November 28, 2025

Alberta Transportation and Economic Corridors
Main Floor, Provincial Building
9621 – 96th Avenue
Peace River, Alberta
T8S 1T4

Robert Senior
Construction Technologist

Dear Mr. Senior:

CON0022166 Peace Region (Grande Prairie District – South) GRMP Instrumentation Monitoring Site GP028; H43:12, km 34.473 Two Creeks
Section C – 2025 Fall Readings

1 GENERAL

Six vibrating wire piezometers (VWPs) (VWP15-13U/L, MW14-6, MW15-12, PW14-2, and PW15-3), seven standpipe piezometers (SPs) (SP02-05, SP02-07, SP14-2, MW14-3, MW14-8, MW14-10, and MW14-11), two monitoring wells (MW14-7 and MW14-9), one pumping well (PW14-1) were read at the GP028 site in the Peace Region (Grande Prairie District – South) (GP South Region) on September 3, 2025 by Evan Hergott, E.I.T. and Katrina Cereno, E.I.T. of KCB. Four VWPs (MW14-6, PW14-2, PW15-3 and MW15-12) were reread by Evan Hergott on September 24, 2025. These instruments were read as part of the GP South Region Geohazard Risk Management Program (GRMP). The site is located on Hwy 43:12, km 34.473. The approximate site coordinates are 6017213 N, 544193 E (UTM Zone 11, NAD 83). A site plan is presented on Figure 1.

The geohazard at the GP028 site consists of a landslide with a backscarp that extends through the south (eastbound) lanes of Hwy 43:12 and toes out in Two Creeks. High groundwater levels are also impacting the pavement subgrade/surface. The site is located north (upslope) of Two Creeks.

Previous remedial actions completed at the GP028 site include the installation of 1-m-deep pavement drains below the eastbound lane and a 315-m-long subdrain in the median in 2003. The subdrain is approximately 2.5 m deep, 400 mm in diameter, and outlets via a culvert, beneath the south lane of Hwy 43:12, that eventually drains into Two Creeks. In 2015, two pumps were installed in pumping wells that discharge water into the same subdrain outlet, a remote monitoring station was installed, and Class 2 riprap was keyed-in along a 100 m length of the creekbank to protect it from erosion.

Between 2002 and 2015, several geotechnical site investigations, which included installing instruments, were conducted at the site by the previous consultants. The encountered stratigraphy has not been provided to KCB.

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1.1 Instrumentation

KCB has been reading the instruments at this site since the spring of 2021. Instrumentation installation details are tabulated in Table 1.1. Instrument locations are shown on Figure 1. Any instruments not included in Table 1.1 or shown on Figure 1 are assumed to be inoperable and are not presented or discussed herein.

Between 2002 and 2015, several slope inclinometers (SIs), piezometers, and wells were installed at the site by the previous consultants to monitor movement and groundwater conditions, respectively. A barologger was also installed in 2014. Some of these instruments are now inoperable (e.g., sheared or damaged), as detailed in Table 1.1 (see table notes). Recommendations for maintenance or replacement are made in Section 3.

During the fall 2025 readings, the data logger connected to VW15-13U (VWP) and the Levelogger installed in MW14-11 (SP) were both found to be inoperable. KCB was able to repair the data logger and reconnect it to VW15-13U, but not the Levelogger installed in MW14-11. A replacement LeveLogger is not currently recommended for MW14-11 because the instrument is located approximately 150 m east of the site and MW14-10 (SP) installed at the same location is still operable.

The operable instruments are protected by above-ground casing protectors.

The operable VWPs were read using RST Instruments DT Logger Host software and Campbell Scientific Device Configuration software. It is noted that the remotely-monitored VWPs cannot be accessed remotely right now, likely due to a change in service provider. Until this issue is resolved, KCB will continue to manually download the data from these instruments. The operable SPs with Solinst Leveloggers installed in them were read using a Solinst PC Interface Cable and Solinst Levelogger software. The remaining operable SPs were read using a Heron Water Level Meter.

Table 1.1 Instrumentation Installation Details[1]

Instrument Type	Instrument ID	Date Installed	UTM Coordinates (m)		Ground Surface Elevation (m)	Stick Up (m)	Depth (mbgs[2])	Condition
			Northing	Easting				
SI	~~SI02-01~~	~~Sep. 11, 2002~~	~~Unknown~~					~~Inoperable[6]~~
	~~SI02-02~~	~~Sep. 12, 2002~~	~~6017223~~	~~544356~~	~~851.9~~	~~0.7~~	~~14.6[6]~~	~~Inoperable[7]~~
	~~SI02-03~~	~~Sep. 12, 2002~~	~~Unknown~~					~~Inoperable[6]~~
	~~SI15-13~~	~~Oct. 15, 2015~~	~~6017220~~	~~544327~~	~~850.2~~	~~Unknown~~		~~Inoperable[6]~~
VWP[3]	VW15-13U	Oct. 15, 2015	6017220	544327	850.2	N/A	13.7	Operable
	VW15-13L					N/A	18.3	Operable
VWP[4]	MW14-6	2014	6017259[4]	544435[4]	856.0	N/A	15.3	Operable
	MW15-12	2015			858.2	N/A	27.1	Operable
	PW14-2	2014			856.3	N/A	18.0	Operable
	PW15-3	2015			857.0	N/A	26.9	Operable
SP	~~SP02-01~~	~~Sep. 13, 2002~~	~~Unknown~~					~~Inoperable[7]~~
	~~SP02-02~~	~~Sep. 11, 2002~~	~~Unknown~~					~~Inoperable[7]~~
	~~SP02-03~~	~~Sep. 11, 2002~~	~~Unknown~~					~~Inoperable[7]~~
	~~SP02-04~~	~~Sep. 12, 2002~~	~~Unknown~~					~~Inoperable[7]~~
	SP02-05	Sep. 11, 2002	6017232	544367	854.0	0.8	12.4	Operable
	~~SP02-06~~	~~Sep. 11, 2002~~	~~Unknown~~					~~Inoperable[7]~~
	SP02-07	Sep. 12, 2002	6017214	544358	851.2	0.7	6.6	Operable
	~~SP02-08~~	~~Sep. 12, 2002~~	~~6017195~~	~~544351~~	~~849.8~~	~~0.8~~	~~6.9~~	~~Inperable[10]~~
	SP14-2	2014	6017298	544055	839.3	1.0	8.8	Operable
SP[5]	MW14-3	2014	6017279	544221	845.0	-	7.0	Operable
	~~MW14-4~~	~~2014~~	~~6017264~~	~~544350~~	~~851.7~~	-	~~10.1~~	~~Inoperable[8]~~
	~~MW14-5~~	~~2014~~	~~6017264~~	~~544354~~	~~851.7~~	-	~~6.9~~	~~Inoperable[8]~~
	MW14-8	2014	6017247	544513	861.2	-	12.1	Operable
	MW14-10	2014	6017231	544671	870.7	-	12.8	Operable
	~~MW14-11~~	~~2014~~	~~6017232~~	~~544668~~	~~870.7~~	~~-~~	~~27.1~~	~~Inoperable[12]~~
~~Barologger~~	~~BW14-10~~	~~2014~~	~~6017231~~	~~544671~~	~~870.7~~	~~N/A~~	~~N/A~~	~~Inoperable[9]~~
Pumping Well	PW14-1	2014	6017250	544423	855.5	0.6	17.5	Operable
Monitoring Well	MW14-7	2014	6017258	544431	856.0	1.1	11.9	Operable
	MW14-9	2014	6017247	544521	861.2	1.0	6.1	Operable

