



## **Hillcrest Weekly AMTS Report**

**For Fort Partners**

**10/02/2023 to 10/09/2023**

# Project Narrative

## PROJECT INFORMATION

The project consists of the construction of a 10-level condominium structure. The new development will have a footprint of about 75 by 180 feet, and will rise to a maximum elevation of +158 feet NGVD. A single level basement is also planned for the development, with an anticipated finished floor elevation of 14'-2" feet NGVD. The underground parking garage will have approximate measurements of 246 feet in the east-west direction, and up to 94 feet in the north-south direction. The footprint of the garage structure is anticipated to be roughly 22,000 square feet. The new structure will be constructed about 20 feet south of the northern boundary of the site. The southern portion of the undeveloped land will include a lap pool, while the northwest portion will provide access to underground parking.

## AUTOMATED TOTAL STATION MONITORING

A total of eight (8) have been installed at this time. The system collects readings every hour on the monitoring points on the Carlisle building. The location and identification of each device is presented in the table below and shown graphically on the map. A graph will be displayed for each monitor showing the data points collected during the specified time period. This report will display the average daily data collected from the week of this report.

The automated total station monitoring equipment was installed on the dates as listed in the table below:

Installation Date	Components Installed	Location
5/18/2023	AMTS/Logger Enclosure/Solar Panel	Roof of Seaway building
5/19/2023	Monitoring Points: MPWM, MPWT	West side of south façade of Carlisle building.
5/24/2023	Monitoring Points: MPEB (Installed but omitted from monitoring), MPEM, MPET	East side of south façade of Carlisle building.
7/19/2023	Monitoring Points: MPEB, RW1, RW2	East side of south façade of Carlisle building, seawall at either side of retaining wall.
9/6-7/2023	AMTS System	AMTS was relocated on these dates. System was relocated to the floor below to allow roofing work to be completed.
9/21/2023	Monitoring Points RW1 and RW2	Re-installation of monitoring points

## REVIEW OF TOTAL STATION MONITORING DATA

The following definitions identify the wording that will be used in the report to describe the vibration readings:

- Deflection: a lateral movement of the structure in the X or Y Axis (back and forth, side to side).
- Settlement: a vertical movement downward.
- Heave: a vertical movement upward.

The following is a description of the orientation of the X, Y, and Z axes used to identify movement of the structure.

- X axis: Lateral movement in the north/south direction. Positive readings indicate movement to the north, negative readings indicate movement to the south.
- Y Axis: Lateral movement in the east/west direction. Positive readings indicate movement to the west, negative readings indicate movement to the east.
- Z Axis: Vertical movement up/down. Positive readings indicate heave, negative readings indicate settlement.

## DATES WHEN TOTAL STATION READINGS EXCEEDED THRESHOLD VALUES

Below is a table of dates when readings exceeded threshold values on the total station system, along with the cause of the reason for each occurrence. Please note that readings may show periodic variations during the reporting period, which may be due to temperature, weather conditions, sun glare, etc. These may occur on a daily basis (such as due to temperature) or in individual data sets (such as poor weather conditions). All exceedances above the threshold will be noted below.

Date	Monitoring Point(s)	Reading
9/19/2023 22:00	MPWM – Z Axis	0.326" <sup>1</sup>
	MPEM – Z Axis	0.259" <sup>1</sup>

<sup>1</sup> Readings for this data set have high error due to heavy rain and wind at the time the readings were taken. Data around and following this data set do not show any similar movement activity, suggesting that the high readings were a result of the weather affects on the readings rather than actual movement.

## DATES WHEN TOTAL STATION READINGS WERE NOT RECORDED

Below is a table of dates when readings were not recorded on the total station system, along with the cause of the reason for each occurrence.

Date	AMTS System/Points
8/15/2023 10:00 – 8/17/2023 12:00	Monitoring point RW2 <sup>1</sup>
9/6/2023 & 9/8/2023	Monitoring point RW1 <sup>2</sup>
9/11/2023 – 9/13/2023	Monitoring point MPWB <sup>3</sup>
9/14/2023 – 9/21/2023	Monitoring points RW1 and RW2 <sup>4</sup>
9/21/2023 – 9/25/2023 15:00	Monitoring point RW1 <sup>5</sup>
9/22/2023 15:00 – 9/25/2023 8:00	Monitoring point RW2 <sup>5</sup>
9/26/2023 15:00 – 9/27/2023 7:00	Monitoring point RW2 <sup>6</sup>
10/3/2023 14:00 – 10/4/2023 11:00	AMTS System <sup>7</sup>
10/3/2023, 10/5/2023 15:00 – 10/8/2023 23:00	Monitoring point RW1 <sup>8</sup>

Notes:

<sup>1</sup> Monitoring point RW2 was disturbed by the adjacent demolition on 8/15/2023, causing it to fall off. The monitoring point was re-installed on 8/17/2023 and baselined to the most recent stable reading on 8/15/2023.

<sup>2</sup> Monitoring point was not read due to the line of sight being blocked by the drill rig between the monitoring point and the total station. This was a temporary disturbance based on the location of the drill rig.

<sup>3</sup> Monitoring point MPWB was temporarily blocked by equipment on site.

<sup>4</sup> Monitoring points RW1 and RW2 were blocked due to soil mixing taking place in the vicinity of the points. The points were found to have been disturbed on 9/15/2023 and will require re-installation. This work is scheduled to be completed the week of 9/18/2023 once soil mixing work in the area has been completed.

<sup>5</sup> Monitoring points RW1 and RW2 were re-installed on 9/21/2023. Monitoring points were checked from the AMTS and readings to the new points were verified. Shortly following the installation, equipment on-site was being placed in the vicinity of the monitoring points. The equipment movement resulted in monitoring point RW1 being blocked shortly following the installation, and RW2 being blocked on 9/22/2023. As of 9/25/2023, equipment has been moved and readings have resumed for points RW1 and RW2. These readings will be included on the following week's report.

<sup>6</sup> Monitoring point RW2 was temporarily blocked by equipment on-site.

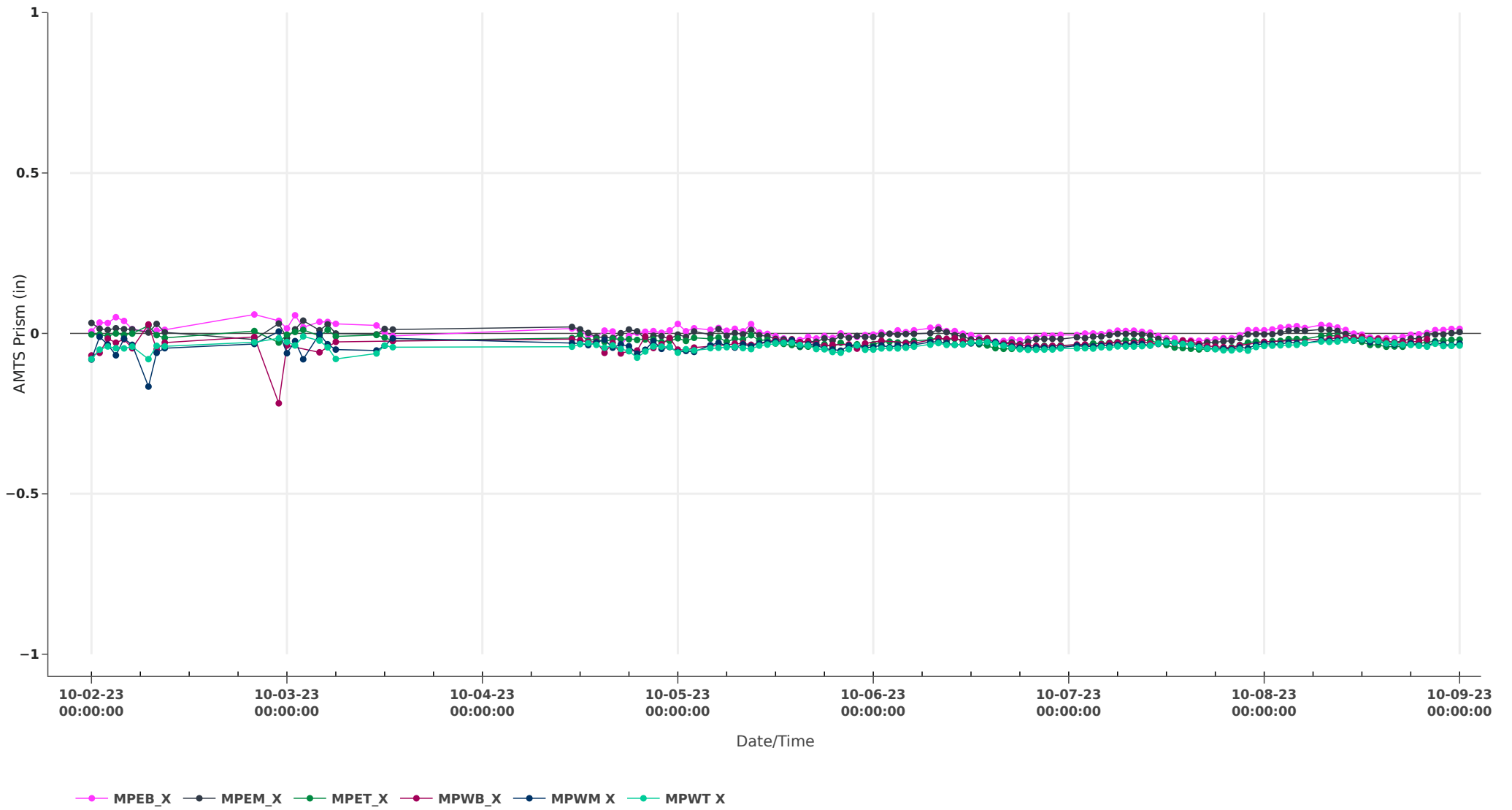
<sup>7</sup> AMTS system was inspected 10/3/2023 following readings collected on 10/2/2023 which appeared to show more variations than usual. During the site visit, the system was inspected and all fasteners were checked and tightened. During the visit, the angle of the system was adjusted slightly from the tightening of the bolts. This resulted in the system not recording data due to the points being outside of the search window. This was noted and was corrected on 10/4/2023.

