar-18 (3)																
46-3R L	13-Jun-18	<0.004		2.9	11	0.001	<0.001	0.087	0.22	<0.0001	<0.005	0.004	<0.1	<0.0005	0.057	<0.0001	<0.005
	21-Sep-18			2.9	11			0.033	0.33				<0.1				
	26-Mar-19			2.7	13			0.035	0.31				<0.1				
	19-Jun-19	0.022		2.4	5	<0.001	0.0017	0.031	0.32	<0.0001	<0.005	0.0081	0.51	0.0018	0.08	<0.0001	0.0088
	24-Sep-19			2.3	12			0.024	0.3				<0.1				
	24-Mar-20			2.3	10			0.029	0.33				0.19				
	16-Jun-20	<0.004		2.5	16	<0.001	0.0011	0.029	0.28	<0.00009	<0.005	<0.0009	0.57	<0.0005	0.11	<0.0001	<0.005
	28-Sep-20			2.3	11			0.024	0.37				<0.1				
	25-Mar-21			2.3	15			0.026	0.32				1.1				
	30-Jun-21	0.048		3.4	12	0.0063	0.001	0.027	0.34	<0.00009	<0.005	0.0027	0.14	<0.0005	0.039	<0.0001	0.03
	30-Sep-21			2.9	17			0.025	0.32				0.24				
	31-Mar-22			3.1	17			0.027	0.31				0.21				
	16-Jun-22	<0.004		2.3	4	<0.001	0.001	0.027	0.32	<0.00009	<0.005	0.00092	<0.1	<0.0005	0.038	<0.0001	0.014
	26-Sep-22			2.5	15			0.026	0.34				<0.1				
	23-Mar-23			2.8	20			0.027	0.31				<0.1				
	29-Jun-23	<0.004		2.6	10	<0.001	<0.001	0.026	0.32	<0.00009	<0.005	0.0046	<0.1	<0.0005	0.032	<0.0001	0.027
	29-Sep-23			2.7	5			0.023	0.36				0.32				

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
46-3R L (cont'd)	12-Mar-24	7.2	5,360	7.68	2,300	4,420	2,807	1,000	1,700	470	580	330	470	12	0.11			0.44
	11-Jun-24	7.0	5,010	7.58	6,100	5,090	2,989	1,100	1,800	480	620	350	490	13	0.13	0.051	1.3	0.47
	10-Sep-24	7.1	2,390	7.39	6,200	4,450	2,807	910	1,800	470	580	330	450	12	<0.1			0.46
	19-Mar-25	7.2	6,640	7.63	7,600	5,020	2,205	1,700	860	540	240	390	850	8	<0.1			<0.05
	17-Jun-25	7.3	6,700	7.67	6,500	5,360	2,700	1,100	1,700	490	550	330	450	10	<0.1	<0.01	0.6	0.42
	10-Sep-25	6.9	5,870	7.44	6,200	4,450	3,023	1,100	1,500	480	650	340	470	13	0.14			0.56
	17-Sep-25	7.5	2,610															
	11-Mar-26	7.8	3,999	7.82	6,600	5,120		1,300	1,600	490	480	330	440	11	<0.1	<0.01	0.19	0.065
47-1 Ro	16-Jun-99	5.9	173,000	5.67	185,411	285,046	89,000	163,262	361	9	22,400	8,120	66,400	793	<2.5	<500.0	68.38	64.96
	22-Jun-00	7.4	23,200	7.51	18,570	16,168	5,340	8,790	200	287	1,380	457	3,190	49	<0.2	<2.0	5.8	4.1
	27-Jun-01	5.4	195,000	6.77	159,000	190,000	59,500	75,500	396	159	16,500	6,040	41,900	373	<5.0	<1.0	39.6	25.4
	30-Jun-02	6.4	189,000	6.55	290,000	210,000	70,000	130,000	200	62	18,000	6,200	46,000	630	<2.5	<0.01	70	58
	29-Apr-04	7.5	15,500	7.83	17,000	11,000	4,600	7,300	170	280	1,200	420	2,800	52	0.59	0.017	5.9	3.8
	27-Oct-04	6.9	75,200	7.32	110,000	78,000	26,000	57,000	400	140	6,400	2,500	18,000	260	<1.0	<0.01	15	13
47-1R Ro	18-Jun-09	6.4	257,000	5.81	393,000	275,000	#####	158,000	327	9	36,400	12,600	92,300	1250	<0.1	<0.1	76.1	74.9
	29-Jun-10	6.2	200,000	5.60	184,000	129,000	#####	174,000	472	8	22,700	16,500	53,700	1910	<0.1	<0.1	75.1	76.2
	15-Jun-11	6.0	124,000	5.42	425,000	298,000	78,408	165,000	404	7	18,900	7,580	51,000	657	<0.1	<0.1	60	65.9
	27-Jun-14	6.3	200,000	5.82	415,000	290,000	95,147	167,870	329	8	24,400	8,310	67,400	894	<0.1	<0.1	80.8	76.3
	26-Jun-18	6.2	200,000	5.76	100,000	310,000	92,460	160,000	340	10	24,000	7,900	58,000	810	<2.0	<0.2	86	73
	23-Jun-22	5.8	249,421	5.63	100,000	240,000	98,252	140,000	310	7	25,000	8,700	61,000	830	1.12	0.018	110	79
	17-Jun-25	6.4		5.78	210,000	297,000	97,000	180,000	340	11	25,000	8,400	62,000	790	<1.0	<0.1	96	80
	17-Sep-25	6.0		5.78		292,000	#####	150,000	340	12	25,000	9,000	61,000	880	<2.0	<0.2	89	79
	11-Mar-26	6.1	3,999	5.59	100,000	310,000		180,000	370	9	25,000	8,900	62,000	960	<2.0	<0.2	85	76
47-2R L	18-Jun-09	7.0	41,100	7.23	37,700	30,200	13,037	12,700	1,540	296	3,440	1,080	7,280	102	<0.1	<0.1	8.3	7.7
	2-Oct-09	7.1	44,600	7.33	36,300	29,000	9,283	12,800	1,650	304	2,550	708	4,280	83	<0.1	<0.1	8.2	6.67
	16-Mar-10	7.0	37,200	7.34	31,200	25,000	7,440	11,300	1,300	307	1,830	697	5,350	64	0.34	<0.1	6	4.46
	29-Jun-10	8.8	41,700	7.12	29,500	23,600	7,520	12,200	1,620	292	1,900	674	4,570	79	<0.1	<0.1	8.2	7.01
	20-Sep-10	7.1	26,500	7.53	28,600	22,900	9,118	11,800	1,690	304	2,390	765	4,510	86	<0.1	<0.1	7.5	6.84
	24-Mar-11	7.4	18,200	7.20	28,800	23,000	8,328	10,800	1,440	306	2,080	761	4,770	80	<0.1	<0.1	6.7	6.83
	15-Jun-11	6.7	36,200	7.33	43,100	34,500	10,300	16,000	1,600	274	2,530	967	5,370	84	<0.1	<0.1	6.26	6.28
	15-Sep-11	7.1		7.75	34,500	27,600	9,777	12,000	1,640	319	2,250	1,010	4,260	94	<0.1	<0.1	8.2	6.04

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
46-3R L (cont'd)	12-Mar-24			2.5	16			0.025	0.38				0.78				
	11-Jun-24	0.12		2.5	14	<0.001	<0.001	0.026	0.38	<0.00009	<0.005	0.00096	0.52	<0.0005	0.03	<0.0001	<0.005
	10-Sep-24			3.5	14			0.023	0.37				0.89				
	19-Mar-25			2.4	17			0.028	0.19				0.21				
	17-Jun-25	0.025		2.4	17	<0.001	<0.005	0.022	0.36	<0.00045	<0.025	<0.0045	0.69	<0.0025	0.091	<0.0001	<0.025
	10-Sep-25			2.3	13			0.024	0.45				1.3				
	17-Sep-25					<0.001										<0.0001	
	11-Mar-26	0.021	2	2.3	19	<0.001	<0.001	0.022	0.38	<0.00009	<0.005	0.00098	<0.1	<0.0005	<0.002	<0.0001	<0.005
47-1 Ro	16-Jun-99	7.24		<16.0		<0.05		0.239	2.01	0.025	0.696	<0.06	13.9	<0.2	3.54		<0.05
	22-Jun-00	<0.5		20.4		0.001	<0.02	0.765	0.146	<0.001	<0.05	<0.005	0.51	<0.005	2.19		<0.05
	27-Jun-01	<0.06		1		1.88		0.39	0.777	<0.003	<0.5	<0.003	1.91	<0.002	2.58		0.033
	30-Jun-02	6.5		33		<0.1		0.24	1.7	<0.12	0.64	<0.15	8.4	<0.5	3.2		<0.12
	29-Apr-04	0.24		24	160	<0.01	<0.01	0.14	0.11	<0.002	<0.002	<0.002	0.24	<0.01	0.18	<0.00005	<0.005
	27-Oct-04	2.4		<25.0	980	<0.01	<0.5	0.13	0.79	<0.1	<0.1	<0.1	2.4	<0.5	1	<0.00005	<0.25
47-1R Ro	18-Jun-09	<0.2		2.5	7,200	0.019	2	<1.0	2	<0.01	<0.1	0.1	31	<0.1	5	0.0003	<1.0
	29-Jun-10	1.04		0.5	11,300	0.016	0.725	<1.0	2	<0.01	<0.1	<0.1	21	<0.1	4	<0.001	<1.0
	15-Jun-11	0.3		1.3	7,000	0.018	<1.0	<1.0	2	<0.01	<0.1	<0.1	17	<0.1	3	<0.001	<1.0
	27-Jun-14	0.2		<0.5	11,600	0.019	0.005	0.36	2.27	<0.0001	0.002	<0.001	28.4	<0.001	4.34	<0.001	<0.01
	26-Jun-18	0.13		4.6	2,700	<0.02	<0.1	0.26	2.1	<0.01	<0.5	<0.1	23	<0.05	4.2	<0.0001	<0.5
	23-Jun-22	0.12		3.6	1,400	<0.1	<0.1	0.3	2	<0.009	<0.5	0.16	23	<0.05	4.5	<0.0015	<0.5
	17-Jun-25	0.43		5.4	2,300	0.24	<0.1	0.3	2.5	<0.009	<0.5	<0.09	22	<0.05	4.5	<0.0015	<0.5
	17-Sep-25	0.37		4.9	3,400	0.18	<0.05	0.32	1.8	<0.0045	<0.25	<0.045	25	<0.025	4.6	<0.0015	<0.25
	11-Mar-26	0.31	7	3	1,400	0.029	<0.05	0.31	1.8	<0.0045	<0.25	<0.045	24	<0.025	4.7	<0.0015	<0.25
47-2R L	18-Jun-09	0.03		1.2	2,820	0.011	0.17	<0.1	2.8	<0.001	<0.01	0.02	0.8	<0.01	0.3	<0.0001	<0.1
	2-Oct-09	0.02		0.9	434	0.003	0.15	<0.1	2.4	<0.001	<0.005	<0.01	0.4	<0.01	0.2	<0.0001	<0.1
	16-Mar-10	0.01		0.8	625	0.004	<0.1	<0.1	1.7	<0.001	<0.005	<0.01	0.8	<0.01	0.2	<0.0001	<0.1
	29-Jun-10	0.1		0.9	875	0.009	0.065	<0.1	1.5	<0.001	<0.05	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	20-Sep-10	0.02		3.4	775	0.003	<1.0	<0.1	1.8	<0.001	<0.005	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	24-Mar-11	0.01		1.5	550	<0.01	<0.1	<0.1	1.8	<0.001	<0.05	<0.01	0.3	<0.01	0.2	<0.0001	<0.1
	15-Jun-11	<0.01		0.9	550	0.013	<1.0	<0.1	1.5	<0.001	<0.01	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	15-Sep-11	0.01		1.7	750	<0.01	<1.0	<0.1	1.5	<0.001	<0.005	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
47-2R L (cont'd)	14-Mar-12	7.0	40,600	7.16	39,100	31,300	10,566	13,800	1,490	312	2,810	862	5,320	75	<0.1	<0.1	7.8	7.24
	26-Jun-12	6.9	40,400	7.16	36,600	29,300	16,117	13,030	1,620	321	4,690	1,070	9,080	144	<0.1	<0.1	8	7.17
	25-Sep-12	6.9	38,300	7.11	42,100	33,700	11,251	16,000	1,480	307	3,000	913	5,870	95	<0.1	<0.1	8.2	8.7
	27-Mar-13	6.8	55,800	7.34	53,900	43,100	15,528	20,470	1,230	290	4,190	1,230	8,220	122	0.16	<0.1	8.5	10.1
	25-Jun-13	6.8	47,000	7.27	47,100	37,700	12,649	17,700	1,210	291	3,400	1,010	6,950	118	<0.1	<0.1	8.3	7.92
	27-Sep-13	6.9	53,100	7.46	42,700	34,200	10,926	14,900	1,080	322	2,710	1,010	5,810	92	<0.1	<0.1	7.9	7.23
	18-Mar-14	6.6	39,300	7.02	59,700	47,800	17,336	23,700	1,480	271	4,370	1,560	9,230	151	<0.1	<0.1	11.6	11.5
	27-Jun-14	6.6	68,600	7.09	66,900	53,500	18,094	27,338	1,300	238	4,690	1,550	10,400	163	<0.1	<0.1	15.9	13
	23-Sep-14	6.7	39,200	6.95	82,000	60,300	21,970	35,000	1,300	200	5,500	2,000	13,000	180	<5.0	<0.5	17	15
	26-Mar-15	7.0	38,500	7.12	82,000	60,500	22,469	35,000	1,300	180	5,700	2,000	12,000	190	<2.0	<0.2	17	17
	26-Jun-15	6.9	72,600	6.95	80,000	57,900	23,542	33,000	1,300	190	5,800	2,200	13,000	210	<2.0	<0.2	18	17
	16-Sep-15	6.6	79,800	7.25	80,000	71,400	21,720	35,000	1,400	230	5,400	2,000	13,000	180	<0.1			
	15-Mar-16	6.4	80,000	6.98	96,000	64,600	31,007	42,000	1,300	170	7,800	2,800	18,000	250	<0.1			
	27-Jun-16	6.4	76,300	6.93	92,000	70,800	24,791	42,000	1,300	190	6,300	2,200	14,000	210	<1.0	<0.1	22	19
	30-Sep-16	6.5	44,900	7.31	66,000	47,300	16,003	25,000	1,200	270	4,100	1,400	9,700	150	<0.1			12
	22-Mar-17	7.3	42,700	7.12	80,000	59,000	18,737	33,000	1,200	270	4,700	1,700	10,000	150	<1.0			12
	24-Jun-17	6.8	74,300	7.28	51,000	29,900	13,431	20,000	1,200	310	3,400	1,200	7,500	110	<0.5	<0.05	12	9.9
	20-Sep-17	6.9	52,400	7.24	68,000	37,900	16,914	28,000	1,400	290	4,300	1,500	9,200	140	<0.1			14
	21-Mar-18	6.5	81,000	7.20	80,000	55,000	19,398	35,000	1,300	260	4,800	1,800	11,000	170	<0.1			14
	26-Jun-18	6.6	80,600	7.28	80,000	55,500	19,486	34,000	1,300	260	5,000	1,700	11,000	160	<0.5	<0.05	17	15
	28-Sep-18	7.0	68,400	7.31	67,000	44,000	18,574	26,000	1,100	300	4,800	1,600	10,000	150	<0.5			13
	26-Mar-19	6.8	57,300	7.18	58,000	39,800	15,254	23,000	1,200	280	3,800	1,400	9,000	140	<0.5			11
	20-Jun-19	6.7	68,300	7.06	65,000	50,900	18,824	28,000	1,200	260	4,900	1,600	10,000	150	<0.1	<0.01	16	13
	23-Sep-19	6.6	74,400	7.06	97,000	66,200	30,757	44,000	1,200	210	7,700	2,800	17,000	260	<1.0			16
	26-Mar-20	6.4	101,000	6.86	95,000	73,000	25,203	40,000	1,200	210	6,300	2,300	15,000	210	<0.1			20
	24-Jun-20	6.5	90,600	7.26	85,000	66,300	24,791	37,000	1,200	240	6,300	2,200	15,000	210	<1.0	<0.1	26	18
	28-Sep-20	6.6	66,800	7.22	67,000	48,700	18,325	30,000	1,100	290	4,700	1,600	11,000	160	<0.5			13
	25-Mar-21	6.8	16,600	7.68	16,000	10,900	4,394	5,100	780	230	1,100	400	2,000	34	3.32			2.5
	29-Jun-21	6.3	58,000	7.37	73,000	51,000	19,486	32,000	1,200	210	5,000	1,700	11,000	160	<0.5	<0.05	16	14
	30-Sep-21	6.3	130,312	7.26	78,000	80,000	30,258	47,000	1,200	190	7,500	2,800	18,000	280	<0.5			21
	24-Mar-22	7.0	18,881	7.53	21,000	13,500	5,805	6,800	660	310	1,500	500	2,700	46	2.88			3.6

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
47-2R L (cont'd)	14-Mar-12	<0.05		1.6	108,000	0.003	<1.0	<0.1	1.5	<0.001	<0.05	<0.01	<0.3	<0.01	0.3	<0.0001	<0.1
	26-Jun-12	<0.1		0.8	540	<0.01	<1.0	<1.0	2	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	25-Sep-12	<0.05		2.8	770	<0.01	<0.1	<0.1	1.3	<0.001	<0.1	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	27-Mar-13	<0.01		1.7	1,100	<0.01	<1.0	<0.1	1.8	<0.001	<0.01	0.01	<0.3	<0.01	0.3	<0.0001	<0.1
	25-Jun-13	0.02		1.7	225	0.006	<1.0	<0.1	1.8	<0.001	<0.01	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	27-Sep-13	0.03		1.9	<2000.0	<0.005	<1.0	<0.1	1.6	<0.001	<0.01	<0.01	<0.3	<0.01	0.2	<0.0001	<0.1
	18-Mar-14	0.06		1.5	350	0.013	<0.001	<0.01	<0.01	<0.0001	<0.001	<0.001	<0.03	<0.001	<0.01	<0.0001	<0.01
	27-Jun-14	0.05		0.9	240	0.001	0.001	0.13	3.1	<0.0001	<0.001	<0.001	0.41	<0.001	0.36	<0.0001	<0.01
	23-Sep-14	0.049		5.8	510	0.011	<0.05	0.15	3.3	<0.005	<0.25	<0.05	<5.0	<0.025	0.45	<0.0001	<0.25
	26-Mar-15	<0.04		9.8	550	0.11	<0.04	0.13	3	<0.002	<0.1	<0.02	<2.0	<0.01	0.52	<0.0001	<0.1
	26-Jun-15	0.089		9.5	390	0.0095	<0.1	0.12	3.4	<0.002	<0.1	<0.02	2.1	<0.01	0.47	<0.0001	<0.1
	16-Sep-15			7.7	600			0.13	3.1				<5.0				
	15-Mar-16			9.4	630			<0.2	5				<10.0				
	27-Jun-16	0.09		7	620	0.013	<0.05	0.12	3.7	<0.005	<0.25	<0.05	<5.0	<0.025	0.52	<0.0001	<0.25
	30-Sep-16			5.2	430			0.087	2.9				<1.0				
	22-Mar-17			5.3	650			<0.2	3				<10.0				
	24-Jun-17	<0.08		3.7	260	<0.001	<0.05	<0.1	2.6	<0.005	<0.25	<0.05	<5.0	<0.025	0.24	<0.0001	<0.25
	20-Sep-17			6.4	290			0.089	2.9				1.7				
	21-Mar-18			5.5	270			0.11	3.3				2				
	26-Jun-18	<0.04		5.4	370	<0.02	<0.01	0.091	2.9	<0.001	<0.05	<0.01	<1.0	<0.005	0.36	<0.0001	<0.05
	28-Sep-18			4.4	280			0.082	2.4				<1.0				
	26-Mar-19			3.1	130			0.078	2.1				<0.5				
	20-Jun-19	0.016		3.7	420	0.044	<0.01	0.099	2.7	<0.001	<0.05	<0.01	<1.0	<0.005	0.31	<0.0001	<0.05
	23-Sep-19			6	360			0.13	2.9				<1.0				
	26-Mar-20			3.3	590			0.12	3.3				<1.0				
	24-Jun-20	0.12		4.6	280	<0.2	<0.01	0.12	3.5	<0.0009	<0.05	<0.009	<1.0	<0.005	0.44	<0.0001	<0.05
	28-Sep-20			3.8	380			0.082	2.4				<1.0				
	25-Mar-21			5	22			0.039	0.61				<0.1				
	29-Jun-21	<0.04		5.1	300	0.018	<0.01	0.11	1.8	<0.0009	<0.05	<0.009	1.1	<0.005	0.34	<0.0001	<0.05
	30-Sep-21			4.1	390			0.15	2.3				1				
	24-Mar-22			5.8	110			0.043	0.69				<0.5				

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
47-2R L (cont'd)	23-Jun-22	6.9	28,877	7.45	47,000	32,800	13,020	16,000	1,100	270	3,400	1,100	7,500	110	<0.1	<0.01	10	7.1
	28-Sep-22	6.5	89,800	7.26	83,000	57,400	22,881	36,000	1,200	200	5,700	2,100	13,000	220	<0.1			16
	13-Mar-23	6.4	88,600	7.05	80,000	58,100	22,557	33,000	1,400	230	5,900	1,900	14,000	190	<0.5			16
	27-Jun-23	6.3	99,300	7.13	92,000	74,700	25,702	31,000	1,300	210	6,500	2,300	16,000	230	<1.0	<0.1	26	22
	29-Sep-23	6.4	109,000	7.09	83,000	84,700	30,683	45,000	1,300	200	8,000	2,600	19,000	250	<1.0			23
	14-Mar-24	6.5		6.86	97,000	63,200	19,985	43,000	1,400	200	5,200	1,700	12,000	200	<1.0			17
	11-Jun-24	6.5		6.89	90,000	32,900	15,504	41,000	1,300	190	3,900	1,400	8,900	150	<1.0	<0.1	16	14
	10-Sep-24	6.4	14,010	6.79		48,800	24,541	40,000	1,300	200	6,200	2,200	16,000	230	<1.0			14
	18-Mar-25	6.4		6.81	95,000	59,300	18,986	38,000	1,200	190	4,800	1,700	11,000	170	<1.0			18
	17-Jun-25	6.3		6.93	83,000	66,800	21,000	36,000	1,400	240	5,200	2,000	13,000	190	<0.5	<0.05	14	12
	9-Sep-25	6.3		6.97		108,000	38,384	61,000	1,200	230	9,600	3,500	23,000	360	<1.0			28
	17-Sep-25	6.6																
47-3R L	11-Mar-26	6.7	3,999	7.02	70,000	30,500		31,000	1,100	180	6,500	2,200	15,000	220	1	<0.1	12	10
	18-Jun-09	8.0	1,580	7.95	1,580	1,110	762	51	402	439	99	125	56	4	<0.1	<0.1	0.97	0.95
	2-Oct-09	7.7	1,590	7.68	1,530	1,070	737	51	408	447	94	122	54	4	<0.1	<0.1	1.05	0.65
	16-Mar-10	7.3	1,510	7.76	1,500	1,050	853	43	393	421	109	141	55	5	0.4	<0.1	0.46	0.47
	29-Jun-10	7.6	1,460	7.61	1,500	1,050	728	50	406	434	97	118	55	4	0.11	<0.1	0.36	0.21
	20-Sep-10	7.5	1,300	7.83	1,510	1,060	756	51	409	440	100	123	57	4	0.11	<0.1	0.81	0.14
	24-Mar-11	8.0	2,170	7.70	1,540	1,080	712	47	394	458	92	117	50	4	0.11	<0.1	0.73	0.63
	15-Jun-11	7.5	1,260	8.16	1,530	1,070	854	51	397	452	108	142	52	4	<0.1	<0.1	0.45	0.27
	15-Sep-11	7.8		8.19	1,540	1,080	749	44	402	461	97	123	50	4	0.12	<0.1	0.38	0.25
	14-Mar-12	7.7	1,610	7.61	1,530	1,070	826	45	414	439	110	134	54	4	0.19	<0.1	0.46	0.12
	26-Jun-12	7.8	3,470	7.52	1,550	1,080	762	49	416	447	104	122	68	5	<0.1	<0.1	0.8	0.32
	25-Sep-12	7.7	1,780	7.57	1,530	1,070	793	42	406	452	108	127	55	4	<0.1	<0.1	1.04	0.88
	27-Mar-13	7.5	1,730	7.89	1,540	1,080	776	44	404	448	103	126	55	4	<0.1	<0.1	0.2	0.14
	25-Jun-13	7.5	2,590	7.87	1,570	1,100	814	52	424	440	115	128	62	5	<0.1	<0.1	0.23	0.26
	27-Sep-13	7.9	1,500	7.81	1,520	1,060	807	46	405	429	104	133	58	4	<0.1	<0.1	0.43	0.48
	18-Mar-14	7.2	1,490	7.53	1,520	1,060	835	48	409	421	107	138	61	4	<0.1	<0.1	0.27	0.18
	27-Jun-14	7.1	1,500	7.55	1,510	1,060	758	43	386	426	99	124	56	5	<0.1	<0.1	0.72	0.48
	23-Sep-14	7.2	1,280	7.79	1,600	1,110	851	58	360	430	110	140	64	4	<0.1	<0.01	0.6	0.32
	26-Mar-15	7.7	1,270	7.83	1,600	1,220	785	47	380	420	100	130	61	4	<0.1	<0.01	0.58	0.19

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
47-2R L (cont'd)	23-Jun-22	0.015		5.4	230	<0.1	<0.01	0.11	1.6	<0.0009	<0.05	<0.009	1.6	<0.005	0.19	<0.0001	<0.05
	28-Sep-22			5.7	460			0.15	2.4				1.2				
	13-Mar-23			4.9	310			0.12	2.1				1.1				
	27-Jun-23	0.008		4.3	220	0.003	<0.05	0.12	2.7	<0.0045	<0.25	<0.045	<5.0	<0.025	0.42	<0.0001	<0.25
	29-Sep-23			3.9	480			0.21	3.5				<5.0				
	14-Mar-24			5.6	250			0.11	2.4				<1.0				
	11-Jun-24	0.042		16	250	0.0016	<0.01	0.079	2.5	<0.0009	<0.05	<0.009	<1.0	<0.005	0.3	<0.0001	<0.05
	10-Sep-24			12	56			0.11	2.6				<1.0				
	18-Mar-25			6.8	720			0.1	2.5				<5.0				
	17-Jun-25	0.033		12	330	0.002	<0.01	0.1	3.1	<0.0009	<0.05	<0.009	<1.0	<0.005	0.38	<0.0001	<0.05
	9-Sep-25			2.5	970			0.16	2.8				<1.0				
	17-Sep-25					0.028										<0.0001	
47-3R L	11-Mar-26	0.008	7	7.2	220	0.0019	<0.01	0.12	2.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.43	<0.0001	0.15
	18-Jun-09	<0.01		2.8	102	<0.001	0.003	0.03	0.22	<0.0001	0.005	<0.001	0.82	<0.001	0.01	<0.0001	<0.01
	2-Oct-09	0.02		23	35	<0.001	0.007	0.04	0.23	<0.0001	<0.005	<0.001	5.08	<0.001	0.01	<0.0001	<0.01
	16-Mar-10	<0.01		4.6	28	<0.001	0.005	0.04	0.2	<0.0001	<0.005	0.001	5.46	<0.001	<0.01	<0.0001	<0.01
	29-Jun-10	<0.01		4	25	0.001	<0.01	0.03	0.22	<0.0001	0.005	<0.001	0.11	<0.001	<0.01	<0.0001	<0.01
	20-Sep-10	<0.01		6.7	45	<0.001	<0.01	0.03	0.21	<0.0001	0.007	0.001	0.7	<0.001	0.01	<0.0001	<0.01
	24-Mar-11	0.01		10.8	50	<0.001	<0.01	0.04	0.23	<0.0001	0.004	0.001	7.12	<0.001	0.01	<0.0001	<0.01
	15-Jun-11	<0.01		3.8	30	<0.001	<0.01	0.03	0.24	<0.0001	0.003	<0.001	0.4	<0.001	0.01	<0.0001	<0.01
	15-Sep-11	0.02		39.7	525	<0.001	<0.01	0.03	0.22	<0.0001	0.005	0.001	1.42	<0.001	0.01	<0.0001	<0.01
	14-Mar-12	<0.01		27	39	<0.001	<0.01	0.03	0.22	<0.0001	0.004	0.001	0.32	<0.001	<0.01	<0.0001	<0.01
	26-Jun-12	<0.01		2	9	<0.001	<0.01	0.03	0.23	<0.0001	<0.005	0.003	3.41	<0.001	0.02	<0.0001	<0.01
	25-Sep-12	0.01		2.3	91	<0.001	<0.01	0.05	0.17	<0.0001	0.007	0.001	11.7	<0.001	0.02	<0.0001	<0.01
	27-Mar-13	<0.01		2	25	<0.01	<0.01	0.02	0.24	<0.0001	0.005	<0.001	0.56	<0.001	<0.01	<0.0001	<0.01
	25-Jun-13	<0.01		2.2	19	<0.001	<0.01	0.03	0.25	<0.0001	0.005	<0.001	2.9	<0.001	0.01	<0.0001	<0.01
	27-Sep-13	0.02		1.9	14	<0.001	<0.01	0.04	0.24	<0.0001	0.003	0.001	4.63	<0.001	0.01	<0.0001	<0.01
	18-Mar-14	<0.01		2.3	24	<0.001	<0.001	0.03	0.3	<0.0001	<0.001	<0.001	0.78	<0.001	0.02	<0.0001	<0.01
	27-Jun-14	<0.01		2.4	94	<0.001	0.002	0.04	0.26	<0.0001	<0.001	<0.001	7.02	<0.001	0.08	<0.0001	<0.01
	23-Sep-14	0.004		1.7	8	<0.001	0.001	0.03	0.25	<0.0001	<0.005	<0.001	1.6	<0.0005	0.01	<0.0001	<0.005
	26-Mar-15	0.006		2.1	5	<0.001	<0.001	0.026	0.25	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.0061	<0.0001	<0.005

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
47-3R L (cont'd)	26-Jun-15	7.0	1,500	7.86	1,600	1,110	851	61	380	420	110	140	69	5	0.21	<0.01	<0.5	0.22
	16-Sep-15	7.2	1,460	7.88	1,600	1,170	785	47	370	430	100	130	61	4	<0.1			
	15-Mar-16	7.4	1,760	7.89	1,600	1,070	736	48	390	410	97	120	54	4	<0.1			
	27-Jun-16	7.2	1,340	7.90	1,600	1,120	785	47	380	440	100	130	60	4	<0.1	<0.01	0.44	0.27
	26-Sep-16	7.4	1,320	7.83	1,600	1,090	810	44	370	430	110	130	60	4	<0.1			0.48
	9-Mar-17	8.2	1,860	7.87	1,600	1,090	736	43	370	420	97	120	55	4	<0.1			0.22
	24-Jun-17	7.7	1,910	7.84	1,600	1,180	785	45	380	430	100	130	59	4	<0.1	<0.01	0.45	0.27
	22-Sep-17	7.0	1,500	7.85	1,600	1,050	785	43	400	430	100	130	61	5	0.1			0.37
	21-Mar-18	7.6	1,440	8.05	1,600	990	785	44	370	450	100	130	61	4	<0.1			0.26
	26-Jun-18	7.9	1,500	7.84	1,600	1,010	785	44	380	440	100	130	60	4	<0.1	<0.01	0.32	0.3
	28-Sep-18	7.4	1,600	8.02	1,600	1,010	892	41	400	440	110	150	67	4	0.11			0.38
	26-Mar-19	7.2	1,410	7.90	1,500	1,040	810	43	380	430	110	130	66	4	<0.1			0.26
	20-Jun-19	7.4	1,400	7.86	1,500	1,050	810	44	380	420	110	130	63	5	<0.1	<0.01	0.46	0.27
	23-Sep-19	7.1	1,250	8.03	1,600	1,070	810	42	380	430	110	130	63	4	<0.1			0.38
	26-Mar-20	7.4	1,580	7.80	1,600	1,110	780	41	360	420	98	130	57	4	0.11			0.29
	24-Jun-20	7.2	1,480	7.82	1,500	1,080	851	43	370	420	110	140	64	4	0.12	<0.01	0.48	0.24
	28-Sep-20	7.6	1,600	8.14	1,500	980	810	42	390	440	110	130	62	4	0.14			0.12
	25-Mar-21	6.7	1,410	8.00	1,600	995	744	42	400	420	100	120	57	4	0.11			0.19
	29-Jun-21	7.1	1,360	8.00	1,500	1,010	851	44	370	440	110	140	65	5	<0.1	<0.01	0.47	0.2
	30-Sep-21	7.4	1,710	8.13	1,400	1,050	785	44	370	430	100	130	61	4	0.1			0.31
	24-Mar-22	7.4	1,689	7.92	1,500	1,030	810	41	380	440	110	130	57	4	<0.1			0.3
	23-Jun-22	7.7	1,421	8.01	1,600	970	826	44	370	430	100	140	65	4	<0.1	<0.01	0.52	0.23
	28-Sep-22	7.4	3,500	8.01	1,600	930	810	49	400	400	110	130	66	5	0.11			0.22
	23-Mar-23	7.2	1,550	7.95	1,500	1,010	851	45	390	430	110	140	64	5	<0.1			0.26
	27-Jun-23	7.7	4,090	8.01	1,600	1,030	810	41	370	430	110	130	62	5	<0.1	<0.01	0.38	0.26
	29-Sep-23	7.5	1,510	7.97	1,500	945	810	42	390	430	110	130	61	4	<0.1			0.49
	14-Mar-24	7.6	3,330	7.87	1,500	1,030	794	44	410	390	120	120	55	4	0.7			0.074
	11-Jun-24	7.5	3,800	7.77	1,300	965	771	38	320	370	110	96	45	4	0.33	<0.01	0.63	0.1
	10-Sep-24	7.6	950	7.51	1,400	970	751	46	340	360	97	110	53	4	0.35			0.12
	18-Mar-25	7.7	1,930	7.64	1,400	1,020	682	44	350	360	110	99	48	4	0.95			0.14
	17-Jun-25	7.1	1,460	7.71	1,700	1,080	790	59	420	420	120	120	55	4	0.23	<0.01	0.56	0.2