Notes:
[1] Instrument installation details were taken from reports and data files prepared or provided by the previous consultant(s) or TEC. Instrument coordinates and stick ups (where applicable) were confirmed by KCB using a handheld GPS (accuracy of ± 5 m) and tape measure, respectively.
[2] Meters below ground surface (mbgs). Bottom reading depth for SIs, and tip or screen depth for piezometers.
[3] VW15-13U/L are connected to single-channel data loggers (Model No. DT2011B from RST Instruments Ltd.), which are programmed to record a reading of the instruments every two hours.
[4] MW14-6, PW14-2, PW15-3, MW15-12 are connected to a multi-channel data logger (Model CR6 from Campbell Scientific), which is programmed to record a reading of the instruments every two hours. The data logger is installed at the central monitoring station located in the highway median. The coordinates given for the instruments are for the location of the central monitoring station.
[5] Solinst Leveloggers are installed in MW14-3/4/5/8/10/11. The loggers are programmed to record a reading of the instruments every two hours.
[6] SI02-1, SI02-2, SI02-3, and SI15-13 have sheared at an approximate depth of 13.0 m, 15.7 m, 14.0 m, and 14.6 m below ground surface, respectively.
[7] SP-01 through SP-04, and SP-06 were reported as inoperable by a previous consultant.
[8] On March 24, 2021, the protective head boxes for MW14-4 and MW14-5 were struck by a vehicle, leaving MW14-4 inoperable. MW14-5 was inoperable during the spring 2024 readings.
[9] BW14-10 could not be read in 2022 or 2023 and was removed from site. Previously, BW14-10 was in the head box for MW14-10. The instrument is being temporarily stored at the KCB Edmonton Office.
[10] SP02-08 is pinched at an approximate depth of 2.0 m below ground surface. Camera inspection completed during the spring 2025 readings. Instrument last read in May 2024.
[12] Levelogger in MW14-11 was inoperable during the fall 2025 readings.

2 INTERPRETATION

2.1 General

For the operable PNs and VWPs, the recorded porewater pressures were converted to an equivalent water/piezometric elevation and plotted relative to ground surface elevation and the tip elevation for each instrument.

For the operable SPs and monitoring/pumping wells, the water level data was plotted relative to ground surface elevation and the screen elevation for each instrument.

The SI and piezometer data plots are included in Appendix I, and a summary of the SI and piezometer data is provided in Table 2.1 through Table 2.3.

In 2021, KCB reviewed the instrumentation data provided by the previous consultant and removed corrections applied to the historical SI data based on our experience. The instrumentation data obtained by KCB is consistent with the data obtained by the previous consultant. No re-initialization of the SI is recommended. The SI data plots presented herein include data for readings taken with both the previous consultants' and KCB's SI reading equipment.

2.2 Zones of Movement

SI02-1, SI02-2, and SI02-3 have sheared at an approximate depth of 13.0 m, 15.7 m, and 14.0 m below ground surface, respectively.

Table 2.1 Vibrating Wire Piezometer Summary

Instrument ID	Serial No.	Date			Ground Surface Elevation (m)	Tip Depth (mbgs[1])	Water Level		
		Installed	Previous Reading	Most Recent Reading			Previous Reading (mbgs[1])	Most Recent Reading (mbgs[1])	Change from Previous Reading (m)
VW15-13U[2]	34611	2015	Jun. 02, 2025	Sep. 03, 2025	850.2	13.7	5.8	5.9	-0.1
VW15-13L[2]	34612					18.3	N/A – instrument is dry		
MW14-6[3]	34613	2014			856.0	15.3	7.5	3.5	4.0
MW15-12[3]	34616	2015			858.2	27.1	19.9	17.2	2.7
PW14-2[3,]	34615	2014			856.3	18.0	7.8	3.8	4.0
PW15-3[3]	34614	2015			857.0	26.9	18.7	3.7	15.0

Notes:
[1] Meters below ground surface (mbgs).
[2] VW15-13U and -13L are connected to single-channel data loggers, which are programmed to record a reading of the instruments every two hours.
MW14-6, PW14-2, PW15-3, MW15-12 are connected to a multi-channel data logger, which is programmed to record a reading of the instruments every two hours.

Table 2.2 Standpipe Piezometer, Monitoring Well, and Pumping Well Reading Summary

Instrument ID	Instrument Type	Date			Ground Surface Elevation (m)	Screen Depth (mbgs[1])	Water Level		
		Installed	Previous Reading	Most Recent Reading			Previous Reading (mbgs[1])	Most Recent Reading (mbgs[1])	Change from Previous Reading (m)
SP02-05	SP	2002	Jun. 02, 2025	Sep. 03, 2025	854.0	12.4	5.6	4.8	0.6
SP02-07	SP	2002			851.2	6.6	3.3	2.7	0.6
SP14-2	SP	2014			839.3	8.8	1.4	2.1	-0.7
MW14-7	Monitoring Well	2014			856.0	11.9	7.5	7.5	0.0
MW14-9	Monitoring Well	2014			861.2	6.1	1.7	1.9	-0.2
PW14-1	Pumping well	2014			855.5	17.5	7.3	7.0	0.3

Notes:
[1] Meters below ground surface (mbgs).

Table 2.3 Levelogger Reading Summary[1]

Instrument ID	Serial No.	Date			Ground Surface Elevation (m)	Screen Depth (mbgs[2])	Water Level		
		Installed	Previous Reading	Most Recent Reading			Previous Reading (mbgs[2])	Most Recent Reading (mbgs[2])	Change from Previous Reading (m)
MW14-3	62053343	2014	Jun. 02, 2025	Sep. 03, 2025	845.0	7.0	2.1	1.6	0.5
MW14-8	62053315	2014			861.2	12.1	3.3	3.8	-0.5
MW14-10	62053298	2014			870.7	12.8	9.3	9.5	-0.2

Notes:
[1] Solinst Leveloggers are installed in MW14-3/8/10/11. The loggers are programmed to record a reading of the instruments every two hours.
[2] Meters below ground surface (mbgs).

2.3 Interpretation of Monitoring Results

Since mid-August 2025, an increase in porewater pressure/water level (up to approximately 15 m) was recorded in the VWPs connected to the central monitoring station (PW14-2, MW14-6, PW15-3, and MW15-12). This increase, similar to the increase recorded between fall 2017 and fall 2020, is believed to be caused by the pumping wells not being operational. The pumping wells should be inspected and repaired before the onset of winter, so water levels can decrease before the ground freezes. It is noted that last time high water levels were recorded in these instruments, an increase in water level was also recorded in MW14-7 (monitoring well) and PW14-1 (pumping well), but an increase has yet to be recorded in these instruments at this time.

The water level recorded in MW14-8 has been decreasing since the spring 2024 readings, which is inconsistent with water levels recorded in the other nearby instruments and could be an indication this instrument is failing. This instrument should continue to be monitored.