<sup>8</sup> Monitoring point RW1 appears to have been blocked periodically due to equipment on-site performing work. Readings on this point will continue once the line of sight between the total station and the monitoring point is clear.

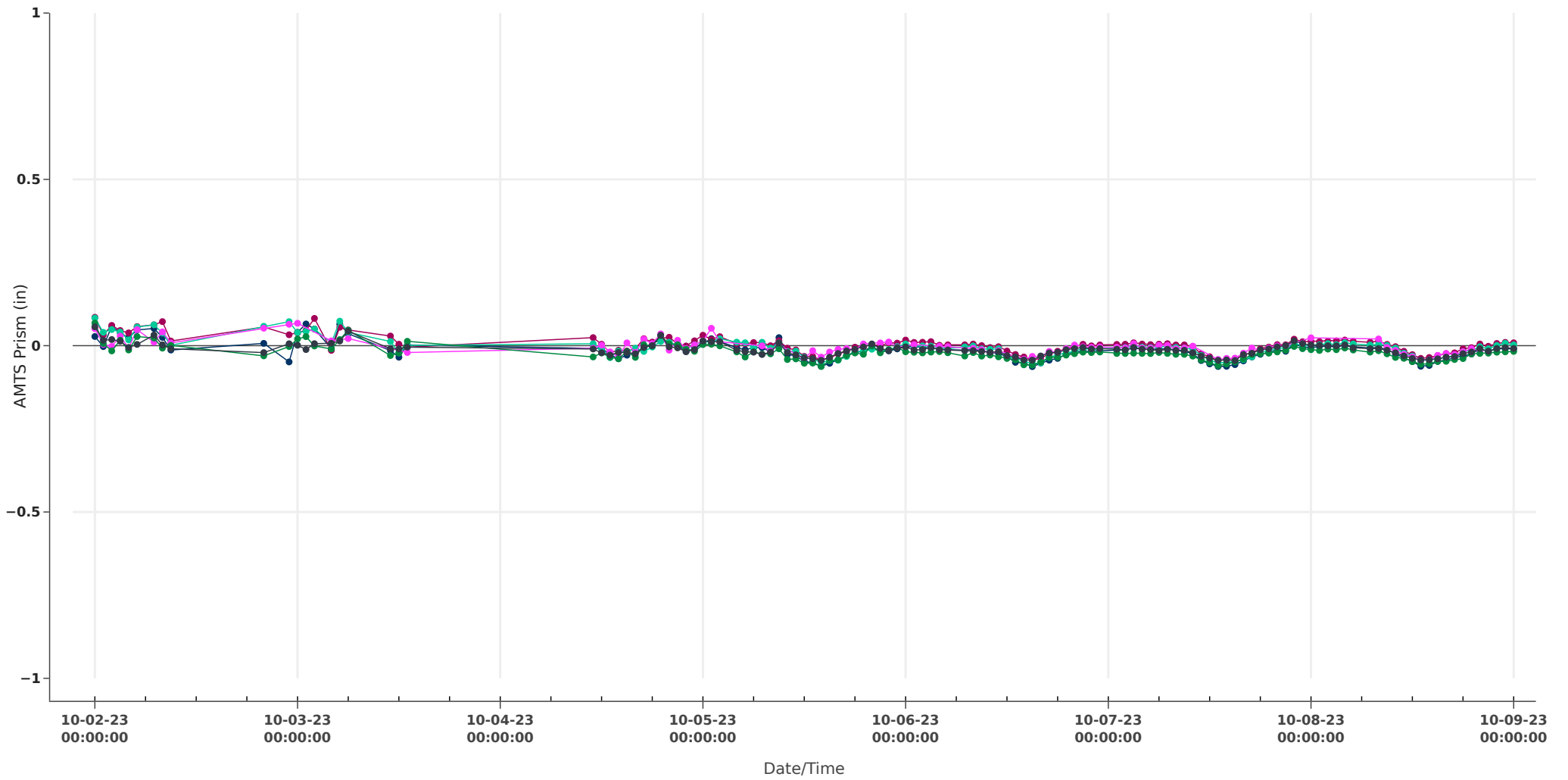