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
47-3R L (cont'd)	26-Jun-15	0.006		1.7	<4.0	<0.001	<0.001	0.026	0.25	<0.0001	<0.005	<0.001	0.15	<0.0005	0.0061	<0.0001	<0.005
	16-Sep-15			1.8	5			0.033	0.23				3.2				
	15-Mar-16			1.6	5			0.026	0.26				0.36				
	27-Jun-16	0.006		2	10	<0.001	0.0014	0.027	0.28	<0.0001	<0.005	<0.001	1.8	<0.0005	0.035	<0.0001	<0.005
	26-Sep-16			3.3	5			0.033	0.28				2.8				
	9-Mar-17			1.8	7			0.029	0.25				0.55				
	24-Jun-17	0.005		1.6	6	<0.001	<0.001	0.026	0.27	<0.0001	<0.005	<0.001	0.49	<0.0005	0.012	<0.0001	<0.005
	22-Sep-17			1.9	<4.0			0.035	0.29				2.7				
	21-Mar-18			1.7	<4.0			0.024	0.29				<0.1				
	26-Jun-18	<0.04		2.5	<4.0	<0.002	<0.001	0.023	0.27	<0.0001	<0.005	<0.001	1	<0.0005	0.01	<0.0001	<0.005
	28-Sep-18			2.9	7			0.026	0.27				0.59				
	26-Mar-19			1.7	<4.0			0.025	0.3				<0.1				
	20-Jun-19	0.006		1.8	<4.0	0.0018	0.0011	0.027	0.31	<0.0001	<0.005	<0.001	0.53	<0.0005	0.0069	<0.0001	<0.005
	23-Sep-19			1.4	5			0.023	0.27				0.71				
	26-Mar-20			1.6	<4.0			0.025	0.29				0.42				
	24-Jun-20	0.007		1.8	<4.0	<0.2	<0.001	0.026	0.28	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.0082	<0.0001	<0.005
	28-Sep-20			1.6	10			0.028	0.3				0.54				
	25-Mar-21			1.8	5			0.025	0.28				<0.1				
	29-Jun-21	0.007		2	10	<0.001	<0.001	0.03	0.29	<0.00009	<0.005	0.0014	1.7	<0.0005	0.01	<0.0001	<0.005
	30-Sep-21			1.8	7			0.028	0.28				<0.1				
	24-Mar-22			1.6	8			0.025	0.26				<0.1				
	23-Jun-22	0.014		1.3	<4.0	<0.1	<0.001	0.029	0.28	<0.00009	<0.005	<0.0009	2.6	<0.0005	0.014	<0.0001	<0.005
	28-Sep-22			1.6	10			0.028	0.3				1.1				
	23-Mar-23			1.7	8			0.026	0.28				0.31				
	27-Jun-23	<0.004		1.6	7	<0.001	<0.001	0.025	0.28	<0.00009	<0.005	0.0031	<0.1	<0.0005	0.008	<0.0001	<0.005
	29-Sep-23			1.8	12			0.025	0.29				0.51				
	14-Mar-24			2.9	9			0.023	0.24				0.1				
	11-Jun-24	0.61		5.1	37	<0.001	0.0015	0.027	0.19	<0.00009	<0.005	0.0024	0.94	0.00082	0.43	<0.0001	<0.005
	10-Sep-24			3.9	39			0.025	0.2				0.16				
	18-Mar-25			4.5	62			0.021	0.2				0.17				
	17-Jun-25	0.95		3.3	61	<0.001	<0.001	0.028	0.22	<0.00009	<0.005	0.0012	<0.1	<0.0005	0.11	<0.0001	<0.005

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
47-3R L (cont'd)	9-Sep-25	7.3	1,560	7.79	1,600	1,120	835	46	400	440	120	130	61	5	0.36			0.17
	17-Sep-25	7.7	1,770															
	11-Mar-26	8.1	1,544	7.82	1,400	910		82	340	300	130	78	57	4	2.73	<0.01	0.64	0.052
48-1 Ro	16-Mar-10	7.2	14,400	7.49	21,900	17,500	5,390	7,080	1,470	262	1,230	563	3,240	97	<0.1	<0.1	12.3	10.3
	25-Sep-12	7.5	5,250	7.66	6,070	4,860	1,120	1,240	1,030	381	268	110	946	40	<0.1	0.31	4.72	4.32
	23-Sep-14	7.4	4,730	7.77	9,900	5,280	2,000	2,500	1,200	370	460	200	1,400	51	<0.1	<0.01	4.1	3.7
	28-Sep-16	7.1	3,060	7.99	6,700	3,480	1,300	1,500	910	420	290	130	1,100	44	<0.1	0.041	8.5	8
	15-Oct-18	7.5	6,100	7.54	6,000	3,800	1,500	1,400	670	260	370	140	710	42	0.35	0.032	4.5	3.2
	30-Sep-20	7.5	1,350	8.10	1,500	880	440	110	280	380	98	48	150	19	<0.1	<0.01	1.9	1.6
	27-Sep-22	7.5	2,030	8.05	2,100	1,080	510	180	430	350	110	58	250	24	0.37	0.022	2.8	2.6
	9-Sep-24	7.7	1,360	7.80	2,800	1,800	720	360	490	360	150	82	380	30	<0.1	0.038	3.5	3.1
	18-Jun-25	7.3	4,260	7.93	4,300	2,690		720	800	380	220	110	540	38	<0.1	<0.01	3.9	3.7
	10-Sep-25	7.3	4,980	7.62	5,100	3,590		900	980	350	340	160	730	46	0.16	0.092	4.1	3.6
	17-Sep-25	7.7	2,330															
	11-Mar-26	7.6	3,999	7.79	6,200	4,250		1,300	1,300	310	350	180	740	42	0.11	0.039	3.7	3.4
48-2 L	9-Mar-10	7.6	1,420	7.67	1,380	966	665	30	351	424	95	104	40	3	<0.1	<0.1	0.22	0.2
	21-Sep-12	7.6	1,450	7.91	1,450	1,020	750	30	363	438	127	105	45	5	<0.1	<0.1	0.46	0.45
	16-Sep-14	7.7	1,180	7.99	1,500	966	780	38	320	470	120	120	42	4.4	<0.1	<0.01	1.3	1.2
	20-Sep-16	7.2	1,120	7.88	1,400	978	740	34	330	440	120	100	41	4.5	<0.1	<0.01	0.75	0.5
	4-Oct-18	7.2	1,200	7.96	1,200	800	650	27	290	430	93	100	40	3.7	<0.1	<0.01	0.35	0.29
	10-Jun-20	6.9	1,000	7.87	1,000	610	530	19	170	400	92	74	25	3.4	<0.1	<0.01	0.21	0.15
	30-Sep-20	7.2	1,290	8.10	1,400	935	780	32	340	430	130	110	41	4.4	<0.1	<0.01	0.45	0.32
	27-Sep-22	7.1	1,720	7.88	1,700	1,340	970	27	620	320	190	120	36	4.8	<0.1	<0.01	0.26	0.12
	9-Sep-24	7.7	1,070	7.75	1,600	1,160	910	15	530	360	240	75	30	8.2	<0.1	<0.01	2.6	2
	18-Jun-25	7.5	1,090	7.65	780	390		25	48	320	100	25	17	3.5	<0.1	0.014	9.8	2.4
	10-Sep-25	7.4	1,260	7.60	1,100	660		25	140	410	150	34	21	6.3	<0.1	<0.01	6.4	6.2
	17-Sep-25	7.9	720															
	11-Mar-26	7.6	1,602	7.70	1,300	855		26	310	350	180	49	23	4.3	<0.1	0.011	0.61	0.54
49-1 Ro	18-Mar-10	7.6	6,000	7.75	5,890	4,710	907	789	1,840	371	251	68	1,030	36	0.99	<0.1	2.1	2.43
	25-Sep-12	7.6	7,120	7.77	5,480	4,380	1,060	603	1,690	368	325	60	950	34	2.6	0.28	1.73	1.59
	30-Sep-14	7.6	4,460	7.71	5,500	3,720	890	670	1,500	360	260	60	900	35	6.95	0.02	1.6	1.2

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
47-3R L (cont'd)	9-Sep-25			2.3	39			0.029	0.25				0.47				
	17-Sep-25					<0.001										<0.0001	
	11-Mar-26	1.1	8	5.5	60	<0.001	<0.001	0.019	0.15	<0.00009	<0.005	0.0021	0.12	0.0024	0.018	<0.0001	<0.005
48-1 Ro	16-Mar-10	0.33		0.7		0.005		<0.1	3.5	<0.001	<0.005	0.01	<0.3	<0.01	0.2		<0.1
	25-Sep-12	1.5		1.9		0.019		<0.1	2.1	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	23-Sep-14	0.51		1.6		0.045		0.021	3.2	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.14		<0.025
	28-Sep-16	1.4		6.4		0.022		0.056	2.5	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.82		<0.025
	15-Oct-18	0.24		6.4		<0.001		0.077	0.95	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.73		<0.005
	30-Sep-20	35		3.6		<0.001		0.025	0.37	<0.00009	<0.005	<0.0009	0.4	<0.0005	0.23		0.022
	27-Sep-22	0.11		2.7		<0.01		0.032	0.57	<0.00009	<0.005	<0.0009	0.34	<0.0005	0.19		<0.005
	9-Sep-24	0.67		3.1		<0.001		0.026	0.81	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.18		0.0064
	18-Jun-25	0.65	11	3.1	35	<0.001	0.001	0.031	0.97	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.41	<0.0001	<0.005
	10-Sep-25	0.46		2.5		<0.001		0.045	1.4	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.98		<0.005
	17-Sep-25		<2.0													<0.0001	
	11-Mar-26	2.9	28	2.6	180	<0.001	<0.005	0.042	1.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.66	<0.0001	<0.025
48-2 L	9-Mar-10	<0.01		3		<0.001		0.03	0.17	<0.0001	<0.005	0.001	0.22	<0.001	0.02		<0.01
	21-Sep-12	0.03		2.2		<0.001		0.04	0.23	<0.0001	0.002	<0.001	0.67	<0.001	0.03		<0.01
	16-Sep-14	0.11		2.5		<0.001		0.038	0.18	<0.0001	<0.005	<0.001	0.73	<0.0005	0.03		<0.005
	20-Sep-16	0.061		3.9		0.0016		0.037	0.18	<0.0001	<0.005	<0.001	0.65	<0.0005	0.026		<0.005
	4-Oct-18	0.006		2.6		<0.001		0.033	0.16	<0.0001	<0.005	<0.001	0.18	<0.0005	0.023		<0.005
	10-Jun-20	0.008		1.9		<0.001		0.033	0.11	<0.00009	<0.005	<0.0009	0.42	<0.0005	0.027		<0.005
	30-Sep-20	0.009		1.7		<0.001		0.056	0.19	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.038		<0.005
	27-Sep-22	0.008		2.1		<0.001		0.071	0.18	<0.00009	<0.005	0.0044	<0.1	<0.0005	0.04		0.0067
	9-Sep-24	0.65		6.4		0.0011		0.11	0.18	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.14		<0.005
	18-Jun-25	1.8	22	3.4	170	0.074	0.0043	0.12	0.051	<0.00009	<0.005	0.0012	1	<0.0005	0.35	<0.0001	<0.005
	10-Sep-25	0.61		3.8		0.011		0.11	0.069	<0.00009	<0.005	<0.0009	0.25	<0.0005	0.1		<0.005
	17-Sep-25		<2.0													<0.0001	
	11-Mar-26	0.11	5	2.1	11	<0.001	0.0044	0.07	0.089	<0.00009	<0.005	<0.0009	1	<0.0005	0.099	<0.0001	<0.005
49-1 Ro	18-Mar-10	0.05		2.3		0.008		<0.1	1.7	<0.001	<0.005	<0.01	0.6	<0.01	0.2		<0.1
	25-Sep-12	0.04		2.6		<0.001		<0.1	1.5	<0.001	<0.005	<0.01	1	<0.01	0.1		<0.1
	30-Sep-14	0.035		2.5		0.0081		0.008	1.8	<0.0001	<0.005	<0.01	1.2	<0.0005	0.093		<0.015

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
49-1 Ro (cont'd)	28-Sep-16	7.2	4,530	7.94	5,800	3,870	1,000	720	1,600	410	310	68	1,000	38	2.28	0.213	2.2	1.9
	15-Oct-18	7.6	4,330	7.77	5,900	4,100	930	760	1,700	360	270	61	990	37	8.46	0.03	1.3	1.1
	30-Sep-20	8.0	5,860	8.16	6,200	4,340	980	910	1,500	480	290	63	1,100	38	<0.1	0.026	2.3	2.1
	27-Sep-22	7.5	5,280	8.11	5,200	3,800	1,100	600	1,600	380	330	62	830	37	0.34	0.023	1.8	1.4
	9-Sep-24	7.2	2,370	7.81	7,000	4,270	1,000	980	1,700	420	320	61	950	39	<0.1	<0.01	2.5	2
	10-Sep-25	7.4	5,110															
49-2 L	9-Mar-10	7.8	1,450	7.65	1,400	910	736	59	292	455	72	135	37	2	0.36	<0.1	<0.1	<0.02
	20-Sep-12	7.5	1,260	7.71	1,270	826	672	52	219	424	106	99	44	4	<0.1	<0.1	0.16	0.14
	16-Sep-14	8.9	1,060	8.05	1,300	824	720	38	230	480	74	130	35	2.4	1.57	<0.01	0.13	<0.05
	20-Sep-16	7.1	1,060	7.89	1,300	898	670	70	230	420	100	100	44	3.8	<0.1	<0.01	0.35	0.13
	4-Oct-18	7.2	1,230	7.97	1,300	930	680	81	250	440	100	100	47	3.7	<0.1	<0.01	0.3	0.22
	29-Sep-20	7.3	1,280	8.07	1,400	935	710	89	250	440	100	110	48	3.7	<0.1	<0.01	0.26	0.092
	23-Sep-22	7.3	1,330	7.75	1,400	810	720	69	250	490	85	120	41	3.2	1.23	<0.01	0.16	<0.05
	9-Sep-24	7.2	800	7.81	1,400	875	750	63	220	480	78	140	39	2.4	2.04	<0.01	0.47	<0.05
	18-Jun-25	7.8	1,460	7.9	1,400	800		42	220	500	74	130	36	1.6	3.01	<0.01	0.24	<0.05
	10-Sep-25	7.3	1,530	7.7	1,500	1,060		100	220	450	100	120	49	3.4	0.28	<0.01	<0.1	0.099
	17-Sep-25	7.6	720															
51-1 Ro	18-Mar-26	7.5	1,030	7.8	1,300	775		67	180	420	75	110	33	2.2	1.83	<0.01	<0.1	0.055
	5-Jul-10	7.7	6,730	7.90	8,730	6,980	1,200	2,100	903	353	273	125	1,520	39	0.26	<0.1	4.08	3.68
	25-Jun-12	7.6	3,460	7.80	6,600	4,620	746	1,840	388	326	157	86	1,260	30	0.84	<0.1	3.67	3.11
	20-Jun-14	7.3	2,320	7.75	4,730	3,310	655	1,080	378	339	150	68	766	27	1.97	<0.1	0.29	0.14
	26-Jun-16	7.3	4,640	7.94	6,000	3,400	820	1,500	470	360	190	84	960	30	0.43	0.107	1.6	1.2
	22-Jun-18	7.8	4,590	7.90	7,000	4,250	1,100	1,700	640	370	240	120	1,100	41	0.76	0.016	2.9	2.9
	14-Jun-20	7.5	8,410	7.85	8,300	4,970	1,400	2,300	570	390	330	150	1,300	47	0.37	0.024	3.8	3.7
	22-Jun-22	7.2	7,554	7.90	8,500	5,930	1,500	2,200	740	380	340	160	1,600	50	0.15	0.022	4.8	4.6
	25-Jun-24	7.5	10,060	7.71	15,000	12,300	1,400	4,900	820	340	320	140	1,300	39	<0.1	<0.01	9.7	8
	17-Jun-25	7.5	2,120	7.61	7,500	6,360		1,800	610	420	270	110	1,100	37	<0.1	0.013	7.9	6.9
	18-Sep-25	7.4	4,420	7.42	12,000	8,550		3,200	1,200	330	480	170	860	35	<0.1	<0.01	5.3	5
51-2 L	18-Mar-26	7.5	3,999	7.51	18,000	13,300		6,300	1,700	280	1,000	390	2,300	74	<0.1	<0.01	9.5	9.4
	28-Jun-10	7.7	1,600	7.81	1,580	1,030	506	178	223	345	117	52	131	14	0.42	<0.1	0.51	0.05
	14-Jun-12	7.6	1,330	7.68	1,280	832	462	107	158	325	109	46	80	10	<0.1	<0.1	0.64	0.11

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
49-1 Ro (cont'd)	28-Sep-16	0.039		3.3		0.018		0.008	1.7	<0.0001	<0.005	<0.005	0.75	<0.0005	0.15		<0.025
	15-Oct-18	0.012		3.1		<0.001		0.008	1.8	<0.0001	<0.005	<0.001	1.2	<0.0005	0.088		<0.005
	30-Sep-20	0.15		3.2		0.0011		0.01	2	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.17		<0.025
	27-Sep-22	<0.004		3.9		0.0012		0.009	1.4	<0.00009	<0.005	0.0057	<0.1	<0.0005	0.21		<0.005
	9-Sep-24	0.2		2.1		<0.001		0.007	1.7	<0.00009	<0.005	<0.0009	0.58	<0.0005	0.12		<0.005
	10-Sep-25																
49-2 L	9-Mar-10	<0.01		2.7		<0.001		0.06	0.07	<0.0001	<0.005	0.001	<0.03	<0.001	0.02		<0.01
	20-Sep-12	<0.01		2.1		<0.001		0.07	0.22	<0.0001	0.002	0.001	0.04	<0.001	0.08		0.01
	16-Sep-14	0.003		1.5		<0.001		0.04	0.075	0.00024	<0.005	<0.001	<0.1	<0.0005	0.0053		0.026
	20-Sep-16	<0.004		1.5		<0.001		0.067	0.17	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.084		0.016
	4-Oct-18	<0.004		1.7		<0.001		0.072	0.18	<0.0001	<0.005	0.0044	<0.1	<0.0005	0.098		0.0091
	29-Sep-20	<0.004		1.4		<0.001		0.07	0.18	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.047		0.011
	23-Sep-22	<0.004		1.4		<0.001		0.052	0.11	<0.00009	<0.005	0.0012	<0.1	<0.0005	0.03		0.01
	9-Sep-24	0.41		1.2		0.001		0.041	0.053	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.0023		0.011
	18-Jun-25	0.28	<2.0	1.2	<4.0	<0.001	<0.001	0.039	0.032	<0.00009	<0.005	<0.0009	<0.1	<0.0005	<0.002	<0.0001	0.0088
	10-Sep-25	0.075		1.4		<0.001		0.068	0.14	<0.00009	<0.005	0.0015	0.78	0.0013	0.05		0.017
	17-Sep-25		<2.0													<0.0001	
	18-Mar-26	0.15	<2.0	1.5	6	<0.001	0.0014	0.039	0.042	<0.00009	<0.005	<0.0009	0.27	<0.0005	0.064	<0.0001	0.0067
51-1 Ro	5-Jul-10	0.88		3.2		0.002		<0.1	2	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1
	25-Jun-12	0.19		3.1		<0.01		<0.1	0.9	<0.001	<0.1	<0.01	<0.3	<0.01	<0.1		<0.1
	20-Jun-14	0.58		3.7		<0.001		<0.1	1.1	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	26-Jun-16	0.25		3		0.0099		0.02	1.2	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.029		<0.025
	22-Jun-18	0.15		2.4		<0.02		0.019	1.6	<0.0005	<0.025	0.0091	<0.5	<0.0025	0.051		<0.025
	14-Jun-20	0.15		2.8		<0.001		0.023	1.5	<0.00009	<0.005	<0.0009	0.51	<0.0005	0.091		<0.005
	22-Jun-22	0.047		2.2		<0.001		0.022	1.4	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.088		<0.005
	25-Jun-24	2.1		2.1		0.0013		0.032	1.2	<0.00009	<0.005	<0.0009	1.1	<0.0005	0.16		<0.005
	17-Jun-25	0.63	30	1.9	42	<0.001	<0.001	0.022	1.1	<0.00009	<0.005	<0.0009	1.2	<0.0005	0.074	<0.0001	<0.005
	18-Sep-25	0.97	19	1.4	60	<0.001	<0.001	0.042	1	<0.00009	<0.005	<0.0009	0.31	<0.0005	0.14	<0.0001	<0.005
	18-Mar-26	3.8	46	1.6	140	<0.001	<0.001	0.068	1.5	<0.00009	<0.005	<0.0009	0.1	<0.0005	0.18	<0.0001	<0.005
51-2 L	28-Jun-10	2.15		6.6		<0.001		<0.01	0.47	<0.0001	0.006	0.002	<0.03	<0.001	<0.01		<0.01
	14-Jun-12	2.1		8.8		<0.001		<0.01	0.32	<0.0001	0.003	<0.001	<0.03	<0.001	<0.01		<0.01

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
51-2 L (cont'd)	9-Jun-14	7.3	1,260	7.58	1,240	806	509	110	162	335	123	49	85	10	0.25	<0.1	0.62	0.24
	26-Jun-16	7.3	1,320	7.93	2,400	1,270	730	280	430	360	210	53	240	19	<0.1	<0.01	1.5	1.2
	15-Jun-18	7.8	1,170	7.97	1,200	755	480	89	130	360	110	47	74	9.7	0.15	<0.01	0.27	0.09
	12-Jun-20	7.1	1,230	7.83	1,200	785	530	110	150	350	120	53	88	11	0.49	<0.01	0.31	0.085
	14-Jun-22	7.4	1,222	8.02	1,300	895	510	130	170	360	120	50	93	11	0.51	<0.01	0.35	0.088
	25-Jun-24	7.7	2,480	7.72	2,300	1,630	740	330	430	360	200	61	240	19	0.24	<0.01	1.1	0.68
	17-Jun-25	7.5	3,280	8.15	2,400	1,540		340	390	370	190	66	220	18	0.11	0.017	1.9	1.5
	18-Sep-25	7.5	1,900	7.64	3,000	2,260		440	500	330	210	69	210	16	<0.1	0.05	2.7	2.4
	18-Mar-26	7.7	2,681	7.68	4,000	3,030		790	730	310	340	120	400	26	<0.1	0.084	2.9	2.6
55-1 Ro	5-Jul-10	6.1	184,000	5.55	182,000	127,000	#####	169,000	395	9	26,800	8,600	73,400	795	<0.1	<0.1	79.8	78.6
	26-Jun-12	6.0	195,000	5.50	421,000	295,000	#####	165,000	352	7	38,800	11,400	97,800	1150	<0.1	<0.1	75.1	72.8
	20-Jun-14	6.3	(4)	5.85	446,000	312,000	90,500	152,000	358	22	23,200	7,910	64,400	884	<0.1	<0.1	72.6	71.5
	26-Jun-16	6.2	157,000	5.79	210,000	273,000	98,000	140,000	350	15	25,000	8,400	60,000	800	<5.0	<0.5	93	69
	22-Jun-18	6.1	200,000	5.65	(4)	295,000	98,000	160,000	320	10	24,000	9,100	62,000	1000	<5.0	<0.5	87	71
	25-Jun-20	6.2	(4)	5.38	(4)	277,000	99,000	140,000	320	4	25,000	8,900	61,000	900	<2.0	<0.2	86	81
	23-Jun-22	5.8	271,721	5.73	(4)	261,000	95,000	150,000	300	13	24,000	8,500	61,000	820	2.5	<0.1	89	54
	25-Jun-24	6.2	20,000	5.96		254,000	93,000	150,000	380	30	24,000	8,100	60,000	810	<1.0	<0.1	15	11
55-3 L	25-Jun-10	7.3	3,060	7.56	2,900	2,320	1,320	314	980	392	283	148	169	10	0.27	<0.1	0.96	0.75
	11-Jun-12	7.4	3,700	7.94	3,220	2,580	1,300	350	949	372	301	134	186	10	0.48	<0.1	0.72	0.69
	9-Jun-14	7.3	1,650	7.50	2,820	2,260	1,320	295	775	416	278	151	173	10	<0.1	<0.1	0.63	0.49
	22-Jun-16	6.8	3,050	7.77	3,500	2,740	1,500	430	1,000	340	350	160	220	12	0.28	<0.01	0.97	0.81
	7-Jun-18	7.3	2,340	7.81	3,300	2,600	1,400	360	990	360	320	140	190	12	0.6	<0.01	0.98	0.93
	15-Jun-20	7.2	3,450	7.69	3,400	2,440	1,600	370	1,000	350	380	150	220	14	<0.1	0.017	1.2	0.85
	15-Jun-22	7.1	3,246	7.80	3,300	2,700	1,500	390	1,000	350	370	150	210	13	<0.1	<0.01	1.1	0.82
	25-Jun-24	7.2	3,160	7.64	2,100	1,900	1,500	160	460	440	350	160	210	12	<0.1	0.017	1.2	0.72
56-1 Ro	5-Jul-10	6.7	134,000	6.86	123,000	98,400	37,700	70,200	1,420	63	8,520	3,990	25,400	358	<0.1	<0.1	51.3	47.7
	25-Jun-12	6.8	134,000	6.84	138,000	110,000	39,600	67,400	1,240	71	9,030	4,140	24,000	419	<0.1	<0.1	43.7	44.9
	20-Jun-14	6.8	131,000	6.94	135,000	108,000	42,400	63,100	1,270	69	9,680	4,430	23,800	460	<0.1	<0.1	45.8	45.8
	21-Jun-18	6.8	130,000	6.86	(4)	124,000	40,000	62,000	1,300	57	9,000	4,200	26,000	480	<0.5	<0.05	49	44
	22-Jun-22	6.5	138,588	6.92	(4)	104,000	38,000	64,000	1,200	53	8,600	4,100	26,000	420	0.12	0.135	47	43
	25-Jun-24	6.5		6.65		108,000	37,000	59,000	1,500	47	8,300	3,900	26,000	430	<1.0	<0.1	44	39

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
51-2 L (cont'd)	9-Jun-14	1.58		11.1		<0.001		<0.01	0.29	<0.0001	<0.001	<0.001	0.09	<0.001	0.03		<0.01
	26-Jun-16	1.2		10		<0.002		0.015	0.64	<0.0001	<0.005	<0.001	0.49	<0.0005	0.1		<0.005
	15-Jun-18	1.3		8.7		<0.001		0.009	0.25	<0.0001	<0.005	0.0012	<0.1	<0.0005	0.0039		<0.005
	12-Jun-20	1.4		6.5		<0.001		0.009	0.31	<0.00009	<0.005	0.001	<0.1	<0.0005	0.0039		<0.005
	14-Jun-22	1.3		6.6		<0.001		0.01	0.34	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.0057		<0.005
	25-Jun-24	1.6		6.1		<0.001		0.016	0.67	<0.00009	<0.005	<0.0009	0.23	<0.0005	0.057		<0.005
	17-Jun-25	2.4	11	5	14	<0.001	0.0076	0.015	0.67	<0.00009	<0.005	<0.0009	0.2	<0.0005	0.063	<0.0001	<0.005
	18-Sep-25	1.1	<2.0	5.2	20	<0.001	0.0048	0.021	0.65	<0.00009	<0.005	<0.0009	0.4	<0.0005	0.1	<0.0001	0.0054
	18-Mar-26	1.4	9	5	26	<0.001	<0.001	0.033	1.1	<0.00009	<0.005	<0.0009	0.17	<0.0005	0.067	<0.0001	<0.005
55-1 Ro	5-Jul-10	<0.1		1.1		0.016		<1.0	2	<0.01	<0.1	<0.1	33	<0.1	6		<1.0
	26-Jun-12	<0.1		1.1		0.019		<1.0	3	<0.01	<0.1	<0.1	17	<0.1	5		<1.0
	20-Jun-14	0.4		0.7		0.021		<1.0	2	<0.01	<0.1	<0.1	30	<0.1	5		<1.0
	26-Jun-16	<0.2		6.4		0.022		0.32	2.1	<0.01	<0.5	<0.5	29	<0.05	5.1		<0.5
	22-Jun-18	<0.4		7.9		0.026		0.39	2.2	<0.001	<0.05	<0.01	31	<0.005	5.8		<0.05
	25-Jun-20	0.38		6		<0.2		0.38	2.4	<0.0045	<0.25	<0.045	28	<0.025	5.2		<0.25
	23-Jun-22	0.12		4.8		<0.1		0.31	2.1	<0.009	<0.5	<0.09	29	<0.05	5		<0.5
	25-Jun-24	0.24		4.7		0.0052		0.34	2.2	<0.009	<0.5	<0.09	16	<0.05	4.8		<0.5
55-3 L	25-Jun-10	0.02		2.1		0.018		0.08	0.53	<0.0001	<0.005	0.004	0.12	<0.001	0.02		<0.01
	11-Jun-12	0.04		2.4		0.016		0.1	0.58	<0.0001	<0.001	<0.001	0.13	<0.001	0.03		<0.01
	9-Jun-14	0.05		2.6		0.01		0.09	0.54	<0.0001	<0.001	<0.001	0.32	<0.001	0.04		<0.01
	22-Jun-16	0.031		1.5		0.02		0.082	0.59	<0.0001	<0.005	0.0011	0.37	<0.0005	0.027		<0.01
	7-Jun-18	0.013		1.5		<0.001		0.084	0.58	<0.0001	<0.005	<0.001	0.63	<0.0005	0.024		<0.005
	15-Jun-20	0.031		1.4		<0.001		0.085	0.63	<0.00009	<0.005	<0.0009	0.63	<0.0005	0.024		<0.005
	15-Jun-22	0.02		1.1		<0.001		0.083	0.66	<0.00009	<0.005	<0.0009	0.49	<0.0005	0.027		<0.005
	25-Jun-24	0.52		2		0.0019		0.11	0.65	<0.00009	<0.005	<0.0009	0.43	<0.0005	0.034		0.0053
56-1 Ro	5-Jul-10	<0.05		1		0.005		<1.0	4	<0.01	<0.1	<0.1	<3.0	<0.1	1		<1.0
	25-Jun-12	<0.1		7.8		<0.01		<1.0	3	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	20-Jun-14	0.09		0.7		0.026		<1.0	4	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	21-Jun-18	<0.04		3.6		0.0052		0.09	4.3	<0.001	<0.05	<0.01	<1.0	<0.005	0.73		<0.05
	22-Jun-22	<0.04		2.9		0.042		<0.1	4	<0.0045	<0.25	<0.045	<5.0	<0.025	0.55		<0.25
	25-Jun-24	0.049		2.6		0.0049		0.11	4.6	<0.0045	<0.25	<0.045	<5.0	<0.025	0.6		<0.25