Overall, water levels recorded in the remaining instruments appear to be either relatively steady, fluctuating seasonally (with the spring/summer readings typically higher than the fall/winter readings), or dry (i.e., water level at or below instruments tip elevation). Occasionally “spikes” in water level of over 1 m are recorded in PW14-2, MW14-6, PW15-3, and MW15-12 for short periods of time (i.e., less than a day). These spikes have been removed from the data plots because KCB suspects these readings are due to connectivity issues between the data logger and instrument.

3 RECOMMENDATIONS

3.1 Future Work

All operable instruments should continue to be read twice per year (spring and fall). Spring readings should be completed after late-May or early-June, due to the risk of water inside the instrument casings being frozen earlier in the year.

The site should continue to be inspected by the Maintenance Contract Inspector (MCI) and as part of the GP South Region GRMP Section B inspections.

3.2 Instrument Installs, Repairs, and Maintenance

As discussed in Section 2.3, the pumping wells should be inspected and repaired before the onset of winter, so water levels can decrease before the ground freezes. A plan for routine inspections and maintenance of the pumps should be developed.

All the SIs installed at this site have sheared. Visual site observations made by KCB during inspections and instrument readings have not indicated any movement currently impacting the pavement surface. If site conditions were to deteriorate, replacement SIs could be considered but they are not recommended at this time.

The barologger (BW14-10) could not be read in 2022 or 2023 and was removed from site. The instrument is being temporarily stored at the KCB's Edmonton Office. It should be repaired or replaced.

MW14-5, which was previously struck by a vehicle in March 2021, could potentially be repaired by removing the headbox, cutting back the casing, installing a new Solinst Levelogger or removing and repairing the existing Solinst Levellogger, which is currently not working and stuck in the casing below where it is bent.

4 CLOSING

This report is an instrument of service of Klohn Crippen Berger (KCB). The report has been prepared for the exclusive use of Alberta Transportation and Economic Corridors (Client) for the specific application to the Peace Region (Grande Prairie District – South) Geohazard Risk Management Program (Contract No. CON0022166), and it may not be relied upon by any other party without KCB's written consent.

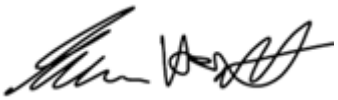
KCB has prepared this report in a manner consistent with the level of care, skill and diligence ordinarily provided by members of the same profession for projects of a similar nature at the time and place the services were rendered. KCB makes no warranty, express or implied.

Use of or reliance upon this instrument of service by the Client is subject to the following conditions:

1. The report is to be read in full, with sections or parts of the report relied upon in the context of the whole report.
2. The observations, findings and conclusions in this report are based on observed factual data and conditions that existed at the time of the work and should not be relied upon to precisely represent conditions at any other time.
3. The report is based on information provided to KCB by the Client or by other parties on behalf of the client (Client-supplied information). KCB has not verified the correctness or accuracy of such information and makes no representations regarding its correctness or accuracy. KCB shall not be responsible to the Client for the consequences of any error or omission contained in Client-supplied information.
4. KCB should be consulted regarding the interpretation or application of the findings and recommendations in the report.
5. This report is electronically signed and sealed and its electronic form is considered the original. A printed version of the original can be relied upon as a true copy when supplied by the author or when printed from its original electronic file.

Yours truly,

KLOHN CRIPPEN BERGER LTD.

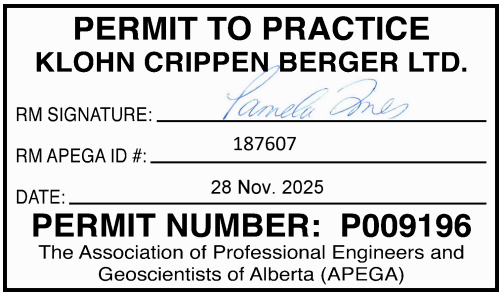


Courtney Mulhall, M.Sc., P.Eng.
Geotechnical Engineer

Evan Hergott, E.I.T.
Civil Engineer-in-Training

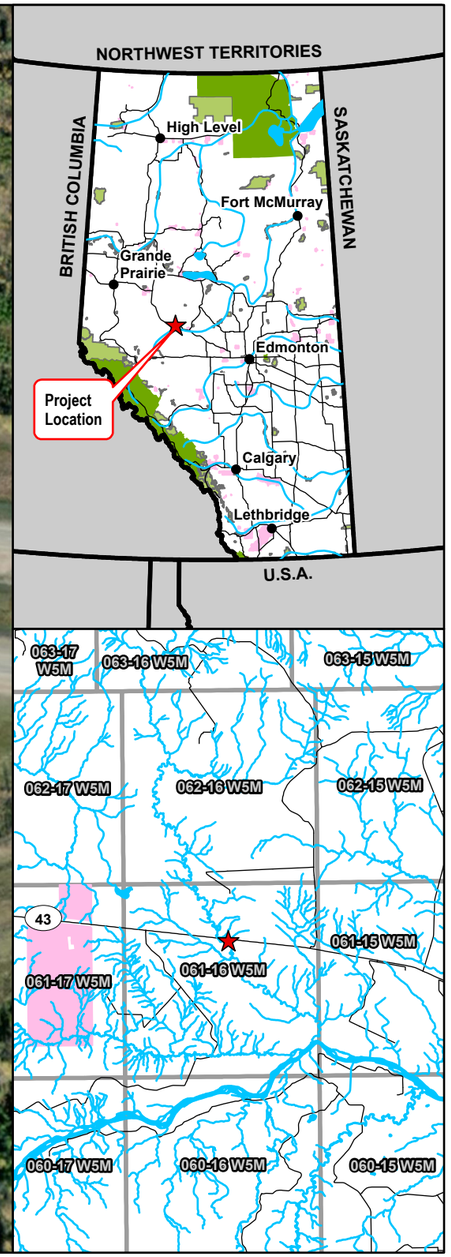
CM/EH:bb

Cc: Chris Gräpel, M.Eng., P.Eng.



ATTACHMENTS
Figure
Appendix I Instrumentation Plots

FIGURE



Legend

- Pneumatic Piezometer (PN)
- Slope Inclinometer (SI)
- Standpipe Piezometer (SP)
- Standpipe Piezometer (PW or MW)
- Levelogger (MW)
- Monitoring Well (MW)
- Pumping Well (PW)
- Vibrating Wire Piezometer (VW)
- Vibrating Wire Piezometer (PW or MW)
- Flow Direction
- Watercourse

0 150 Metres

NOTES:
1. HORIZONTAL DATUM: NAD83
2. GRID ZONE: UTM ZONE 11N
3. IMAGE SOURCE: 2025 MICROSOFT CORPORATION, 2025 MAXAR CNES, DISTRIBUTION AIRBUS DS
4. STRIKETHROUGH INDICATES INSTRUMENT IS INOPERABLE. INSTRUMENT LOCATIONS APPROXIMATE. INSTRUMENTS INOPERABLE PRIOR TO 2021 MAY NOT BE SHOWN.