# AMTS Labels



# 9165 Collins AMTS X-axis

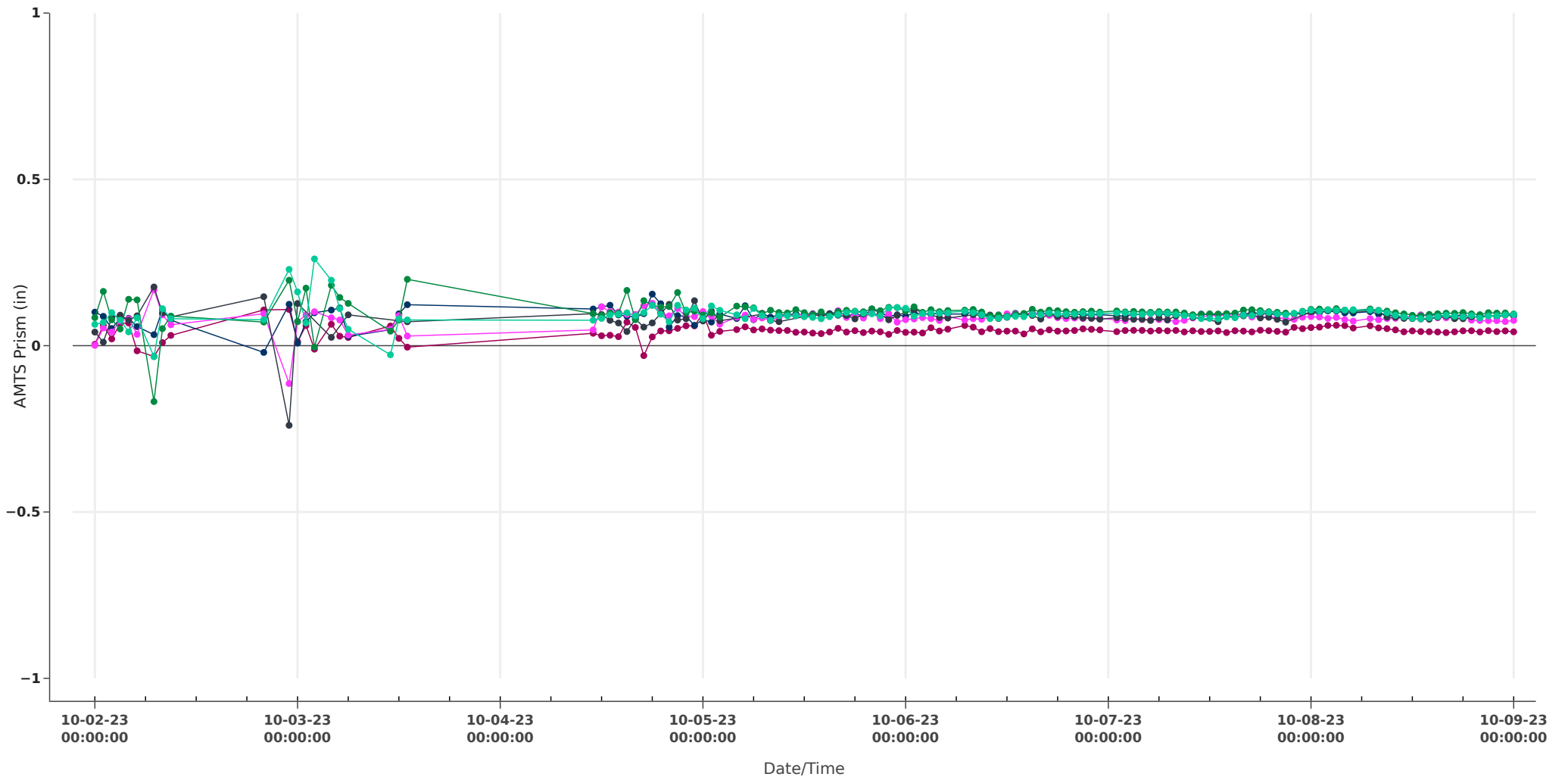


# 9165 Collins AMTS Y-axis



—●— MPEB\_Y —●— MPEM\_Y —●— MPET\_Y —●— MPWB\_Y —●— MPWM\_Y —●— MPWT\_Y

# 9165 Collins AMTS Z-axis



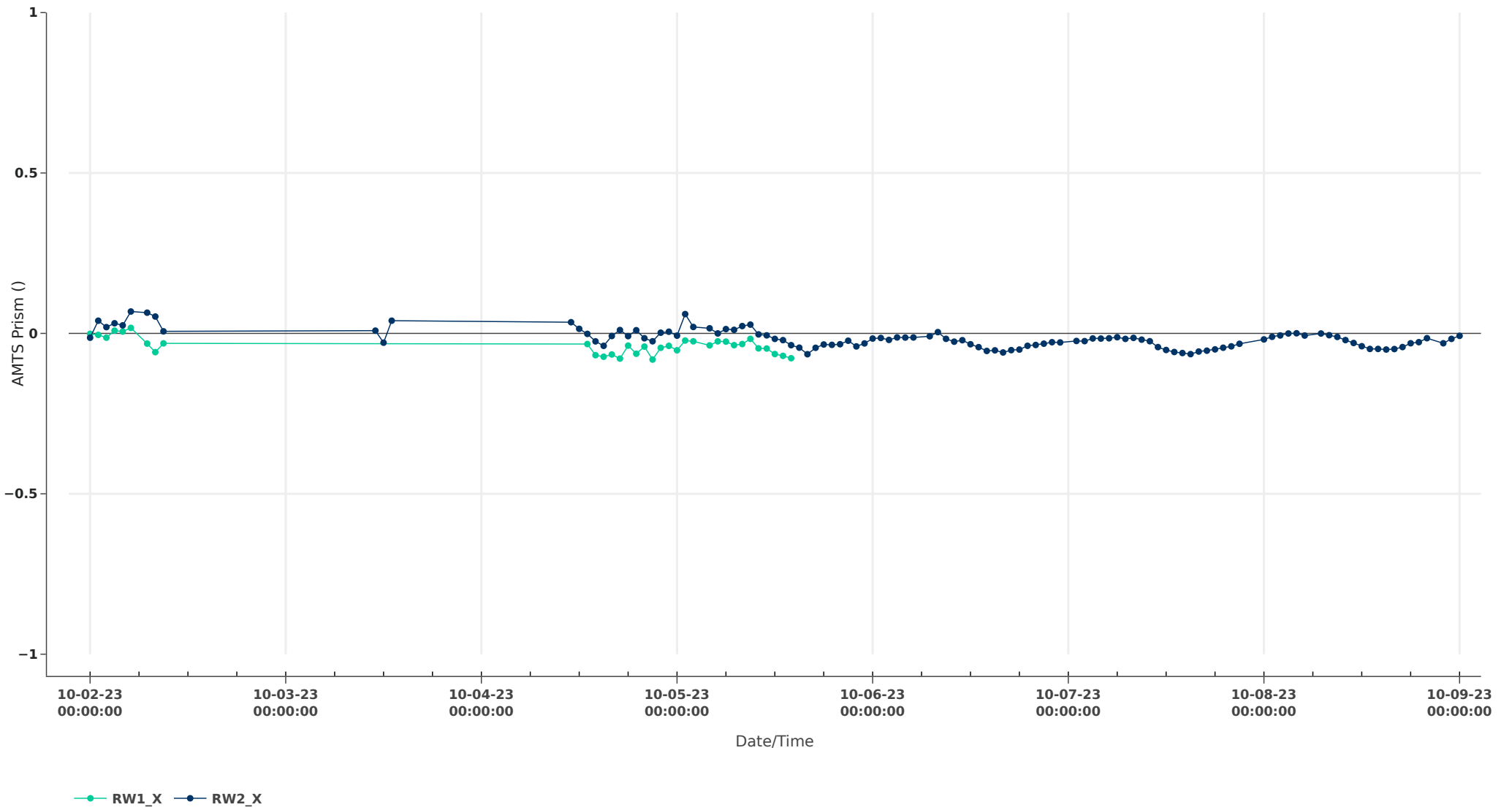
—●— MPEB\_Z —●— MPEM\_Z —●— MPET\_Z —●— MPWB\_Z —●— MPWM\_Z —●— MPWT\_Z