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters			Major Ions								Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
67-1 Ir	6-Jan-09	6.8	56,700	8.17	50,800	40,600	11,987	18,500	1,920	303	2,970	1,110	8,420	183	<0.1	<0.1	19	15.4
	20-Mar-09	6.7	49,100	7.39	52,800	42,200	12,566	20,400	2,080	328	3,070	1,190	8,960	196	<0.1	<0.1	21	18.2
	1-Jun-09			8.17	50,800	40,600	11,987	18,500	1,920	303	2,970	1,110	8,420	183	<0.1	<0.1	19	15.4
	15-Mar-10	6.7	66,500	7.11	56,900	45,500	14,287	22,500	1,790	282	3,380	1,420	10,200	244	<0.1	<0.1	18.9	18.2
	1-Mar-11	7.1	55,600	7.44	80,300	64,200	16,069	31,200	1,580	235	3,780	1,610	11,800	210	<0.1	<0.1	22.8	21.6
	7-Feb-12	7.0	70,900	7.81	61,100	48,900	12,981	22,600	1,850	266	3,170	1,230	10,000	210	<0.1	<0.1	21.5	19.2
	1-Mar-13	6.8	55,900	7.16	38,800	31,000	9,250	13,400	1,230	319	2,380	803	5,760	124	<0.1	<0.1	14.3	11.4
	24-Feb-14	6.5	40,900	7.00	65,400	52,300	16,699	26,100	1,420	259	4,280	1,460	10,400	224	<0.1	<0.1	22.4	19.3
	26-Feb-15	6.8	31,300	7.19	49,000	31,600	11,359	20,000	1,400	280	2,900	1,000	7,700	150	<1.0	<0.1	12	14
	23-Feb-16	6.6	51,600	7.02	53,000	37,400	12,932	20,000	1,700	280	3,200	1,200	6,800	190	<0.5	<0.05	16	18
	9-Mar-17	6.9	51,400	7.13	83,000	41,800	18,737	34,000	1,100	190	4,700	1,700	11,000	210	<2.0	<0.2	23	22
	12-Mar-18	6.7	25,700	7.05	40,000	22,300	8,790	14,000	1,200	250	2,300	740	6,000	120	<0.1	0.043	11	9.4
	13-Mar-19	6.8	31,900	7.10	49,000	33,400	10,407	18,000	1,500	300	2,700	890	6,900	160	<0.1	0.028	15	14
	9-Mar-20	6.7	47,900	7.02	48,000	23,100	10,116	16,000	1,700	290	2,600	880	8,100	160	<0.5	<0.05	14	13
	10-Mar-21	6.6	65,900	6.90	67,000	38,900	17,326	28,000	1,500	220	4,300	1,600	11,000	270	<0.1	0.023	17	16
	14-Mar-22	6.6	47,454	7.15	34,000	22,100	7,964	10,000	1,300	330	2,200	600	4,400	110	<0.1	0.017	13	11
	7-Mar-23	6.7	34,700	7.53	34,000	21,000	8,167	15,000	1,500	350	2,100	710	4,900	110	<0.5	<0.05	9.9	11
	6-Mar-24	7.1	14,900	7.37	40,000	23,000	9,040	18,000	1,400	260	2,400	740	5,600	110	<0.1	<0.01	13	9.4
	3-Mar-25	7.0	20,000	7.31	30,000	28,400	8,044	13,000	560	350	2,100	680	4,800	80	<0.1	<0.01	11	8.1
	5-Mar-26			7.22	55,000	42,000		19,000	810	230	410	110	800	9	<0.1	<0.01	10	8.7
67-3 Ro	31-Aug-09			7.11	82,700	66,200	18,600	32,300	1,240	190	4,240	1,950	13,600	213	<0.1	<0.1	25.1	19.6
	23-Aug-10			7.27	60,500	48,400	14,500	24,900	1,240	248	2,960	1,720	11,300	255	51.2	<0.2	19.8	17.8
	22-Aug-11			7.51	30,300	24,200	8,330	10,600	1,010	381	1,930	853	7,940	182	<0.1	<0.1	11.3	8.67
	19-Aug-12			7.38	62,300	49,800	12,400	25,100	909	339	2,860	1,280	10,400	204	<1.0	<1.0	18.9	17.1
	29-Aug-13			7.40	53,300	42,600	9,210	19,300	821	312	2,140	939	8,930	170	<0.1	<0.1	15.4	15.1
	21-Aug-14			7.44	58,000	41,800	11,000	22,000	860	300	2,300	1,200	8,900	190	<0.5	<0.05	19	18
	26-Aug-15			7.32	47,000	40,100	9,200	17,000	780	430	2,100	960	8,000	160	<0.1	0.023	23	22
	22-Aug-16			7.47	43,000	30,200	7,000	14,000	820	400	1,600	730	6,700	140	<0.1	<0.01	12	14
	23-Aug-17			7.41	42,000	31,400	7,400	15,000	920	410	1,700	770	6,500	150	<0.1	<0.01	12	12
	17-Aug-18			7.41	45,000	31,600	8,600	17,000	880	400	2,000	890	7,600	170	<0.1	<0.01	13	13
	31-Aug-19			7.06	74,000	55,300	18,000	31,000	780	270	4,100	1,800	14,000	240	<0.1	<0.01	22	22

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
67-1 Ir	6-Jan-09	<0.01		1	1,150	0.078	0.2	<1.0	10	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	20-Mar-09	0.06		0.9	1,190	0.071	0.28	<0.1	8	<0.001	<0.005	0.02	<0.3	<0.01	0.6	<0.05	<0.1
	1-Jun-09	<0.01		1	1,150	0.078	0.2	<1.0	10	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	15-Mar-10	0.04		1.3	1,130	0.083	<0.2	<2.0	10	<0.02	<0.005	<0.2	<6.0	<0.2	<2.0	<0.001	<2.0
	1-Mar-11	0.06		<5.0	3,350	0.045	<1.0	<1.0	12	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	7-Feb-12	<0.05		3.2	940	0.043	<1.0	<0.1	8.9	<0.001	<0.005	0.04	<0.3	<0.01	0.7	<0.0001	<0.1
	1-Mar-13	<0.05		7	<2000.0	0.042	<0.5	<0.1	5.3	<0.001	<0.5	0.02	<0.3	<0.01	0.5	<0.0001	<0.1
	24-Feb-14	0.14		1.9	1,470	0.155	<0.1	<1.0	7	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0	<0.0001	<1.0
	26-Feb-15	0.11		5.4	200	0.25	0.013	0.065	3.7	<0.001	<0.05	<0.01	<1.0	<0.005	0.46	<0.0001	<0.05
	23-Feb-16	0.11		3.9	330	0.52	<0.05	0.061	4.4	<0.001	<0.05	<0.01	<1.0	<0.005	0.54	<0.0001	<0.05
	9-Mar-17	0.2		6	900	0.45	<0.1	<0.2	3.3	<0.01	<0.5	<0.1	<10.0	<0.05	0.77	<0.0001	<0.5
	12-Mar-18	0.09		7.4	150	0.24	<0.01	0.075	2.8	<0.001	<0.05	<0.01	<1.0	<0.005	0.31	<0.0001	<0.05
	13-Mar-19	0.09		5.1	180	0.012	<0.01	0.077	3.4	<0.001	<0.05	<0.01	<1.0	<0.005	0.45	<0.0001	<0.05
	9-Mar-20	0.09		4.8	130	<0.001	<0.005	0.071	3.9	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.38	<0.0001	<0.025
	10-Mar-21	0.062		3.3	140	<0.002	<0.005	0.11	3.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.74	<0.0001	<0.025
	14-Mar-22	0.13		7.9	160	<0.002	0.008	0.065	2.2	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.31	<0.0001	<0.025
	7-Mar-23	0.11		6.7	210	<0.002	<0.01	0.059	2.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.35	<0.0001	<0.05
	6-Mar-24	0.13		7.6	120	<0.001	0.0054	0.073	1.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.37	<0.0001	<0.025
	3-Mar-25	0.17		13	140	<0.001	<0.01	0.073	1.2	<0.0009	<0.05	<0.009	<1.0	<0.005	0.31	<0.0001	<0.05
	5-Mar-26	0.13		10	320	0.0012	<0.001	0.052	0.15	<0.00009	<0.005	0.002	<0.1	<0.0005	0.038	<0.0001	<0.005
67-3 Ro	31-Aug-09	<0.05		1.9		0.005		<1.0	11	<0.01	<0.005	<0.1	4	<0.1	<1.0		<1.0
	23-Aug-10	0.13		0.8		0.004		<0.1	9.4	<0.001	0.005	0.01	0.8	<0.01	0.5		<0.1
	22-Aug-11	<0.01		10.7		<0.001		<0.1	20	<0.001	<0.1	<0.01	<0.3	<0.01	0.3		<0.1
	19-Aug-12	0.18		1.5		0.009		<1.0	12	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	29-Aug-13	0.13		6.1		<0.01		<1.0	10	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	21-Aug-14	0.013		5.1		0.039		0.068	8.5	<0.0005	<0.025	<0.025	1.2	<0.0025	0.36		<0.025
	26-Aug-15	0.78		31		0.05		0.058	8.8	0.001	<0.05	<0.01	<1.0	<0.005	0.39		<0.05
	22-Aug-16	0.06		12		0.0047		0.054	8.8	<0.001	<0.05	<0.05	2.5	<0.005	0.32		<0.05
	23-Aug-17	0.04		8.5		<0.01		0.052	11	<0.001	<0.05	<0.01	3	<0.005	0.29		<0.05
	17-Aug-18	0.064		8.5		0.0017		0.052	8.1	<0.001	<0.05	<0.01	3.7	<0.005	0.31		<0.05
	31-Aug-19	0.1		5.4		0.017		0.081	5.5	<0.001	<0.05	<0.01	3.4	<0.005	0.45		<0.05

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
67-3 Ro	17-Aug-20			7.00	84,000	64,800	20,000	36,000	810	230	4,700	2,000	14,000	270	<1.0	<0.1	26	25
	20-Aug-21			7.11	77,000	57,700	18,000	35,000	810	240	4,100	2,000	14,000	230	<0.5	<0.05	23	23
	16-Aug-22			7.43	66,000	40,900	14,000	26,000	670	290	3,100	1,400	10,000	210	<0.1	<0.01	20	20
	31-Aug-23			7.40	48,000	34,600	12,000	23,000	670	320	2,700	1,300	8,800	180	<0.5	<0.05	19	17
	8-Aug-24			7.31	11,000	8,620	11,000	3,200	460	440	470	340	960	27	<0.1	<0.01	5.7	5.3
	7-Aug-25			7.40	20,000	29,200		6,600	610	410	2,200	950	6,900	130	<0.1	<0.01	27	22
67-4 L	31-Aug-09			7.68	3,090	2,470	1,230	313	819	483	260	142	156	51	<0.1	<0.1	3.73	3.55
	23-Aug-10			7.53	3,450	2,590	1,290	507	683	476	264	152	250	54	<0.2	<0.2	3.58	3.36
	22-Aug-11			7.58	2,720	2,040	1,100	346	543	493	228	128	168	45	<0.1	<0.1	17.7	3.36
	19-Aug-12			7.49	2,620	1,960	1,050	268	593	503	249	103	135	31	<1.0	<1.0	3.43	3.37
	29-Aug-13			7.64	2,800	2,100	1,020	344	546	520	224	111	179	37	<0.1	<0.1	8.2	7.62
	21-Aug-14			7.87	2,900	2,020	960	380	450	430	220	100	220	24	<0.1	<0.01	2.5	2
	26-Aug-15			7.65	2,900	2,070	1,000	360	450	520	240	110	200	29	<0.1	<0.01	5.8	5.7
	19-Aug-16			7.47	3,000	2,100	1,200	400	500	540	290	120	210	33	<0.1	<0.01	4.2	3.9
	23-Aug-17			7.76	3,800	2,540	1,200	680	570	450	270	120	380	19	<0.1	<0.01	2.2	2.1
	17-Aug-18			7.79	3,900	2,580	1,300	640	690	430	320	130	390	17	0.1	<0.01	0.99	0.83
	16-Aug-19			7.80	3,600	2,730	1,200	580	620	400	310	110	330	17	<0.1	<0.01	1.2	0.78
	17-Aug-20			7.61	2,900	1,800	980	450	370	400	230	100	270	17	<0.1	<0.01	0.48	0.53
	20-Aug-21			7.55	3,200	2,060	1,000	570	480	400	250	100	310	19	<0.1	<0.01	1.6	1.3
	16-Aug-22			7.99	2,800	2,100	890	440	330	400	190	100	230	30	<0.1	<0.01	1.6	1.7
	23-Aug-23			7.72	3,900	2,630	1,300	680	690	390	330	130	400	24	<0.05	<0.01	1.5	1.2
	8-Aug-24			7.46	1,960	2,620	1,300	590	690	390	310	110	330	23	<0.1	<0.01	1.6	1.2
	7-Aug-25			7.54	3,800	2,740		670	660	390	330	120	370	22	0.17	<0.01	0.98	0.61
75-1 Ir	24-Jun-25	6.0	20,000	6.73	>100000	82,500		59,000	990	150	6,800	1,700	19,000	320	<1	<0.1	28	26
	24-Sep-25	6.8	20,000	7.49	27,000	6,970		9,700	650	340	2,600	720	7,400	120	<0.1	<0.01	4.7	4.2
	9-Dec-25	6.2	20,000	6.90	80,000	55,000		30,000	800	190	5,500	1,500	16,000	250	<1	<0.1	22	19
	25-Mar-26	6.9	16,600	7.02	19,000	12,200		6,400	1,400	320	1,200	330	2,400	48	<0.1	<0.01	4.5	3.9
75-2 Ro	24-Jun-25	7.0	129,400	6.65	>100000	51,700		73,000	410	69	3,000	1,100	7,800	110	<1	<0.1	19	21
	24-Sep-25	6.5	20,000	6.83	>100000	101,000		65,000	440	80	6,600	2,400	17,000	220	<0.5	<0.05	26	24
	9-Dec-25	6.9	20,000	6.98	>100000	88,100		56,000	380	120	8,200	2,800	20,000	270	<1	<0.1	27	22
	25-Mar-26	6.9	20,000	6.93	>100000	112,000		60,000	430	120	9,700	3,400	25,000	350	<1	<0.1	33	29

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
67-3 Ro	17-Aug-20	0.03		5.2		<0.002		0.11	4.9	<0.0009	<0.05	<0.009	1.9	<0.005	0.58		<0.05
	20-Aug-21	<0.04		5.4		0.078		<0.1	5.4	<0.0045	0.25	<0.045	<5.0	<0.025	0.52		<0.25
	16-Aug-22	0.031		3.7		0.042		0.098	4.1	<0.00045	<0.025	<0.0045	0.87	<0.0025	0.57		<0.025
	31-Aug-23	0.088		4.5		0.0021		0.1	3.3	<0.00045	<0.025	<0.0045	1.8	<0.0025	0.65		<0.025
	8-Aug-24	0.38		6.1		<0.001		0.086	0.63	<0.0009	<0.05	<0.0009	0.39	<0.0005	0.63		<0.005
	7-Aug-25	0.65		3.7		0.006		0.099	2.4	<0.0009	<0.05	<0.009	<1.0	<0.005	0.52		<0.05
67-4 L	31-Aug-09	0.01		6.2		0.004		0.08	0.35	<0.0001	0.008	0.002	0.26	<0.001	0.05		<0.01
	23-Aug-10	0.01		4.8		<0.001		0.06	0.4	<0.0001	<0.005	0.002	1.51	<0.001	0.05		<0.01
	22-Aug-11	<0.01		5		<0.001		0.05	0.5	<0.0001	<0.005	0.002	0.43	<0.001	0.03		<0.01
	19-Aug-12	0.04		8.1		<0.01		0.04	0.32	<0.0001	0.007	0.002	0.37	<0.001	0.04		<0.01
	29-Aug-13	0.12		14.1		<0.005		<0.1	0.4	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	21-Aug-14	0.003		4.7		<0.001		0.029	0.17	<0.0001	<0.005	<0.001	0.35	<0.0005	0.027		<0.005
	26-Aug-15	0.006		6.1		0.013		0.034	0.19	<0.0001	<0.005	<0.001	1.3	<0.0005	0.04		<0.005
	19-Aug-16	0.028		4.2		0.0055		0.044	0.21	<0.0001	<0.005	<0.001	0.31	<0.0005	0.043		<0.005
	23-Aug-17	0.1		3.9		0.0045		0.045	0.2	<0.0001	<0.005	<0.001	0.19	<0.0005	0.053		<0.005
	17-Aug-18	0.015		4		<0.002		0.049	0.23	<0.0001	<0.005	<0.001	0.48	<0.0005	0.071		<0.005
	16-Aug-19	0.032		3		<0.001		0.047	0.21	<0.0001	<0.005	<0.001	0.5	<0.0005	0.062		<0.005
	17-Aug-20	<0.004		3		<0.001		0.034	0.18	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.046		<0.005
	20-Aug-21	0.009		3.1		<0.001		0.042	0.23	<0.00009	<0.005	<0.0009	0.55	<0.0005	0.047		<0.005
	16-Aug-22	0.011		2.8		<0.001		0.038	0.24	<0.00009	<0.005	<0.0009	0.24	<0.0005	0.037		<0.005
	23-Aug-23	0.011		3.1		<0.001		0.043	0.34	<0.00009	<0.005	<0.0009	0.2	<0.0005	0.042		<0.005
	8-Aug-24	0.088		3.4		<0.001		0.04	0.33	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.039		<0.005
	7-Aug-25	0.079		2.8		0.0017		0.037	0.31	<0.00009	<0.005	<0.0009	0.25	<0.0005	0.037		<0.005
75-1 Ir	24-Jun-25	0.11	<600	59	850	3.2	<0.01	0.23	1.1	<0.0009	<0.05	<0.009	3.7	<0.005	4.4	<0.0001	<0.05
	24-Sep-25	0.059	<6	4.6	46	0.31	<0.01	0.086	0.52	<0.0009	<0.05	<0.009	<1	<0.005	1.6	<0.0001	<0.05
	9-Dec-25	0.24	10	4.7	660	0.36	<0.01	0.11	1.2	<0.0009	<0.05	<0.009	2.6	<0.005	3.4	<0.0001	<0.05
	25-Mar-26	0.022	10	2	120	0.0081	<0.001	0.045	0.34	<0.00009	<0.005	<0.0009	0.27	<0.0005	0.45	<0.0001	<0.005
75-2 Ro	24-Jun-25	0.08	<60	2.2	450	1	<0.01	0.06	0.46	<0.0009	<0.05	<0.009	1.9	<0.005	0.34	<0.0001	<0.05
	24-Sep-25	0.047	<100	2.7	470	0.087	<0.05	<0.1	0.71	<0.0045	<0.25	<0.045	<5	<0.025	0.81	<0.0001	<0.25
	9-Dec-25	0.056	<2	1.9	710	0.032	<0.05	<0.1	1.1	<0.0045	<0.25	<0.045	<5	<0.025	0.94	<0.0001	<0.25
	25-Mar-26	0.041	<2	3	960	0.036	<0.05	<0.1	1.1	<0.0045	<0.25	<0.045	<5	<0.025	1.1	<0.0001	<0.25

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride	Sulphate	Alkalinity	Calcium	Magnesium	Sodium	Potassium	Nitrate	Nitrite	TKN	Ammonia
								Cl	SO ₄		Ca	Mg	Na	K	NO ₃	NO ₂		NH ₃
75-3 Ro	24-Jun-25	7.5	3,310	7.94	3,200	2,610		630	370	470	160	160	240	7	<0.1	<0.01	0.83	0.63
	24-Sep-25	7.5	20,000	7.60	11,000	6,660		3,200	360	370	620	320	1,400	23	<0.1	<0.01	1.9	1.7
	9-Dec-25	6.9	20,000	7.77	5,700	3,810		1,300	440	450	430	210	720	15	<0.1	<0.01	1.2	0.87
	25-Mar-26	7.5	10,010	7.58	7,800	5,280		2,300	390	430	370	220	720	14	<0.1	<0.01	1.5	1.2
75-4 L	24-Jun-25	7.4	5,210	7.84	2,400	1,820		190	650	460	260	140	130	6	<0.1	<0.01	0.49	0.31
	24-Sep-25	8.0	2,550	7.88	2,500	1,850		210	660	440	280	140	180	7	<0.1	<0.01	0.5	0.49
	9-Dec-25	7.6	2,870	7.76	2,900	1,750		290	620	450	230	130	110	5	<0.1	<0.01	0.45	0.29
	25-Mar-26	7.7	2,440	7.74	2,000	1,550		140	570	430	200	140	96	5	<0.1	<0.01	0.46	0.31
75-5 L	24-Jun-25	7.6	1,370	7.88	1,500	960		61	390	390	100	100	54	6	<0.1	<0.01	0.4	0.21
	24-Sep-25	7.3	1,420	7.92	1,400	905		55	310	420	110	110	57	6	<0.1	<0.01	0.38	0.3
	9-Dec-25	7.6	1,780	7.79	1,700	1,150		110	310	400	120	100	78	7	<0.1	<0.01	0.37	0.24
	25-Mar-26	7.6	1,560	7.70	1,400	925		68	310	400	110	96	62	6	<0.1	<0.01	0.32	0.27
76-1 Ir	23-Jun-25	7.1	3,020	7.55	3,300	2,970		260	1,500	250	610	70	120	7	<0.1	<0.01	0.69	0.54
	23-Sep-25	7.6	3,840	7.43	4,100	3,320		450	1,500	250	690	86	210	11	<0.1	<0.01	0.94	0.89
	9-Dec-25	7.1	5,160	7.44	5,000	3,790		690	1,400	250	660	110	340	13	<0.1	<0.01	1.3	0.98
	26-Mar-26	7.1	4,540	7.35	4,100	3,640		500	1,500	240	700	98	240	11	<0.1	<0.01	1	0.87
76-2 Ro	23-Jun-25	7.3	13,330	7.74	15,000	11,000		4,200	2,300	240	790	330	2,100	63	<0.1	0.021	7.2	6.9
	23-Sep-25	7.1	17,130	7.68	18,000	13,000		5,100	2,400	240	960	440	2,800	82	<0.1	<0.01	8.3	8.7
	9-Dec-25	7.2	18,990	7.78	20,000	13,200		6,000	2,500	240	930	440	2,900	81	<0.1	<0.01	9	8.1
	26-Mar-26	7.1	18,980	7.71	20,000	15,300		7,200	2,800	240	980	460	3,000	91	<0.1	<0.01	10	9.3
76-3 Ro	26-Mar-26	7.4	16,300	7.68	18,000	13,100		4,700	2,700	170	690	220	2,300	74	<0.1	<0.01	9.8	9
76-4 Ro	23-Jun-25	7.4	750	8.00	840	460		12	93	330	80	49	17	3	<0.1	<0.01	0.22	<0.05
	23-Sep-25	7.7	800	7.85	880	600		27	87	330	77	45	19	4	<0.1	0.051	0.11	0.15
	9-Dec-25	7.7	1,010	7.94	1,000	610		33	88	340	77	44	18	4	<0.1	0.018	0.19	0.084
	26-Mar-26	7.8	820	7.94	670	395		5	62	290	71	41	13	3	<0.1	<0.01	0.19	0.056
77-1 Ir	26-Mar-26	8.7	20,000	8.49	41,000	32,500		13,000	2,000	42	2,100	410	4,900	99	<0.1	<0.01	16	15
77-2 Ro	24-Jun-25	7.2	28,400	8.04	26,000	15,500		8,700	2,000	250	770	360	3,600	92	<0.1	<0.01	11	11
	23-Sep-25	7.4	20,000	8.22	27,000	16,800		8,200	1,900	230	1,000	490	4,300	110	<0.5	<0.05	12	12
	11-Dec-25	7.3	36,400	7.86	33,000	21,300		10,000	2,100	280	1,000	520	5,100	110	<0.1	<0.01	14	13
	26-Mar-26	7.3	20,000	7.95	33,000	24,300		13,000	2,500	300	1,200	640	5,800	130	<0.5	<0.05	14	14
77-3 Ro	26-Mar-26	7.1	20,000	8.14	30,000	24,200		12,000	2,200	190	1,600	750	5,600	140	<1	<0.1	15	13

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
75-3	Ro	24-Jun-25	0.29	2	1.1	11	0.0053	<0.001	0.029	0.2	<0.00009	<0.005	<0.0009	0.79	<0.0005	0.02	<0.0001	<0.005
		24-Sep-25	0.028	<2	1.3	26	0.04	<0.001	0.04	0.26	<0.00009	<0.005	<0.0009	0.93	<0.0005	0.063	<0.0001	<0.005
		9-Dec-25	0.32	<2	1.2	11	0.003	<0.001	0.031	0.28	<0.00009	<0.005	<0.0009	0.72	<0.0005	0.033	<0.0001	<0.005
		25-Mar-26	0.011	<2	1.3	16	<0.001	0.0014	0.032	0.2	<0.00009	<0.005	<0.0009	0.97	<0.0005	0.038	<0.0001	<0.005
75-4	L	24-Jun-25	0.38	<2	1.1	9	0.04	<0.001	0.032	0.22	<0.00009	<0.005	<0.0009	0.9	0.00068	0.038	<0.0001	<0.005
		24-Sep-25	0.23	<2	1.7	<4	0.02	<0.001	0.036	0.23	<0.00009	<0.005	<0.0009	0.66	<0.0005	0.015	<0.0001	<0.005
		9-Dec-25	0.14	<2	1.2	<4	0.0033	<0.001	0.036	0.22	<0.00009	<0.005	<0.0009	0.68	<0.0005	0.013	<0.0001	<0.005
		25-Mar-26	0.022	<2	1.6	<4	<0.001	<0.001	0.035	0.2	<0.00009	<0.005	<0.0009	0.81	<0.0005	0.013	<0.0001	<0.005
75-5	L	24-Jun-25	0.047	<2	1.3	6	0.061	<0.001	0.019	0.24	<0.00009	<0.005	<0.0009	0.3	<0.0005	0.009	<0.0001	<0.005
		24-Sep-25	0.042	<2	1.4	<4	0.029	<0.001	0.021	0.24	<0.00009	<0.005	<0.0009	0.34	<0.0005	0.009	<0.0001	<0.005
		9-Dec-25	0.021	<2	1.4	<4	0.061	<0.001	0.022	0.29	<0.00009	<0.005	<0.0009	0.17	<0.0005	0.0095	<0.0001	<0.005
		25-Mar-26	0.005	<2	1.8	<4	0.019	<0.001	0.021	0.29	<0.00009	<0.005	<0.0009	0.19	<0.0005	0.0082	<0.0001	<0.005
76-1	Ir	23-Jun-25	0.038	<2	0.91	5	0.17	0.0041	0.034	0.18	<0.00009	<0.005	<0.0009	0.88	<0.0005	0.14	<0.0001	<0.005
		23-Sep-25	0.022	<2	0.98	<4	0.12	0.0016	0.031	0.24	<0.00009	<0.005	<0.0009	0.66	<0.0005	0.17	<0.0001	<0.005
		9-Dec-25	0.02	3	0.94	<4	0.094	<0.001	0.028	0.31	<0.00009	<0.005	<0.0009	0.35	<0.0005	0.18	<0.0001	<0.005
		26-Mar-26	0.006	<2	0.8	13	0.015	<0.001	0.025	0.26	<0.00009	<0.005	<0.0009	0.14	<0.0005	0.17	<0.0001	<0.005
76-2	Ro	23-Jun-25	0.26	16	1.8	81	0.29	<0.005	0.056	2.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.09	<0.0001	<0.025
		23-Sep-25	0.27	22	1.7	90	0.33	<0.005	0.052	3.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.097	<0.0001	<0.025
		9-Dec-25	0.25	46	1.1	120	0.084	<0.005	0.045	3.7	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.091	<0.0001	<0.025
		26-Mar-26	0.17	47	1.1	87	0.072	<0.005	0.044	3.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.093	<0.0001	<0.025
76-3	Ro	26-Mar-26	0.37	30	3.7	85	0.97	0.0012	0.05	3	<0.00009	<0.005	<0.0009	0.43	<0.0005	0.12	<0.0001	<0.005
76-4	Ro	23-Jun-25	0.22	<2	0.88	<4	0.089	0.0011	0.022	0.094	<0.00009	<0.005	<0.0009	0.13	<0.0005	0.011	<0.0001	<0.005
		23-Sep-25	0.087	2	1.6	<4	0.17	0.0013	0.022	0.13	<0.00009	<0.005	<0.0009	0.17	<0.0005	0.013	<0.0001	<0.005
		9-Dec-25	0.23	<2	1.6	<4	0.07	0.0012	0.022	0.12	<0.00009	<0.005	<0.0009	0.13	<0.0005	0.012	<0.0001	<0.005
		26-Mar-26	0.036	<2	1	<4	<0.001	<0.001	0.019	0.07	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.0071	<0.0001	<0.005
77-1	Ir	26-Mar-26	0.073	75	9.9	240	0.48	<0.005	0.23	0.67	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.021	<0.0001	<0.025
77-2	Ro	24-Jun-25	1.5	100	11	140	0.91	0.038	0.14	3.4	<0.0009	<0.05	<0.009	<1	<0.005	0.14	<0.0001	<0.05
		23-Sep-25	0.6	72	11	110	1.5	0.041	0.14	4.2	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.11	<0.0001	<0.025
		11-Dec-25	0.15	120	6.1	250	0.27	<0.01	0.069	4.2	<0.0009	<0.05	<0.009	<1	<0.005	0.066	<0.0001	<0.05
		26-Mar-26	0.19	130	4.7	170	0.24	0.0081	0.046	4.1	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.057	<0.0001	<0.025
77-3	Ro	26-Mar-26	0.13	130	5.4	110	0.7	0.011	0.11	4	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.098	<0.0001	<0.025

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
77-4 Ro	24-Jun-25	7.8	1,480	8.07	2,100	1,310		170	430	370	130	97	76	8	<0.1	<0.01	1.8	1.4
	23-Sep-25	7.3	1,390	7.85	2,200	1,230		240	390	370	120	92	69	6	<0.1	<0.01	1.5	1.5
	11-Dec-25	7.2	3,210	7.74	2,300	835		240	320	380	120	69	360	20	<0.1	<0.01	0.26	0.22
	26-Mar-26	7.6	1,920	7.71	1,300	930		28	310	420	110	100	44	4	<0.1	<0.01	0.23	0.17
77-5 L	24-Jun-25	7.8	1,230	7.97	1,500	815		19	280	440	97	99	37	3	<0.1	<0.01	0.13	<0.05
	23-Sep-25	7.8	1,240	7.77	1,300	800		18	260	440	92	96	35	3	<0.1	<0.01	0.18	0.17
	11-Dec-25	7.4	1,220	7.69	1,300	720		19	230	420	94	100	37	3	<0.1	<0.01	0.17	0.11
	26-Mar-26	7.4	1,460	7.65	1,300	825		25	270	420	95	99	38	3	<0.1	<0.01	0.18	0.2
78-1 Ir	24-Jun-25	7.0	46,900	7.27	40,000	27,900		17,000	1,400	300	2,900	790	6,900	130	<0.1	<0.01	12	12
	24-Sep-25	7.1	20,000	7.38	58,000	40,100		24,000	1,400	270	3,700	1,000	9,000	150	<0.1	<0.01	16	15
	9-Dec-25	6.8	20,000	7.28	45,000	30,000		14,000	1,300	310	3,600	1,100	8,900	170	<0.1	<0.01	14	13
	25-Mar-26	7.1	12,530	7.19	15,000	9,870		4,200	1,300	370	990	240	1,500	37	<0.1	<0.01	3.4	3
78-2 Ro	24-Jun-25	7.1	20,000	7.13	67,000	43,300		32,000	1,500	170	3,700	1,500	11,000	220	<1	<0.1	23	22
	24-Sep-25	6.8	20,000	7.24	85,000	68,500		38,000	1,500	150	4,900	2,000	13,000	260	<0.5	<0.05	29	28
	9-Dec-25	6.8	20,000	7.15	91,000	62,100		35,000	1,400	160	5,200	2,300	15,000	280	<0.5	<0.05	31	26
	25-Mar-26	6.7	20,000	6.96	94,000	78,700		43,000	1,600	140	5,800	2,400	16,000	320	<1	<0.1	31	31
78-3 Ro	24-Jun-25	7.4	20,000	7.50	30,000	18,700		11,000	1,700	99	1,500	500	4,500	110	<0.1	<0.01	12	11
	24-Sep-25	7.8	20,000	7.55	53,000	37,700		21,000	1,800	130	2,600	1,000	7,200	160	<0.1	<0.01	21	18
	9-Dec-25	7.4	20,000	7.36	55,000	36,400		18,000	1,700	140	2,800	1,100	8,700	180	<0.1	0.011	20	16
	25-Mar-26	7.1	20,000	7.21	59,000	44,200		26,000	2,000	140	3,100	1,200	9,400	200	<0.1	<0.01	21	21
78-4 L	24-Jun-25	7.5	11,720	7.36	14,000	10,400		4,300	1,500	120	990	320	1,600	47	<0.1	<0.01	4.9	4.6
	24-Sep-25	7.3	18,080	7.55	20,000	13,000		6,400	1,700	160	1,300	490	2,500	61	<0.1	<0.01	6.4	6.2
	9-Dec-25	7.0	19,030	7.39	23,000	13,900		7,100	1,700	160	1,300	540	2,700	68	<0.1	<0.01	7	6.3
	25-Mar-26	6.9	20,000	7.20	23,000	16,400		7,100	1,900	170	1,400	560	2,800	72	<0.1	<0.01	7.7	7.5
78-5 L	24-Jun-25	7.4	2,730	7.69	2,300	2,000		210	610	390	320	120	190	14	<0.1	<0.01	0.94	0.64
	24-Sep-25	8.0	1,450	7.92	1,500	955		52	340	420	140	100	76	8	<0.1	<0.01	0.43	0.41
	9-Dec-25	7.6	2,100	7.87	1,400	830		30	260	440	110	100	50	5	<0.1	<0.01	0.26	0.11
	25-Mar-26	7.4	3,660	7.43	1,800	1,130		120	500	390	130	86	71	11	<0.1	0.012	0.66	0.46
79-1 Ro	23-Jun-25	6.6	20,000	7.24	80,000	60,600		34,000	1,300	150	4,400	1,900	12,000	230	<0.5	<0.05	24	23
	23-Sep-25	6.7	20,000	6.85	>100000	100,000		47,000	1,300	100	5,400	2,300	15,000	310	<1	<0.1	36	34
	11-Dec-25	6.9	127,200	6.79	>100000	116,000		58,000	1,200	100	7,400	3,300	21,000	380	<1	<0.1	38	34