CLIENT: Alberta

Klohn Crippen Berger

PROJECT: PEACE REGION (GRANDE PRAIRIE DISTRICT-SOUTH) GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE: Site Plan
GP028 - Two Creeks
Hwy 43:12, km 34.473

SCALE	PROJECT No.	FIG No.
1:2,500	A05116A01	1

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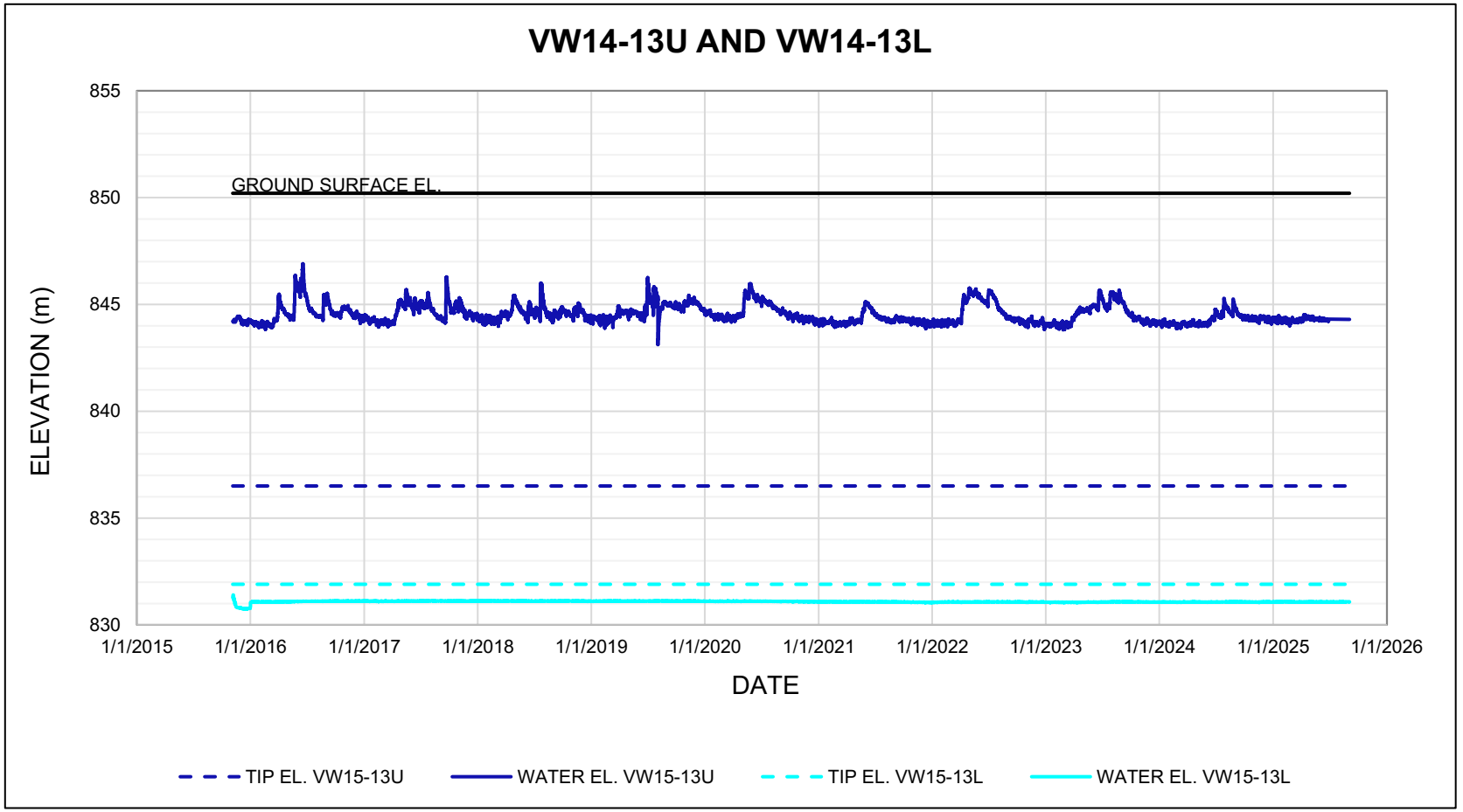
APPENDIX I

Instrumentation Plots



NOTES:
1. PIEZOMETER DATA OBTAINED BEFORE JUNE 29, 2021, PROVIDED TO KLOHN CRIPPEN BERGER LTD. (KCB) BY ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS (TEC) ON JUNE 25, 2021.
2. INSTRUMENTS CONNECTED TO SINGLE-CHANNEL DATA LOGGERS.

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GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
PIEZOMETER DATA
GP028 - TWO CREEKS
HWY 43:12, KM 34.473

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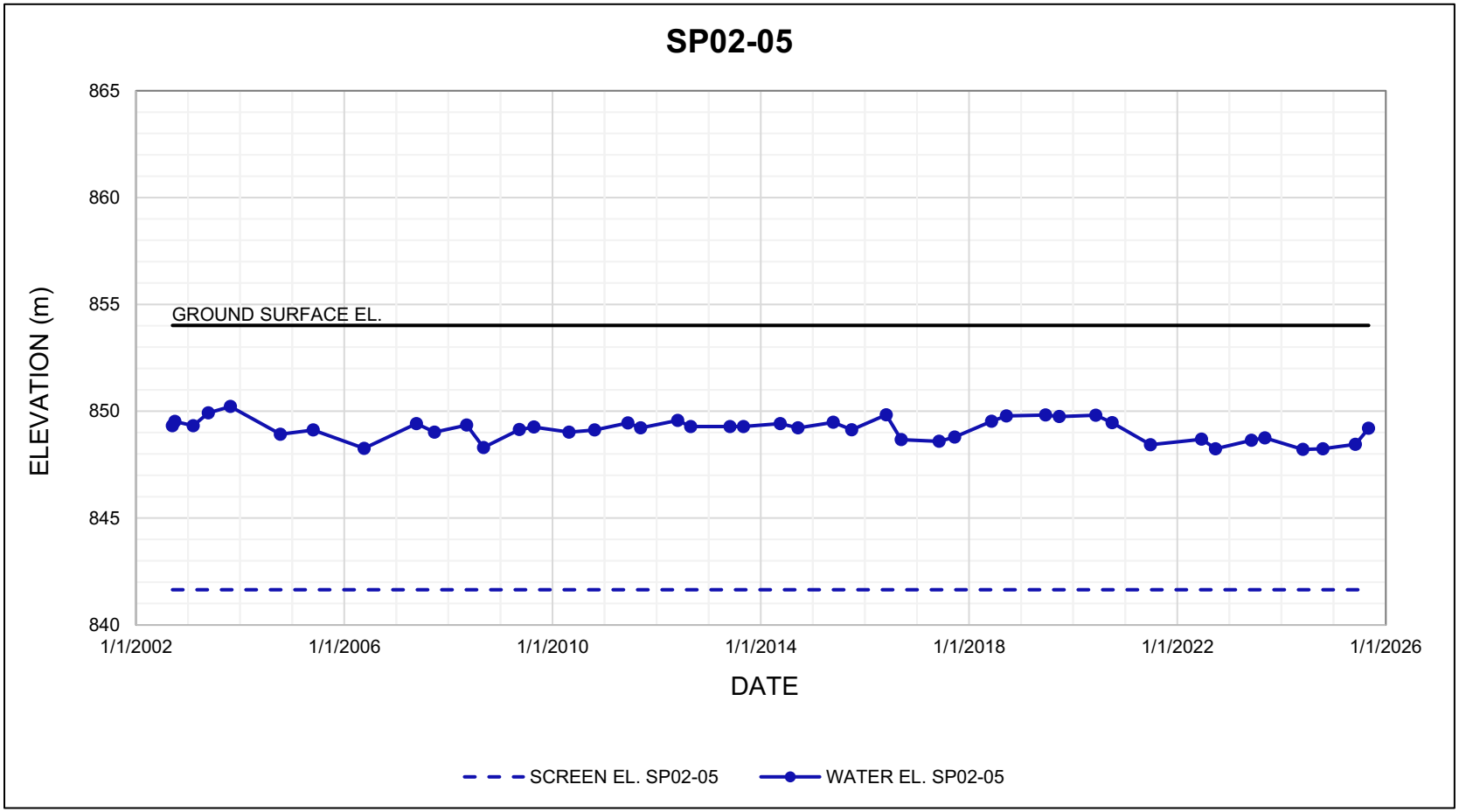