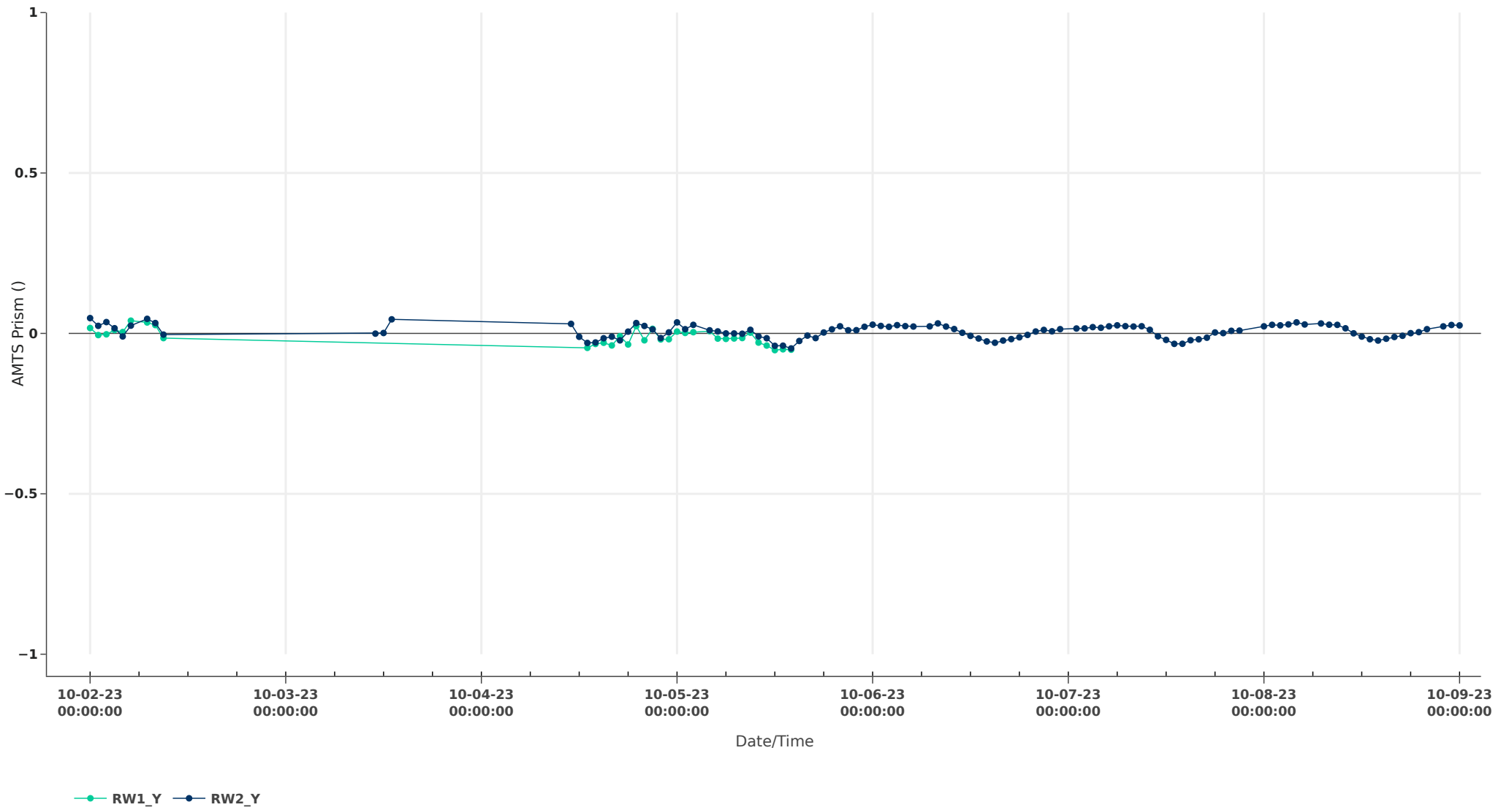
# AMTS Retaining Wall Labels



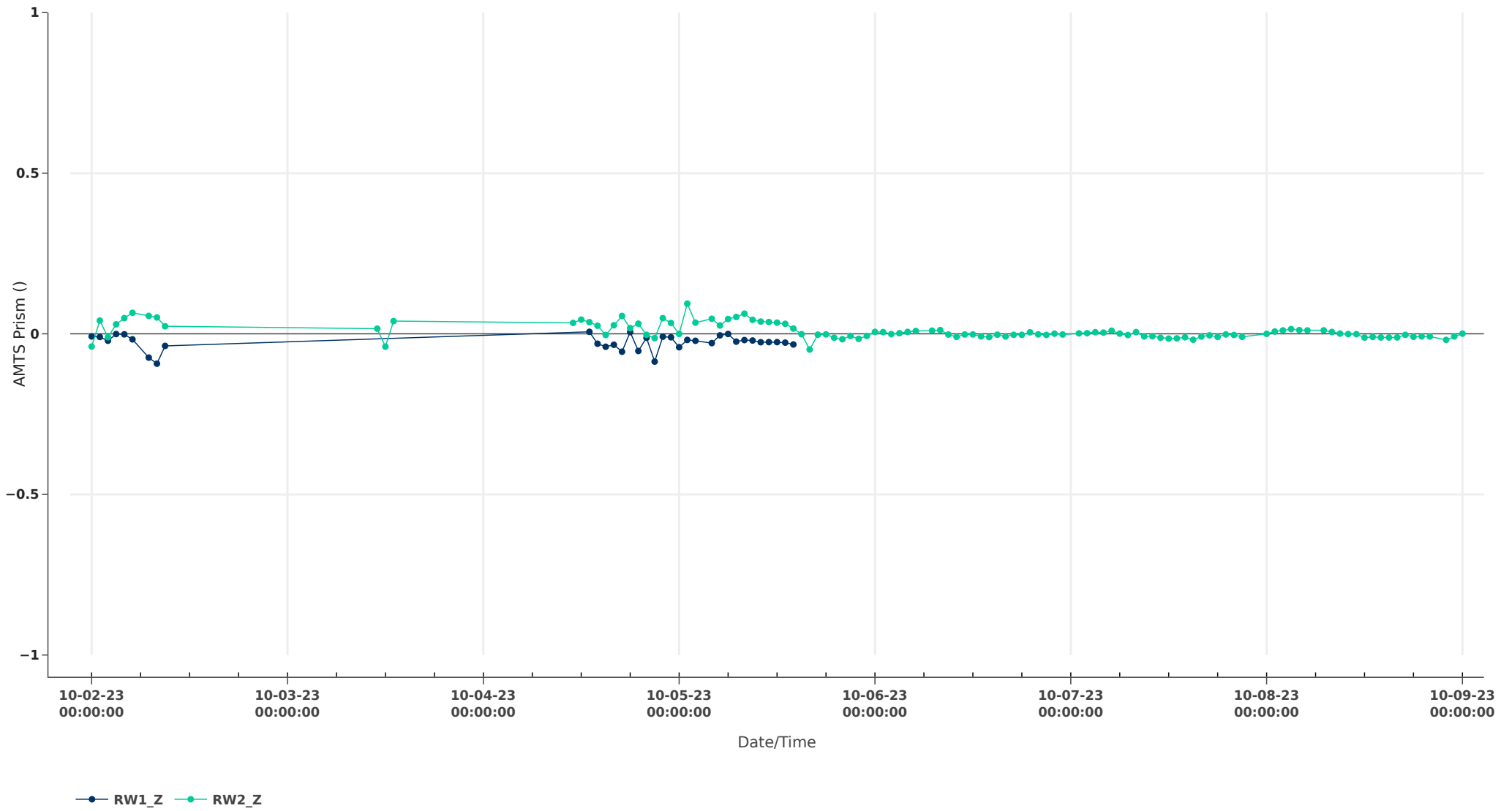
# Retaining Wall AMTS X-axis



# Retaining Wall AMTS Y-axis



# Retaining Wall AMTS Z-axis



AMTS X-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
5/19/2023					0.003	-0.003		
5/20/2023					0.000	-0.005		
5/21/2023					0.001	-0.006		
5/22/2023					0.005	-0.002		
5/23/2023					0.005	-0.004		
5/24/2023		0.003	0.002		0.003	-0.014		
5/25/2023		-0.004	0.000	-0.009	-0.005	-0.022		
5/26/2023		-0.010	-0.004		-0.011	-0.028		
5/27/2023		-0.010	-0.008		-0.016	-0.029		
5/28/2023		-0.002	-0.012		-0.013	-0.022		
5/29/2023		0.009	-0.010	0.000	-0.009	-0.017		
5/30/2023		0.008	-0.013		-0.008	-0.018		
5/31/2023		-0.005	-0.025		-0.020	-0.033		
6/1/2023		-0.006	-0.024	-0.035	-0.021	-0.035		
6/2/2023		-0.003	-0.018		-0.018	-0.037		
6/3/2023		-0.004	-0.020		-0.020	-0.038		
6/4/2023		0.002	-0.013		-0.016	-0.032		
6/5/2023		-0.008	-0.026		-0.010	-0.017		
6/6/2023		-0.002	-0.018		-0.010	-0.016		
6/7/2023		-0.011	-0.027		-0.013	-0.019		
6/8/2023		-0.009	-0.028	-0.020	-0.013	-0.018		
6/9/2023		-0.011	-0.028	-0.019	-0.015	-0.020		
6/10/2023		-0.015	-0.032	-0.008	-0.012	-0.018		
6/11/2023		-0.018	-0.038	-0.014	-0.015	-0.028		
6/12/2023		-0.017	-0.039	-0.010	-0.014	-0.024		
6/13/2023		-0.016	-0.035	-0.020	-0.014	-0.021		
6/14/2023		-0.019	-0.043	-0.013	-0.016	-0.028		
6/15/2023		-0.018	-0.042	-0.012	-0.013	-0.024		
6/16/2023		-0.018	-0.043	-0.005	-0.009	-0.020		
6/17/2023		-0.013	-0.036	-0.011	-0.009	-0.019		
6/18/2023		-0.006	-0.022	-0.009	-0.012	-0.017		
6/19/2023		-0.006	-0.018	-0.013	-0.011	-0.018		
6/20/2023		-0.010	-0.020	-0.025	-0.018	-0.023		
6/21/2023		-0.010	-0.023	-0.024	-0.013	-0.021		
6/22/2023		-0.009	-0.023	-0.018	-0.016	-0.023		
6/23/2023		-0.013	-0.030	-0.018	-0.017	-0.025		
6/24/2023		-0.012	-0.033	-0.015	-0.013	-0.023		
6/25/2023		-0.006	-0.024	-0.008	-0.008	-0.012		
6/26/2023		-0.012	-0.029	-0.011	-0.011	-0.017		
6/27/2023		-0.014	-0.035	-0.014	-0.015	-0.022		
6/28/2023		-0.017	-0.043	-0.015	-0.014	-0.024		
6/29/2023		-0.013	-0.041	-0.012	-0.011	-0.020		
6/30/2023		-0.010	-0.035	-0.012	-0.014	-0.018		