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
								As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
77-4	Ro	24-Jun-25	0.25	28	2.6	23	0.35	0.0035	0.024	0.24	<0.00009	<0.005	<0.0009	0.65	<0.0005	0.048	<0.0001	0.0054
		23-Sep-25	0.076	<2	1.6	8	0.58	0.0058	0.02	0.24	<0.00009	<0.005	<0.0009	0.73	<0.0005	0.035	<0.0001	<0.005
		11-Dec-25	0.13	2	1.1	<4	0.19	0.002	0.032	1.1	<0.00009	<0.005	<0.0009	0.14	<0.0005	0.029	<0.0001	<0.005
		26-Mar-26	0.014	<2	0.99	<4	0.034	0.0022	0.023	0.14	<0.00009	<0.005	<0.0009	0.57	<0.0005	0.026	<0.0001	<0.005
77-5	L	24-Jun-25	0.076	<2	0.76	<4	0.016	0.0026	0.024	0.11	<0.00009	<0.005	<0.0009	0.59	<0.0005	0.027	<0.0001	<0.005
		23-Sep-25	0.022	<2	0.96	<4	0.11	0.0027	0.023	0.11	<0.00009	<0.005	<0.0009	0.59	<0.0005	0.025	<0.0001	<0.005
		11-Dec-25	0.021	<2	1.1	<4	0.061	0.0029	0.024	0.12	<0.00009	<0.005	<0.0009	0.6	<0.0005	0.024	<0.0001	<0.005
		26-Mar-26	0.012	<2	0.92	<4	0.023	0.0027	0.025	0.11	<0.00009	<0.005	<0.0009	0.6	<0.0005	0.025	<0.0001	<0.005
78-1	Ir	24-Jun-25	0.11	70	21	260	0.021	<0.01	0.13	1.4	<0.0009	<0.05	<0.009	1.8	<0.005	0.59	<0.0001	<0.05
		24-Sep-25	0.032	<60	20	250	0.042	<0.01	0.15	1.3	<0.0009	<0.05	<0.009	<1	<0.005	0.76	<0.0001	<0.05
		9-Dec-25	0.19	36	12	330	0.0017	<0.01	0.12	1.3	<0.0009	<0.05	<0.009	<1	<0.005	0.77	<0.0001	<0.05
		25-Mar-26	0.2	3	1.6	43	<0.001	<0.001	0.1	0.48	<0.00009	<0.005	<0.0009	0.58	<0.0005	0.12	<0.0001	<0.005
78-2	Ro	24-Jun-25	0.66	94	32	510	0.2	<0.01	0.35	3.2	<0.0009	<0.05	<0.009	1.8	<0.005	0.49	<0.0001	<0.05
		24-Sep-25	0.18	<60	32	370	0.27	<0.01	0.23	3.3	<0.0009	<0.05	<0.009	1.4	<0.005	0.56	<0.0001	<0.05
		9-Dec-25	0.14	13	28	360	0.41	<0.01	0.21	3.9	<0.0009	<0.05	<0.009	2	<0.005	0.61	<0.0001	0.22
		25-Mar-26	0.71	61	35	450	0.23	<0.005	0.21	3.8	<0.00045	<0.025	<0.0045	1.5	<0.0025	0.63	<0.0001	<0.025
78-3	Ro	24-Jun-25	0.26	150	53	260	2	0.011	0.16	1.8	<0.0009	<0.05	<0.009	<1	<0.005	0.18	<0.0001	<0.05
		24-Sep-25	1.4	<60	57	400	0.81	<0.01	0.19	3	<0.0009	<0.05	<0.009	<1	<0.005	0.24	<0.0001	0.091
		9-Dec-25	0.12	140	53	300	1.6	0.011	0.14	3.3	<0.0009	<0.05	<0.009	<1	<0.005	0.23	<0.0001	<0.05
		25-Mar-26	0.57	100	38	450	0.3	0.0068	0.16	3.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.22	<0.0001	<0.025
78-4	L	24-Jun-25	0.12	4	2.5	63	0.89	<0.005	0.12	2.5	<0.00045	<0.025	<0.0045	1.4	<0.0025	0.25	<0.0001	<0.025
		24-Sep-25	0.11	<40	2.1	99	0.73	<0.005	0.11	3.7	<0.00045	<0.025	<0.0045	2.6	<0.0025	0.27	<0.0001	<0.025
		9-Dec-25	0.12	<2	1.4	140	0.065	<0.005	0.092	4.5	<0.00045	<0.025	<0.0045	3.1	<0.0025	0.23	<0.0001	<0.025
		25-Mar-26	0.12	<2	1.6	59	0.01	<0.005	0.096	4.3	<0.00045	<0.025	<0.0045	3.6	<0.0025	0.21	<0.0001	<0.025
78-5	L	24-Jun-25	0.82	6	1.3	8	0.11	0.002	0.037	0.82	<0.00009	<0.005	<0.0009	3	<0.0005	0.052	<0.0001	0.14
		24-Sep-25	0.16	<2	1.4	5	0.037	0.0016	0.021	0.23	<0.00009	<0.005	<0.0009	0.99	<0.0005	0.024	<0.0001	<0.005
		9-Dec-25	0.44	<2	1.3	<4	0.018	0.0024	0.032	0.12	<0.00009	<0.005	<0.0009	0.65	<0.0005	0.046	<0.0001	<0.005
		25-Mar-26	0.14	3	1.8	<4	0.0055	0.0015	0.023	0.23	<0.00009	<0.005	<0.0009	0.62	<0.0005	0.017	<0.0001	<0.005
79-1	Ro	23-Jun-25	0.13	150	63	580	1.3	0.022	0.48	1.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.96	<0.0001	<0.025
		23-Sep-25	0.12	63	31	940	2	0.035	0.55	2.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	1	<0.0001	<0.025
		11-Dec-25	0.14	66	24	1,200	1.5	0.014	0.53	3.2	<0.0009	<0.05	<0.009	<1	<0.005	1	<0.0001	<0.05

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
79-1 Ro	25-Mar-26	6.4	20,000	6.54	>100000	126,000		79,000	1,400	85	8,800	4,000	26,000	440	<1	<0.1	46	40
79-2 Ro	23-Jun-25	7.2	20,000	7.70	>100000	93,500		49,000	1,500	71	6,400	2,800	20,000	340	<1	<0.1	33	33
	23-Sep-25	7.3	20,000	7.78	>100000	91,300		44,000	1,500	94	6,500	2,900	20,000	390	<0.1	0.02	43	35
	11-Dec-25	7.4	126,600	7.72	>100000	96,000		46,000	1,400	98	7,000	3,200	22,000	370	<0.1	0.035	39	31
	25-Mar-26	6.8	20,000	7.49	>100000	104,000		60,000	1,600	99	7,200	3,100	21,000	350	<1	<0.1	39	36
79-3 L	23-Jun-25	7.2	5,960	7.64	11,000	6,040		3,000	1,100	190	650	230	1,600	38	<0.1	<0.01	1.9	2.1
	23-Sep-25	7.8	2,200	7.58	5,100	3,060		920	1,100	300	290	130	490	19	<0.1	<0.01	2	1.8
	11-Dec-25	7.7	2,834	7.67	4,800	2,740		690	970	300	240	120	360	16	<0.1	<0.01	1.4	1.2
	25-Mar-26	8.0	5,720	7.84	1,800	1,230		150	420	400	140	100	130	7	<0.1	<0.01	0.39	0.34
79-4 L	23-Jun-25	7.6	1,220	7.96	1,400	785		71	300	420	100	91	34	3	<0.1	<0.01	0.21	<0.05
	23-Sep-25	7.4	1,470	7.68	1,800	1,890		170	310	410	120	96	86	5	<0.1	<0.01	0.55	0.47
	11-Dec-25	7.3	1,189	7.64	1,200	790		13	210	420	100	93	37	4	<0.1	<0.01	0.1	0.065
	25-Mar-26	7.5	1,370	7.61	1,200	1,040		20	280	430	110	92	35	3	<0.1	<0.01	0.32	0.073
80-1 Ro	23-Jun-25	7.3	8,880	7.96	10,000	6,170		2,000	1,900	240	310	100	1,600	41	<0.1	0.021	5	4.9
	22-Sep-25	7.2	10,730	7.88	12,000	7,540		2,500	2,100	230	460	140	2,000	56	<0.1	0.011	6.6	6.5
	10-Dec-25	7.3	11,690	8.06	13,000	8,510		2,600	2,100	280	500	160	2,200	61	<0.1	<0.01	6.1	5.8
	24-Mar-26	7.2	12,970	7.98	13,000	9,010		3,200	2,500	280	550	170	2,200	62	<0.1	<0.01	6.4	6.9
80-2 Ro	23-Jun-25	7.4	20,000	7.82	33,000	23,400		14,000	1,500	180	1,400	530	5,200	120	<0.1	<0.01	14	14
	22-Sep-25	7.7	20,000	7.48	35,000	24,700		15,000	1,600	150	1,700	600	5,400	130	<0.1	<0.01	15	14
	10-Dec-25	7.1	20,000	8.00	38,000	24,900		12,000	1,600	180	1,800	660	6,200	150	<0.1	<0.01	15	13
	24-Mar-26	7.2	20,000	7.76	39,000	26,500		15,000	1,800	150	1,700	610	6,100	140	<0.1	<0.01	15	15
80-3 L	23-Jun-25	7.4	1,420	7.85	1,500	990		99	280	420	120	100	50	5	<0.1	<0.01	0.25	0.066
	22-Sep-25	7.6	1,470	7.91	1,500	950		96	260	430	120	100	46	4	<0.1	<0.01	0.15	0.19
	10-Dec-25	7.6	1,430	7.62	1,500	905		85	220	430	120	110	50	4	<0.1	<0.01	0.16	0.1
	24-Mar-26	7.4	1,700	7.62	1,500	1,010		120	250	430	120	110	51	4	<0.1	<0.01	0.36	0.15
81-1 Ro	23-Jun-25	7.6	7,930	7.92	9,000	5,990		1,800	1,900	240	280	84	1,500	45	<0.1	<0.01	5.7	5.5
	22-Sep-25	7.5	10,100	7.74	11,000	7,450		2,300	2,200	240	420	130	2,000	56	<0.1	<0.01	5.9	6.1
	10-Dec-25	7.6	10,490	7.66	12,000	7,980		2,400	2,100	240	470	140	2,100	65	<0.1	<0.01	6.3	5.7
	24-Mar-26	7.7	10,780	7.56	11,000	7,530		2,400	2,200	250	420	120	2,000	59	<0.1	<0.01	5.9	6.1
81-2 Ro	23-Jun-25	7.3	1,390	7.92	1,400	925		120	240	330	110	84	52	11	<0.1	<0.01	0.98	0.68
	22-Sep-25	7.4	1,450	7.91	1,500	925		130	260	360	110	87	54	11	<0.1	<0.01	0.78	0.84

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators						Dissolved Metals									
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg	Zinc Zn
79-1 Ro	25-Mar-26	0.13	43	22	960	1.2	<0.005	0.47	3.2	<0.00045	<0.025	<0.0045	1	<0.0025	0.95	<0.0001	<0.025
79-2 Ro	23-Jun-25	0.047	100	4.5	740	1.5	0.012	0.27	2.2	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.68	<0.0001	<0.025
	23-Sep-25	0.3	<40	3.2	1,100	1.3	0.0079	0.16	4.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.47	<0.0001	<0.025
	11-Dec-25	0.74	7	2.8	950	0.84	<0.01	0.13	4.6	<0.0009	<0.05	<0.009	<1	<0.005	0.45	<0.0001	<0.05
	25-Mar-26	0.065	38	3.2	990	1.1	0.0055	0.16	4.3	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.46	<0.0001	<0.025
79-3 L	23-Jun-25	2.4	<2	4	20	1	0.0067	0.11	1.7	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.6	<0.0001	<0.025
	23-Sep-25	2.7	6	2.8	11	0.8	0.004	0.055	1.6	<0.00009	<0.005	<0.0009	0.97	<0.0005	0.29	<0.0001	<0.005
	11-Dec-25	0.37	<2	1.3	<4	0.086	0.0056	0.04	1.2	<0.00009	<0.005	<0.0009	0.5	<0.0005	0.16	<0.0001	<0.005
	25-Mar-26	0.045	2	2	<4	0.0045	0.0017	0.042	0.37	<0.00009	<0.005	<0.0009	0.23	<0.0005	0.045	<0.0001	<0.005
79-4 L	23-Jun-25	0.072	<2	0.86	4	0.015	0.0044	0.052	0.067	<0.00009	<0.005	<0.0009	0.5	<0.0005	0.052	<0.0001	<0.005
	23-Sep-25	0.35	2	1.1	<4	0.049	0.0027	0.063	0.17	<0.00009	<0.005	<0.0009	0.5	<0.0005	0.052	<0.0001	<0.005
	11-Dec-25	0.15	<2	1.1	<4	0.035	0.0027	0.055	0.1	<0.00009	<0.005	<0.0009	0.52	<0.0005	0.054	<0.0001	<0.005
	25-Mar-26	0.048	<2	0.99	<4	<0.001	0.0021	0.053	0.078	<0.00009	<0.005	<0.0009	0.56	<0.0005	0.057	<0.0001	<0.005
80-1 Ro	23-Jun-25	0.041	11	1.6	69	0.01	0.015	0.018	3.4	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.059	<0.0001	<0.025
	22-Sep-25	0.072	42	2.3	84	0.032	0.01	0.015	3.6	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.072	<0.0001	<0.005
	10-Dec-25	0.038	40	1.6	100	0.007	0.0056	0.011	4.6	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.078	<0.0001	<0.005
	24-Mar-26	0.037	41	1.4	100	0.001	0.0034	0.01	3.9	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.084	<0.0001	<0.005
80-2 Ro	23-Jun-25	0.078	<40	2.8	190	0.23	0.035	0.22	3.9	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.32	<0.0001	<0.025
	22-Sep-25	0.16	<40	6.1	180	1.7	0.022	0.17	4.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.29	<0.0001	<0.025
	10-Dec-25	0.1	74	2.6	220	0.25	0.016	0.16	5.7	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.22	<0.0001	<0.025
	24-Mar-26	0.079	95	2.6	200	0.19	<0.01	0.049	5.6	<0.0009	<0.05	<0.009	<1	<0.005	0.17	<0.0001	<0.05
80-3 L	23-Jun-25	0.057	<2	1.4	<4	0.033	0.029	0.057	0.15	<0.00009	<0.005	<0.0009	0.38	<0.0005	0.023	<0.0001	<0.005
	22-Sep-25	0.022	<2	1.7	<4	0.035	0.01	0.056	0.13	<0.00009	<0.005	<0.0009	0.45	<0.0005	0.022	<0.0001	<0.005
	10-Dec-25	0.017	<2	1.4	<4	0.011	0.0084	0.053	0.15	<0.00009	<0.005	<0.0009	0.46	<0.0005	0.021	<0.0001	<0.005
	24-Mar-26	0.016	<2	1.4	4	0.0015	0.0057	0.054	0.12	<0.00009	<0.005	<0.0009	0.45	<0.0005	0.018	<0.0001	<0.005
81-1 Ro	23-Jun-25	0.14	<2	2.8	45	0.98	<0.005	0.037	3.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.074	<0.0001	<0.025
	22-Sep-25	0.17	6	2.9	31	1.9	<0.005	0.027	5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.11	<0.0001	<0.025
	10-Dec-25	0.1	<2	0.46	26	0.052	<0.001	0.009	5.4	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.072	<0.0001	<0.005
	24-Mar-26	0.048	3	0.92	43	0.06	<0.001	0.007	4	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.058	<0.0001	<0.005
81-2 Ro	23-Jun-25	0.046	<2	1.4	<4	0.05	0.0051	0.034	0.3	<0.00009	<0.005	<0.0009	0.12	<0.0005	0.029	<0.0001	<0.005
	22-Sep-25	0.051	<2	1.6	<4	0.05	0.0021	0.033	0.32	<0.00009	<0.005	<0.0009	0.25	<0.0005	0.027	<0.0001	<0.005

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s U)	EC (µS/cm)	pH (s U)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO₃	Nitrite NO₂	TKN	Ammonia NH₃
81-2 Ro	10-Dec-25	7.3	1,550	7.82	1,600	980		130	220	370	120	97	61	13	<0.1	<0.01	0.77	0.69
	24-Mar-26	7.4	1,760	7.50	1,600	1,050		150	270	370	130	96	60	12	<0.1	<0.01	0.98	0.85
81-3 L	23-Jun-25	7.6	1,660	7.93	1,800	1,190		180	300	410	120	130	59	8	<0.1	<0.01	0.44	0.21
	22-Sep-25	7.4	1,740	7.67	1,800	1,150		160	320	430	120	130	59	6	<0.1	<0.01	0.29	0.29
	10-Dec-25	7.4	1,760	7.73	1,800	1,190		170	250	430	120	130	61	5	<0.1	<0.01	0.33	0.18
	24-Mar-26	7.5	2,060	7.58	1,900	1,360		250	270	420	130	130	64	5	<0.1	0.012	0.34	0.26

Table G-1 Inorganic Groundwater Chemical Results

Monitor / Flow Zone			Date	Nutrients and Organic Indicators					Dissolved Metals									
				Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic As	Barium Ba	Boron B	Cadmium Cd	Chromium Cr	Copper Cu	Iron Fe	Lead Pb	Manganese Mn	Mercury Hg
81-2	Ro	10-Dec-25	0.006	<2	1.2	<4	0.036	0.001	0.034	0.39	<0.00009	<0.005	<0.0009	0.23	<0.0005	0.024	<0.0001	<0.005
		24-Mar-26	0.008	<2	1.1	<4	0.0069	<0.001	0.031	0.33	<0.00009	<0.005	<0.0009	0.2	<0.0005	0.02	<0.0001	<0.005
81-3	L	23-Jun-25	1	<2	1.5	5	0.05	0.026	0.061	0.12	<0.00009	<0.005	<0.0009	0.55	<0.0005	0.032	<0.0001	<0.005
		22-Sep-25	0.19	<2	1.5	<4	0.11	0.0097	0.057	0.11	<0.00009	<0.005	<0.0009	1	<0.0005	0.03	<0.0001	<0.005
		10-Dec-25	0.12	<2	1.2	<4	0.014	0.0061	0.057	0.11	<0.00009	<0.005	<0.0009	1.3	<0.0005	0.029	<0.0001	<0.005
		24-Mar-26	0.021	<2	1.1	9	0.0035	0.004	0.056	0.1	<0.00009	<0.005	<0.0009	1.2	<0.0005	0.026	<0.0001	<0.005

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
17-1 Ro	17-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	29-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	15-Jun-11	< 1	< 0.8	< 8	< 1	< 0.4
	25-Jun-12	< 0.5	< 0.4	< 4	< 0.5	< 0.2
17-1R Ro	25-Jun-13	0.8	< 0.4	< 4	1	< 0.2
	18-Jun-14	1.8	< 0.4	< 4	2.6	< 0.2
	25-Jun-15	0.61	< 1	< 2.5	2.1	< 1
	28-Jun-16	< 5	< 10	< 25	< 10	< 10
	26-Jun-17	0.94	< 1	< 2.5	2.2	< 1
	22-Jun-18	1.3	< 1	< 2.5	2.3	< 1
	19-Jun-19	< 10	< 20	< 50	< 20	< 20
	19-Jun-20	1.4	< 0.2	< 0.5	1.8	< 0.2
	30-Jun-21	0.66	< 0.5	< 1.3	1.6	< 0.5
	13-Jun-22	1.1	< 1	< 2.5	2.2	< 1
	29-Jun-23	1	< 2	< 5	< 2	< 2
	11-Jun-24	< 5	< 10	< 25	< 10	< 10
	18-Jun-25	0.91	< 0.4	< 2	1.9	< 0.2
	17-Sep-25	0.82	< 0.4	< 2	2	< 0.2
	11-Mar-26	1.2	< 0.4	< 2	2.6	< 0.2
17-2 L	17-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	29-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	15-Jun-11	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	25-Jun-12	< 0.5	< 0.4	< 4	< 0.5	0.4
	25-Jun-13	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	18-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	25-Jun-15	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	28-Jun-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	25-Jun-17	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	22-Jun-18	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	19-Jun-19	< 0.25	< 0.5	< 1.3	< 0.5	< 0.5
	19-Jun-20	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
17-2 L (cont'd)	30-Jun-21	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	13-Jun-22	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	29-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	12-Jun-24	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
19-1R Ro	22-Jun-09	< 0.5	< 0.4	< 4	0.5	< 0.2
	30-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	14-Jun-11	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	13-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	20-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
19-1R2 Ro	26-Jun-18	7.7	< 5	< 13	< 5	< 5
	6-May-20	9.3			< 0.2	
	13-Jun-22	6.9	< 1	< 2.5	< 1	< 1
19-3R L	28-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	14-Jun-11	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	26-Jun-12	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	27-Jun-13	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	18-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	26-Jun-15	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	27-Jun-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	23-Jun-17	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	26-Jun-18	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	18-Jun-19	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	19-Jun-20	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	30-Jun-21	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	13-Jun-22	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	27-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	11-Jun-24	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
19-3R L (cont'd)	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
23-1R Ro	19-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
39-1 Ir	9-Jan-09	19	< 4	< 40	< 5	< 2
	1-Feb-09	19	< 4	< 40	< 5	< 2
	20-Mar-09	16.7	< 0.4	< 4	1.4	< 0.2
	15-Mar-10	4.2	< 0.4	< 4	< 0.5	< 0.2
	16-Feb-11	6	< 0.8	< 8	< 1	< 0.4
	6-Feb-12	7.1	< 0.4	< 4	< 0.5	< 0.2
	25-Feb-13	5.3	< 0.4	< 4	< 0.5	< 0.2
	19-Feb-14	6.1	< 0.4	< 4	< 0.5	< 0.2
	25-Feb-15	7	< 0.5	< 2	< 0.2	< 0.2
	9-Feb-16	6.6	< 2	< 5	< 2	< 2
	6-Mar-17	2.2	< 0.2	< 0.5	< 0.2	< 0.2
	12-Mar-18	4.1	< 5	< 13	< 5	< 5
	12-Mar-19	4.3	< 0.2	< 0.5	< 0.2	< 0.2
	5-Mar-20	5.5	< 0.4	< 1	< 0.4	< 0.4
	9-Mar-21	6.2	< 0.2	< 0.5	< 0.2	< 0.2
	11-Mar-22	5.1	< 2	< 5	< 2	< 2
	2-Mar-23	2.5	< 2	< 5	< 2	< 2
	6-Mar-24	5.1	< 2	< 5	< 2	< 2
	19-Mar-25	0.87	< 0.2	< 0.5	< 0.2	< 0.2
	4-Mar-26	< 5	< 10	< 25	< 10	< 10
40-1 Ir	9-Jan-09	< 4	< 3		< 4	< 2
	31-Mar-09	2.5	< 0.4	< 4	1.4	< 0.2
	1-Sep-09	< 4	< 3	< 32	< 4	< 2
	16-Mar-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	4-Mar-11	< 2	< 2	< 16	< 2	< 0.8
	15-Feb-12	1.1	< 0.4	< 4	< 0.5	< 0.2
	1-Mar-13	1.1	< 0.4	< 4	< 0.5	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
40-1 (cont'd)	Ir 24-Feb-14	0.8	< 0.4	< 4	< 0.5	< 0.2
	26-Feb-15	1.1	< 1	< 2.5	< 1	< 1
	29-Feb-16	< 2	< 4	< 10	< 4	< 4
40-1R	Ir 9-Mar-17	< 2.5	< 5	< 13	< 5	< 5
	12-Mar-18	< 5	< 10	< 25	< 10	< 10
	13-Mar-19	< 2	< 4	< 10	< 4	< 4
	9-Mar-20	< 2.5	< 5	< 13	< 5	< 5
	10-Mar-21	0.95	< 0.2	< 0.5	0.3	< 0.2
	14-Mar-22	< 1	< 2	< 5	< 2	< 2
	7-Mar-23	< 2.5	< 5	< 13	< 5	< 5
	6-Mar-24	0.17	< 0.2	< 0.5	< 0.2	< 0.2
	3-Mar-25	< 0.5	< 1	< 2.5	< 1	< 1
	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	22-Sep-25	0.23	< 0.4	< 2	< 0.2	< 0.2
	4-Mar-26	< 5	< 10	< 25	< 10	< 10
	4-Mar-26	0.3	< 0.4	< 2	< 0.2	< 0.2
40-2R	L 20-Dec-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	23-Jun-17	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	21-Jun-18	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	19-Jun-19	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	14-Jun-20	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	27-Jun-21	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	13-Jun-22	< 0.5	< 1	< 2.5	< 1	< 1
	29-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
46-1R	Ro 22-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	29-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	15-Jun-11	< 1	< 0.8	< 8	< 1	< 0.4
	20-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	27-Jun-18	32	< 1	< 2.5	8.6	< 1
	16-Jun-22	15	< 0.5	< 1.3	6.2	< 0.5
46-2	L 17-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
46-2 L (cont'd)	23-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	9-Jun-11	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	14-Jun-12	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	25-Jun-13	0.9	< 0.4	< 4	< 0.5	< 0.2
	13-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	23-Jun-15	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	20-Jun-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	21-Jun-17	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	14-Jun-18	0.54	< 0.2	< 0.5	0.36	< 0.2
	24-Jun-19	< 0.25	< 0.5	< 1.3	< 0.5	< 0.5
	19-Jun-20	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	30-Jun-21	< 0.25	< 0.5	< 1.3	< 0.5	< 0.5
	16-Jun-22	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	29-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	11-Jun-24	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
46-3 L	19-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	29-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	15-Jun-11	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	26-Jun-12	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	27-Jun-13	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	13-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	26-Jun-15	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	27-Jun-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	26-Jun-17	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
46-3R L	13-Jun-18	1	< 0.2	< 0.5	0.61	< 0.2
	19-Jun-19	< 0.25	< 0.5	< 1.3	< 0.5	< 0.5
	16-Jun-20	0.84	< 0.2	< 0.5	0.39	< 0.2
	30-Jun-21	< 0.5	< 1	< 2.5	< 1	< 1

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
46-3R L (cont'd)	16-Jun-22	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	29-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	11-Jun-24	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
47-1R Ro	18-Jun-09	34.6	< 0.4	< 4	12	< 0.2
	29-Jun-10	26.3	< 0.4	< 4	11.9	< 0.2
	15-Jun-11	27.2	< 0.4	< 4	8.4	< 0.2
	27-Jun-14	53.6	< 0.4	< 4	17.8	< 0.2
	26-Jun-18	48	< 2	< 5	18	< 2
	23-Jun-22	50	< 2	6.6	20	< 2
	17-Jun-25	38	< 0.4	< 2	14	< 0.2
	17-Sep-25	36	< 0.4	< 2	12	< 0.2
	11-Mar-26	48	< 0.4	< 2	18	< 0.2
47-2R L	18-Jun-09	< 0.5	< 0.4	< 10	< 0.5	< 0.2
	29-Jun-10	20.3	< 0.4	< 4	1.2	< 0.2
	15-Jun-11	62	< 0.4	< 4	1.3	< 0.2
	26-Jun-12	72.7	< 0.4	< 4	1	< 0.2
	25-Jun-13	81.3	< 0.4	< 4	1.3	< 0.2
	8-Jul-13	57	< 0.4	< 4	2	< 0.2
	27-Jun-14	60.8	< 0.4	< 4	1.3	< 0.2
	26-Jun-15	69	< 2	< 5	5.4	< 2
	27-Jun-16	97	< 2	< 5	< 2	< 2
	24-Jun-17	110	< 4	< 10	< 4	< 4
	26-Jun-18	130	< 4	< 10	< 4	< 4
	20-Jun-19	87	< 2	< 5	< 2	< 2
	24-Jun-20	120	< 2	< 5	< 2	< 2
	29-Jun-21	110	< 2	< 5	6	< 2
	23-Jun-22	77	< 4	< 10	< 4	< 4
	27-Jun-23	92	< 2	< 5	< 2	< 2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
47-2R L (cont'd)	11-Jun-24	71	< 10	< 25	< 10	< 10
	17-Jun-25	130	< 2	< 10	2	< 1
	17-Sep-25	110	< 0.4	< 2	5.6	< 0.2
	11-Mar-26	74	< 0.4	< 2	1.3	< 0.2
47-3R L	18-Jun-09	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	29-Jun-10	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	15-Jun-11	< 1	< 0.8	< 8	< 1	< 0.4
	26-Jun-12	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	25-Jun-13	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	27-Jun-14	< 0.5	< 0.4	< 4	< 0.5	< 0.2
	26-Jun-15	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	27-Jun-16	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	24-Jun-17	0.79	< 0.2	< 0.5	< 0.2	< 0.2
	26-Jun-18	< 0.2	< 0.4	< 1	< 0.4	< 0.4
	20-Jun-19	< 0.2	< 0.4	< 1	< 0.4	< 0.4
	24-Jun-20	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	29-Jun-21	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	23-Jun-22	< 0.5	< 1	< 2.5	< 1	< 1
	27-Jun-23	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	11-Jun-24	< 0.1	< 0.2	< 0.5	< 0.2	< 0.2
	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
48-1 Ro	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
48-2 L	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
49-2 L	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	17-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
49-2 L	18-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
51-1 Ro	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	18-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	18-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
51-2 L	17-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	18-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	18-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
55-3 L	18-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	18-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
75-1 Ir	24-Jun-25	29	< 0.4	< 2	20	< 0.2
	24-Sep-25	23	< 0.4	< 2	13	< 0.2
	9-Dec-25	38	< 0.4	< 2	29	< 0.2
	25-Mar-26	15	< 0.4	< 2	14	< 0.2
75-2 Ro	24-Jun-25	72	< 0.4	< 2	46	< 0.2
	24-Sep-25	52	< 0.4	< 2	32	< 0.2
	9-Dec-25	58	< 0.4	< 2	42	< 0.2
	25-Mar-26	71	< 0.4	< 2	54	< 0.2
75-3 Ro	24-Jun-25	2.5	< 0.4	< 2	1.8	< 0.2
	24-Sep-25	6	< 0.4	< 2	3.3	< 0.2
	9-Dec-25	3.1	< 0.4	< 2	2.4	< 0.2
	25-Mar-26	3.4	< 0.4	< 2	1.7	< 0.2
75-4 L	24-Jun-25	0.24	< 0.4	< 2	0.24	< 0.2
	24-Sep-25	0.65	< 0.4	< 2	0.22	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
75-5 L	24-Jun-25	0.21	< 0.4	< 2	0.64	< 0.2
	24-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
76-1 Ir	23-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
76-1 Ir (cont'd)	23-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	26-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
76-2 Ro	23-Jun-25	1.7	< 0.4	< 2	4	< 0.2
	23-Sep-25	1.3	< 0.4	< 2	2.9	< 0.2
	9-Dec-25	0.59	< 0.4	< 2	1.2	< 0.2
	26-Mar-26	0.45	< 0.4	< 2	0.79	< 0.2
76-3 Ro	26-Mar-26	3.9	< 0.4	< 2	11	< 0.2
76-4 Ro	23-Jun-25	< 0.2	< 0.4	< 2	0.68	< 0.2
	23-Sep-25	0.77	< 0.4	< 2	2.8	< 0.2
	9-Dec-25	1.2	< 0.4	< 2	2.6	< 0.2
	26-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
77-1 Ir	26-Mar-26	0.63	< 0.4	< 2	1.8	< 0.2
77-2 Ro	24-Jun-25	3.8	< 0.4	< 2	19	< 0.2
	23-Sep-25	3.7	< 0.4	< 2	17	< 0.2
	11-Dec-25	0.98	< 0.4	< 2	4.4	< 0.2
	26-Mar-26	0.97	< 0.4	< 2	4	< 0.2
77-3 Ro	26-Mar-26	2.5	< 0.4	< 2	9.4	< 0.2
77-4 Ro	24-Jun-25	1.1	< 0.4	< 2	5.7	< 0.2
	23-Sep-25	1.3	< 0.4	< 2	4	< 0.2
	11-Dec-25	0.64	< 0.4	< 2	2.3	< 0.2
	26-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
77-5 L	24-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	23-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	26-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
78-1 Ir	24-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
78-2 Ro	24-Jun-25	0.91	< 0.4	< 2	2.7	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
78-2 Ro (cont'd)	24-Sep-25	0.46	< 0.4	< 2	1.3	< 0.2
	9-Dec-25	0.59	< 0.4	< 2	1.5	< 0.2
	25-Mar-26	0.61	< 0.4	< 2	1.6	< 0.2
78-3 Ro	24-Jun-25	10	< 0.4	< 2	16	< 0.2
	24-Sep-25	22	< 0.4	< 2	37	< 0.2
	9-Dec-25	16	< 0.4	< 2	16	< 0.2
	25-Mar-26	11	< 0.4	< 2	13	< 0.2
78-4 L	24-Jun-25	< 0.2	< 0.4	< 2	0.3	< 0.2
	24-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
78-5 L	24-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	9-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
79-1 Ro	23-Jun-25	31	< 0.4	< 2	21	< 0.2
	23-Sep-25	30	< 0.4	< 2	16	< 0.2
	11-Dec-25	30	< 0.4	< 2	20	< 0.2
	25-Mar-26	20	< 0.4	< 2	13	< 0.2
79-2 Ro	23-Jun-25	1.3	< 0.4	< 2	2.5	< 0.2
	23-Sep-25	0.95	< 0.4	< 2	1.8	< 0.2
	11-Dec-25	0.92	< 0.4	< 2	1.8	< 0.2
	25-Mar-26	1	< 0.4	< 2	1.4	< 0.2
79-3 L	23-Jun-25	< 0.2	< 0.4	< 2	0.29	< 0.2
	23-Sep-25	< 0.2	< 0.4	< 2	0.36	< 0.2
	11-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
79-4 L	23-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	23-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	11-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	25-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2

Table G-2 Groundwater Organic Chemical Results

Monitor / Flow Zone	Date	Volatile Organic Compounds				
		Benzene	1,4-Dichlorobenzene	Dichloromethane	Toluene	Vinyl Chloride
80-1 Ro	23-Jun-25	13	< 0.4	< 2	0.64	< 0.2
	22-Sep-25	29	< 0.4	< 2	0.59	< 0.2
	10-Dec-25	28	< 0.4	< 2	0.4	< 0.2
	24-Mar-26	28	< 0.4	< 2	< 0.2	< 0.2
80-2 Ro	23-Jun-25	4.2	< 0.4	< 2	8.2	< 0.2
	22-Sep-25	0.96	< 0.4	< 2	0.89	< 0.2
	10-Dec-25	9	< 0.4	< 2	15	< 0.2
	24-Mar-26	10	< 0.4	< 2	17	< 0.2
80-3 L	23-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	10-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
81-1 Ro	23-Jun-25	< 0.2	< 0.4	< 2	0.31	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	10-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
81-2 Ro	23-Jun-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	10-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2
81-3 L	23-Jun-25	< 0.2	< 0.4	< 2	0.26	< 0.2
	22-Sep-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	10-Dec-25	< 0.2	< 0.4	< 2	< 0.2	< 0.2
	24-Mar-26	< 0.2	< 0.4	< 2	< 0.2	< 0.2