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GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
PIEZOMETER DATA
GP028 - TWO CREEKS
HWY 43:12, KM 34.473

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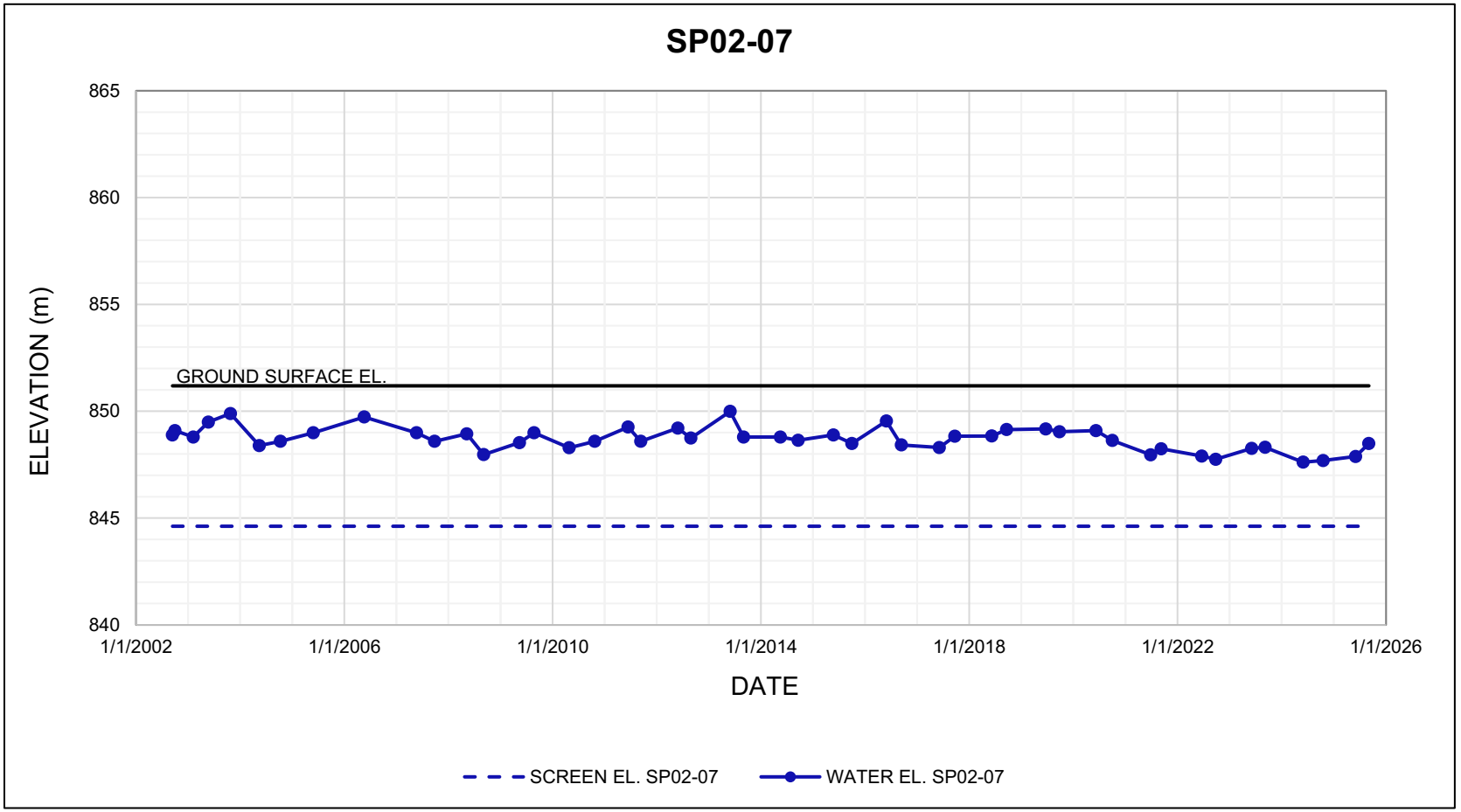

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GP028 - TWO CREEKS
HWY 43:12, KM 34.473

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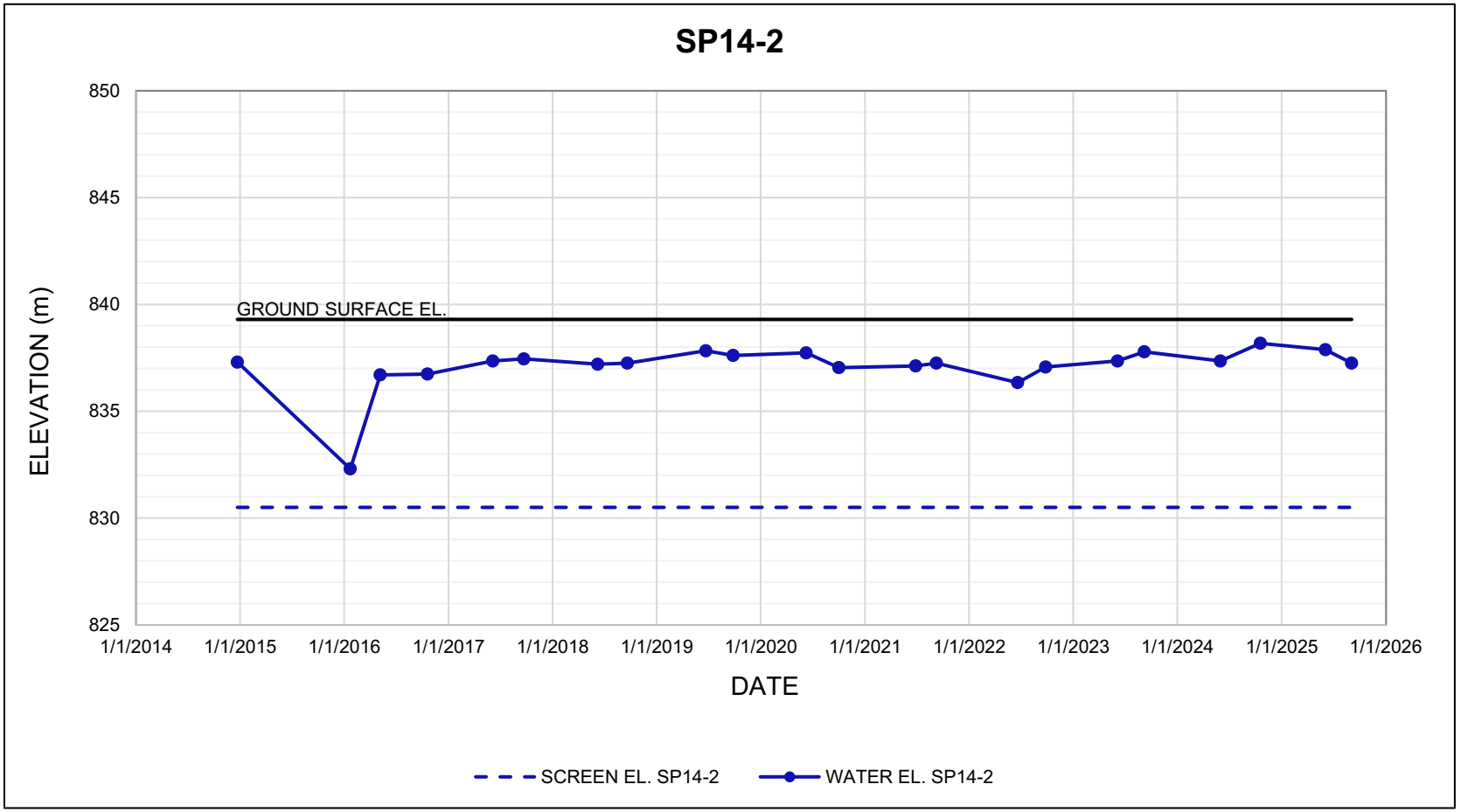