AMTS X-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
7/1/2023		-0.008	-0.031	-0.012	-0.013	-0.015		
7/2/2023		-0.012	-0.036	-0.014	-0.014	-0.019		
7/3/2023		-0.013	-0.040	-0.015	-0.016	-0.021		
7/4/2023			-0.042	-0.012	-0.011	-0.021		
7/5/2023		-0.012	-0.046	-0.012	-0.013	-0.023		
7/6/2023		-0.009	-0.048	-0.014	-0.016	-0.026		
7/7/2023		-0.001	-0.036	-0.013	-0.014	-0.022		
7/8/2023		-0.008	-0.038	-0.016	-0.015	-0.020		
7/9/2023		-0.013	-0.041	-0.018	-0.020	-0.025		
7/10/2023		-0.022	-0.050	-0.017	-0.019	-0.028		
7/11/2023		-0.018	-0.049	-0.013	-0.015	-0.026		
7/12/2023		-0.021	-0.054	-0.010	-0.011	-0.024		
7/13/2023		-0.019	-0.054	-0.013	-0.014	-0.027		
7/14/2023		-0.015	-0.050	-0.010	-0.012	-0.024		
7/15/2023		-0.010	-0.044	-0.012	-0.014	-0.022		
7/16/2023		-0.013	-0.043	-0.016	-0.016	-0.025		
7/17/2023		-0.008	-0.034	-0.012	-0.012	-0.020		
7/18/2023		-0.007	-0.033	-0.012	-0.013	-0.020		
7/19/2023	0.003	-0.011	-0.038	-0.014	-0.015	-0.024	0.011	0.006
7/20/2023	0.004	-0.011	-0.038	-0.011	-0.012	-0.022	0.007	0.001
7/21/2023	0.002	-0.016	-0.042	-0.014	-0.012	-0.025	0.007	-0.002
7/22/2023	0.000	-0.019	-0.044	-0.010	-0.008	-0.017	0.007	-0.004
7/23/2023	0.000	-0.021	-0.046	-0.008	-0.008	-0.018	0.006	-0.007
7/24/2023	0.002	-0.018	-0.044	-0.011	-0.010	-0.020	0.009	-0.004
7/25/2023	0.006	-0.011	-0.039	-0.004	-0.004	-0.015	0.010	0.003
7/26/2023	0.009	-0.006	-0.032	-0.006	-0.002	-0.011	0.016	0.009
7/27/2023	0.007	-0.007	-0.028	-0.005	-0.003	-0.009	0.006	0.005
7/28/2023	0.002	-0.010	-0.029	-0.008	-0.007	-0.014	0.002	0.002
7/29/2023	-0.003	-0.016	-0.034	-0.008	-0.010	-0.017	0.000	-0.003
7/30/2023	-0.003	-0.017	-0.039	-0.012	-0.013	-0.021	0.000	-0.004
7/31/2023	-0.006	-0.023	-0.044	-0.013	-0.012	-0.023	-0.003	-0.007
8/1/2023	0.004	-0.015	-0.033	-0.008	-0.007	-0.015	0.004	0.005
8/2/2023	0.000	-0.014	-0.034	-0.008	-0.008	-0.014	-0.002	0.001
8/3/2023	-0.004	-0.018	-0.039	-0.011	-0.010	-0.017	-0.009	-0.007
8/4/2023	-0.001	-0.014	-0.038	-0.009	-0.008	-0.016	-0.007	-0.004
8/5/2023	-0.002	-0.016	-0.040	-0.011	-0.011	-0.018	-0.007	-0.003
8/6/2023	-0.005	-0.020	-0.047	-0.014	-0.011	-0.020	-0.007	-0.008
8/7/2023	-0.007	-0.023	-0.052	-0.013	-0.009	-0.022	-0.009	-0.014
8/8/2023	-0.006	-0.021	-0.052	-0.009	-0.008	-0.020	-0.007	-0.012
8/9/2023	-0.007	-0.021	-0.053	-0.007	-0.006	-0.018	-0.007	-0.013
8/10/2023	-0.003	-0.019	-0.051	-0.006	-0.005	-0.016	-0.004	-0.010
8/11/2023	-0.008	-0.022	-0.052	-0.009	-0.008	-0.016	-0.014	-0.012
8/12/2023	-0.006	-0.020	-0.048	-0.009	-0.006	-0.018	-0.015	-0.011

AMTS X-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
8/13/2023	-0.006	-0.022	-0.050	-0.017	-0.014	-0.025	-0.016	-0.007
8/14/2023	-0.008	-0.023	-0.049	-0.012	-0.008	-0.019	-0.020	-0.014
8/15/2023	-0.007	-0.022	-0.049	-0.010	-0.008	-0.020	-0.017	-0.009
8/16/2023	-0.005	-0.021	-0.047	-0.016	-0.012	-0.021	-0.012	
8/17/2023	0.000	-0.016	-0.040	-0.008	-0.007	-0.014	-0.010	-0.027
8/18/2023	0.003	-0.013	-0.033	-0.012	-0.009	-0.015	-0.007	-0.024
8/19/2023	-0.006	-0.021	-0.041	-0.015	-0.013	-0.019	-0.018	-0.034
8/20/2023	-0.002	-0.017	-0.032	-0.016	-0.016	-0.022	-0.016	-0.032
8/21/2023	-0.009	-0.022	-0.040	-0.023	-0.022	-0.029	-0.022	-0.034
8/22/2023	-0.016	-0.028	-0.051	-0.020	-0.021	-0.023	-0.027	-0.041
8/23/2023	-0.016	-0.030	-0.051	-0.017	-0.015	-0.021	-0.027	-0.047
8/24/2023	-0.017	-0.033	-0.055	-0.019	-0.017	-0.024	-0.032	-0.050
8/25/2023	-0.015	-0.033	-0.051	-0.014	-0.016	-0.020	-0.031	-0.050
8/26/2023	-0.017	-0.036	-0.056	-0.017	-0.017	-0.024	-0.036	-0.052
8/27/2023	-0.020	-0.039	-0.060	-0.022	-0.021	-0.026	-0.037	-0.058
8/28/2023	-0.019	-0.036	-0.058	-0.026	-0.024	-0.032	-0.030	-0.049
8/29/2023	-0.016	-0.035	-0.055	-0.029	-0.028	-0.038	-0.023	-0.045
8/30/2023	-0.020	-0.038	-0.058	-0.027	-0.027	-0.034	-0.026	-0.047
8/31/2023	-0.018	-0.034	-0.056	-0.017	-0.020	-0.027	-0.026	-0.045
9/1/2023	-0.013	-0.030	-0.049	-0.006	-0.006	-0.011	-0.029	-0.048
9/2/2023	-0.009	-0.024	-0.037	-0.010	-0.010	-0.007	-0.026	-0.044
9/3/2023	-0.017	-0.034	-0.048	-0.019	-0.014	-0.016	-0.052	-0.043
9/4/2023	-0.016	-0.034	-0.050	-0.017	-0.013	-0.018	-0.036	-0.043
9/5/2023	-0.011	-0.030	-0.048	-0.017	-0.015	-0.018	-0.041	-0.041
9/6/2023	-0.007	-0.025	-0.044	-0.017	-0.020	-0.024		-0.041
9/7/2023	-0.001	-0.014	-0.035	-0.035	-0.037	-0.038	0.049	-0.037
9/8/2023	0.007	-0.004	-0.028	-0.030	-0.044	-0.045		-0.026
9/9/2023	0.011	0.000	-0.022	-0.032	-0.042	-0.046	0.058	-0.022
9/10/2023	0.005	-0.006	-0.022	-0.021	-0.034	-0.037	0.050	-0.031
9/11/2023	-0.001	-0.013	-0.030		-0.035	-0.039	0.043	-0.042
9/12/2023	-0.001	-0.011	-0.032		-0.043	-0.046	0.048	-0.043
9/13/2023	-0.002	-0.013	-0.035		-0.044	-0.048	0.049	-0.039
9/14/2023	-0.007	-0.019	-0.040	-0.053	-0.046	-0.049		-0.030
9/15/2023	-0.001	-0.014	-0.035	-0.033	-0.044	-0.047		
9/16/2023	-0.003	-0.013	-0.035	-0.024	-0.042	-0.045		
9/17/2023	0.002	-0.008	-0.029	-0.025	-0.042	-0.042		
9/18/2023	0.005	-0.006	-0.027	-0.029	-0.042	-0.041		
9/19/2023	0.007	0.002	-0.023	-0.031	-0.046	-0.048		
9/20/2023	0.009	-0.001	-0.018	-0.026	-0.039	-0.038		
9/21/2023	0.012	0.004	-0.016	-0.031	-0.041	-0.037		0.013
9/22/2023	0.015	0.007	-0.009	-0.030	-0.039	-0.032		0.021
9/23/2023	0.022	0.011	-0.005	-0.033	-0.047	-0.045		
9/24/2023	0.008	0.000	-0.016	-0.028	-0.044	-0.043		