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s.u.)	EC (µS/cm)	pH (s.u.)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM1-1	10-Jun-09	7.1	8,170	7.50	8,180	6,540	2,210	1,630	1,510	420	569	192	873	54	<0.1	<0.1	4.31	4.29
	8-Dec-09	6.9	7,190	7.36	7,170	5,740	2,160	1,490	1,200	474	556	187	884	43	<0.1	<0.1	3.28	3.3
	23-Jun-10	6.8	9,100	7.15	9,430	7,540	2,620	2,250	1,690	467	688	220	1,220	54	<0.1	<0.1	5.62	3.77
	29-Dec-10	7.1	9,330	7.07	11,300	9,040	3,010	2,800	1,620	425	786	254	1,400	63	<0.1	<0.1	4.91	4.88
	13-Jun-11	6.7	7,770	7.71	9,550	7,640	2,430	2,130	1,830	519	611	220	1,180	54	<0.1	<0.1	5.16	4.64
	5-Dec-11	6.8	20,800	7.49	15,200	12,200	4,280	4,090	1,840	378	1,090	378	2,050	67	<0.1	<0.1	8.16	7.26
	6-Jun-12	6.7	9,890	7.18	9,970	7,980	2,510	2,290	1,690	497	652	215	1,310	54	<0.1	<0.1	5.89	4.43
	13-Dec-12	6.9	12,500	7.39	12,300	9,840	3,310	3,044	1,700	473	857	285	1,550	74	<0.1	<0.1	7.66	6.75
	19-Jun-13	6.7	8,860	7.56	8,960	7,170	2,720	2,010	1,800	424	700	235	1,190	58	<0.1	<0.1	5.12	4.65
	4-Dec-13	7.1	6,180	7.22	7,850	6,280	2,370	1,690	1,600	392	598	214	908	51	<0.1	<0.1	4.52	4.24
	19-Jun-14	6.7	7,170	7.53	7,360	5,890	2,220	1,570	1,380	464	566	196	838	44	<0.1	<0.1	3.74	3.43
	9-Dec-14	6.8	11,400	7.42	15,000	11,400	3,800	4,400	1,700	300	990	330	1,900	83	<0.1	<0.01	7.6	7.8
	24-Jun-15	6.8	13,600	7.28	21,000	10,900	4,500	7,500	910	150	1,100	420	2,800	77	0.18	<0.01	4.3	4.7
	8-Dec-15	6.7	12,200	7.33	13,000	10,100	3,400	3,600	1,900	340	860	310	1,700	80	<0.1	<0.01	6.4	5.1
	23-Jun-16	6.8	9,560	7.41	12,000	8,080	2,800	2,800	2,100	390	690	260	1,700	73	<0.1	<0.01	6.2	5.6
	21-Dec-16	6.7	14,600	7.51	11,000	10,100	3,500	3,800	1,900	380	890	320	1,900	82	<0.1	<0.01	6.2	6.2
	20-Jun-17	7.0	9,710	7.53	9,800	6,830	2,600	2,500	1,600	390	640	230	1,200	59	<0.1	<0.01	6	4.7
	15-Dec-17	6.9	8,700	7.30	14,000	7,600	3,200	3,800	1,600	330	800	290	1,600	63	0.11	<0.01	6	6
	18-Jun-18	6.9	7,160	7.51	8,900	5,970	2,500	1,900	1,600	430	620	220	980	50	<0.1	<0.01	4.8	4.5
	10-Dec-18	6.8	10,200	7.45	12,000	7,610	3,100	3,300	1,500	350	760	280	1,400	58	<0.1	<0.01	5.2	5.1
	26-Jun-19	6.7	12,200	7.46	9,600	7,840	3,200	3,200	1,400	340	760	310	1,300	65	<0.1	<0.01	5.2	5.1
	13-Dec-19	6.6	7,140	8.01	9,100	6,280	2,700	2,400	1,600	340	680	240	1,100	55	0.14	<0.01	4.4	4.5
	17-Jun-20	6.7	11,100	7.41	25,000	14,600	6,200	7,600	1,100	230	1,500	580	3,200	100	0.46	<0.01	6.1	5.5
	15-Dec-20	6.7	8,520	7.25	9,300	6,680	2,900	2,200	1,700	370	730	260	1,000	57	<0.1	<0.01	4.8	4.7
	24-Jun-21	6.6	8,190	7.78	8,800	6,280	2,900	2,100	1,800	370	710	260	1,100	54	<0.1	<0.01	5.1	4.5
	14-Dec-21	6.8	8,338	7.32	11,000	7,920	3,300	2,700	2,000	310	830	300	1,400	69	<0.1	<0.01	5	4.8
	27-Jun-22	6.7	7,140	7.48	9,200	6,650	2,700	2,100	1,500	330	670	250	1,200	51	<0.1	<0.01	4.6	4
	20-Dec-22	6.8	8,990	7.37	8,700	6,130	2,600	1,900	1,900	350	650	240	1,100	51	<0.1	<0.01	5.2	4.2
	28-Jun-23	6.6	11,700	7.54	18,000	10,700	4,800	5,800	1,100	230	1,200	470	2,700	81	<0.1	<0.01	7	6
	19-Dec-23																	
	18-Jun-24	6.7	5,870	7.34	7,100	5,440	2,300	1,400	1,600	410	550	220	850	50	<0.1	<0.01	4	3.8

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM1-1	10-Jun-09	0.16		4.1		0.002		<0.1	2.9	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	8-Dec-09	0.01		2.4		<0.001		<0.1	2.3	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	23-Jun-10	0.02		6.9		0.001		<0.1	3.6	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	29-Dec-10	<0.01		4.4		0.002		<0.1	3.4	<0.001	<0.005	<0.01	<0.3	<0.01	0.2		<0.1
	13-Jun-11	<0.01		6.3		<0.005		<0.1	4.3	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	5-Dec-11	<0.01		5.1		0.006		0.03	3.9	<0.0001	<0.005	0.004	0.22	<0.001	0.18		<0.01
	6-Jun-12	0.01		10.8		0.01		<0.1	3.8	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	13-Dec-12	0.01		13.8		0.004		<0.1	4.3	<0.001	<0.05	<0.01	<0.3	<0.01	0.2		<0.1
	19-Jun-13	<0.01		4.8		0.006		<0.1	3.9	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	4-Dec-13	0.01		3		<0.005		<0.1	2.4	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	19-Jun-14	0.01		2.6		<0.001		<0.1	2.7	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1
	9-Dec-14	0.017		3.1		0.014		0.031	4	<0.001	<0.05	<0.01	<1.0	<0.005	0.15		<0.05
	24-Jun-15	0.032		2.3		0.015		0.031	2.5	<0.001	<0.05	<0.01	<1.0	<0.005	0.39		<0.05
	8-Dec-15	0.013		4.5		0.011		0.027	4.1	<0.0001	<0.005	<0.001	0.14	0.00088	0.15		<0.025
	23-Jun-16	0.005		4.8		0.013		0.021	4.3	<0.0001	<0.005	<0.005	<0.1	<0.0005	0.09		<0.025
	21-Dec-16	0.012		6.4		0.017		0.026	4.3	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.13		<0.025
	20-Jun-17	0.18		2.4		<0.1		0.018	3.5	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.089		<0.025
	15-Dec-17	0.006		2.3		0.025		0.02	2.9	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.12		<0.025
	18-Jun-18	0.005		3.5		<0.001		0.013	2.5	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.08		<0.025
	10-Dec-18	0.007		2.7		<0.001		0.02	2.8	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.15		0.57
	26-Jun-19	0.008		2		<0.001		0.017	2.3	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.12		<0.005
	13-Dec-19	0.005		2.1		<0.001		0.017	2.3	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.089		<0.005
	17-Jun-20	<0.04		1.8		<0.001		0.04	2.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.31		<0.025
	15-Dec-20	0.011		2.2		<0.001		0.019	2.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.088		<0.005
	24-Jun-21	0.007		2		<0.001		0.016	2.6	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.084		<0.025
	14-Dec-21	0.009		1.9		<0.001		0.022	2.6	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.1		<0.005
	27-Jun-22	0.008		1.9		0.0023		0.014	2.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.14		<0.025
	20-Dec-22	0.007		2		<0.001		0.018	2.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.077		0.027
	28-Jun-23	<0.004		1.7		<0.001		0.024	2.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.21		<0.025
	19-Dec-23																
	18-Jun-24	0.018		1.9		<0.001		0.015	2.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.069		<0.025

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM1-1 (cont'd)	18-Dec-24	6.8	9,620	7.39	9,900	5,090	1,900	2,400	1,500	260	490	170	920	37	<0.1	<0.01	3.4	2.9
	10-Jun-25	6.8	12,570	7.41	11,000	10,200	5,678	3,200	620	130	1,400	530	2,800	93	0.16	<0.01	5.6	5.3
	8-Dec-25	7.2	10,990	7.11	12,000	8,140	2,500	3,100	1,700	350	630	220	1,200	42	<0.1	<0.01	4.3	4.4
MM1-2	17-Jun-09	7.3	8,150	7.15	9,060	7,250	2,210	1,760	2,100	433	522	220	1,330	73	<0.1	<0.1	4.75	4.61
	8-Dec-09	7.0	8,630	7.31	9,460	7,570	2,040	1,970	1,890	463	498	193	1,350	66	<0.1	<0.1	5.64	5.66
	7-Jul-10	7.0	7,630	7.53	9,200	7,360	1,920	1,750	1,910	477	457	190	1,290	63	<0.1	<0.1	6.22	5.33
	30-Dec-10	7.3	11,000	7.31	9,350	7,480	1,840	1,860	1,740	441	442	178	1,230	57	<0.1	<0.1	5.28	4.35
	15-Jun-11	7.0	10,900	7.72	9,220	7,380	1,860	2,040	1,640	466	422	196	1,190	66	<0.1	<0.1	4.82	4.84
	12-Dec-11	7.3	6,310	7.34	7,930	6,340	1,690	1,450	1,870	451	417	158	1,140	59	<0.1	<0.1	4.57	4.44
	26-Jun-12	7.0	7,220	7.07	8,190	6,550	1,860	1,500	2,060	459	453	176	1,200	55	<0.1	<0.1	5.42	5.49
	19-Dec-12	7.1	6,920	6.93	7,740	6,190	1,840	1,390	2,040	450	458	168	1,160	64	<0.1	<0.1	4.81	4.13
	25-Jun-13	6.8	6,650	7.51	8,130	6,500	1,940	1,510	2,060	418	491	173	1,310	69	<0.1	<0.1	5.23	4.84
	10-Dec-13	6.9	4,470	7.31	6,110	4,890	1,300	1,050	1,390	403	317	123	909	45	<0.1	<0.1	3.63	3.91
	27-Jun-14	6.9	6,030	7.31	7,340	5,870	1,330	1,450	1,468	424	349	112	1,140	54	0.16	<0.1	3.23	3.73
	22-Dec-14	6.9	4,300	7.30	8,900	5,890	1,400	2,000	1,400	420	340	120	1,100	52	<0.1	<0.01	4.7	4.8
	24-Jun-15	8.5	5,210	7.52	7,300	4,760	1,200	1,600	1,200	420	300	110	1,100	52	<0.1	<0.01	4.6	4.5
	10-Dec-15	6.7	7,010	7.57	7,300	5,290	1,500	1,300	1,600	440	370	140	1,100	58	<0.1	<0.01	4.7	4.6
	24-Jun-16	7.0	6,370	7.44	7,800	4,880	1,600	1,500	1,800	440	410	150	1,100	58	<0.1	0.015	5.9	4.6
	22-Dec-16	7.0	8,160	7.48	8,100	5,570	1,500	1,500	1,700	440	380	140	1,100	58	<0.1	<0.01	5.3	4.9
	23-Jun-17	7.0	7,180	7.68	7,300	5,000	1,500	1,400	1,500	470	380	140	1,100	59	<0.1	<0.01	5.2	4.7
	18-Dec-17	7.8	6,300	7.56	6,900	4,060	1,300	1,300	1,300	490	320	120	990	53	<0.1	<0.01	4.6	4.4
	27-Jun-18	7.0	5,920	7.83	8,300	5,460	1,600	1,700	1,300	480	390	150	1,400	65	<0.1	<0.01	5.1	5.1
	12-Dec-18	7.0	7,940	7.59	7,700	5,280	1,700	1,500	1,600	460	410	160	1,100	62	<0.1	<0.01	4.9	4.9
	28-Jun-19	6.9	8,160	7.67	7,800	5,400	1,400	1,800	1,200	460	350	130	1,200	59	<0.1	<0.01	5.6	5.2
	18-Dec-19	6.9	5,410	7.62	6,300	4,350	1,300	1,100	1,300	470	350	120	960	52	<0.1	<0.01	4.5	4.4
	22-Jun-20	6.7	7,330	7.54	7,600	5,040	1,600	1,600	1,200	460	400	140	1,200	62	<0.1	<0.01	4.8	4.9
	23-Dec-20	7.0	8,950	7.55	9,800	5,310	1,800	2,200	1,400	470	460	170	1,600	73	<0.1	<0.01	5.5	5.7
	29-Jun-21	6.5	6,270	7.84	8,500	5,800	1,600	1,900	1,500	470	400	160	1,300	65	<0.1	<0.01	5.5	5.2
	17-Dec-21	6.9	5,506	7.64	8,000	5,110	1,700	1,400	1,700	480	440	160	1,200	64	<0.1	<0.01	4.8	5.1
	29-Jun-22	6.7	6,381	7.59	8,800	5,700	1,800	1,900	1,700	450	430	170	1,300	66	<0.1	<0.01	5.9	5.4
	21-Dec-22	7.3	7,790	7.57	7,900	5,300	1,700	1,400	1,800	450	430	160	1,200	61	<0.1	<0.01	5.8	5.1

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn	
MM1-1 (cont'd)	18-Dec-24	0.056		1.3		<0.001		0.016	1.8	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.07		<0.025	
	10-Jun-25	0.081		1.3		<0.001		0.034	3.2	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.16		<0.005	
	8-Dec-25	0.11		1.5		<0.001		0.017	1.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.19		<0.005	
MM1-2	17-Jun-09	0.04		2.5		<0.001		<0.1	<0.1	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1	
	8-Dec-09	0.04		2.4		<0.001		<0.1	5.7	<0.001	<0.005	<0.01	3.2	<0.01	0.4		<0.1	
	7-Jul-10	0.05		2.8		<0.001		<0.1	5.9	<0.001	<0.005	<0.01	0.4	<0.01	0.2		<0.1	
	30-Dec-10	0.03		3		<0.001		<0.1	5.7	<0.001	<0.005	<0.01	1.5	<0.01	0.2		<0.1	
	15-Jun-11	0.02		5		<0.001		<0.1	5.4	<0.001	<0.1	<0.01	0.7	<0.01	0.2		<0.1	
	12-Dec-11	<0.01		4.1		<0.001		<0.1	4.2	<0.001	<0.005	<0.01	1.9	<0.01	0.2		<0.1	
	26-Jun-12	0.03		4.2		<0.001		<0.1	5.3	<0.001	<0.1	<0.01	0.5	<0.01	0.2		<0.1	
	19-Dec-12	<0.01		7.9		0.008		0.03	5.7	<0.0001	0.007	0.004	0.8	<0.001	0.18		<0.01	
	25-Jun-13	0.03		3.4		<0.01		<0.1	4.8	<0.001	<0.005	<0.01	0.6	<0.01	0.2		<0.1	
	10-Dec-13	0.01		3.6		<0.001		0.02	4.1	<0.0001	<0.005	0.005	0.08	<0.001	0.17		0.02	
	27-Jun-14	0.04		2.6		<0.001		0.03	4.2	<0.0001	<0.001	<0.001	0.21	<0.001	0.16		<0.01	
	22-Dec-14	0.037		2.7		0.0043		0.028	4.4	<0.0001	<0.005	<0.001	0.34	<0.0005	0.18		<0.01	
	24-Jun-15	0.013		2		<0.001		0.029	3.8	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.17		<0.025	
	10-Dec-15	0.035		3		0.0012		0.029	4.7	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.23		<0.025	
	24-Jun-16	0.045		3.1		0.0017		0.028	4.6	<0.0001	<0.005	<0.005	0.21	<0.0005	0.18		<0.025	
	22-Dec-16	0.078		6.4		<0.001		0.033	4.9	<0.0005	<0.025	<0.005	0.82	<0.0025	0.18		<0.025	
	23-Jun-17	0.057		2.6		<0.02		0.023	5	<0.0001	<0.005	<0.001	0.21	<0.0005	0.18		<0.005	
	18-Dec-17	0.056		4.2		<0.001		0.022	4.4	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.16		<0.005	
	27-Jun-18	0.061		2.2		<0.005		0.025	4.7	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.18		<0.025	
	12-Dec-18	0.037		3.9		<0.001		0.026	4.9	<0.0001	<0.005	<0.001	0.25	<0.0005	0.22		<0.005	
	28-Jun-19	0.05		2.5		0.0022		0.026	4.8	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.16		<0.025	
	18-Dec-19	0.048		2.4		<0.005		0.023	4.1	<0.0001	<0.005	<0.001	0.37	<0.0005	0.22		<0.005	
	22-Jun-20	0.019		2.2		<0.001		0.024	4.1	<0.00009	<0.005	<0.0009	0.8	<0.0005	0.2		<0.005	
	23-Dec-20	0.064		9.2		<0.001		0.031	5.4	0.0008	<0.025	<0.0045	<0.5	<0.0025	0.19		<0.025	
	29-Jun-21	0.041		2.4		<0.001		0.028	5.1	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.18		<0.025	
	17-Dec-21	0.051		3.2		0.0015		0.025	5.7	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.15		<0.005	
	29-Jun-22	0.042		3.3		<0.001		0.026	5.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.16		<0.025	
	21-Dec-22	0.052		3.6		<0.001		0.023	5.9	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.18		<0.005	

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM1-2 (cont'd)	29-Jun-23	6.9	6,430	7.87	7,600	4,900	1,600	1,300	1,500	440	400	150	1,200	66	<0.1	<0.01	4.9	5.2
	19-Dec-23	7.4	3,999	7.32	11,000	7,170	3,100	2,400	1,700	330	780	280	1,300	61	<0.1	<0.01	5.6	5
	18-Jun-24	6.8	6,310	7.51	10,000	7,020	1,800	2,400	1,700	430	440	180	1,500	71	<0.1	0.182	6.3	6
	18-Dec-24	7.5	6,650	7.52	8,300	5,870	1,600	1,600	1,600	430	390	150	1,400	64	<0.1	<0.01	5.8	5.3
	10-Jun-25	7.0	7,100	7.41	9,100	6,250	1,874	1,900	1,800	450	470	170	1,600	71	<0.1	0.021	6.4	6.4
	8-Dec-25	7.1	8,140	7.34	8,400	5,560	2,100	1,400	1,700	390	520	190	1,300	57	<0.1	0.018	4.2	4.2
MM2-1	15-Jun-09	6.6	117,000	6.85	116,000	92,800	32,700	52,700	1,440	110	7,440	3,420	22,600	415	<0.1	<0.1	37.7	35.1
	8-Dec-09	6.8	53,200	7.28	47,800	38,200	8,770	18,000	2,570	287	1,970	934	8,110	179	<0.1	<0.1	17	16.4
	22-Jun-10	6.8	50,100	7.13	45,100	36,100	10,300	17,500	2,150	252	2,460	1,010	6,330	182	<0.1	<0.1	18.9	15.9
	30-Dec-10	7.2	22,700	7.22	26,000	20,800	4,270	7,920	2,250	262	1,053	399	4,191	105	<0.1	<0.1	10.1	9.57
	14-Jun-11	6.9	16,800	7.87	23,800	19,000	4,750	6,840	2,180	223	1,200	427	3,550	110	<0.1	<0.1	8.9	8.77
	12-Dec-11	7.1	25,100	7.27	27,100	21,700	6,040	8,830	2,070	227	1,520	546	3,670	113	<0.1	<0.1	10.3	10.3
	6-Jun-12	6.6	57,700	7.05	56,900	45,500	12,800	21,400	1,840	181	2,990	1,290	8,310	177	<0.1	<0.1	19.6	18.4
	13-Dec-12	6.8	66,100	7.25	60,900	48,700	14,200	22,700	1,950	194	3,520	1,310	9,740	228	<0.1	<0.1	22.7	20.9
	19-Jun-13	6.6	66,200	7.21	68,700	55,000	17,500	27,300	1,810	172	4,170	1,710	12,200	260	<0.1	<0.1	23.9	22.8
	4-Dec-13	6.8	56,300	6.75	89,300	71,400	21,100	40,100	1,660	139	5,290	1,920	14,200	335	<0.1	<0.1	27.4	30.7
	19-Jun-14	6.5	91,400	7.10	94,400	75,500	25,000	40,500	1,550	138	6,200	2,320	17,300	346	<0.1	<0.1	35.8	30.7
	9-Dec-14	6.4	48,400	7.02	96,000	75,100	25,000	44,000	1,500	130	5,900	2,500	17,000	340	<1.0	<0.1	30	31
	24-Jun-15	6.4	94,100	6.97	98,000	83,000	25,000	44,000	1,500	120	6,000	2,500	18,000	330	<2.0	<0.2	29	32
	10-Dec-15	6.3	88,500	6.98	95,000	82,000	28,000	44,000	1,600	120	6,600	2,700	19,000	360	<1.0	<0.1	31	31
	24-Jun-16	6.4	78,200	6.89	100,000	81,400	27,000	44,000	1,500	120	6,200	2,700	18,000	340	<1.0	<0.1	36	29
	21-Dec-16	6.4	112,000	7.00	62,000	79,000	25,000	45,000	1,500	140	6,000	2,500	17,000	340	<0.1	<0.05	31	32
	20-Jun-17	6.5	109,000	7.03	97,000	82,000	25,000	44,000	1,500	140	5,800	2,500	17,000	340	<1.0	<0.1	37	32
	15-Dec-17	6.6	105,000	6.81	100,000	75,700	24,000	46,000	1,500	130	5,500	2,400	16,000	300	<0.5	<0.05	36	34
	18-Jun-18	6.5	95,300	6.91	100,000	76,500	25,000	43,000	1,600	130	5,700	2,600	17,000	350	<1.0	<0.1	37	32
	11-Dec-18	6.7	117,000	6.88	100,000	78,900	24,000	42,000	1,600	130	5,400	2,500	16,000	350	<0.1	<0.01	31	28
	26-Jun-19	6.5	99,000	6.92	78,000	73,500	25,000	44,000	1,500	120	5,900	2,600	18,000	350	<1.0	<0.1	32	32
	16-Dec-19	6.3	95,700	6.86	96,000	78,900	24,000	45,000	1,600	130	5,500	2,500	16,000	350	<1.0	<0.1	34	34
	17-Jun-20	6.5	105,000	7.02	100,000	84,500	26,000	45,000	1,400	120	6,100	2,600	16,000	330	<0.5	<0.05	33	33
	23-Dec-20	6.5	108,000	6.93	100,000	87,200	28,000	49,000	1,400	130	6,400	2,800	18,000	450	<0.1	<0.05	38	36
	24-Jun-21	6.2	105,000	6.89	100,000	86,900	30,000	48,000	1,500	110	6,700	3,300	20,000	410	<1.0	<0.1	35	35

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	BOD	DOC	COD	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM1-2 (cont'd)	29-Jun-23	0.026		2.9		<0.001		0.025	4.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.15		0.006
	19-Dec-23	0.007		1.9		<0.001		0.019	2.6	<0.00009	<0.005	0.0015	<0.1	<0.0005	0.11		<0.005
	18-Jun-24	0.49		2.4		<0.001		0.027	4.5	<0.00009	<0.005	<0.0009	0.11	<0.0005	0.17		0.0067
	18-Dec-24	0.1		2.8		<0.001		0.02	5.3	<0.00045	<0.025	<0.0045	1.2	<0.0025	0.18		<0.025
	10-Jun-25	0.22		2.4		<0.001		0.026	4.2	<0.00009	<0.005	<0.0009	1.1	<0.0005	0.18		0.03
	8-Dec-25	0.26		3.1		<0.001		0.022	3.7	<0.00009	<0.005	<0.0009	1.1	<0.0005	0.19		0.017
MM2-1	15-Jun-09	0.11		<0.5		0.006		<1.0	6	<0.01	<0.005	<0.1	<3.0	<0.1	<1.0		<1.0
	8-Dec-09	0.01		0.9		0.007		<1.0	12	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	22-Jun-10	0.05		0.8		0.016		<0.1	7.2	<0.001	<0.005	<0.01	<0.3	<0.01	0.3		<0.1
	30-Dec-10	<0.01		1.1		0.011		<1.0	7	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	14-Jun-11	<0.01		0.7		0.008		<0.1	4.4	<0.001	<0.01	<0.01	<0.3	<0.01	0.1		<0.1
	12-Dec-11	<0.01		0.7		0.006		<0.1	3.4	<0.001	<0.005	<0.01	<0.3	<0.01	0.2		<0.1
	6-Jun-12	<0.05		0.6		0.015		<1.0	7	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	13-Dec-12	0.03		0.9		<0.01		<0.1	5.6	<0.001	<0.005	0.01	<0.3	<0.01	0.4		<0.1
	19-Jun-13	0.02		0.8		0.01		<1.0	72	<0.01	<0.1	0.1	<3.0	<0.1	4		<1.0
	4-Dec-13	<0.01		<0.5		<0.005		<1.0	6	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	19-Jun-14	0.2		<0.5		0.014		<1.0	8	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0
	9-Dec-14	<0.08		1.3		0.059		<0.1	6.6	<0.005	<0.25	<0.1	<5.0	<0.025	0.56		<0.25
	24-Jun-15	<0.04		1		0.025		<0.1	6.2	<0.005	<0.25	<0.05	<5.0	<0.025	0.66		<0.25
	10-Dec-15	<0.04		1.3		0.017		<0.1	8.5	<0.005	<0.25	<0.05	<5.0	<0.025	0.66		<0.25
	24-Jun-16	<0.04		1.8		0.024		<0.1	6.4	<0.005	<0.25	<0.1	<5.0	<0.025	0.64		<0.25
	21-Dec-16	0.05		1.3		0.03		<0.1	6.9	<0.005	<0.25	<0.1	<5.0	<0.025	0.6		<0.25
	20-Jun-17	<0.2		1.4		<0.1		<0.1	7.5	<0.005	<0.25	<0.05	<5.0	<0.025	0.64		<0.25
	15-Dec-17	<0.08		1.6		0.032		<0.1	6.3	<0.005	<0.25	<0.05	<5.0	<0.025	0.57		<0.25
	18-Jun-18	0.1		2		<0.002		0.057	6.5	<0.001	<0.05	<0.01	<1.0	<0.005	0.59		<0.05
	11-Dec-18	<0.2		1.8		<0.02		0.056	5.8	<0.001	<0.05	<0.01	<1.0	<0.005	0.58		<0.05
	26-Jun-19	0.17		1.3		<0.002		<0.1	6.8	<0.005	<0.25	<0.05	<5.0	<0.025	0.58		<0.25
	16-Dec-19	0.14		1.4		0.0056		0.057	7.5	<0.001	<0.05	<0.01	<1.0	<0.005	0.58		<0.05
	17-Jun-20	<0.04		1.4		<0.002		<0.1	6.7	<0.0045	<0.25	<0.045	<5.0	<0.025	0.58		<0.25
	23-Dec-20	0.1		1.3		<0.005		0.067	7.3	<0.0009	<0.05	<0.009	<1.0	<0.005	0.7		<0.05
	24-Jun-21	0.04		1.3		0.022		0.068	6.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.7		<0.05

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM2-1 (cont'd)	16-Dec-21	6.4	104,014	6.83	100,000	90,000	33,000	52,000	1,400	120	7,700	3,300	20,000	440	<1.0	<0.1	42	37
	27-Jun-22	6.3	99,573	6.85	100,000	87,500	33,000	56,000	1,400	120	7,800	3,400	21,000	390	<0.5	<0.05	46	37
	20-Dec-22	6.3	120,000	6.76	100,000	81,100	33,000	49,000	1,400	120	7,800	3,300	21,000	430	<1.0	<0.1	50	40
	28-Jun-23	6.1	120,000	6.88	100,000	99,900	33,000	47,000	1,300	100	7,700	3,400	21,000	400	<1.0	<0.1	45	41
	20-Dec-23	6.6	3,999	6.82	100,000	95,000	36,000	51,000	1,300	99	8,200	3,700	22,000	430	<0.5	<0.05	44	41
	18-Jun-24	6.4		6.71		92,800	30,000	58,000	1,500	110	6,900	3,200	20,000	380	<1.0	<0.1	43	39
	18-Dec-24	6.3		6.75		101,000	35,000	51,000	1,300	100	8,500	3,400	21,000	400	<1.0	<0.1	48	40
	10-Jun-25	6.3	120,400	6.73		95,600	34,227	51,000	1,500	110	8,100	3,400	21,000	390	<0.5	0.081	45	38
	8-Dec-25	6.5		6.82		119,000	39,000	52,000	1,300	98	9,300	3,900	24,000	460	<1.0	<0.1	43	35
	15-Jun-09	7.9	4,550	7.61	4,330	3,460	1,530	669	1,120	226	406	125	419	29	<0.1	<0.1	0.34	0.11
MM2-2	8-Dec-09	7.4	4,530	7.41	4,230	3,380	1,210	610	1,030	315	319	101	450	31	<0.1	<0.1	1.32	1.08
	22-Jun-10	7.2	3,900	7.36	4,070	3,260	1,750	490	1,360	347	459	146	318	25	0.1	<0.1	1.65	0.87
	30-Dec-10	7.5	4,090	7.35	4,590	3,670	1,920	584	1,680	247	550	133	345	25	<0.1	<0.1	<0.5	0.33
	14-Jun-11	7.0	3,580	7.99	4,170	3,340	1,850	447	1,450	293	497	148	298	24	<0.1	<0.1	13.7	0.65
	12-Dec-11	7.2	4,280	7.36	4,630	3,700	1,950	574	1,630	321	530	151	344	25	<0.1	<0.1	1	0.78
	6-Jun-12	7.2	4,680	7.41	4,560	3,650	1,810	591	1,500	377	488	144	342	21	0.18	<0.1	1.08	0.8
	13-Dec-12	7.3	5,210	7.53	5,020	4,020	2,050	719	1,610	378	568	153	408	24	<0.1	<0.1	1.07	0.8
	19-Jun-13	7.1	4,550	7.65	4,390	3,510	2,000	494	1,640	286	547	155	372	28	0.24	<0.1	1	1.04
	4-Dec-13	7.5	4,250	7.34	5,060	4,050	2,180	662	1,720	317	562	188	406	30	0.13	<0.1	1.52	1.12
	19-Jun-14	7.0	4,880	7.74	5,010	4,010	1,980	664	1,650	335	543	151	457	31	<0.1	<0.1	1.27	1.18
	9-Dec-14	7.1	4,750	7.59	5,200	4,250	2,100	750	1,600	330	580	160	420	25	0.2	<0.01	1.2	1.1
	24-Jun-15	7.0	4,800	7.60	5,200	4,130	2,000	750	1,600	330	580	140	380	22	<0.1	<0.01	1.2	1
	10-Dec-15	6.8	5,040	7.67	5,400	4,180	2,300	810	1,600	340	630	170	470	27	<0.1	<0.01	1.4	1.1
	24-Jun-16	6.9	4,400	7.62	5,300	4,010	2,000	760	1,400	370	520	160	410	22	<0.1	<0.01	1.5	0.84
	21-Dec-16	7.3	6,110	7.67	5,000	4,020	2,300	900	1,600	350	630	170	480	25	0.11	<0.01	0.98	1.1
	20-Jun-17	7.4	4,400	7.75	4,300	3,410	1,800	490	1,500	310	480	150	330	27	<0.1	<0.01	2.1	1.2
	18-Dec-17	7.6	5,770	7.48	6,000	4,040	2,100	950	1,600	340	560	170	520	32	<0.1	<0.01	2.1	1.8
	18-Jun-18	7.1	4,420	7.60	5,000	3,900	1,800	640	1,500	340	460	170	420	32	<0.1	<0.01	1.6	1.4
	11-Dec-18	7.0	6,230	7.57	6,100	4,510	2,000	1,000	1,500	350	520	180	540	37	<0.1	<0.01	1.9	1.9
	26-Jun-19	7.0	6,090	7.56	5,900	4,940	2,300	1,300	1,500	330	600	190	730	39	<0.1	<0.01	2.4	2.5
	16-Dec-19	7.0	4,660	7.25	5,200	3,950	2,000	880	1,400	350	530	160	480	31	<0.1	<0.01	1.9	1.7