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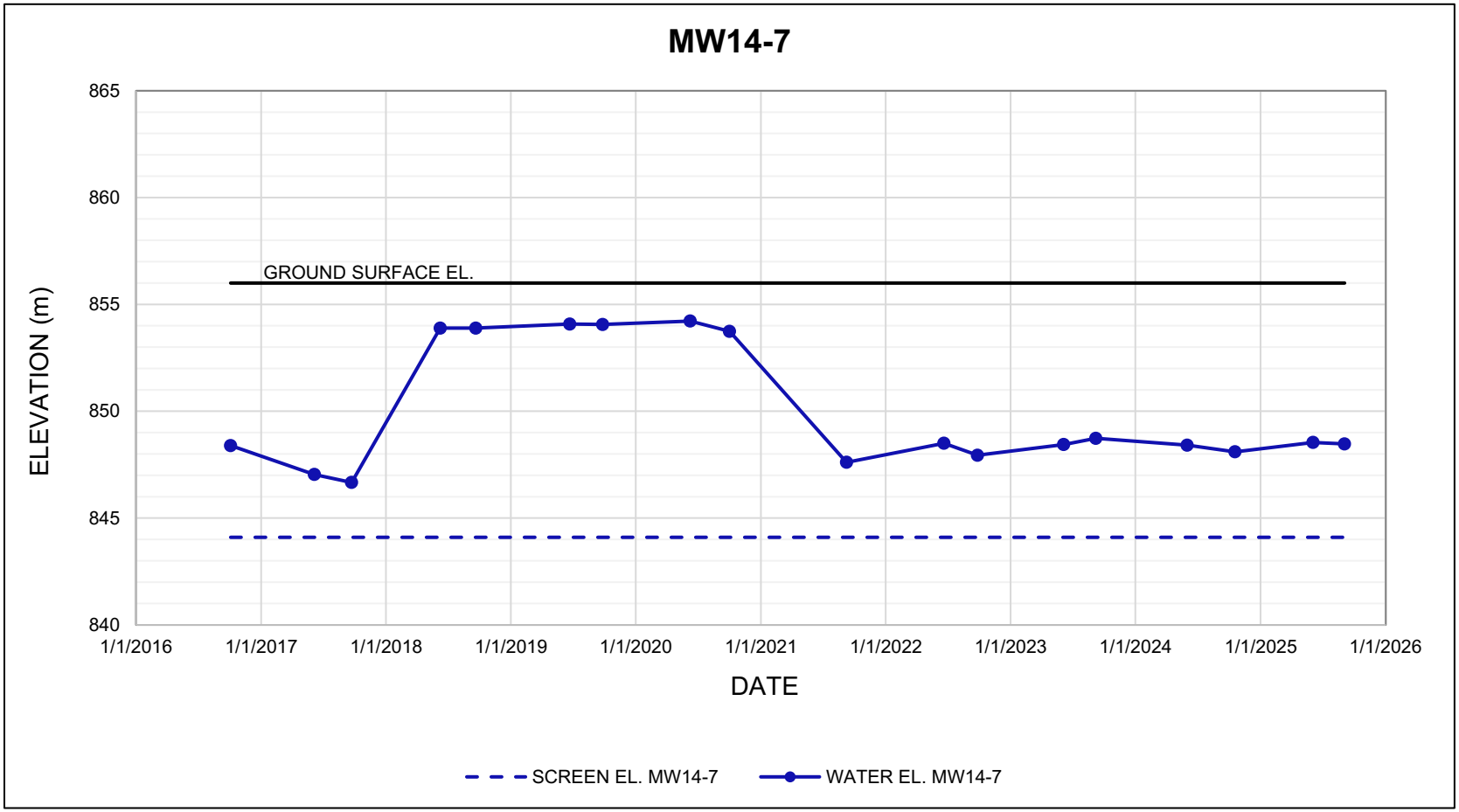

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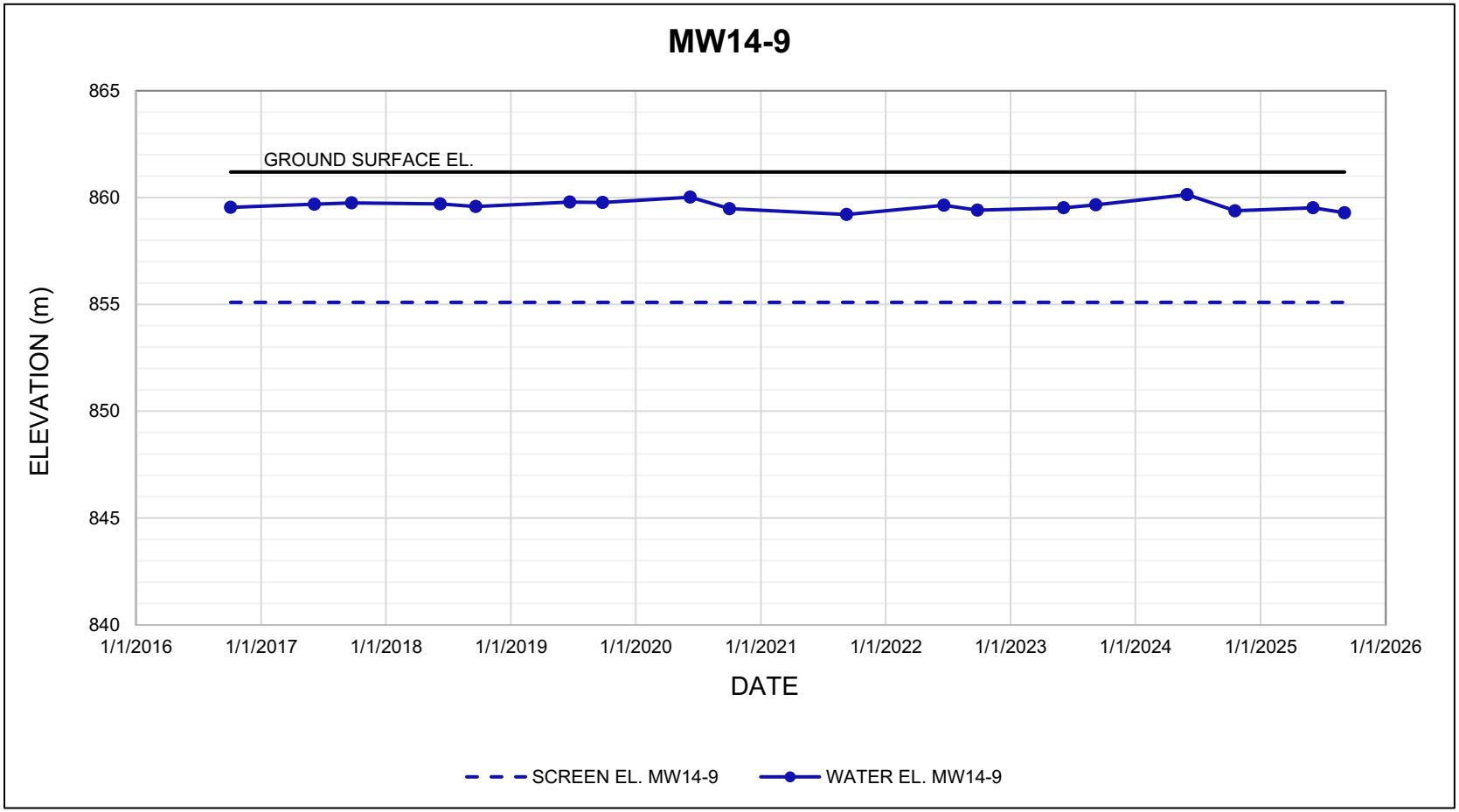