AMTS X-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
9/25/2023	0.015	0.008	-0.009	-0.027	-0.039	-0.039	-0.023	0.008
9/26/2023	0.009	-0.001	-0.015	-0.031	-0.043	-0.042	-0.033	0.011
9/27/2023	0.019	0.009	-0.008	-0.032	-0.045	-0.046	-0.025	0.008
9/28/2023	0.014	0.003	-0.010	-0.027	-0.041	-0.042	-0.028	0.014
9/29/2023	0.007	-0.003	-0.019	-0.028	-0.043	-0.044	-0.040	0.001
9/30/2023	0.001	-0.011	-0.026	-0.031	-0.043	-0.044	-0.049	-0.009
10/1/2023	0.012	0.000	-0.017	-0.033	-0.045	-0.041	-0.040	0.002
10/2/2023	0.027	0.013	-0.003	-0.047	-0.050	-0.046	-0.012	0.033
10/3/2023	0.023	0.011	-0.004	-0.037	-0.040	-0.040		0.006
10/4/2023	0.000	-0.003	-0.019	-0.035	-0.038	-0.045	-0.057	-0.003
10/5/2023	0.000	-0.010	-0.028	-0.034	-0.040	-0.045	-0.041	-0.012
10/6/2023	-0.004	-0.013	-0.033	-0.029	-0.037	-0.041		-0.029
10/7/2023	-0.006	-0.016	-0.035	-0.034	-0.039	-0.043		-0.035
10/8/2023	0.006	-0.006	-0.025	-0.020	-0.030	-0.032		-0.023



AMTS Y-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
5/19/2023					0.007	0.004		
5/20/2023					0.001	0.002		
5/21/2023					0.005	0.004		
5/22/2023					0.004	0.004		
5/23/2023					0.008	0.009		
5/24/2023		-0.005	0.001		0.003	-0.002		
5/25/2023		-0.001	0.004	-0.014	0.003	-0.006		
5/26/2023		-0.001	0.006		-0.003	-0.009		
5/27/2023		-0.001	0.003		-0.007	-0.013		
5/28/2023		0.008	0.016		0.003	0.005		
5/29/2023		0.004	0.016	0.000	0.004	0.007		
5/30/2023		0.006	0.019		0.004	0.005		
5/31/2023		-0.002	0.009		-0.002	-0.004		
6/1/2023		0.004	0.013	-0.008	0.002	0.000		
6/2/2023		0.005	0.016		0.004	-0.003		
6/3/2023		0.013	0.023		0.002	-0.003		
6/4/2023		0.017	0.024		0.005	0.000		
6/5/2023		0.004	0.000		-0.014	-0.027		
6/6/2023		0.005	0.000		-0.011	-0.027		
6/7/2023		0.006	0.003		-0.010	-0.024		
6/8/2023		0.005	0.001	0.005	-0.011	-0.023		
6/9/2023		0.010	0.007	0.011	-0.010	-0.022		
6/10/2023		0.005	0.004	-0.008	-0.011	-0.026		
6/11/2023		0.010	0.008	0.000	-0.006	-0.012		
6/12/2023		0.009	0.007	0.017	-0.004	-0.009		
6/13/2023		0.007	0.005	0.008	-0.005	-0.015		
6/14/2023		0.018	0.012	0.018	0.010	0.008		
6/15/2023		0.012	0.005	0.018	0.002	-0.001		
6/16/2023		0.020	0.012	0.033	0.011	0.012		
6/17/2023		0.018	0.013	0.021	0.013	0.009		
6/18/2023		0.009	0.009	0.022	0.008	-0.004		
6/19/2023		0.004	0.004	0.013	0.001	-0.011		
6/20/2023		0.002	0.003	0.021	-0.011	-0.020		
6/21/2023		0.001	0.000	0.032	-0.009	-0.018		
6/22/2023		0.006	0.005	0.019	-0.002	-0.006		
6/23/2023		0.007	0.004	0.018	0.001	0.000		
6/24/2023		0.005	0.003	0.016	0.000	0.003		
6/25/2023		-0.005	-0.004	0.008	-0.008	-0.013		
6/26/2023		-0.003	-0.005	0.004	-0.015	-0.017		
6/27/2023		0.008	0.002	0.016	-0.002	-0.001		
6/28/2023		0.008	0.000	0.015	-0.002	0.005		
6/29/2023		0.007	-0.001	0.013	-0.002	0.004		
6/30/2023		0.004	0.000	0.009	-0.001	0.001		

AMTS Y-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
7/1/2023		0.006	0.000	0.010	0.001	-0.001		
7/2/2023		0.008	-0.003	0.010	-0.002	0.004		
7/3/2023		0.008	-0.004	0.010	-0.001	0.009		
7/4/2023			-0.006	0.015	-0.001	0.014		
7/5/2023		0.017	-0.008	0.015	0.002	0.016		
7/6/2023		0.019	-0.003	0.017	0.006	0.019		
7/7/2023		0.012	-0.004	0.010	0.000	0.008		
7/8/2023		0.013	0.002	0.009	-0.004	0.004		
7/9/2023		0.020	0.007	0.007	-0.001	0.004		
7/10/2023		0.021	0.007	0.011	0.000	0.014		
7/11/2023		0.018	0.002	0.018	0.004	0.020		
7/12/2023		0.019	0.000	0.013	-0.001	0.021		
7/13/2023		0.026	0.005	0.013	0.002	0.024		
7/14/2023		0.025	0.001	0.012	0.002	0.021		
7/15/2023		0.028	0.006	0.008	-0.001	0.013		
7/16/2023		0.027	0.009	0.009	-0.005	0.014		
7/17/2023		0.022	0.009	0.005	-0.007	0.005		
7/18/2023		0.018	0.006	0.007	-0.007	0.005		
7/19/2023	-0.001	0.026	0.006	0.018	0.004	0.013	0.000	0.003
7/20/2023	-0.005	0.021	0.001	0.016	0.002	0.011	-0.007	-0.003
7/21/2023	-0.002	0.023	0.002	0.017	0.001	0.017	-0.004	-0.003
7/22/2023	-0.005	0.021	0.001	0.013	-0.005	0.013	-0.004	-0.005
7/23/2023	-0.005	0.021	0.002	0.013	-0.004	0.017	-0.004	-0.006
7/24/2023	0.001	0.027	0.007	0.023	0.007	0.027	0.000	-0.002
7/25/2023	-0.004	0.023	0.004	0.022	0.006	0.023	-0.005	-0.002
7/26/2023	-0.006	0.021	0.003	0.018	0.000	0.009	0.001	0.004
7/27/2023	-0.025	0.002	-0.008	0.004	-0.014	-0.013	-0.013	-0.006
7/28/2023	-0.017	0.010	0.001	0.012	-0.008	-0.007	-0.009	-0.001
7/29/2023	-0.017	0.010	-0.001	0.012	-0.007	-0.001	-0.010	-0.005
7/30/2023	-0.009	0.019	0.005	0.018	-0.003	0.005	-0.003	0.000
7/31/2023	-0.008	0.015	0.003	0.013	-0.006	0.006	-0.006	-0.004
8/1/2023	-0.016	0.007	0.000	0.006	-0.012	-0.002	-0.010	-0.005
8/2/2023	-0.020	0.004	-0.002	0.001	-0.017	-0.010	-0.013	-0.006
8/3/2023	-0.017	0.007	0.000	0.004	-0.011	-0.002	-0.010	-0.007
8/4/2023	-0.020	0.003	-0.003	0.002	-0.015	-0.008	-0.010	-0.005
8/5/2023	-0.012	0.011	0.004	0.010	-0.008	-0.001	-0.002	0.001
8/6/2023	-0.010	0.012	0.003	0.011	-0.007	0.005	-0.001	-0.005
8/7/2023	-0.010	0.013	0.003	0.015	-0.001	0.017	-0.007	-0.013
8/8/2023	-0.005	0.016	0.004	0.017	-0.002	0.022	-0.004	-0.010
8/9/2023	-0.006	0.014	0.001	0.013	-0.002	0.021	-0.007	-0.014
8/10/2023	-0.006	0.015	0.002	0.014	0.001	0.021	-0.006	-0.013
8/11/2023	-0.008	0.015	0.002	0.013	0.000	0.015	-0.011	-0.012
8/12/2023	-0.004	0.019	0.005	0.020	0.007	0.023	-0.010	-0.011