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM2-1 (cont'd)	16-Dec-21	0.03		1.1		0.01		0.075	6.3	<0.0009	<0.05	<0.009	<1.0	<0.005	0.76		<0.05
	27-Jun-22	<0.04		1.6		0.058		<0.1	7.4	<0.0045	<0.25	<0.045	<5.0	<0.025	0.75		<0.25
	20-Dec-22	0.039		1.4		0.001		0.073	5.6	<0.0009	<0.05	<0.009	<1.0	<0.005	0.75		<0.05
	28-Jun-23	0.021		1.6		0.0018		<0.1	6.5	<0.0045	<0.25	<0.045	<5.0	<0.025	0.71		<0.25
	20-Dec-23	0.12		1.2		0.0015		0.076	5.8	<0.0009	<0.05	<0.009	<1.0	<0.005	0.79		<0.05
	18-Jun-24	0.032		1.2		<0.001		<0.1	6.6	<0.0045	<0.25	<0.045	<5.0	<0.025	0.71		<0.25
	18-Dec-24	0.093		1.2		<0.001		<0.1	7.5	<0.0045	<0.25	<0.045	<5.0	<0.025	0.78		<0.25
	10-Jun-25	0.069		1.4		0.0063		<0.1	7.2	<0.0045	<0.25	<0.045	<5.0	<0.025	0.78		<0.25
	8-Dec-25	0.048		0.94		<0.005		0.088	5.6	<0.0009	<0.05	<0.009	<1.0	<0.005	0.91		<0.05
	15-Jun-09	<0.01		3.3		<0.001		<0.1	0.7	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1
	8-Dec-09	0.02		4.1		<0.001		<0.1	1.4	<0.001	<0.005	<0.01	2.8	<0.01	0.2		<0.1
MM2-2	22-Jun-10	0.01		2.8		<0.001		0.03	0.66	<0.0001	<0.005	0.002	2	<0.001	0.14		<0.01
	30-Dec-10	<0.01		1.7		<0.001		0.03	0.95	<0.0001	0.009	0.003	0.39	<0.001	0.11		<0.01
	14-Jun-11	<0.01		2.2		<0.001		0.02	0.79	<0.0001	0.004	0.003	1.45	<0.001	0.2		<0.01
	12-Dec-11	<0.01		1.7		<0.001		0.03	0.9	<0.0001	0.003	0.003	2.92	<0.001	0.25		<0.01
	6-Jun-12	<0.01		2.4		<0.001		0.03	1.1	<0.0001	<0.005	0.004	3.08	<0.001	0.18		<0.01
	13-Dec-12	<0.01		2.4		<0.001		0.03	1.1	<0.0001	0.009	0.003	2.51	<0.001	0.16		<0.01
	19-Jun-13	<0.01		2.6		<0.001		0.02	1.4	<0.0001	0.007	0.003	1.58	<0.001	0.13		<0.01
	4-Dec-13	0.01		2.1		<0.005		<0.1	1.2	<0.001	<0.01	<0.01	1.8	<0.01	0.2		<0.1
	19-Jun-14	<0.01		1.9		<0.001		<0.1	1.7	<0.001	<0.01	<0.01	2.3	<0.01	0.2		<0.1
	9-Dec-14	0.007		1.7		<0.001		0.025	1.3	<0.0001	<0.005	<0.001	3.1	<0.0005	0.13		<0.01
	24-Jun-15	0.011		1.2		<0.001		0.025	1.1	<0.0001	<0.005	<0.002	2.8	<0.0005	0.13		<0.01
	10-Dec-15	0.006		1.4		<0.001		0.027	1.3	<0.0001	<0.005	<0.002	3.5	<0.0005	0.14		<0.01
	24-Jun-16	0.006		1.8		<0.001		0.023	1.1	<0.0001	<0.005	<0.002	1.9	<0.0005	0.086		<0.01
	21-Dec-16	0.007		1.6		<0.001		0.029	1.3	<0.0001	<0.005	<0.001	2.8	<0.0005	0.11		<0.01
	20-Jun-17	0.006		1.5		<0.001		0.021	1.2	<0.0001	<0.005	<0.001	1.8	<0.0005	0.098		<0.005
	18-Dec-17	0.008		1.6		<0.001		0.029	1.6	<0.0001	<0.005	<0.001	2.5	<0.0005	0.11		<0.005
	18-Jun-18	0.008		2		<0.001		0.024	1.2	<0.0001	<0.005	<0.001	1.8	<0.0005	0.14		<0.005
	11-Dec-18	0.009		2.3		<0.001		0.03	1.6	<0.0001	<0.005	<0.001	2.6	<0.0005	0.12		<0.005
	26-Jun-19	0.011		1.8		<0.001		0.03	1.7	<0.0001	<0.005	<0.001	2.8	<0.0005	0.11		<0.005
	16-Dec-19	0.009		2		<0.001		0.023	1.4	<0.0001	<0.005	<0.001	2.4	<0.0005	0.095		<0.005

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM2-2 (cont'd)	17-Jun-20	6.9	6,280	7.75	6,400	4,430	2,200	1,200	1,300	340	550	190	590	40	<0.1	<0.01	2.3	2.1
	23-Dec-20	7.1	6,070	7.61	6,200	4,250	2,200	1,100	1,400	330	580	200	620	40	<0.1	<0.01	2.4	2.1
	24-Jun-21	6.9	6,330	7.74	6,700	4,670	2,500	1,400	1,500	320	660	210	750	40	<0.1	<0.01	2.8	2.2
	16-Dec-21	7.1	5,637	7.40	6,900	5,080	2,400	1,300	1,500	330	610	200	660	38	<0.1	<0.01	2.8	2.1
	27-Jun-22	7.1	5,133	7.58	6,500	4,550	2,400	1,200	1,500	330	630	190	680	37	<0.1	<0.01	2.9	2.2
	20-Dec-22	7.0	5,780	7.47	5,900	3,790	2,200	1,100	1,400	370	580	180	530	27	<0.1	<0.01	1.9	1.5
	28-Jun-23	7.1	4,770	7.72	5,600	4,250	2,300	850	1,300	340	600	190	550	31	<0.1	<0.01	2	1.7
	20-Dec-23	7.3	3,999	7.45	6,000	4,210	2,200	990	1,300	360	600	180	530	26	0.11	<0.01	2.1	1.5
	18-Jun-24	7.0	5,030	7.45	6,100	4,710	2,300	1,200	1,300	370	570	210	560	29	<0.1	<0.01	1.7	1.4
	18-Dec-24	7.1	5,690	7.56	6,300	4,770	2,200	1,200	1,400	380	580	180	610	26	0.13	<0.01	1.8	1.4
	10-Jun-25	7.1	5,180	7.43	5,500	4,690	2,073	990	1,400	370	550	170	470	26	<0.1	<0.01	1.4	1.1
	8-Dec-25	7.1	6,260	7.58	6,900	4,810	2,400	1,300	1,300	390	650	200	670	26	<0.1	<0.01	1.5	1.2
MM3-1	10-Jun-09	6.6	132,000	6.83	127,000	102,000	31,400	57,800	1,360	106	7,070	3,350	19,800	374	<0.1	<0.1	40.3	40.9
	8-Dec-09	6.6	79,900	7.10	71,400	57,100	13,000	27,200	2,180	214	2,930	1,380	12,100	233	<0.1	<0.1	26.9	25.6
	23-Jun-10	6.7	63,200	7.06	55,500	44,400	11,500	21,800	2,050	216	2,490	1,280	10,200	225	<0.1	<0.1	22.9	22.4
	30-Dec-10	6.9	44,200	7.09	54,600	43,700	12,000	21,900	1,920	216	2,720	1,260	10,200	218	<0.1	<0.1	22.9	19.3
	14-Jun-11	6.6	33,400	7.63	44,300	35,400	7,530	15,000	2,130	224	1,700	798	6,200	135	<0.1	<0.1	15.5	13.8
	12-Dec-11	6.8	49,000	7.28	52,800	42,200	11,500	18,600	2,010	211	2,420	1,330	8,480	226	<0.1	<0.1	17.8	17.6
	6-Jun-12	6.5	87,100	7.00	87,600	70,100	20,600	38,700	1,800	154	4,680	2,160	16,000	276	<0.1	<0.1	28.9	28.9
	13-Dec-12	6.6	109,000	7.08	102,000	81,600	25,700	42,860	1,720	141	6,230	2,470	18,200	356	<0.1	<0.1	30.6	32.2
	19-Jun-13	6.4	107,000	7.07	113,000	90,400	33,300	52,500	1,550	111	7,680	3,440	21,700	391	<0.1	<0.1	35.2	36.4
	4-Dec-13	6.6	71,400	6.74	111,000	88,800	28,900	53,900	1,530	116	6,420	3,130	18,600	477	<0.1	<0.1	36.4	36.4
	19-Jun-14	6.5	111,000	7.06	112,000	89,600	31,000	51,100	1,440	125	7,330	3,080	20,600	367	<0.1	<0.1	36.9	34.6
	10-Dec-14	6.4	57,200	6.98	110,000	88,800	29,000	52,000	1,500	130	6,800	2,900	21,000	370	<0.5	<0.05	32	34
	24-Jun-15	6.4	108,000	6.93	110,000	93,200	28,000	54,000	1,500	130	6,700	2,800	21,000	360	<2.0	<0.2	30	35
	8-Dec-15	6.3	103,000	6.83	100,000	92,800	28,000	52,000	1,500	120	6,600	2,800	20,000	360	<0.1	<0.05	30	32
	24-Jun-16	6.4	87,400	6.96	110,000	91,400	29,000	49,000	1,500	130	6,900	2,900	20,000	350	<1.0	<0.1	38	30
	21-Dec-16	6.4	131,000	6.98	69,000	88,100	29,000	54,000	1,400	120	6,800	3,000	21,000	360	<0.1	<0.05	35	35
	20-Jun-17	6.5	126,000	6.98	110,000	91,000	29,000	54,000	1,500	120	6,800	3,000	21,000	370	<0.1	<0.01	38	35
	18-Dec-17	6.7	103,000	6.85	100,000	95,000	30,000	53,000	1,400	130	6,900	3,000	21,000	370	<0.1	0.035	38	36
	18-Jun-18	6.4	110,000	6.97	100,000	94,700	29,000	50,000	1,400	130	6,700	3,100	20,000	380	<0.1	0.037	40	35

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn	
MM2-2 (cont'd)	17-Jun-20	<0.04		1.9		<0.001		0.032	1.8	<0.00009	<0.005	<0.0009	2.6	<0.0005	0.11		<0.005	
	23-Dec-20	0.015		1.7		<0.001		0.03	1.8	<0.00009	<0.005	0.0012	2.7	<0.0005	0.12		<0.005	
	24-Jun-21	0.01		1.8		<0.001		0.032	1.6	<0.00009	<0.005	<0.0009	3	<0.0005	0.14		<0.005	
	16-Dec-21	0.011		1.9		<0.001		0.032	2	<0.00009	<0.005	<0.0009	3.1	<0.0005	0.14		0.0058	
	27-Jun-22	0.012		2.1		<0.001		0.03	1.7	<0.00009	<0.005	<0.0009	3.2	<0.0005	0.12		0.02	
	20-Dec-22	0.014		2		<0.001		0.024	1.1	<0.00009	<0.005	<0.0009	2.9	<0.0005	0.077		<0.005	
	28-Jun-23	0.007		2.1		<0.001		0.024	1.3	<0.00009	<0.005	<0.0009	2.9	<0.0005	0.093		<0.005	
	20-Dec-23	0.016		1.9		<0.001		0.024	1.1	<0.00009	<0.005	<0.0009	2.7	<0.0005	0.085		0.0051	
	18-Jun-24	0.017		1.6		<0.001		0.026	1	<0.00009	<0.005	<0.0009	3	<0.0005	0.084		<0.005	
	18-Dec-24	0.044		2		<0.001		0.032	1.2	<0.00045	<0.025	<0.0045	2.7	<0.0025	0.094		<0.025	
	10-Jun-25	0.035		1.9		<0.001		0.027	0.98	<0.00009	<0.005	<0.0009	2.4	<0.0005	0.084		<0.005	
	8-Dec-25	0.069		1.7		<0.001		0.03	1.1	<0.00009	<0.005	<0.0009	3.1	<0.0005	0.081		<0.005	
MM3-1	10-Jun-09	<0.01		0.5		0.016		<1.0	8	<0.01	<0.005	<0.1	<3.0	<0.1	<1.0		<1.0	
	8-Dec-09	0.04		0.7		<0.001		<1.0	11	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0	
	23-Jun-10	<0.05		<0.5		0.009		<1.0	10	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0	
	30-Dec-10	<0.01		0.7		0.013		<1.0	10	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0	
	14-Jun-11	0.11		0.6		0.01		<0.1	6.5	<0.001	<0.01	<0.01	0.9	<0.01	0.2		<0.1	
	12-Dec-11	0.02		0.6		0.017		<0.1	5.7	<0.001	<0.005	0.01	0.7	<0.01	0.3		<0.1	
	6-Jun-12	<0.05		<0.5		0.014		<0.1	6.2	<0.001	<0.005	0.02	0.5	<0.01	0.5		<0.1	
	13-Dec-12	<0.05		0.5		<0.01		<1.0	8	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0	
	19-Jun-13	<0.05		0.6		<0.001		<1.0	71	<0.01	<0.005	0.2	8	<0.1	7		<1.0	
	4-Dec-13	<0.01		<0.5		<0.005		<1.0	6	<0.01	<0.1	<0.1	<3.0	<0.1	<1.0		<1.0	
	19-Jun-14	<0.05		<0.5		0.012		<1.0	9	<0.01	<0.1	<0.1	3	<0.1	<1.0		<1.0	
	10-Dec-14	0.13		1.2		0.067		<0.1	7.9	<0.005	<0.25	<0.1	<5.0	<0.025	0.68		<0.25	
	24-Jun-15	<0.04		1		0.025		<0.1	8.2	<0.005	<0.25	<0.05	<5.0	<0.025	0.75		<0.25	
	8-Dec-15	<0.04		1.3		0.02		<0.2	7.6	<0.01	<0.5	<0.1	<10.0	<0.05	0.63		<0.5	
	24-Jun-16	<0.04		1.5		0.03		<0.1	7.1	<0.005	<0.25	<0.1	<5.0	<0.025	0.64		<0.25	
	21-Dec-16	<0.04		1.4		0.031		<0.1	7.2	<0.005	<0.25	<0.1	<5.0	<0.025	0.67		<0.25	
	20-Jun-17	0.6		1.3		<0.1		0.064	7.6	<0.001	<0.05	<0.01	<1.0	<0.005	0.62		<0.05	
	18-Dec-17	<0.08		1.1		0.012		0.058	7.4	<0.001	<0.05	<0.01	<1.0	<0.005	0.61		<0.05	
18-Jun-18	<0.04		2		0.0038		0.054	6.6	<0.001	<0.05	<0.01	<1.0	<0.005	0.61		<0.05		

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM3-1 (cont'd)	10-Dec-18	6.5	131,000	6.95	100,000	94,300	28,000	52,000	1,400	130	6,200	3,000	19,000	330	<1.0	<0.1	35	35
	27-Jun-19	6.5	116,000	7.04	93,000	96,700	29,000	52,000	1,300	120	6,800	3,000	20,000	350	<2.0	<0.2	41	34
	16-Dec-19	6.2	112,000	6.85	110,000	94,000	29,000	54,000	1,500	130	6,600	3,000	19,000	380	<1.0	<0.1	38	37
	17-Jun-20	6.4	119,000	6.93	100,000	96,800	29,000	52,000	1,400	130	6,600	3,000	19,000	340	<0.5	<0.05	34	35
	23-Dec-20	6.5	118,000	6.88	100,000	99,000	32,000	55,000	1,500	130	7,400	3,300	21,000	470	<0.1	<0.05	38	36
	24-Jun-21	6.2	114,000	7.00	100,000	82,900	34,000	51,000	1,500	120	7,500	3,700	23,000	410	<1.0	<0.1	38	36
	16-Dec-21	6.4	122,367	6.76	100,000	95,600	34,000	55,000	1,400	120	8,000	3,500	22,000	420	<1.0	<0.1	43	36
	27-Jun-22	6.2	86,865	6.87	100,000	86,500	33,000	55,000	1,300	130	7,500	3,400	22,000	360	<0.1	0.038	57	36
	20-Dec-22	6.2	130,000	6.79	100,000	85,400	33,000	51,000	1,400	120	7,600	3,400	22,000	380	<1.0	<0.1	42	38
	28-Jun-23	6.1	122,000	7.00	100,000	99,100	34,000	50,000	1,400	110	7,700	3,600	22,000	390	<1.0	<0.1	43	39
	20-Dec-23	6.6	3,999	6.68	100,000	95,300	36,000	53,000	1,400	100	8,200	3,800	24,000	420	<0.5	<0.05	44	38
	18-Jun-24	6.3		6.93		99,600	33,000	56,000	1,500	120	7,400	3,500	22,000	380	<1.0	<0.1	42	39
	18-Dec-24	6.3		6.79		108,000	36,000	54,000	1,300	100	8,500	3,600	22,000	390	<1.0	<0.1	40	39
MM3-2	10-Jun-09	7.1	4,220	7.55	4,250	3,400	1,520	611	1,340	278	349	157	432	25	<0.1	<0.1	0.91	0.88
	8-Dec-09	7.2	4,170	7.43	4,120	3,300	1,060	580	977	325	269	95	418	31	<0.1	<0.1	1.31	1.15
	23-Jun-10	7.0	5,480	7.32	5,740	4,590	2,210	1,110	1,290	408	541	208	543	23	<0.1	<0.1	2.19	1.25
	30-Dec-10	7.3	4,330	7.31	4,820	3,860	1,960	655	1,490	352	536	150	336	18	<0.1	<0.1	0.93	0.83
	14-Jun-11	7.1	4,230	8.02	4,930	3,940	2,110	706	1,450	336	573	164	414	22	<0.1	<0.1	0.87	0.92
	12-Dec-11	7.2	4,110	7.49	4,770	3,820	1,820	713	1,340	388	475	153	357	18	<0.1	<0.1	1.07	0.88
	6-Jun-12	7.3	4,800	7.43	4,690	3,750	1,760	699	1,300	410	474	140	341	15	<0.1	<0.1	1.21	0.82
	13-Dec-12	7.3	5,500	7.67	5,080	4,060	2,030	808	1,420	398	554	157	398	20	<0.1	<0.1	0.93	0.86
	19-Jun-13	7.1	5,000	7.74	4,800	3,840	2,080	671	1,540	374	583	151	391	19	<0.1	<0.1	0.97	0.95
	4-Dec-13	7.5	5,040	7.39	5,780	4,620	2,340	1,060	1,600	341	622	190	516	24	<0.1	<0.1	1.36	1.12
	19-Jun-14	7.3	4,870	7.75	4,900	3,920	2,160	684	1,590	350	626	146	382	20	<0.1	<0.1	1.01	1.01
	10-Dec-14	7.2	5,210	7.68	5,300	4,210	2,200	790	1,500	360	610	160	440	21	<0.1	<0.01	1.3	1.1
	24-Jun-15	7.0	4,780	7.61	5,100	4,250	2,000	760	1,500	350	560	140	370	19	<0.1	<0.01	1.1	1.1
	8-Dec-15	6.8	4,820	7.53	5,800	4,180	2,300	1,000	1,500	340	620	170	510	23	<0.1	<0.01	1.7	1.2
	24-Jun-16	7.0	5,090	7.65	6,200	4,470	2,200	1,000	1,300	380	580	180	520	22	<0.1	<0.01	1.6	1.1
	21-Dec-16	7.3	6,430	7.92	5,100	4,480	2,300	1,000	1,500	360	630	180	500	23	<0.1	<0.01	1	1.2
	20-Jun-17	7.3	5,910	7.70	5,700	4,350	2,200	960	1,400	350	570	180	510	22	<0.1	<0.01	2	1.2
	18-Dec-17	7.4	5,990	7.55	6,700	4,260	2,200	1,300	1,400	380	580	180	570	22	<0.1	<0.01	1.7	1.5

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM3-1 (cont'd)	10-Dec-18	0.12		2		<0.01		<0.1	6.8	<0.005	<0.25	<0.05	<5.0	<0.025	0.62		<0.25
	27-Jun-19	0.06		1.1		0.019		<0.1	8.2	<0.005	<0.25	<0.05	<5.0	<0.025	0.61		<0.25
	16-Dec-19	0.17		1.2		<0.01		0.054	7	<0.001	<0.05	<0.01	<1.0	<0.005	0.62		<0.05
	17-Jun-20	<0.04		1.2		<0.002		<0.1	5.8	<0.0045	<0.25	<0.045	<5.0	<0.025	0.6		<0.25
	23-Dec-20	0.1		1.1		<0.005		0.06	6.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.68		<0.05
	24-Jun-21	0.05		1.2		0.023		0.058	6.3	<0.0009	<0.05	<0.009	<1.0	<0.005	0.67		<0.05
	16-Dec-21	0.04		1		0.01		0.06	6.1	<0.0009	<0.05	<0.009	<1.0	<0.005	0.7		<0.05
	27-Jun-22	0.05		1.4		0.051		<0.1	6.6	<0.0045	<0.25	<0.045	<5.0	<0.025	0.69		<0.25
	20-Dec-22	0.042		1.6		0.0015		0.062	4.9	<0.0009	<0.05	<0.009	<1.0	<0.005	0.63		<0.05
	28-Jun-23	0.014		1.1		0.0023		<0.1	6.4	<0.0045	<0.25	<0.045	<5.0	<0.025	0.65		<0.25
	20-Dec-23	0.053		1.2		0.0015		0.066	5.7	<0.0009	<0.05	<0.009	<1.0	<0.005	0.72		<0.05
	18-Jun-24	0.08		1.1		<0.001		<0.1	6.2	<0.0045	<0.25	<0.045	<5.0	<0.025	0.65		<0.25
	18-Dec-24	0.16		1.1		<0.001		<0.1	6.8	<0.0045	<0.25	<0.045	<5.0	<0.025	0.77		<0.25
MM3-2	10-Jun-09	0.61		3		<0.001		0.02	0.78	<0.0001	<0.005	0.003	0.5	<0.001	0.12		<0.01
	8-Dec-09	<0.01		3.5		<0.001		<0.1	1.6	<0.001	<0.01	<0.01	1.9	<0.01	0.2		<0.1
	23-Jun-10	<0.01		2.3		0.001		<0.1	1	<0.001	<0.005	<0.01	1.7	<0.01	0.1		<0.1
	30-Dec-10	<0.01		2.6		<0.001		0.03	0.86	<0.0001	<0.005	0.003	2.88	<0.001	0.12		<0.01
	14-Jun-11	<0.01		1.7		<0.001		0.03	0.8	<0.0001	0.005	0.003	1.79	<0.001	0.1		<0.01
	12-Dec-11	<0.01		2		<0.001		0.03	0.8	<0.0001	0.003	0.003	1.05	<0.001	0.1		<0.01
	6-Jun-12	<0.01		2.3		<0.001		0.03	0.84	<0.0001	<0.005	0.004	0.71	<0.001	0.09		<0.01
	13-Dec-12	<0.01		2.4		<0.001		0.03	0.86	<0.0001	0.01	0.003	0.36	<0.001	0.09		<0.01
	19-Jun-13	<0.01		2.2		<0.001		0.02	1.2	<0.0001	<0.005	0.004	0.5	<0.001	0.08		<0.01
	4-Dec-13	<0.01		1.8		<0.005		<0.1	1	<0.001	<0.01	<0.01	0.5	<0.01	<0.1		<0.1
	19-Jun-14	<0.01		1.7		<0.001		<0.1	1.2	<0.001	<0.01	<0.01	0.5	<0.01	<0.1		<0.1
	10-Dec-14	0.005		1.4		<0.001		0.027	1.1	<0.0001	<0.005	<0.002	0.33	<0.0005	0.072		<0.01
	24-Jun-15	0.008		1.3		<0.001		0.028	0.98	<0.0001	<0.005	<0.002	0.36	<0.0005	0.076		<0.01
	8-Dec-15	<0.004		1.7		<0.001		0.032	1.2	<0.0001	<0.005	<0.001	0.34	<0.0005	0.082		<0.01
	24-Jun-16	<0.004		1.7		0.0012		0.031	1	<0.0001	<0.005	<0.002	0.23	<0.0005	0.08		<0.01
	21-Dec-16	0.007		1.7		0.0012		0.035	1.2	<0.0001	<0.005	<0.001	0.17	<0.0005	0.078		<0.01
	20-Jun-17	<0.004		1.7		<0.001		0.03	1.2	<0.0001	<0.005	<0.001	0.69	<0.0005	0.07		<0.005
	18-Dec-17	<0.004		1.6		0.0024		0.028	1.1	<0.0001	<0.005	<0.001	0.41	<0.0005	0.067		<0.005

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s.u.)	EC (µS/cm)	pH (s.u.)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM3-2 (cont'd)	18-Jun-18	7.3	7,390	7.63	8,500	5,910	2,600	1,900	1,400	360	660	230	790	26	<0.1	<0.01	2	1.9
	10-Dec-18	7.1	5,010	7.63	5,100	3,800	2,000	770	1,400	370	530	150	400	20	<0.1	<0.01	1.3	1.2
	27-Jun-19	7.2	4,340	7.80	4,300	3,670	1,900	660	1,300	350	510	140	390	19	<0.1	<0.01	1.4	1.3
	16-Dec-19	7.1	4,310	7.60	4,500	3,420	1,800	670	1,300	360	480	140	370	20	<0.1	<0.01	1.3	1.1
	17-Jun-20	7.0	5,380	7.79	5,400	3,980	2,100	910	1,200	360	540	180	510	24	<0.1	<0.01	<1.0	1.2
	23-Dec-20	7.1	5,600	7.66	5,700	4,300	2,200	1,100	1,300	360	550	210	520	26	<0.1	<0.01	1.6	1.3
	24-Jun-21	7.1	4,720	7.89	4,900	3,700	1,900	870	1,300	350	500	160	450	20	<0.1	<0.01	1.4	1
	16-Dec-21	7.2	3,901	7.51	4,800	3,310	1,900	730	1,300	350	510	160	410	21	<0.1	<0.01	1.6	1.1
	27-Jun-22	7.3	3,727	7.59	5,200	3,900	2,100	920	1,300	350	570	170	480	21	<0.1	<0.01	1.6	1.1
	20-Dec-22	7.3	4,930	7.56	5,200	3,430	2,100	820	1,300	360	560	160	430	19	<0.1	<0.01	1.9	1.2
	28-Jun-23	7.1	4,930	7.72	5,600	4,130	2,300	910	1,300	350	620	190	550	23	<0.1	<0.01	1.6	1.3
	20-Dec-23	7.6	3,999	7.51	5,300	3,800	1,900	800	1,200	360	500	160	450	20	<0.1	<0.01	1.8	1.3
	18-Jun-24	7.0	4,880	7.53	5,700	4,370	2,200	1,000	1,300	370	570	180	530	21	<0.1	<0.01	1.7	1.3
	18-Dec-24	7.2	5,110	7.60	5,500	3,930	2,000	950	1,300	380	540	160	530	21	<0.1	<0.01	1.4	1.2
	10-Jun-25	7.4	5,110	7.59	5,500	4,230	1,957	1,100	1,100	370	520	160	530	21	<0.1	<0.01	1.4	1.2
	8-Dec-25	7.2	6,280	7.50	6,100	4,520	2,200	1,100	1,200	370	580	180	590	22	<0.1	<0.01	1.3	1.1
MM4-1	19-Mar-09	7.7	7,570	7.47	6,950	5,560	1,410	1,150	1,790	338	367	119	1,040	65	0.55	0.18	10.2	8.36
	10-Jun-09	7.3	8,830	7.42	8,530	6,820	1,690	1,690	1,990	350	431	148	1,240	70	0.14	<0.1	6.54	6.19
	21-Sep-09	7.2	11,700	7.35	11,300	9,040	2,390	2,480	2,110	329	615	208	1,580	75	0.16	0.12	9.22	9.06
	8-Dec-09	7.0	11,500	7.40	11,600	9,280	2,320	2,500	2,070	326	615	191	1,670	77	0.52	0.15	9.3	9.03
	8-Mar-10	6.8	13,600	7.12	13,800	11,000	2,980	3,560	2,230	302	778	252	1,940	93	0.86	0.33	11.6	9.52
	22-Jun-10																	
	17-Sep-10																	
	28-Dec-10																	
	28-Mar-11	7.4	8,750	7.27	11,200	8,960	2,310	2,720	2,100	347	591	203	1,810	83	0.9	<0.1	8.92	8.94
	13-Jun-11	6.8	8,700	7.74	11,200	8,960	2,330	2,460	2,010	390	582	214	1,640	76	1.81	<0.1	10.9	9.64
	15-Sep-11	7.0		7.79	14,600	11,700	2,820	3,530	2,340	369	747	233	2,260	88	1.68	<0.1	11.8	10.7
	12-Dec-11	6.9	16,200	7.26	18,800	15,000	4,720	4,880	2,250	321	1,240	394	2,180	124	1.21	<0.1	11.9	11.7
	6-Jun-12	6.8	21,800	7.26	20,900	16,700	4,090	6,280	2,260	320	1,030	369	3,120	115	2.06	<0.1	12.3	12.3
	13-Dec-12	7.1	26,700	7.42	21,900	17,500	4,500	6,300	2,340	322	1,140	401	3,410	134	1.72	<0.1	15.5	13.2
	19-Jun-13	6.8	23,000	7.54	22,200	17,800	4,630	6,750	2,190	336	1,160	420	3,300	130	0.52	<0.1	15.3	13.4

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn	
MM3-2 (cont'd)	18-Jun-18	<0.004		1.7		<0.001		0.029	1.1	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.074		<0.025	
	10-Dec-18	<0.004		2.4		<0.001		0.028	1.1	<0.0001	<0.005	<0.001	0.45	<0.0005	0.066		<0.005	
	27-Jun-19	0.008		1.9		<0.001		0.024	1	<0.0001	<0.005	<0.001	0.41	<0.0005	0.064		<0.005	
	16-Dec-19	0.005		2		<0.001		0.027	1.1	<0.0001	<0.005	<0.001	0.34	<0.0005	0.064		<0.005	
	17-Jun-20	<0.004		2.1		<0.001		0.029	0.97	<0.00009	<0.005	<0.0009	0.32	<0.0005	0.073		<0.005	
	23-Dec-20	0.005		2.6		<0.001		0.039	1	<0.00009	<0.005	<0.0009	0.35	<0.0005	0.085		<0.005	
	24-Jun-21	0.006		2.4		<0.001		0.035	0.85	<0.00009	<0.005	<0.0009	0.27	<0.0005	0.073		<0.005	
	16-Dec-21	0.004		2		<0.001		0.033	0.99	<0.00009	<0.005	<0.0009	0.22	<0.0005	0.074		<0.005	
	27-Jun-22	0.005		2.2		<0.001		0.034	0.99	<0.00009	<0.005	<0.0009	0.12	<0.0005	0.076		<0.005	
	20-Dec-22	0.01		2		<0.001		0.031	0.95	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.066		<0.005	
	28-Jun-23	<0.004		1.9		<0.001		0.037	1	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.074		<0.005	
	20-Dec-23	0.006		2		<0.001		0.035	1	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.068		<0.005	
	18-Jun-24	0.007		1.8		<0.001		0.036	0.99	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.069		<0.025	
	18-Dec-24	0.029		2.2		<0.001		0.038	1	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.076		<0.005	
	10-Jun-25	0.011		2.6		<0.001		0.032	0.78	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.079		<0.005	
	8-Dec-25	0.03		2.1		<0.001		0.038	0.93	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.076		<0.005	
MM4-1	19-Mar-09	<0.01		3.3		<0.001		<0.1	3.8	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1	
	10-Jun-09	<0.01		3		<0.001		<0.1	0.5	<0.001	<0.01	<0.01	<0.3	<0.01	<0.1		<0.1	
	21-Sep-09	<0.01		2.6		<0.001		<0.1	5.9	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1	
	8-Dec-09	0.01		2.4		<0.001		<0.1	5.7	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1	
	8-Mar-10	<0.01		2.4		<0.001		<0.1	5.6	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1	
	22-Jun-10																	
	17-Sep-10																	
	28-Dec-10																	
	28-Mar-11	<0.01		2.8		0.001		<0.1	5.1	<0.001	<0.1	<0.01	<0.3	<0.01	<0.1		<0.1	
	13-Jun-11	0.01		3.8		<0.005		<0.1	7.5	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1	
	15-Sep-11	<0.01		3.4		<0.001		<0.1	6.1	<0.001	<0.005	<0.01	<0.3	<0.01	0.1		<0.1	
	12-Dec-11	<0.01		2		<0.001		<0.1	6.8	<0.001	<0.005	<0.01	<0.3	<0.01	0.2		<0.1	
	6-Jun-12	<0.01		2.6		<0.001		<0.1	7.6	<0.001	<0.005	<0.01	<0.3	<0.01	0.2		<0.1	
	13-Dec-12	<0.01		3.3		<0.001		<0.1	7.8	<0.001	<0.05	<0.01	<0.3	<0.01	0.2		<0.1	
	19-Jun-13	0.01		7.5		<0.001		<0.1	8.3	<0.001	<0.01	<0.01	<0.3	<0.01	0.2		<0.1	