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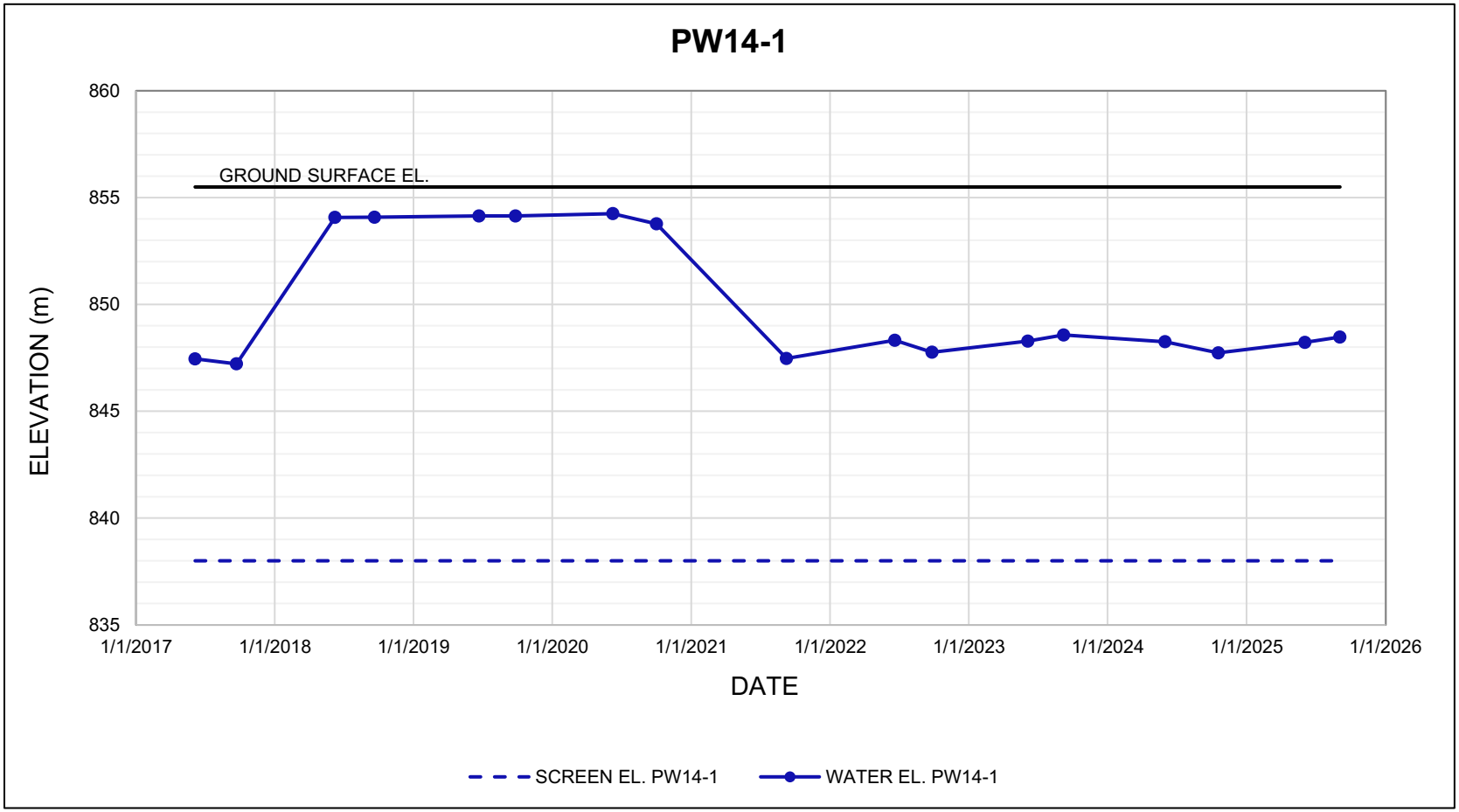
GP028 - TWO CREEKS
HWY 43:12, KM 34.473