AMTS Y-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
8/13/2023	0.002	0.024	0.012	0.024	0.013	0.027	0.001	-0.004
8/14/2023	-0.003	0.020	0.006	0.023	0.009	0.025	-0.008	-0.009
8/15/2023	-0.008	0.014	0.002	0.020	0.009	0.025	-0.012	-0.009
8/16/2023	0.000	0.021	0.010	0.024	0.011	0.023	0.001	
8/17/2023	-0.014	0.007	-0.001	0.012	0.001	0.006	-0.012	-0.016
8/18/2023	-0.014	0.009	0.004	0.011	-0.002	-0.001	-0.006	-0.005
8/19/2023	-0.018	0.004	-0.001	0.006	-0.008	-0.005	-0.012	-0.010
8/20/2023	-0.008	0.014	0.011	0.016	0.001	0.004	0.000	0.002
8/21/2023	0.002	0.023	0.022	0.024	0.005	0.011	0.009	0.008
8/22/2023	-0.004	0.017	0.009	0.018	0.000	0.006	0.008	-0.008
8/23/2023	-0.011	0.010	0.003	0.009	-0.006	0.000	-0.009	-0.011
8/24/2023	-0.013	0.009	-0.003	0.011	-0.002	0.003	-0.010	-0.015
8/25/2023	-0.013	0.005	-0.003	0.008	-0.006	0.000	-0.016	-0.016
8/26/2023	-0.016	0.005	-0.004	0.004	-0.010	-0.002	-0.018	-0.019
8/27/2023	-0.014	0.005	-0.001	0.003	-0.010	-0.004	-0.014	-0.017
8/28/2023	-0.001	0.017	0.012	0.015	0.003	0.009	-0.002	-0.008
8/29/2023	0.002	0.023	0.016	0.020	0.006	0.017	0.000	-0.003
8/30/2023	0.005	0.026	0.016	0.020	0.011	0.018	0.005	-0.003
8/31/2023	-0.007	0.018	0.007	0.014	0.004	0.013	-0.006	-0.008
9/1/2023	-0.022	0.000	-0.010	0.000	-0.013	-0.007	-0.019	-0.019
9/2/2023	-0.016	0.004	-0.005	0.005	-0.008	-0.006	-0.009	-0.010
9/3/2023	-0.007	0.012	0.000	0.007	-0.008	-0.006	-0.002	-0.016
9/4/2023	-0.010	0.012	0.000	0.007	-0.008	-0.002	-0.002	-0.010
9/5/2023	-0.012	0.008	-0.006	0.007	-0.007	-0.002	-0.015	-0.012
9/6/2023	-0.012	0.010	-0.008	0.005	-0.004	0.004		-0.015
9/7/2023	-0.019	0.005	-0.014	0.010	-0.002	0.001	0.064	-0.025
9/8/2023	-0.005	0.010	0.001	0.008	0.000	0.006		-0.017
9/9/2023	-0.004	0.013	0.006	0.004	-0.001	0.007	0.081	-0.014
9/10/2023	-0.021	-0.003	-0.008	-0.020	-0.015	-0.008	0.062	-0.031
9/11/2023	-0.025	-0.007	-0.013		-0.018	-0.008	0.056	-0.041
9/12/2023	-0.008	0.008	-0.003		0.000	0.006	0.069	-0.025
9/13/2023	-0.013	0.006	-0.004		-0.006	0.004	0.071	-0.024
9/14/2023	-0.017	0.000	-0.010	0.015	-0.010	0.002		-0.015
9/15/2023	-0.015	0.002	-0.006	-0.006	-0.007	0.003		
9/16/2023	-0.019	0.001	-0.005	-0.027	-0.010	-0.002		
9/17/2023	-0.015	0.004	0.000	-0.015	-0.006	-0.001		
9/18/2023	-0.017	0.002	-0.001	-0.012	-0.008	-0.004		
9/19/2023	-0.003	0.018	0.017	0.004	0.010	0.009		
9/20/2023	-0.015	0.003	0.001	0.004	-0.005	-0.005		
9/21/2023	-0.011	0.006	0.003	0.009	-0.003	-0.006		-0.005
9/22/2023	-0.021	0.000	0.002	-0.017	-0.010	-0.020		-0.008
9/23/2023	-0.006	0.015	0.015	0.010	0.002	-0.009		
9/24/2023	-0.024	-0.003	-0.003	-0.005	-0.011	-0.021		

AMTS Y-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
9/25/2023	-0.016	0.005	0.003	-0.006	-0.008	-0.013	-0.007	-0.008
9/26/2023	-0.019	0.003	0.000	0.001	-0.012	-0.014	-0.027	-0.007
9/27/2023	-0.006	0.016	0.009	0.006	0.000	-0.006	-0.016	-0.004
9/28/2023	-0.013	0.010	0.005	0.004	-0.003	-0.010	-0.017	0.002
9/29/2023	-0.021	0.002	-0.005	-0.001	-0.008	-0.010	-0.028	-0.013
9/30/2023	-0.027	-0.008	-0.013	-0.008	-0.018	-0.012	-0.035	-0.018
10/1/2023	-0.015	0.004	-0.001	0.002	-0.007	-0.004	-0.022	-0.004
10/2/2023	0.019	0.051	0.047	0.027	0.007	0.010	0.012	0.023
10/3/2023	0.022	0.031	0.027	0.021	0.007	0.004		0.015
10/4/2023	-0.010	0.005	-0.007	-0.001	-0.013	-0.011	-0.019	-0.002
10/5/2023	-0.018	-0.003	-0.013	-0.003	-0.025	-0.014	-0.019	-0.001
10/6/2023	-0.024	-0.007	-0.017	-0.013	-0.030	-0.018		0.006
10/7/2023	-0.024	-0.007	-0.017	-0.011	-0.029	-0.016		0.003
10/8/2023	-0.022	-0.003	-0.011	-0.017	-0.028	-0.017		0.011

AMTS Z-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
5/19/2023					0.003	0.004		
5/20/2023					0.003	0.008		
5/21/2023					0.009	0.011		
5/22/2023					0.017	0.021		
5/23/2023					0.023	0.025		
5/24/2023		0.010	0.000		0.023	0.022		
5/25/2023		0.017	0.004	-0.017	0.024	0.020		
5/26/2023		0.013	0.001		0.027	0.020		
5/27/2023		0.016	0.006		0.034	0.028		
5/28/2023		0.010	0.004		0.030	0.021		
5/29/2023		0.011	0.002	0.000	0.027	0.026		
5/30/2023		0.010	-0.002		0.032	0.029		
5/31/2023		0.011	-0.003		0.030	0.028		
6/1/2023		0.008	0.000	-0.026	0.027	0.021		
6/2/2023		0.012	-0.003		0.031	0.026		
6/3/2023		0.012	-0.004		0.033	0.024		
6/4/2023		0.012	-0.004		0.037	0.028		
6/5/2023		0.014	-0.001		0.033	0.026		
6/6/2023		0.022	0.008		0.039	0.036		
6/7/2023		0.023	0.008		0.035	0.028		
6/8/2023		0.025	0.008	0.012	0.033	0.030		
6/9/2023		0.021	0.007	0.005	0.034	0.029		
6/10/2023		0.024	0.012	0.014	0.038	0.033		
6/11/2023		0.021	0.008	0.015	0.034	0.028		
6/12/2023		0.021	0.009	0.012	0.029	0.028		
6/13/2023		0.020	0.009	0.001	0.029	0.025		
6/14/2023		0.014	0.005	0.006	0.023	0.018		
6/15/2023		0.010	0.003	0.000	0.024	0.020		
6/16/2023		0.012	0.008	0.004	0.027	0.025		
6/17/2023		0.013	0.004	-0.014	0.025	0.026		
6/18/2023		0.021	0.011	-0.001	0.032	0.037		
6/19/2023		0.020	0.007	0.005	0.034	0.031		
6/20/2023		0.022	0.010	0.018	0.033	0.029		
6/21/2023		0.026	0.010	0.012	0.037	0.035		
6/22/2023		0.025	0.013	0.012	0.034	0.030		
6/23/2023		0.025	0.016	0.005	0.031	0.026		
6/24/2023		0.024	0.015	0.004	0.029	0.027		
6/25/2023		0.027	0.015	0.010	0.033	0.033		
6/26/2023		0.028	0.017	0.013	0.034	0.030		
6/27/2023		0.029	0.020	0.017	0.039	0.034		
6/28/2023		0.026	0.015	0.013	0.038	0.037		
6/29/2023		0.023	0.012	0.015	0.038	0.039		
6/30/2023		0.023	0.017	0.014	0.038	0.038		