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	E C (µS/cm)	pH (s u)	E C (µS/cm)	T D S	Hardness	Chloride	Sulphate	Alkalinity	Calcium	Magnesium	Sodium	Potassium	Nitrate	Nitrite	T K N	Ammonia
								Cl	SO ₄		Ca	Mg	Na	K	NO ₃	NO ₂		NH ₃
MM4-1 (cont'd)	4-Dec-13	7.2	25,900	7.15	19,300	15,400	3,750	5,940	2,100	327	912	358	2,820	132	0.13	<0.1	12.8	11.5
	19-Jun-14	6.7	19,600	7.50	20,600	16,500	4,300	6,100	2,190	352	1,100	378	3,270	126	<0.1	<0.1	12.4	11.9
	9-Dec-14	6.8	9,170	7.61	11,000	7,520	2,300	2,700	1,800	360	580	210	1,600	83	<0.1	<0.01	12	12
	24-Jun-15	6.8	9,350	7.51	9,900	8,230	2,200	2,400	1,700	310	560	200	1,300	71	<0.1	<0.01	7.4	7.4
	8-Dec-15	6.9	10,600	7.32	11,000	8,170	2,600	2,700	1,900	300	670	240	1,500	85	0.14	0.046	9.5	8.7
	24-Jun-16	6.6	11,800	7.29	9,200	13,200	2,100	2,400	1,200	300	520	200	1,300	62	2.47	0.031	11	9.5
	21-Dec-16	7.2	10,900	7.67	8,800	7,260	2,400	2,400	1,900	340	620	200	1,500	80	<0.1	<0.01	7.7	7.7
	20-Jun-17	6.9	18,100	7.58	18,000	13,500	4,200	5,100	2,500	290	1,100	380	2,600	110	<0.1	<0.01	12	10
	19-Dec-17	7.2	14,100	7.58	17,000	11,300	3,500	4,800	2,300	310	880	310	2,300	110	0.1	0.292	15	16
	30-Jun-18																	
	11-Jul-18	6.9	16,500	7.24	20,000	12,900	4,400	5,800	2,400	300	1,100	390	2,800	120	<0.1	<0.01	14	14
	10-Dec-18	6.8	20,700	7.41	21,000	14,000	4,300	6,100	2,200	290	1,100	400	2,800	120	<0.1	<0.01	12	12
	27-Jun-19	6.7	21,600	7.37	22,000	16,800	5,500	7,400	2,000	270	1,400	490	3,300	140	<0.1	<0.01	15	13
	10-Dec-19	8.2	7,420	8.22	8,900	5,600	570	1,600	<50.0	1900	68	96	1,500	280	94	4.86	150	150
	12-Dec-19	7.9	7,480	7.93	8,800	5,530	610	1,700	120	1800	77	100	1,500	260	57.4	0.851	150	120
	13-Dec-19	8.1	7,750	8.16	9,100	5,390	600	1,600	<50.0	2000	74	100	1,600	300	73.4	2.97	180	160
	16-Dec-19	8.4	8,020	8.32	8,900	5,640	610	1,600	<50.0	2000	73	100	1,500	300	74.4	8.41	180	170
MM4-2	19-Mar-09	7.3	4,260	7.61	4,150	3,110	499	424	598	834	114	52	623	66	34	<0.1	52	50.5
	10-Jun-09	7.2	4,580	7.51	4,570	3,430	572	543	629	737	127	62	783	69	41.6	<0.1	21.2	20.8
	21-Sep-09	7.3	3,890	7.59	3,790	2,840	401	336	691	772	83	47	587	60	<0.1	1.15	9.15	8.92
	8-Dec-09	7.2	4,380	7.58	4,400	3,300	478	458	738	737	104	53	705	62	21.9	<0.1	23.4	23.5
	8-Mar-10	7.1	4,160	7.36	4,060	3,250	499	383	790	710	109	55	806	65	27	<0.1	17.3	17.3
	22-Jun-10																	
	24-Sep-10	7.1	3,960	7.51	4,770	3,820	640	520	800	704	144	68	761	71	67.7	<0.1	18.7	17.6
	28-Dec-10																	
	29-Mar-11	8.0	4,260	7.32	4,130	3,100	652	560	539	776	149	68	605	67	12.4	<0.1	26	27
	14-Jun-11	7.0	4,080	8.17	4,820	3,620	654	687	595	646	140	74	731	65	46.9	0.3	18.1	19.4
	15-Sep-11	7.2		8.02	5,040	3,780	794	754	739	701	168	91	733	78	28.4	<0.1	17.2	16.6
	12-Dec-11	7.2	3,770	7.40	5,190	4,150	813	749	773	649	179	89	888	69	52.3	0.16	14.6	15.4
	6-Jun-12	7.3	4,290	7.50	5,130	3,850	616	773	583	593	141	64	776	61	77.8	<0.1	16.1	14.7
	19-Dec-12	7.9	5,020	7.15	4,730	3,550	709	677	728	644	167	71	804	68	45.5	<0.1	10.3	11.8

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM4-1 (cont'd)	4-Dec-13	0.02		4.8		<0.005		<0.1	6.9	<0.001	<0.01	<0.01	<0.3	<0.01	0.1		<0.1
	19-Jun-14	<0.01		3.3		<0.001		<0.1	8.9	<0.001	<0.01	<0.01	<0.3	<0.01	0.1		<0.1
	9-Dec-14	0.015		8.4		0.012		0.016	5.5	<0.0005	<0.025	<0.01	<0.5	<0.0025	0.11		<0.025
	24-Jun-15	0.012		2.2		0.0026		0.01	3.8	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.086		<0.025
	8-Dec-15	0.007		2.3		0.0046		0.015	4.9	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.094		<0.025
	24-Jun-16	0.024		3.9		<0.005		0.019	3.4	<0.0005	<0.025	<0.005	0.57	<0.0025	0.14		<0.025
	21-Dec-16	0.01		4.5		0.0081		0.013	4.7	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.076		<0.025
	20-Jun-17	<0.04		2.5		<0.1		0.025	6.6	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.13		<0.025
	19-Dec-17	<0.004		2.4		<0.001		0.02	5.5	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.11		<0.025
	30-Jun-18																
	11-Jul-18	<0.04		2.4		0.001		0.025	5.5	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.14		<0.025
	10-Dec-18	<0.004		2.7		<0.001		0.024	6.4	<0.0005	0.065	<0.005	0.52	<0.0025	0.15		<0.025
	27-Jun-19	0.025		2.7		<0.001		0.031	6.9	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.17		<0.025
	10-Dec-19	0.7		380		0.032		0.19	12	<0.0005	0.11	0.079	1.8	<0.0025	0.11		0.13
	12-Dec-19	0.59		360		0.0079		0.17	13	<0.001	0.1	0.021	1.5	0.051	0.07		0.24
	13-Dec-19	0.67		380		0.025		0.19	12	<0.001	0.1	0.024	1.6	0.011	0.12		0.16
	16-Dec-19	0.83		390		0.024		0.19	14	<0.0005	0.11	0.015	1.8	0.0037	0.11		0.16
MM4-2	19-Mar-09	0.02		9.9		<0.001		<0.01	2	<0.0001	<0.005	0.001	0.23	<0.001	0.05		<0.01
	10-Jun-09	0.01		9.6		<0.001		<0.01	2.3	<0.0001	<0.005	0.001	0.24	<0.001	0.05		<0.01
	21-Sep-09	0.03		11.9		0.004		<0.01	2	<0.0001	<0.005	0.001	0.37	<0.001	0.01		<0.01
	8-Dec-09	0.01		10.3		<0.001		<0.01	2	<0.0001	<0.005	0.002	<0.03	<0.001	0.02		0.04
	8-Mar-10	0.02		8.4		0.003		<0.01	2.3	<0.0001	<0.005	0.002	0.22	<0.001	0.03		<0.01
	22-Jun-10																
	24-Sep-10	0.02		8.9		<0.001		0.01	2	<0.0001	<0.005	0.002	<0.03	<0.001	0.06		0.08
	28-Dec-10																
	29-Mar-11	0.09		26.8		<0.001		0.02	1.8	<0.0001	<0.005	0.002	1.02	<0.001	0.15		0.05
	14-Jun-11	0.02		11.2		<0.001		0.01	2.2	<0.0001	0.01	0.002	0.35	<0.001	0.12		0.08
	15-Sep-11	0.04		9.3		<0.001		<0.1	2.3	<0.001	<0.005	<0.01	0.4	<0.01	<0.1		<0.1
	12-Dec-11	<0.01		7.6		<0.001		0.01	3	<0.0001	<0.005	0.003	<0.03	<0.001	0.09		0.14
	6-Jun-12	0.02		7.4		<0.001		<0.1	2.8	<0.001	<0.005	<0.01	<0.3	<0.01	<0.1		<0.1
	19-Dec-12	0.01		10.2		<0.001		0.01	2.5	<0.0001	<0.005	0.003	<0.03	<0.001	0.09		0.09

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM4-2 (cont'd)	25-Jun-13	6.8	4,390	7.62	4,820	3,860	758	643	767	558	180	75	785	72	62.8	<0.1	10.1	11.1
	10-Dec-13	6.8	4,290	7.28	5,300	4,240	788	813	988	547	177	84	852	68	21.6	0.27	12.2	13.7
	27-Jun-14	6.8	7,100	7.35	6,190	4,950	849	1,054	934	502	195	88	976	71	50.8	<0.1	12.9	11.9
	22-Dec-14	7.0	4,360	7.46	5,700	3,800	940	990	940	480	220	97	880	69	28.7	0.013	13	13
	24-Jun-15	7.7	5,430	7.52	5,800	3,830	1,000	1,000	970	440	240	110	810	69	36.6	0.181	11	9.5
	10-Dec-15	6.7	5,060	7.52	5,900	3,680	1,200	960	1,100	460	270	120	900	76	24.1	0.031	11	8.9
	24-Jun-16	7.0	4,520	7.58	6,000	3,510	1,200	1,000	1,100	450	280	130	770	73	22.3	<0.01	9.9	8.1
	22-Dec-16	7.0	5,870	7.41	6,500	4,250	1,200	1,200	1,100	450	280	120	830	74	23.2	0.064	12	9.7
	20-Jun-17	7.3	5,680	7.71	5,800	3,870	1,200	940	1,200	460	290	120	840	73	18.7	0.014	7.4	6.4
	19-Dec-17	7.6	4,030	7.82	4,800	3,180	1,100	580	1,100	470	270	110	590	68	5.58	0.017	7.1	7
	30-Jun-18																	
	11-Jul-18	7.2	3,680	7.55	4,200	2,830	1,100	480	1,200	430	260	110	530	65	16.5	0.014	6.7	6.3
	11-Dec-18	7.0	4,410	7.60	4,500	3,180	1,100	520	1,200	450	260	110	530	64	4.23	0.021	6.1	6
	28-Jun-19	7.0	3,640	7.69	3,800	2,860	1,100	450	1,100	390	270	100	480	59	11.5	0.063	5.6	5.3
	13-Dec-19	7.1	3,610	7.52	4,300	2,960	1,100	480	1,200	420	280	110	520	63	4.7	0.028	6.1	6.2
	23-Mar-20	7.1	4,120	7.55	4,100	3,010	1,200	380	1,300	410	300	110	480	62	0.42	<0.01	6.3	6.2
	22-Jun-20	6.6	3,990	7.56	4,000	2,870	1,300	350	1,300	420	320	120	460	65	0.42	0.013	5.6	5.8
	30-Sep-20	6.8	3,640	7.66	3,900	2,990	1,300	360	1,300	420	320	120	450	63	0.12	<0.01	6.1	5.8
	24-Dec-20	7.3	3,520	7.73	4,000	2,850	1,200	410	1,300	420	300	120	470	64	1.92	0.047	6.2	5.4
	22-Mar-21	6.9	3,520	7.69	3,900	2,680	1,200	300	1,300	410	300	110	390	60	6.08	0.067	5.1	5.3
	29-Jun-21	6.6	3,720	7.77	4,000	2,800	1,300	360	1,300	390	310	120	430	61	15.2	0.013	6.2	5.2
	30-Sep-21	6.8	3,790	7.75	3,700	2,810	1,300	370	1,300	410	330	120	420	60	1.53	0.037	5.5	5.2
	17-Dec-21	7.1	2,650	7.54	3,800	2,820	1,400	260	1,400	390	360	130	340	58	0.68	0.01	6.6	5.4
	4-Apr-22	6.6	6,155	7.58	3,800	2,870	1,200	360	1,200	410	310	110	400	57	4.32	0.056	5.1	5
	29-Jun-22	6.6	3,363	7.53	4,000	3,090	1,300	440	1,200	410	330	120	460	59	0.73	<0.01	6.8	5.3
	5-Oct-22	6.8	4,040	7.86	4,000	2,870	1,400	380	1,300	420	340	120	470	63	1.31	0.016	6.4	5.3
	21-Dec-22	6.7	3,860	7.59	3,700	2,380	1,300	280	1,200	390	340	120	350	54	2.58	0.043	6.3	5
	30-Mar-23	6.6	3,610	7.64	3,500	2,490	1,200	300	1,100	400	310	110	340	54	7.84	0.03	5.7	5.2
	30-Jun-23	6.7	3,840	7.64	4,100	2,980	1,200	450	1,100	400	300	120	530	62	14	0.046	4.7	5.6
	25-Sep-23	7.0	3,880	7.90	4,100	2,840	1,300	420	1,200	400	320	120	480	63	2.81	0.039	5.5	5.3

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone		Date	Nutrients and Organic Indicators					Dissolved Metals										
			Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn	
MM4-2 (cont'd)	25-Jun-13	<0.01		7.6		<0.001		0.01	2.8	<0.0001	<0.005	0.002	<0.03	<0.001	0.07		0.1	
	10-Dec-13	0.01		11.7		<0.002		0.01	3.6	<0.0001	<0.005	0.004	<0.03	<0.001	0.08		0.11	
	27-Jun-14	<0.01		5.2		<0.001		0.01	3.36	<0.0001	<0.001	<0.001	0.13	<0.001	0.11		0.1	
	22-Dec-14	<0.004		7		0.006		0.012	3.6	<0.0001	<0.005	<0.001	<0.1	<0.0005	0.088		0.03	
	24-Jun-15	0.009		11		<0.001		0.015	3.4	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.11		0.14	
	10-Dec-15	0.004		6.6		<0.001		0.014	4	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.097		0.14	
	24-Jun-16	0.004		6.2		<0.001		0.014	3.7	<0.0001	<0.005	<0.002	<0.1	0.00079	0.09		0.093	
	22-Dec-16	0.006		12		<0.001		0.014	4.2	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.078		0.047	
	20-Jun-17	<0.004		5.3		<0.01		0.014	4.4	<0.0001	<0.005	0.0021	<0.1	<0.0005	0.1		0.087	
	19-Dec-17	0.007		5		<0.001		0.01	2.9	<0.0001	<0.005	0.0023	0.19	<0.0005	0.057		0.034	
	30-Jun-18																	
	11-Jul-18	0.014		3.3		<0.001		<0.01	3	<0.0005	<0.025	<0.005	<0.5	<0.0025	0.051		<0.025	
	11-Dec-18	0.009		4.5		<0.001		0.01	2.8	<0.0001	<0.005	0.036	<0.1	<0.0005	0.048		0.054	
	28-Jun-19	0.016		2.6		0.0015		0.008	2.6	<0.0001	<0.005	0.0058	<0.1	<0.0005	0.037		0.022	
	13-Dec-19	0.007		2.7		<0.001		0.01	2.7	<0.0001	<0.005	0.028	<0.1	<0.0005	0.041		0.036	
	23-Mar-20	0.011		2.4		<0.001		0.009	2.5	<0.0001	<0.005	0.0015	1	<0.0005	0.053		0.023	
	22-Jun-20	0.005		6		<0.001		0.009	2.3	<0.00009	<0.005	0.0036	0.3	<0.0005	0.053		0.017	
	30-Sep-20	0.029		2.4		<0.001		0.009	2.6	<0.00009	<0.005	<0.0009	0.73	<0.0005	0.045		0.0054	
	24-Dec-20	0.014		2.7		<0.001		0.009	2.6	<0.00009	<0.005	0.017	<0.1	<0.0005	0.045		0.065	
	22-Mar-21	0.008		2.4		<0.001		0.01	2.3	<0.00009	<0.005	0.022	<0.1	<0.0005	0.047		0.05	
	29-Jun-21	0.008		2.3		<0.001		<0.01	2.4	<0.00045	<0.025	0.097	<0.5	<0.0025	0.056		0.076	
	30-Sep-21	0.016		2.6		0.0015		0.009	2.3	<0.00009	<0.005	0.0051	<0.1	<0.0005	0.052		0.066	
	17-Dec-21	0.005		2.7		<0.001		0.009	2.1	<0.00009	<0.005	0.024	<0.1	<0.0005	0.035		0.045	
	4-Apr-22	0.017		2.7		<0.001		0.009	2.3	<0.00009	<0.005	0.00098	<0.1	<0.0005	0.054		0.046	
	29-Jun-22	0.019		2.8		<0.001		0.017	2.4	<0.00009	<0.005	0.002	<0.1	<0.0005	0.043		0.025	
	5-Oct-22	0.012		2.9		<0.001		0.01	2.4	<0.00009	<0.005	0.0009	0.13	<0.0005	0.056		0.039	
	21-Dec-22	0.011		3		<0.001		0.009	2.3	<0.00009	<0.005	0.066	<0.1	<0.0005	0.036		0.026	
	30-Mar-23	0.012		2.9		<0.001		0.009	2	<0.00009	<0.005	0.01	<0.1	<0.0005	0.034		0.033	
	30-Jun-23	<0.004		2.9		<0.001		0.009	2.3	<0.00009	<0.005	0.0047	0.11	<0.0005	0.067		0.066	
	25-Sep-23	<0.004		2.8		<0.001		0.009	2.5	<0.00009	<0.005	0.012	<0.1	<0.0005	0.057		0.096	

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MM4-2 (cont'd)	20-Dec-23	7.6	3,700	7.42	4,200	2,800	1,100	460	950	350	280	100	490	55	33.9	0.252	4.5	3.7
	13-Mar-24	7.1	3,830	7.25	4,000	2,720	1,200	490	950	340	290	100	490	56	52.7	0.036	3.7	3.9
	18-Jun-24	7.3	3,640	7.19	4,100	3,040	1,200	440	1,200	400	290	120	480	58	8.61	0.02	5.6	5.1
	30-Oct-24	7.3	3,830	7.59	4,600	2,970	1,200	520	1,200	400	300	120	530	59	8.89	0.079	3.2	3.4
	18-Dec-24	7.1	3,810	7.52	4,400	3,120	1,200	510	1,200	420	290	110	540	56	2.35	0.015	5.1	4.5
	17-Mar-25	6.9	2,650	7.15	2,700	1,790	640	260	160	380	150	62	480	49	143	0.016	<5.0	2
	10-Jun-25	6.8	3,350	7.61	4,300	2,960	1,028	580	860	390	250	98	590	59	38.4	0.028	10	2.3
	25-Sep-25	6.8	3,820	7.42	4,700	3,120	1,100	650	1,000	400	260	100	510	55	28.4	0.021	5.5	4.5
	8-Dec-25	6.9	4,180	7.32	4,400	3,200	800	520	940	400	200	75	440	45	20.5	<0.01	3.5	4.1
MHC2g	6-Mar-09	7.5	5,010	7.70	4,850	3,880	1,120	838	993	356	279	104	534	39	0.29	<0.1	2.7	2.1
	22-Jun-09	7.8	3,960	7.88	4,160	3,330	1,160	602	1,050	256	299	101	454	31	0.17	<0.1	0.62	0.45
	5-Oct-09	7.6	4,470	7.48	4,280	3,420	1,210	615	1,170	260	328	94	450	30	<0.1	<0.1	1.48	0.56
	14-Dec-09	7.4	2,910	7.61	2,490	1,870	721	299	605	182	203	52	204	11	1.02	<0.1	0.8	0.36
	18-Mar-10	7.3	5,740	7.74	5,870	4,700	1,660	1,340	929	351	419	150	795	47	0.24	<0.1	2	2.09
	22-Jun-10																	
	2-Sep-10																	
	23-Dec-10	7.5	4,190	7.39	4,560	3,650	1,770	608	1,390	337	490	132	471	31	0.52	<0.1	0.77	0.79
	1-Mar-11	7.6	5,230	7.48	5,240	4,190	1,610	963	1,290	312	431	130	484	29	0.34	<0.1	1.27	0.99
	30-Mar-11	7.7	4,100	7.56	4,630	3,700	1,290	829	1,030	340	329	113	533	34	0.39	<0.1	1.54	1.32
	20-Apr-11	8.2	1,200															
	19-May-11	7.0	3,570															
	20-Jun-11	7.2	3,690	7.93	4,490	3,590	1,620	648	1,260	352	426	136	470	30	0.21	<0.1	1.29	0.98
	8-Sep-11	7.3		7.72	4,780	3,820	1,640	708	1,360	341	423	141	480	34	0.27	<0.1	1.37	0.97
	26-Sep-11	7.3	4,190	7.43	4,720	3,780	1,680	702	1,330	357	452	135	488	34	0.35	<0.1	1.16	0.96
	30-Sep-11	7.3	4,530	7.46	4,780	3,820	1,630	730	1,410	362	414	145	449	32	0.43	<0.1	1.52	1.05
	27-Oct-11	7.2	4,540															
	28-Nov-11	7.5	4,610	7.79	4,650	3,720	1,690	640	1,340	316	449	138	511	35	0.32	<0.1	0.82	0.73
	13-Dec-11	7.4	3,830	7.68	4,020	3,220	1,270	555	1,110	348	328	109	389	29	0.29	<0.1	0.68	0.72
	21-Dec-11	7.3	4,050															
	24-Jan-12	7.4	3,340															
	15-Mar-12	8.2	3,800	8.04	3,690	2,950	1,110	574	853	252	274	104	392	30	0.99	<0.1	<0.1	<0.02

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MM4-2 (cont'd)	20-Dec-23	0.01		3.4		<0.001		0.008	2.4	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.076		0.1
	13-Mar-24	0.011		3		<0.001		0.008	2.5	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.086		0.093
	18-Jun-24	0.006		2.1		<0.001		0.008	2.4	<0.00009	<0.005	0.0011	<0.1	<0.0005	0.062		0.074
	30-Oct-24	0.028		9.7		<0.001		0.009	2.3	<0.00009	<0.005	0.0024	0.18	<0.0005	0.068		0.045
	18-Dec-24	0.04		4.5		<0.001		0.011	2.5	<0.00045	<0.025	<0.0045	<0.5	<0.0025	0.06		0.056
	17-Mar-25	0.023		2.3		<0.001		0.005	1.7	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.04		0.029
	10-Jun-25	0.047		2		<0.001		0.008	2.3	<0.00009	<0.005	<0.0009	<0.1	<0.0005	0.064		0.037
	25-Sep-25	0.031		4.9		0.0011		0.007	2.2	<0.00009	<0.005	0.0019	<0.1	<0.0005	0.053		0.055
	8-Dec-25	0.032		2.1		<0.001		0.007	1.9	<0.00009	<0.005	0.0023	<0.1	<0.0005	0.064		0.083
MHC2g	6-Mar-09	0.03		3.7	18	<0.001	0.006	0.02	1.91	<0.0001	<0.005	0.004	0.22	0.001	0.11	<0.0001	0.01
	22-Jun-09	0.01		4.1	<5.0	<0.001	0.004	0.02	0.8	<0.0001	0.004	0.003	0.13	<0.001	0.12	<0.0001	0.01
	5-Oct-09	0.02		8.1	26	<0.001	0.005	0.02	0.94	<0.0001	<0.005	0.007	0.31	<0.001	0.49	<0.0001	0.04
	14-Dec-09	0.12		4.1	25	<0.001	0.005	0.02	0.69	<0.0001	0.005	0.003	0.35	<0.001	0.11	<0.0001	0.01
	18-Mar-10	0.03		3.5	25	<0.001	<0.01	0.06	1.7	<0.0001	<0.005	0.003	0.21	<0.001	0.24	<0.0001	<0.01
	22-Jun-10																
	2-Sep-10																
	23-Dec-10	0.01		3.2	15	<0.001	<0.01	0.02	1.6	<0.0001	0.008	0.004	0.64	<0.001	0.1	<0.0001	0.02
	1-Mar-11	0.02		2.5	15	<0.001	<0.01	0.03	1.3	<0.0001	<0.005	0.005	0.47	<0.001	0.13	<0.0001	0.04
	30-Mar-11	0.08		3.3	40	<0.001	<0.01	0.02	1.5	<0.0001	<0.005	0.008	0.98	0.001	0.09	<0.0001	0.11
	20-Apr-11																
	19-May-11																
	20-Jun-11	0.13		4.6	50	<0.001	<0.01	0.04	1.3	<0.0001	<0.005	0.004	1.01	0.001	0.14	<0.0001	0.02
	8-Sep-11	0.04		3.1	20	<0.001	<0.01	0.02	1.5	<0.0001	0.017	0.008	0.76	<0.001	0.09	<0.0001	0.05
	26-Sep-11	0.11		4.8	20	<0.001	<0.01	0.02	1.7	<0.0001	<0.005	0.008	0.57	0.001	0.08	<0.0001	0.09
	30-Sep-11	0.02		3.7	28	<0.001	<0.01	0.03	1.5	<0.0001	<0.005	0.007	0.42	<0.001	0.08	<0.0001	0.05
	27-Oct-11																
	28-Nov-11	0.04		3.3	35	<0.001	<0.01	0.02	1.61	<0.0001	<0.005	0.004	0.78	<0.001	0.07	<0.0001	0.02
	13-Dec-11	<0.01		3	20	<0.001	<0.01	0.02	1.3	<0.0001	<0.005	0.004	0.53	<0.001	0.07	<0.0001	<0.01
	21-Dec-11																
	24-Jan-12																
	15-Mar-12	<0.01		3.4	8	<0.001	<0.01	0.03	1.2	<0.0001	0.009	0.004	0.03	<0.001	0.02	<0.0001	0.05

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MHC2g (cont'd)	27-Mar-12	8.2	3,700	7.91	3,650	2,920	1,050	648	956	229	270	92	392	28	1.14	<0.1	0.14	<0.02
	27-Apr-12	7.2	4,580															
	13-Jun-12	7.4	3,900	7.94	3,960	3,170	1,420	528	1,000	310	397	103	364	27	0.35	<0.1	0.8	0.64
	7-Sep-12	7.3	5,260	7.72	5,470	4,380	1,900	885	1,520	368	514	150	532	31	0.2	<0.1	1.78	1.74
	10-Sep-12	7.4	3,420															
	22-Oct-12	8.7	3,920															
	29-Oct-12	7.3	3,710															
	31-Oct-12	7.3	4,180	7.43	3,670	2,940	1,090	483	1,030	312	301	83	375	28	0.25	<0.1	0.84	0.46
	12-Dec-12	7.5	5,610	7.81	5,370	4,300	1,680	865	1,270	395	455	133	598	39	0.22	<0.1	2.76	2.71
	21-Dec-12	7.3	3,920															
	11-Jan-13	7.2	4,780															
	30-Jan-13	7.8	5,440															
	22-Feb-13	7.0	5,380															
	15-Mar-13	7.0	5,470	7.27	5,140	4,110	1,990	811	1,470	388	480	193	438	36	<0.1	<0.1	2.29	1.91
	11-Apr-13	7.1	5,000															
	30-May-13	7.1	5,050															
	11-Jun-13	7.1	4,470	7.76	4,600	3,680	1,720	655	1,240	355	466	136	421	27	0.36	<0.1	1.45	1.42
	12-Jul-13	6.9	5															
	6-Sep-13	7.0	4,300	7.44	4,730	3,780	1,740	698	1,340	362	469	137	427	29	<0.1	<0.1	1.45	1.39
	2-Oct-13	7.4	4,270															
	22-Oct-13	7.0	4,470															
	4-Dec-13	8.1	3,970	7.91	4,630	3,700	1,740	681	1,390	290	496	121	442	25	1.7	0.13	0.3	0.18
	23-Dec-13	7.5	1,400															
	13-Jan-14	6.7	4,000															
	20-Feb-14	6.9	4,560															
	12-Mar-14	6.8	4,270															
	19-Mar-14	7.0	4,230	7.44	4,990	3,990	1,940	800	1,320	340	512	160	504	30	0.7	<0.1	1.55	1.43
	31-Mar-14	7.1	4,000															
	30-Apr-14	7.1	4,580															
	15-May-14	7.0	4,470															
	11-Jun-14	7.5	4,350	7.89	4,520	3,620	1,790	678	1,360	267	499	132	422	27	1.49	<0.1	0.32	0.21

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2g (cont'd)	27-Mar-12	<0.01		5.9	7	<0.001	<0.01	0.02	1.5	<0.0001	0.008	0.003	<0.03	<0.001	<0.01	<0.0001	<0.01
	27-Apr-12																
	13-Jun-12	0.01		6	20	<0.001	<0.01	0.04	0.97	0.0001	0.003	0.004	1.5	0.003	0.31	<0.0001	0.05
	7-Sep-12	0.02		3.8	18	<0.001	<0.01	0.03	1.9	<0.0001	<0.01	0.004	0.78	<0.001	0.12	<0.0001	<0.01
	10-Sep-12																
	22-Oct-12																
	29-Oct-12																
	31-Oct-12	0.04		7.9	30	<0.001	<0.01	0.02	1.6	<0.0001	0.008	0.007	0.72	<0.001	0.09	<0.0001	0.02
	12-Dec-12	0.26		5.6	59	<0.01	<0.01	0.03	2.1	<0.0001	<0.005	0.004	0.96	<0.001	0.1	<0.0001	<0.01
	21-Dec-12																
	11-Jan-13																
	30-Jan-13																
	22-Feb-13																
	15-Mar-13	<0.01		4.3	19	<0.005	<0.01	<0.1	1.8	<0.001	<0.1	<0.01	0.9	<0.01	0.2	<0.0001	<0.1
	11-Apr-13																
	30-May-13																
	11-Jun-13	0.01		3	8	<0.001	<0.01	0.02	1.7	<0.0001	0.007	0.003	0.73	<0.001	0.1	<0.0001	<0.01
	12-Jul-13																
	6-Sep-13	<0.01		3.8	17	<0.001	<0.1	0.02	1.5	<0.0001	<0.005	0.005	1.8	<0.001	0.11	<0.0001	0.02
	2-Oct-13																
	22-Oct-13																
	4-Dec-13	<0.01		3.1	19	<0.001	<0.01	0.03	1.5	<0.0001	0.005	0.004	0.11	<0.001	0.04	<0.0001	0.02
	23-Dec-13																
	13-Jan-14																
	20-Feb-14																
	12-Mar-14																
	19-Mar-14	<0.01		3.5	13	<0.001	0.001	0.03	1.6	<0.0001	<0.001	0.002	0.32	<0.001	0.11	<0.0001	0.02
	31-Mar-14																
	30-Apr-14																
	15-May-14																
	11-Jun-14	<0.01		2.5	<5.0	<0.001	<0.001	0.02	1.3	<0.0001	<0.001	<0.001	0.11	<0.001	0.13	<0.0001	<0.01

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MHC2g (cont'd)	10-Jul-14	6.9	4,690															
	29-Jul-14	7.2	2,380															
	9-Sep-14	6.9	4,410	7.71	4,800	3,930	1,800	770	1,300	330	530	160	540	38	0.36	0.41	3.3	1.3
	10-Nov-14	7.5	4,740															
	1-Dec-14	7.3	4,720	7.77	5,400	3,840	1,900	870	1,400	330	550	160	530	34	0.22	0.066	1.4	1.4
	15-Dec-14	7.2	4,800															
	30-Dec-14	7.1	4,700															
	12-Mar-15	7.3	4,770	7.78	5,500	3,990	2,000	940	1,500	330	700	190	550	39	0.91	0.05	1.7	1.4
	2-Apr-15	7.2	4,550															
	2-Jun-15	7.1	5,070	7.72	5,400	4,050	1,900	940	1,400	310	515	155	505	35	0.42	0.074	2.1	1.5
	16-Jun-15	6.9	4,650															
	30-Jun-15	6.8	4,280															
	15-Jul-15	6.8	4,140															
	11-Aug-15	7.0	4,960															
	14-Sep-15	7.3	1,990	7.50	2,300	1,410	680	270	480	170	180	51	200	16	1.64	<0.01	0.3	<0.05
	4-Dec-15	6.7	4,120	7.60	4,400	3,220	1,500	630	1,200	280	410	130	460	35	0.23	<0.01	0.89	0.4
	9-Jan-16	7.1	4,270															
	1-Feb-16	6.8	4,850															
	25-Feb-16	6.8	4,770															
	9-Mar-16	6.8	4,110	7.59	4,500	3,210	1,500	740	1,100	320	380	120	460	34	0.22	<0.01	0.61	0.72
	29-Mar-16	6.9	4,300															
	16-May-16	6.9	4,570															
	29-Jun-16	7.0	4,340	7.74	5,000	4,170	2,000	700	1,400	350	510	150	410	29	0.46	0.024	0.45	0.27
	29-Sep-16	6.9	4,430	7.88	5,900	4,840	1,900	1,000	1,400	340	520	160	540	36	0.33	0.048	1.5	1.4
	21-Oct-16	6.2	4,550	7.78	5,900	4,340	2,100	1,000	1,500	340	550	160	550	34	0.27	0.064	1.3	1.4
	4-Nov-16	7.1	3,800	7.76	4,200	3,540	1,700	670	1,100	260	420	140	470	36	0.11	<0.01	1.2	0.53
	8-Dec-16	7.1	6,040	7.65	6,000	4,390	2,100	1,100	1,400	330	510	170	590	36	0.23	0.031	1.9	1.4
	4-Jan-17	7.0	5,690															
	1-Feb-17	7.4	5,010															
	20-Mar-17	7.7	5,060	7.72	5,100	3,550	1,800	790	1,200	280	420	140	490	37	1.11	<0.01	<0.1	<0.05
	6-Apr-17	7.1	5,880															

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2g (cont'd)	10-Jul-14																
	29-Jul-14																
	9-Sep-14	0.52		2.5	21	<0.001	0.018	0.053	1.9	<0.0001	0.0089	0.0072	13	0.0066	0.23	0.00002	0.067
	10-Nov-14																
	1-Dec-14	0.011		2.5	15	<0.001	0.0013	0.025	1.8	<0.0001	<0.005	0.0037	1.3	0.00077	0.097	<0.00001	0.018
	15-Dec-14																
	30-Dec-14																
	12-Mar-15	0.1		2.6	18	0.0012	0.029	0.17	1.9	<0.0005	0.044	0.055	64	0.035	1.2	<0.00001	0.45
	2-Apr-15																
	2-Jun-15	0.021		2.1	15	<0.001	0.016	0.075	1.5	0.00011	0.018	0.025	27	0.015	0.49	<0.00001	0.34
	16-Jun-15																
	30-Jun-15																
	15-Jul-15																
	11-Aug-15																
	14-Sep-15	0.008		2.6	7	<0.001	<0.001	0.012	0.48	<0.0001	<0.005	0.0028	<0.1	<0.0005	0.0082	<0.00001	0.033
	4-Dec-15	<0.004		6	19	<0.001	<0.001	0.021	1.6	<0.0001	<0.005	0.0038	0.19	<0.0005	0.081	<0.00001	0.033
	9-Jan-16																
	1-Feb-16																
	25-Feb-16																
	9-Mar-16	0.005		3.5	18	<0.001	0.0013	0.019	1.6	<0.0001	<0.005	0.0025	0.45	<0.0005	0.071	<0.00001	0.083
	29-Mar-16																
	16-May-16																
	29-Jun-16	0.015		2.5	21	<0.001	<0.001	0.024	1.4	<0.0001	<0.005	<0.002	0.26	0.00089	0.049	<0.00001	0.05
	29-Sep-16	0.041		2.6	19	<0.001	<0.001	0.026	1.7	<0.0001	<0.005	0.0017	1	0.00078	0.073	<0.00001	0.046
	21-Oct-16	0.023		2.7	20	<0.001	0.0015	0.025	1.9	<0.0001	<0.005	0.0014	1.6	0.0029	0.083	0.00001	0.54
	4-Nov-16	0.005		7.8	28	<0.001	0.0017	0.021	1.5	<0.0001	<0.005	0.0026	0.84	0.00057	0.082	<0.00001	0.058
	8-Dec-16	0.006		3.9	24	<0.001	<0.001	0.025	1.9	<0.0001	<0.005	0.0013	0.54	0.00098	0.078	<0.00001	0.19
	4-Jan-17																
	1-Feb-17																
	20-Mar-17	0.039		8	35	<0.001	<0.001	0.025	1.6	<0.0001	<0.005	<0.001	<0.1	0.0067	0.024	<0.00001	3.5
	6-Apr-17																