SCALE	PROJECT No.	FIG No.
--	A05116A01	



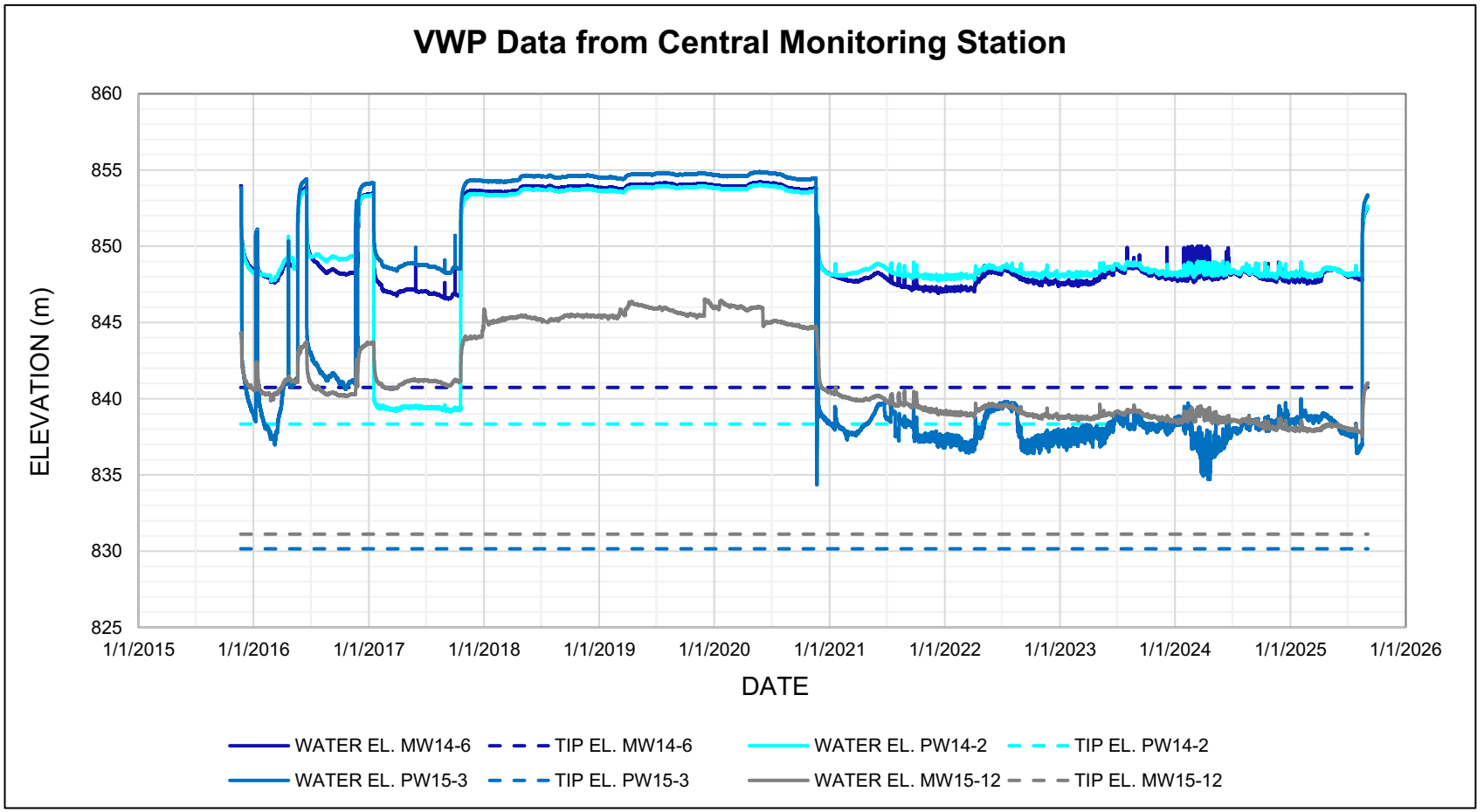
NOTES:
1. PIEZOMETER DATA OBTAINED BEFORE JUNE 29, 2021, PROVIDED TO KLOHN CRIPPEN BERGER LTD. (KCB) BY ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS (TEC) ON JUNE 25, 2021.

CLIENT
Alberta
Klohn Crippen Berger

PROJECT
PEACE REGION (GRANDE PRAIRIE DISTRICT - SOUTH)
GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
PIEZOMETER DATA
GP028 - TWO CREEKS
HWY 43:12, KM 34.473

SCALE	PROJECT No.	FIG No.
--	A05116A01	



NOTES:
1. PIEZOMETER DATA OBTAINED BEFORE JUNE 28, 2021, PROVIDED TO KLOHN CRIPPEN BERGER LTD. BY ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS ON JUNE 25, 2021.
2. INSTRUMENTS CONNECTED TO MULTIPLE-CHANNEL DATA LOGGER INSTALLED AT CENTRAL MONITORING STATION.

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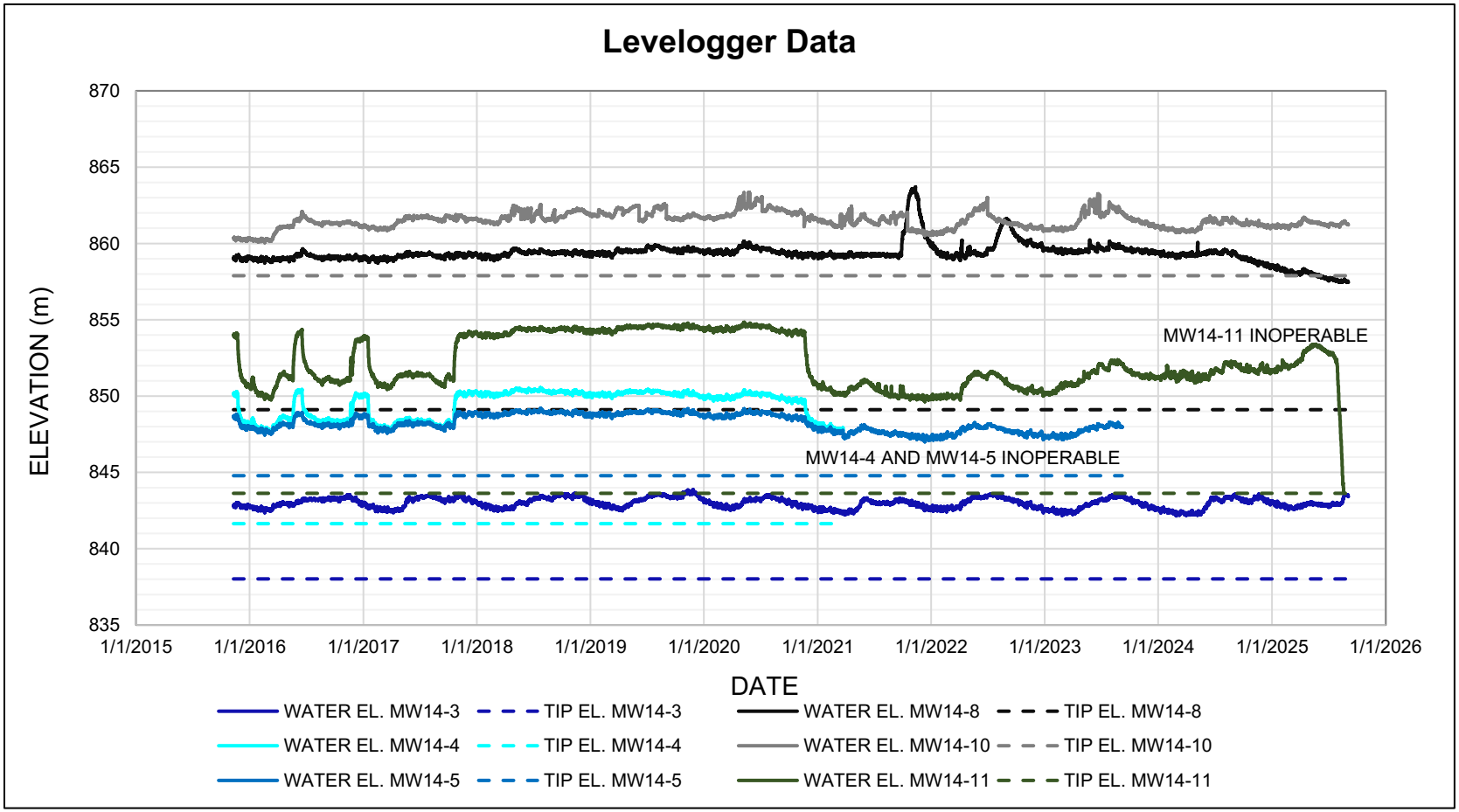
SCALE	PROJECT No.	FIG No.
--	A05116A01	



NOTES:
1. PIEZOMETER DATA OBTAINED BEFORE JUNE 28, 2021, PROVIDED TO KLOHN CRIPPEN BERGER LTD. BY ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS ON JUNE 25, 2021.2.
2. PROTECTIVE HEADBOXES FOR MW14-4 AND MW14-5 DESTROYED BETWEEN FALL 2020 AND SPRING 2021 READINGS.
3. SOLINST LEVELOGGERS INSTALLED IN THESE INSTRUMENTS.

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SCALE	PROJECT No.	FIG No.
--	A05116A01	