AMTS Z-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
7/1/2023		0.025	0.013	0.014	0.038	0.041		
7/2/2023		0.025	0.015	0.015	0.039	0.039		
7/3/2023		0.024	0.016	0.013	0.039	0.038		
7/4/2023			0.015	0.014	0.039	0.039		
7/5/2023		0.026	0.017	0.016	0.041	0.040		
7/6/2023		0.024	0.014	0.016	0.041	0.043		
7/7/2023		0.028	0.014	0.017	0.038	0.041		
7/8/2023		0.027	0.015	0.016	0.039	0.044		
7/9/2023		0.025	0.012	0.013	0.040	0.044		
7/10/2023		0.022	0.012	0.014	0.042	0.047		
7/11/2023		0.024	0.013	0.015	0.044	0.052		
7/12/2023		0.026	0.013	0.018	0.044	0.053		
7/13/2023		0.023	0.010	0.011	0.041	0.050		
7/14/2023		0.027	0.014	0.017	0.045	0.054		
7/15/2023		0.023	0.004	0.015	0.046	0.058		
7/16/2023		0.022	0.007	0.013	0.042	0.051		
7/17/2023		0.028	0.013	0.019	0.047	0.056		
7/18/2023		0.033	0.019	0.021	0.047	0.058		
7/19/2023	0.001	0.033	0.024	0.027	0.055	0.062	0.010	0.003
7/20/2023	0.001	0.033	0.023	0.026	0.055	0.061	0.009	0.004
7/21/2023	0.000	0.031	0.022	0.023	0.052	0.058	0.008	0.002
7/22/2023	-0.002	0.029	0.016	0.019	0.050	0.055	0.009	0.000
7/23/2023	-0.005	0.026	0.016	0.018	0.048	0.055	0.005	-0.002
7/24/2023	-0.003	0.030	0.019	0.018	0.049	0.056	0.006	-0.003
7/25/2023	-0.001	0.029	0.015	0.023	0.048	0.062	0.006	0.004
7/26/2023	-0.003	0.028	0.019	0.024	0.055	0.061	0.014	0.012
7/27/2023	0.012	0.039	0.025	0.033	0.058	0.063	0.026	0.027
7/28/2023	0.011	0.044	0.029	0.036	0.060	0.063	0.025	0.027
7/29/2023	0.011	0.042	0.033	0.036	0.060	0.058	0.026	0.020
7/30/2023	0.009	0.040	0.027	0.035	0.060	0.060	0.026	0.018
7/31/2023	0.007	0.038	0.029	0.032	0.058	0.058	0.021	0.016
8/1/2023	0.010	0.041	0.027	0.033	0.056	0.058	0.026	0.025
8/2/2023	0.009	0.040	0.025	0.034	0.055	0.056	0.025	0.026
8/3/2023	0.009	0.041	0.030	0.034	0.058	0.056	0.023	0.024
8/4/2023	0.017	0.045	0.035	0.037	0.063	0.062	0.031	0.029
8/5/2023	0.013	0.044	0.032	0.038	0.064	0.061	0.030	0.026
8/6/2023	0.011	0.041	0.035	0.035	0.062	0.058	0.026	0.012
8/7/2023	0.006	0.037	0.029	0.029	0.058	0.055	0.018	0.004
8/8/2023	0.006	0.038	0.029	0.031	0.058	0.053	0.018	0.001
8/9/2023	0.005	0.038	0.032	0.030	0.056	0.053	0.020	0.001
8/10/2023	0.006	0.038	0.029	0.031	0.057	0.054	0.020	0.002
8/11/2023	0.008	0.040	0.029	0.031	0.059	0.057	0.020	0.004
8/12/2023	0.012	0.046	0.034	0.035	0.063	0.064	0.022	0.008

AMTS Z-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
8/13/2023	0.011	0.045	0.032	0.036	0.064	0.065	0.022	0.009
8/14/2023	0.011	0.044	0.034	0.034	0.064	0.060	0.019	0.003
8/15/2023	0.013	0.046	0.035	0.037	0.063	0.063	0.022	0.009
8/16/2023	0.018	0.050	0.038	0.039	0.068	0.065	0.031	
8/17/2023	0.018	0.053	0.038	0.041	0.066	0.069	0.035	-0.002
8/18/2023	0.023	0.052	0.037	0.043	0.068	0.071	0.040	0.002
8/19/2023	0.018	0.050	0.034	0.041	0.066	0.067	0.038	-0.006
8/20/2023	0.026	0.053	0.042	0.049	0.071	0.072	0.037	-0.004
8/21/2023	0.015	0.045	0.029	0.045	0.066	0.068	0.022	-0.015
8/22/2023	0.016	0.048	0.036	0.051	0.073	0.081	0.017	-0.011
8/23/2023	0.028	0.059	0.050	0.056	0.081	0.085	0.041	-0.006
8/24/2023	0.027	0.061	0.050	0.049	0.078	0.082	0.036	-0.007
8/25/2023	0.025	0.055	0.044	0.051	0.073	0.080	0.036	-0.013
8/26/2023	0.030	0.059	0.044	0.051	0.077	0.081	0.036	-0.008
8/27/2023	0.029	0.061	0.047	0.048	0.075	0.079	0.043	-0.007
8/28/2023	0.030	0.063	0.050	0.050	0.078	0.080	0.046	-0.002
8/29/2023	0.033	0.066	0.055	0.051	0.080	0.078	0.048	-0.003
8/30/2023	0.027	0.061	0.051	0.047	0.078	0.075	0.040	-0.009
8/31/2023	0.017	0.055	0.044	0.045	0.068	0.071	0.036	-0.012
9/1/2023	0.023	0.056	0.042	0.044	0.069	0.072	0.039	-0.010
9/2/2023	0.022	0.056	0.041	0.052	0.077	0.086	0.046	-0.008
9/3/2023	0.021	0.054	0.038	0.050	0.082	0.081	0.004	0.001
9/4/2023	0.031	0.062	0.050	0.059	0.087	0.088	0.035	0.002
9/5/2023	0.042	0.073	0.058	0.064	0.089	0.091	0.050	0.011
9/6/2023	0.046	0.079	0.068	0.065	0.086	0.090		0.014
9/7/2023	0.035	0.075	0.063	0.063	0.079	0.070	0.145	-0.004
9/8/2023	0.020	0.070	0.051	0.061	0.077	0.069		-0.025
9/9/2023	0.018	0.067	0.050	0.056	0.072	0.062	0.107	-0.026
9/10/2023	0.012	0.064	0.052	0.047	0.068	0.055	0.103	-0.031
9/11/2023	0.011	0.064	0.054		0.066	0.054	0.101	-0.037
9/12/2023	0.010	0.067	0.055		0.071	0.059	0.099	-0.047
9/13/2023	0.013	0.066	0.054		0.072	0.062	0.098	-0.038
9/14/2023	0.014	0.066	0.052	0.060	0.072	0.063		-0.031
9/15/2023	0.014	0.066	0.053	0.054	0.071	0.062		
9/16/2023	0.014	0.066	0.052	0.054	0.069	0.058		
9/17/2023	0.015	0.065	0.052	0.057	0.070	0.060		
9/18/2023	0.018	0.067	0.051	0.062	0.071	0.061		
9/19/2023	0.017	0.080	0.052	0.073	0.086	0.065		
9/20/2023	0.028	0.076	0.063	0.068	0.081	0.073		
9/21/2023	0.027	0.077	0.060	0.066	0.080	0.075		0.011
9/22/2023	0.041	0.089	0.072	0.073	0.090	0.088		0.030
9/23/2023	0.043	0.086	0.072	0.084	0.098	0.091		
9/24/2023	0.041	0.091	0.080	0.083	0.096	0.087		

AMTS Z-Axis Readings - Average Daily Values (Change in Inches)								
Date	MPEB	MPEM	MPET	MPWB	MPWM	MPWT	RW1	RW2
9/25/2023	0.037	0.090	0.076	0.073	0.097	0.084	-0.038	0.022
9/26/2023	0.035	0.084	0.076	0.076	0.087	0.082	-0.028	0.027
9/27/2023	0.031	0.077	0.068	0.069	0.088	0.077	-0.029	0.016
9/28/2023	0.032	0.078	0.071	0.073	0.087	0.079	-0.029	0.020
9/29/2023	0.030	0.074	0.071	0.072	0.087	0.077	-0.032	0.010
9/30/2023	0.029	0.079	0.070	0.071	0.087	0.076	-0.036	0.006
10/1/2023	0.033	0.080	0.070	0.071	0.084	0.083	-0.036	0.012
10/2/2023	0.039	0.071	0.054	0.060	0.081	0.082	-0.029	0.029
10/3/2023	0.028	0.077	0.070	0.079	0.113	0.109		0.005
10/4/2023	0.039	0.099	0.098	0.084	0.114	0.097	-0.029	0.026
10/5/2023	0.046	0.092	0.088	0.088	0.103	0.095	-0.023	0.020
10/6/2023	0.046	0.094	0.085	0.089	0.102	0.094		0.000
10/7/2023	0.045	0.094	0.083	0.083	0.100	0.093		-0.005
10/8/2023	0.048	0.093	0.082	0.086	0.101	0.095		-0.002