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	E C (µS/cm)	pH (s u)	E C (µS/cm)	T D S	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	T K N	Ammonia NH ₃
MHC2g (cont'd)	22-Apr-17	7.3	5,580															
	5-May-17	7.3	5,370															
	26-Jun-17	7.3	4,280	7.54	4,300	2,900	1,200	730	820	290	330	100	520	36	0.86	<0.01	0.45	0.074
	4-Aug-17	7.2	4,170															
	26-Sep-17	6.8	4,330	7.71	4,400	2,930	1,200	740	870	340	340	100	500	35	0.56	<0.01	0.39	<0.05
	11-Oct-17	6.8	4,190	7.67	4,200	2,880	1,200	740	860	340	320	96	480	34	0.63	0.022	1.2	0.76
	6-Dec-17	7.5	3,860	7.74	4,500	3,080	1,400	720	1,000	340	370	110	480	35	1.47	0.034	1.2	1.1
	16-Feb-18	7.5	4,330															
	23-Mar-18	7.2	4,290															
	26-Mar-18	7.0	4,360	7.73	4,800	3,040	1,400	760	1,100	350	410	120	500	40	2.92	0.017	4.8	4.2
	16-Apr-18	7.0	4,350															
	26-Jun-18	7.1	4,440	7.52	4,800	3,560	1,600	820	1,100	330	460	130	510	34	<0.1	0.012	2.7	2.4
	23-Aug-18	7.2	4,420	7.74	4,800	3,330	1,500	830	1,100	340	420	130	480	33	0.3	0.011	2.5	2
	25-Sep-18	7.1	4,600	7.47	5,000	3,730	1,700	810	1,100	350	440	130	500	33	0.2	<0.01	2.5	2.1
	3-Oct-18	7.0	4,740	7.74	4,800	3,410	1,600	850	1,100	350	420	130	530	37	0.2	0.013	3.2	2.4
	2-Nov-18	7.1	4,340	8.03	4,600	3,650	1,700	850	1,100	330	440	130	480	33	0.4	<0.01	4.1	3.4
	4-Dec-18	7.1	4,130	7.64	5,000	3,560	1,600	770	1,200	320	450	130	530	36	0.47	<0.01	4.1	3.7
	9-Jan-19	7.1	4,900															
	8-Feb-19	7.1	4,650	7.58	5,200	3,710	1,700	770	1,300	330	480	140	510	35	0.7	0.02	5.7	5.1
	14-Mar-19	7.1	4,460	7.59	4,900	3,520	1,800	720	1,400	330	490	150	430	25	<0.1	<0.01	2	1.7
	16-Apr-19	6.9	4,270															
	3-May-19	6.9	4,380															
	7-Jun-19	7.0	4,340	7.70	4,500	3,640	2,000	730	1,400	310	500	150	400	24	<0.1	<0.01	1.6	1.4
	16-Sep-19	6.7	4,100	7.71	4,700	3,580	1,900	670	1,400	330	500	150	400	24	<0.1	<0.01	1.7	1.5
	1-Nov-19	6.7	3,780															
	6-Dec-19	6.8	3,820	7.38	4,800	3,520	1,900	710	1,300	320	500	150	400	43	<0.1	0.188	8.1	7.4
	14-Jan-20	6.8	3,560															
	10-Mar-20	6.9	4,120	7.42	4,300	2,800	1,800	550	1,200	340	440	130	310	41	<0.1	<0.01	7.3	7.8
	19-May-20	6.9	4,210	7.44	4,000	3,080	1,700	580	1,200	350	510	140	330	43	<0.1	<0.01	12	12
	26-Jun-20	6.7	4,250	7.29	4,300	3,440	1,700	580	1,200	360	480	150	320	44	<0.1	<0.01	15	13
	25-Sep-20	6.8	4,100	7.57	4,400	3,250	1,800	600	1,300	400	490	160	340	45	<0.1	<0.01	14	14

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2g (cont'd)	22-Apr-17																
	5-May-17																
	26-Jun-17	0.005		3.6	14	<0.001	<0.001	0.023	1.5	<0.0001	<0.005	0.0036	<0.1	0.00076	0.11	<0.00001	0.34
	4-Aug-17																
	26-Sep-17	0.025		3.6	18	<0.001	0.001	0.027	1.5	<0.0001	<0.005	0.0015	<0.1	<0.0005	0.032	<0.00001	0.1
	11-Oct-17	0.015		4.4	17	<0.001	<0.001	0.027	1.5	<0.0001	<0.005	0.0021	<0.1	<0.0005	0.062	<0.00001	0.16
	6-Dec-17	0.006		5.6	18	0.0012	0.0016	0.029	1.4	<0.0001	<0.005	0.0012	0.28	<0.0005	0.11	<0.00001	0.025
	16-Feb-18																
	23-Mar-18																
	26-Mar-18	0.01		11	42	0.0037	0.0014	0.035	1.6	<0.0001	<0.005	0.0044	<0.1	<0.0005	0.3	<0.00001	0.14
	16-Apr-18																
	26-Jun-18	0.007		5	19	<0.001	0.0018	0.03	1.5	<0.0001	<0.005	0.0016	0.33	0.0017	0.38	<0.00001	0.59
	23-Aug-18	0.009		6.4	21	<0.001	0.0023	0.031	1.3	<0.0001	<0.005	0.0011	0.61	0.0008	0.41	<0.00001	0.45
	25-Sep-18	0.004		6.7	29	<0.001	0.0041	0.033	1.4	<0.0001	<0.005	<0.001	1.6	<0.0005	0.44	<0.00001	0.034
	3-Oct-18	0.012		7.4	31	<0.001	0.0023	0.035	1.4	<0.0001	<0.005	0.0014	0.96	<0.0005	0.48	<0.00001	0.084
	2-Nov-18	0.005		7.1	25	<0.001	0.0036	0.035	1.4	<0.0001	<0.005	<0.001	1.6	<0.0005	0.38	<0.00001	0.035
	4-Dec-18	<0.004		7.4	29	<0.001	0.0011	0.032	1.5	<0.0001	<0.005	<0.001	0.39	<0.0005	0.24	<0.00001	0.03
	9-Jan-19																
	8-Feb-19	0.019		9	36	<0.001	<0.001	0.038	1.5	<0.0001	<0.005	0.0013	0.16	<0.0005	0.25	<0.00001	0.047
	14-Mar-19	0.004		2	13	<0.001	0.001	0.027	1.4	<0.0001	<0.005	0.0011	0.62	0.00063	0.18	<0.00001	0.25
	16-Apr-19																
	3-May-19																
	7-Jun-19	0.006		1.9	<4.0	<0.001	0.001	0.026	1.3	<0.0001	<0.005	<0.001	0.97	<0.0005	0.2	<0.00001	0.035
	16-Sep-19	0.005		1.8	8	<0.001	0.0036	0.026	1.3	<0.0001	<0.005	<0.001	2.6	<0.0005	0.12	<0.00001	0.024
	1-Nov-19																
	6-Dec-19	0.018		11	35	<0.001	0.0021	0.044	1.4	<0.0001	<0.005	0.0039	0.46	<0.0005	0.39	<0.00001	0.044
	14-Jan-20																
	10-Mar-20	0.045		9.7	44	0.0021	0.0031	0.044	1	<0.0001	<0.005	<0.001	1.2	0.00072	0.54	<0.00001	0.16
	19-May-20	0.023		9.6	45	0.001	0.0022	0.054	0.99	<0.0001	<0.005	0.0038	0.51	0.00088	0.63	<0.00001	0.11
	26-Jun-20	0.017		11	34	0.0017	0.0023	0.046	1.2	<0.00009	<0.005	0.0024	0.83	<0.0005	0.64	<0.00001	0.03
	25-Sep-20	0.011		12	39	0.0021	0.0024	0.05	1.2	<0.00009	<0.005	<0.0009	1.8	<0.0005	0.7	<0.00001	0.015

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MHC2g (cont'd)	26-Nov-20	7.0	4,090	7.74	4,700	3,420	1,900	680	1,200	360	500	160	350	43	<0.1	0.045	11	10
	21-Dec-20	6.6	4,500	7.06	4,300	3,760	1,700	770	1,000	240	620	130	290	77	<0.1	<0.01	18	16
	22-Jan-21	6.9	2,970															
	11-Mar-21	6.9	3,970	7.53	3,600	2,790	1,300	620	700	250	430	76	220	60	<0.1	<0.01	11	9.6
	29-Mar-21	6.6	3,360															
	14-Jun-21	6.8	4,110	7.67	4,700	3,340	1,800	750	1,200	310	460	140	380	38	0.3	0.02	6.2	6
	20-Jul-21	6.7	4,220															
	8-Sep-21																	
	16-Sep-21	7.1	5,557	7.82	5,200	3,450	2,000	820	1,500	330	590	170	490	28	0.15	0.136	1.7	1.1
	23-Sep-21	6.9	4,610	7.65	4,000	3,130	1,400	590	1,200	290	410	130	470	37	0.1	<0.01	1.6	0.89
	18-Oct-21	6.9	4,705															
	1-Nov-21	7.0	3,449															
	6-Dec-21	6.8	3,649	7.46	4,000	2,690	1,400	500	1,200	320	370	120	380	34	<0.1	<0.01	6.7	5.4
	17-Feb-22	7.6	1,504															
	16-Mar-22	6.1	2,644	7.08	2,900	2,540	1,500	200	1,200	160	560	59	100	26	<0.1	<0.01	18	16
	4-May-22	6.5	3,065															
	8-Jun-22	6.5	3,191	7.46	3,600	2,690	1,800	250	1,400	290	490	150	140	42	<0.1	<0.01	36	30
	5-Aug-22	6.5	4,220	7.38	4,100	2,670	1,600	630	990	350	430	130	260	78	<0.1	<0.01	24	23
	28-Sep-22	6.7	4,550	7.67	4,500	3,170	1,800	750	1,000	340	480	130	300	80	0.11	0.149	25	23
	15-Nov-22	6.9	3,220	7.58	3,400	2,020	1,200	530	690	190	410	61	210	57	1.64	0.078	6.1	4.9
	22-Dec-22	6.7	2,840	7.38	2,900	1,610	1,000	520	390	220	290	61	200	53	<0.1	<0.01	6.5	5.7
	13-Jan-23	6.8	3,590															
	13-Feb-23	6.8	3,590															
	6-Mar-23	6.9	2,420	7.24	2,600	1,440	1,100	350	750	160	330	52	150	36	0.4	0.04	5.9	4.8
	5-Apr-23	6.6	2,520															
	15-Jun-23	6.6	3,400	7.31	3,400	2,570	1,500	350	1,000	280	330	150	190	50	<0.1	<0.01	31	34
	1-Aug-23	7.3	2,180	7.63	2,500	1,900	790	340	600	180	210	62	230	18	<0.1	<0.01	3.3	2.8
	25-Sep-23	6.8	5,010	7.57	5,300	3,590	1,900	930	1,500	340	500	150	540	31	3.35	0.036	3.4	3.1
	11-Dec-23	7.2	3,999	7.33	5,100	3,720	2,200	630	1,600	310	640	150	380	23	<0.1	<0.01	2.8	2
	11-Jan-24	7.4	3,270	7.40	4,200	2,600	1,600	640	990	270	470	100	370	59	<0.1	<0.01	2.9	2.3
	14-Feb-24	7.2	3,350															

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2g (cont'd)	26-Nov-20	0.021		11	42	0.0012	0.0023	0.048	1.2	0.00012	<0.005	0.01	0.75	<0.0005	0.57	<0.00001	0.042
	21-Dec-20	0.13		20	88	0.0019	0.0031	0.12	0.94	0.00079	<0.005	0.026	2.5	0.0036	0.76	0.00001	0.21
	22-Jan-21																
	11-Mar-21	0.058		19	67	0.0024	0.0016	0.068	0.45	0.00017	<0.005	0.022	1.3	0.002	0.56	0.00001	0.094
	29-Mar-21																
	14-Jun-21	0.041		7.3	31	<0.001	0.0042	0.052	1.2	0.00029	<0.005	0.013	2.8	0.0046	0.33	0.00001	0.14
	20-Jul-21																
	8-Sep-21																
	16-Sep-21	0.006		1.9	14	<0.001	0.0013	0.032	1.6	<0.00009	<0.005	0.0042	0.53	<0.0005	0.088	<0.00001	0.043
	23-Sep-21	0.007		6.8	28	<0.001	0.0031	0.022	1.5	<0.00009	<0.005	0.0097	0.39	0.0017	0.17	<0.00001	0.042
	18-Oct-21																
	1-Nov-21																
	6-Dec-21	0.089		8.1	38	<0.001	0.004	0.058	1.4	<0.00009	<0.005	0.0056	1.4	0.002	0.4	<0.00001	0.091
	17-Feb-22																
	16-Mar-22	0.24		9.9	64	0.0012	0.0021	0.16	0.3	<0.00009	0.01	0.018	2.4	0.011	0.64	0.00002	0.095
	4-May-22																
	8-Jun-22	0.16		15	53	0.0024	<0.001	0.13	0.56	<0.00009	<0.005	0.0044	0.82	0.0015	1.7	<0.00001	0.047
	5-Aug-22	0.014		16	50	0.0029	0.0023	0.079	0.92	0.00026	<0.005	0.016	0.43	<0.0005	1.4	<0.00001	0.057
	28-Sep-22	0.04		14	57	0.0014	0.0024	0.093	1.1	0.0007	<0.005	0.02	1.5	0.0044	1.3	0.00001	0.12
	15-Nov-22	0.045		10	40	0.001	0.0018	0.16	0.69	0.0013	<0.005	0.023	0.56	0.0038	0.35	<0.00001	0.12
	22-Dec-22	0.023		9.6	35	<0.001	0.0023	0.058	0.58	0.00038	<0.005	0.011	0.68	0.00076	0.49	<0.00001	0.056
	13-Jan-23																
	13-Feb-23																
	6-Mar-23	0.097		22	96	0.0018	0.0023	0.16	0.38	0.00038	<0.005	0.028	1.7	0.0083	0.4	0.00002	0.09
	5-Apr-23																
	15-Jun-23	0.011		17	56	0.0018	<0.001	0.067	0.54	<0.00009	<0.005	0.0029	0.57	<0.0005	1.6	<0.00001	0.033
	1-Aug-23	0.12		2.6	28	<0.001	0.0011	0.015	0.6	<0.00009	<0.005	0.0014	0.49	0.00058	0.077	<0.00001	0.13
	25-Sep-23	0.045		4.5	21	<0.001	0.0012	0.061	1.7	<0.00009	<0.005	0.0085	0.51	0.0012	0.13	<0.00001	0.04
	11-Dec-23	0.032		2.5	24	<0.001	0.002	0.14	1.2	<0.00009	<0.005	0.0054	1.3	0.0026	0.11	0.00001	0.013
	11-Jan-24	0.025		10	39	0.0022	0.002	0.13	0.99	0.0013	<0.005	0.013	0.74	0.0031	0.23	<0.0001	0.081
	14-Feb-24																

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO ₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO ₃	Nitrite NO ₂	TKN	Ammonia NH ₃
MHC2g (cont'd)	25-Mar-24	6.8	4,570	7.26	4,900	3,480	1,900	750	1,300	270	570	130	360	82	<0.1	<0.01	14	13
	9-Apr-24	6.3	5,010	7.15	4,900	3,120	1,900	880	1,000	310	570	120	390	95	<0.1	0.011	9.1	8.1
	3-Jun-24	6.9	3,920	7.58	4,900	3,830	1,900	860	1,200	340	500	160	390	67	<0.1	<0.01	23	20
	13-Jun-24	7.2	2,430	7.60	2,800	1,950	1,100	380	750	170	320	65	250	21	<0.1	<0.01	1.7	1.4
	22-Aug-24	6.9	980															
	16-Sep-24	7.0	1,910	7.41	5,200	3,920	1,900	930	1,400	330	500	150	500	39	0.88	0.024	2	1.2
	6-Nov-24			7.59	5,400	4,030	2,200	740	1,500	340	600	160	470	41	<0.1	0.013	2	1.3
	28-Nov-24	7.0	3,970	7.49	4,700	3,490	1,700	680	1,300	290	480	140	450	34	<0.1	<0.01	1.9	1.4
	12-Dec-24	7.2	3,950	7.55	4,400	3,220	1,500	650	1,300	280	400	120	440	39	0.13	0.013	1.3	0.66
	13-Mar-25	6.8	5,070	7.38	5,300	3,380	1,600	1,100	900	230	490	100	530	58	<0.1	<0.01	2.6	1.9
	2-Jun-25	6.7	2,860	7.55	3,900	2,500	1,400	610	1,000	230	400	92	350	27	<0.1	<0.01	3.7	2.9
	18-Sep-25	7.0	4,320	7.61	4,200	2,910	1,500	610	1,100	300	440	100	360	33	<0.1	<0.01	12	12
	15-Dec-25	6.9	3,999	7.40	5,900	4,180	2,100	1,000	1,300	340	560	170	500	34	<0.1	<0.01	1.6	1.2
MHC2a	29-Sep-16	6.8	4,350	7.73	5,500	4,670	2,100	870	1,500	310	570	150	410	24	<0.1	0.063	1	1.1
	8-Dec-16	7.2	6,400	7.61	6,100	4,660	2,500	1,100	1,600	300	610	180	540	28	<0.1	<0.01	2.2	1.3
	20-Mar-17	7.4	5,900	7.51	6,000	4,300	2,300	940	1,500	290	530	160	510	27	<0.1	<0.01	1.2	1.4
	26-Jun-17	7.4	5,250	7.67	5,200	4,040	2,000	830	1,600	300	580	160	520	29	<0.1	<0.01	1.5	1.4
	26-Sep-17	6.8	4,980	7.56	5,100	3,730	2,000	720	1,500	310	550	160	460	27	<0.1	<0.01	1.6	1.4
	7-Dec-17	7.3	4,420	7.58	5,100	3,140	2,000	730	1,400	330	480	150	430	25	<0.1	<0.01	1.5	1.3
	23-Mar-18	7.1	4,770	8.05	5,200	3,450	1,900	800	1,400	330	510	160	430	25	<0.1	<0.01	1.5	1.2
	26-Jun-18	7.2	4,480	7.55	5,000	3,830	1,800	710	1,400	330	500	140	410	25	<0.1	<0.01	1.5	1.3
	25-Sep-18	7.1	4,760	7.40	5,100	4,050	2,200	790	1,400	320	520	160	450	29	<0.1	<0.01	1.4	1.5
	4-Dec-18	7.0	4,330	7.62	5,400	3,960	2,100	840	1,500	320	540	170	500	26	<0.1	<0.01	1.4	1.4
	14-Mar-19	7.2	4,540	7.60	4,900	3,560	1,800	730	1,400	320	520	150	430	25	<0.1	<0.01	1.4	1.2
	18-Jun-19	6.8	4,540	7.73	4,600	3,620	1,800	710	1,400	310	530	150	420	25	<0.1	<0.01	1.3	1.2
	16-Sep-19	6.8	3,980	7.72	4,600	3,440	1,800	650	1,300	320	490	150	400	25	<0.1	<0.01	1.6	1.3
	6-Dec-19	7.0	2,450	7.49	4,700	3,320	1,900	670	1,300	330	520	160	420	26	<0.1	<0.01	1.5	1.3
	10-Mar-20	7.2	4,530	7.45	4,500	3,180	1,800	620	1,200	320	480	150	380	22	<0.1	<0.01	1.2	1.2
	26-Jun-20	6.9	4,450	7.41	4,300	3,380	1,800	600	1,200	320	480	140	360	23	<0.1	<0.01	1.6	1.3
	25-Sep-20	6.9	4,370	7.63	4,700	3,470	1,900	710	1,400	320	520	160	420	27	<0.1	<0.01	8.3	1.5
	21-Dec-20	6.9	4,550	7.36	4,900	3,880	2,100	750	1,300	330	580	180	430	26	<0.1	<0.01	1.3	1

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2g (cont'd)	25-Mar-24	0.037		11	60	<0.001	<0.001	0.19	0.82	<0.00009	<0.005	0.0032	0.89	0.003	0.83	0.00001	0.049
	9-Apr-24	0.036		11	62	0.0012	0.0037	0.21	0.72	0.00034	<0.005	0.0073	3.2	0.0029	0.8	0.00001	0.064
	3-Jun-24	0.037		11	50	0.0015	<0.001	0.12	0.95	<0.00009	<0.005	0.0065	2	<0.0005	1.1	0.00002	0.018
	13-Jun-24	0.018		2.8	9	<0.001	0.0013	0.04	0.5	<0.00009	<0.005	0.0013	0.64	0.0011	0.081	<0.00001	0.019
	22-Aug-24																
	16-Sep-24	0.043		3.9	21	<0.001	0.0036	0.04	1.4	<0.00009	<0.005	<0.0009	1.6	<0.0005	0.076	<0.00001	0.012
	6-Nov-24	0.023		3.3	32	<0.001	<0.001	0.082	1.3	9.8E-05	<0.005	0.0022	3	0.0011	0.13	<0.00001	0.016
	28-Nov-24	0.03		6.4	38	<0.001	0.0029	0.041	1.4	<0.00009	<0.005	0.0014	3.6	0.0006	0.13	<0.00001	0.022
	12-Dec-24	0.016		7	38	<0.001	0.0035	0.046	1.2	<0.00009	<0.005	<0.0009	1.8	0.00052	0.11	<0.00001	0.0092
	13-Mar-25	0.08		9.8	41	0.0019	0.0092	0.095	0.68	<0.00009	<0.005	0.001	3.9	0.00069	0.27	<0.00001	0.011
	2-Jun-25	0.019		5	29	0.0012	0.002	0.073	0.79	<0.00009	<0.005	0.0018	0.81	0.00091	0.17	<0.00001	0.0074
	18-Sep-25	0.24		6.2	30	0.001	<0.001	0.051	0.78	<0.00009	<0.005	<0.0009	0.24	<0.0005	0.31	<0.00001	0.026
	15-Dec-25	0.085		1.9	13	<0.001	0.0031	0.034	1.4	<0.00009	<0.005	<0.0009	2.1	<0.0005	0.078	<0.00001	0.01
MHC2a	29-Sep-16	0.006		2	16	<0.001	0.0015	0.03	1.2	<0.0001	<0.005	0.0032	4.8	<0.0005	0.1	<0.00001	<0.01
	8-Dec-16	0.007		1.5	59	<0.001	0.0016	0.028	1.5	<0.0001	<0.005	<0.001	1.4	<0.0005	0.091	<0.00001	0.027
	20-Mar-17	<0.004		1.3	20	<0.001	0.0015	0.024	1.5	<0.0001	<0.005	<0.002	1.5	<0.0005	0.11	<0.00001	<0.01
	26-Jun-17	0.005		1.3	12	<0.001	0.0024	0.024	1.5	<0.0001	<0.005	0.0041	2.1	<0.0005	0.11	<0.00001	0.011
	26-Sep-17	0.018		1.4	16	<0.001	0.003	0.023	1.5	<0.0001	<0.005	0.0017	2.2	<0.0005	0.091	<0.00001	0.016
	7-Dec-17	0.004		1.3	10	<0.001	0.0046	0.023	1.3	<0.0001	<0.005	<0.001	3.1	0.00056	0.092	<0.00001	0.047
	23-Mar-18	<0.004		1.3	11	<0.001	0.0031	0.024	1.4	<0.0001	<0.005	0.0015	3.2	0.0009	0.11	<0.00001	0.12
	26-Jun-18	<0.004		1.3	8	<0.001	0.0032	0.024	1.5	<0.0001	<0.005	<0.001	2.4	0.00064	0.081	<0.00001	0.064
	25-Sep-18	<0.004		1.5	11	<0.001	0.0036	0.027	1.4	<0.0001	<0.005	0.0016	2.4	0.00057	0.08	<0.00001	0.063
	4-Dec-18	<0.004		1.3	8	<0.001	0.002	0.027	1.4	<0.0001	<0.005	<0.001	1.7	<0.0005	0.11	<0.00001	0.016
	14-Mar-19	<0.004		1.3	11	<0.001	0.0031	0.024	1.5	<0.0001	<0.005	<0.001	2.5	<0.0005	0.088	<0.00001	0.019
	18-Jun-19	0.004		1.5	14	<0.001	0.0027	0.022	1.3	<0.0001	<0.005	<0.001	1.7	<0.0005	0.12	<0.00001	0.0091
	16-Sep-19	<0.004		1.4	4	<0.001	0.0034	0.024	1.3	<0.0001	<0.005	<0.001	2.1	<0.0005	0.083	<0.00001	0.012
	6-Dec-19	0.023		1.8	15	<0.001	0.0061	0.03	1.4	<0.0001	<0.005	<0.001	4.4	<0.0005	0.1	<0.00001	0.025
	10-Mar-20	<0.008		1.8	14	<0.001	0.0027	0.023	1	<0.0001	<0.005	<0.001	2.2	<0.0005	0.13	<0.00001	0.033
	26-Jun-20	0.005		1.4	10	<0.001	0.0031	0.023	1.2	<0.00009	<0.005	0.0013	2	<0.0005	0.08	<0.00001	0.014
	25-Sep-20	0.52		2	150	<0.001	0.0073	0.027	1.4	<0.00009	<0.005	0.0038	4.9	<0.0005	0.082	<0.00001	0.052
	21-Dec-20	<0.004		1.8	13	<0.001	0.0022	0.028	1.3	<0.00009	<0.005	0.015	1.9	0.00065	0.17	<0.00001	0.06

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Field		General Parameters				Major Ions							Nutrients and Organic Indicators			
		pH (s u)	EC (µS/cm)	pH (s u)	EC (µS/cm)	TDS	Hardness	Chloride Cl	Sulphate SO₄	Alkalinity	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Nitrate NO₃	Nitrite NO₂	TKN	Ammonia NH₃
MHC2a (cont'd)	17-Mar-21	7.0	4,800	7.63	5,000	3,580	1,900	780	1,400	320	490	170	440	27	<0.1	<0.01	1.3	1.2
	10-Jun-21	6.9	4,360	7.71	4,900	3,440	1,900	710	1,300	330	500	150	410	25	<0.1	<0.01	1.4	1.3
	23-Sep-21	6.9	5,074	7.97	4,400	3,530	1,800	640	1,400	320	520	150	420	28	<0.1	<0.01	1.9	1.2
	7-Dec-21	7.2	4,006	7.63	4,600	3,230	1,800	630	1,300	320	490	150	390	26	<0.1	<0.01	1.4	1.2
	23-Mar-22	6.9	5,255	7.50	4,700	3,110	1,900	670	1,400	340	500	150	380	22	<0.1	<0.01	1.5	1.1
	9-Jun-22	7.0	4,379	7.60	4,700	3,650	1,800	690	1,300	310	460	150	390	25	<0.1	<0.01	1.7	1.3
	28-Sep-22	6.9	4,620	8.12	4,500	3,060	1,800	640	1,400	300	490	140	360	23	<0.1	<0.01	1.6	1.2
	28-Dec-22	7.3	4,580	7.71	4,500	3,130	2,000	630	1,300	330	450	150	390	23	<0.1	<0.01	1.8	1.2
	22-Mar-23	7.1	4,670	7.60	4,600	3,070	1,800	650	1,400	320	500	160	410	24	<0.1	<0.01	1.7	1.1
	30-Jun-23	7.0	3,870	7.73	4,500	3,530	1,800	600	1,200	310	500	150	410	26	<0.1	<0.01	1.8	1.4
	27-Sep-23	7.2	2,050	7.47	4,200	3,160	1,800	640	1,300	310	500	150	410	26	<0.1	0.098	1.7	1.3
	11-Dec-23	7.5	3,660	7.57	4,600	3,250	1,900	580	1,200	320	460	150	370	25	<0.1	<0.01	1.7	1.1
	7-Mar-24	7.3	4,570	7.25	4,700	3,410	1,900	720	1,400	320	480	160	390	25	<0.1	<0.01	1.7	1.2
	12-Jun-24	6.9	3,750	7.74	4,500	3,460	1,800	660	1,400	340	490	150	390	25	<0.1	<0.01	1.4	1.2
	16-Sep-24	7.0	1,850	7.32	4,700	3,690	1,900	740	1,400	320	500	150	420	27	<0.1	<0.01	2	1.4
	12-Dec-24	8.0	4,100	7.60	4,600	3,560	1,900	680	1,400	340	500	150	390	27	<0.1	<0.01	1.5	1.1
	17-Mar-25	7.1	4,140	6.96	4,200	3,470	1,900	630	1,300	390	490	160	380	24	<0.1	<0.01	1.3	0.95
	9-Jun-25	7.2	4,230	7.71	4,700	3,440	1,800	840	1,100	360	450	160	410	21	<0.1	<0.01	0.99	0.91
	18-Sep-25	7.1	5,800	7.66	5,500	4,270	2,100	940	1,300	330	530	180	450	31	<0.1	<0.01	1.8	1.5
	15-Dec-25	6.9	3,999	7.36	5,700	4,080	2,100	980	1,300	330	550	180	480	29	<0.1	<0.01	1.6	1.1

Table G-3 Groundwater Collection System Sub-liner Chemical Results

Monitor / Flow Zone	Date	Nutrients and Organic Indicators					Dissolved Metals										
		Total Phosphorus	B O D	D O C	C O D	Phenols	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Zinc
							As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Zn
MHC2a (cont'd)	17-Mar-21	<0.004		1.4	17	<0.001	0.0031	0.028	1.3	<0.00009	<0.005	0.0028	3.8	0.0016	0.11	<0.00001	0.2
	10-Jun-21	<0.004		1.3	7	<0.001	0.0026	0.023	1.3	<0.00009	<0.005	0.0086	1.5	<0.0005	0.074	<0.00001	<0.005
	23-Sep-21	0.006		1.2	14	<0.001	0.0042	0.027	1.4	<0.00009	<0.005	<0.0009	2.3	0.00067	0.069	<0.00001	0.018
	7-Dec-21	0.007		1.3	12	<0.001	0.0023	0.026	1.3	<0.00009	<0.005	0.00096	1.6	<0.0005	0.073	<0.00001	0.02
	23-Mar-22	0.005		1.5	20	<0.001	0.0022	0.024	1.1	<0.00009	<0.005	0.0059	1.7	<0.0005	0.16	<0.00001	0.0075
	9-Jun-22	<0.004		1.5	7	<0.001	0.0026	0.024	1.3	<0.00009	<0.005	<0.0009	1.7	<0.0005	0.081	<0.00001	<0.005
	28-Sep-22	<0.004		1.4	11	<0.001	0.0032	0.024	1.2	<0.00009	<0.005	<0.0009	1.8	<0.0005	0.061	<0.00001	0.0087
	28-Dec-22	0.007		1.6	13	<0.001	0.0029	0.025	1.3	<0.00009	<0.005	0.0056	1.9	<0.0005	0.092	<0.00001	<0.005
	22-Mar-23	<0.004		1.5	13	<0.001	0.0031	0.024	1.3	<0.00009	<0.005	0.006	2.2	<0.0005	0.11	<0.00001	0.0059
	30-Jun-23	0.01		1.5	12	0.0015	0.0041	0.024	1.5	<0.00009	<0.005	<0.0009	2.2	<0.0005	0.072	<0.00001	0.0071
	27-Sep-23	0.023		1.5	11	<0.001	0.015	0.028	1.3	<0.00009	<0.005	0.0011	12	0.0014	0.065	<0.0015	0.017
	11-Dec-23	0.035		1.7	11	<0.001	0.002	0.026	1.4	<0.00009	<0.005	0.0018	1.1	<0.0005	0.071	<0.00001	0.029
	7-Mar-24	0.004		1.6	14	<0.001	0.0031	0.026	1.2	<0.00009	<0.005	0.002	2.7	<0.0005	0.09	<0.00001	0.0099
	12-Jun-24	0.005		1.6	<4.0	<0.001	0.0031	0.025	1.3	<0.00009	<0.005	<0.0009	1.6	<0.0005	0.065	<0.00001	0.065
	16-Sep-24	0.28		1.5	27	<0.001	0.1	0.038	1.5	<0.00009	<0.005	0.0028	99	0.0043	0.096	<0.0015	0.09
	12-Dec-24	0.009		1.4	22	<0.001	0.0016	0.024	1.3	<0.00009	<0.005	<0.0009	0.98	<0.0005	0.062	<0.00001	0.012
	17-Mar-25	0.014		1.5	11	<0.001	0.0016	0.026	1.1	<0.00009	<0.005	<0.0009	1.3	<0.0005	0.1	<0.00001	0.0088
	9-Jun-25	0.013		2.4	11	<0.001	0.002	0.024	0.78	<0.00009	<0.005	0.00094	2.2	<0.0005	0.12	<0.00001	<0.005
	18-Sep-25	0.038		2.5	4	<0.001	0.0038	0.027	1.4	<0.00009	<0.005	<0.0009	2.3	<0.0005	0.059	<0.00001	0.0085
	15-Dec-25	0.064		1.4	7	<0.001	0.002	0.029	1.3	<0.00009	<0.005	<0.0009	1.5	<0.0005	0.074	<0.00001	0.019

