Westlake US 2 Received 11/11/2023

TSX/PAZ Satellite Update InSAR Subsidence November 6, 2023

Longuist comment:

The TSX satellite from the TSX/PAZ constellation (4 & 7-day revisit) passed by Sulphur on Monday November 6. We received the dataset Wednesday and verified that none of the datapoint areas around the dome and caverns near the western flank are showing deviation from their respective trends. The attached time series plots have been prepared for reference.



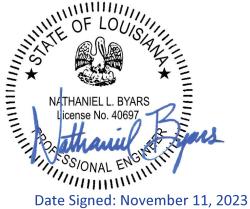
TSX/PAZ Satellite Update

Continuous InSAR Monitoring of Ground Displacement Near Western Caverns and Dome Flank

Sulphur Mines Salt Dome

Prepared for: Westlake Chemical

Prepared by: Lonquist & Co., LLC 8591 United Plaza Blvd. Suite 280 Baton Rouge, LA 70809



Austin, Texas

Nathaniel L. Byars, P.E. Principal Engineer Louisiana License No. 40697

Dataset

Satellite Source

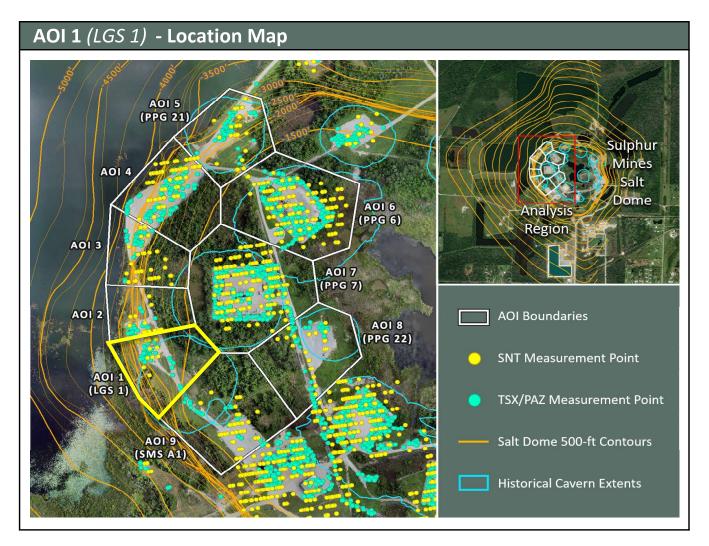
TerraSAR-X - PAZ Constellation

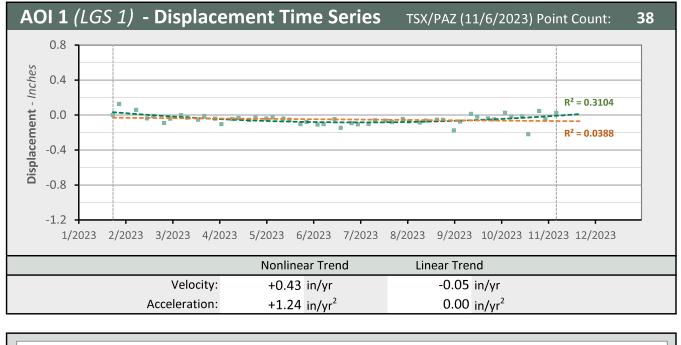
Most Recent Image Date

Monday, November 6, 2023

Analysis Report Date:

November 11, 2023

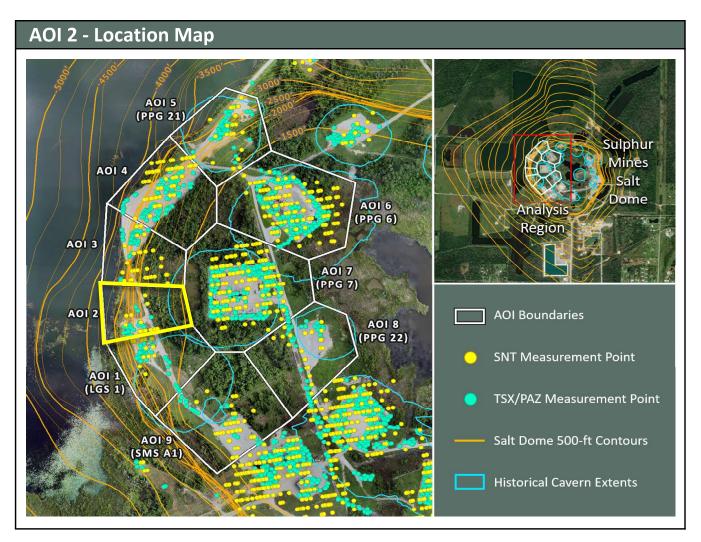


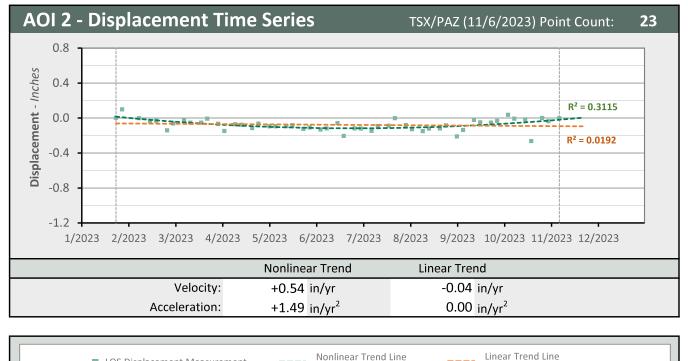


Nonlinear Trend Line	
(Quadratic Regression)	

Linear Trend Line (Linear Regression)

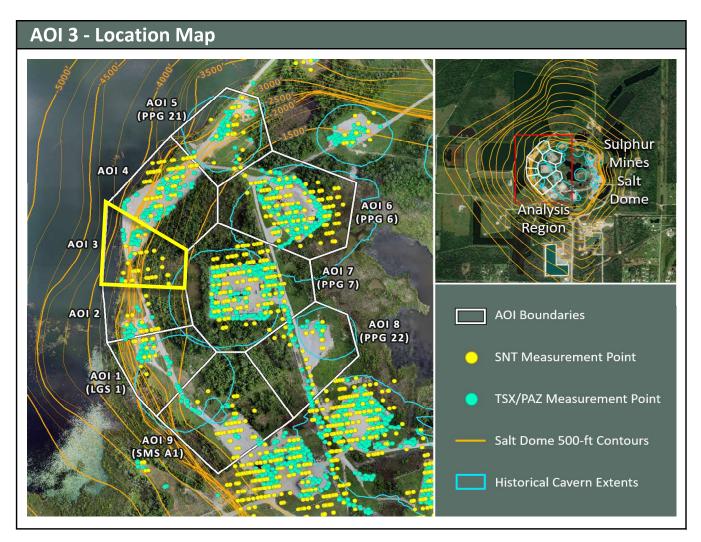
LOS Displacement Measurement

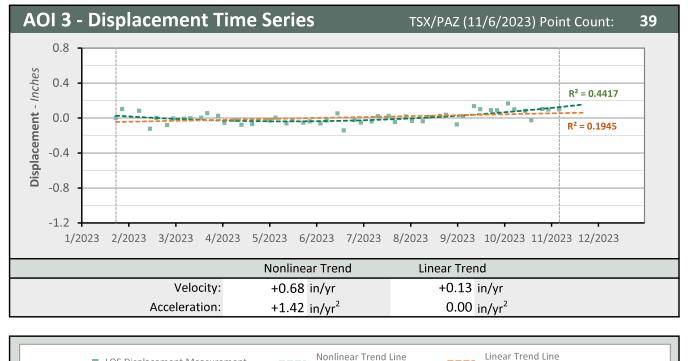




LOS Displacement Measurement

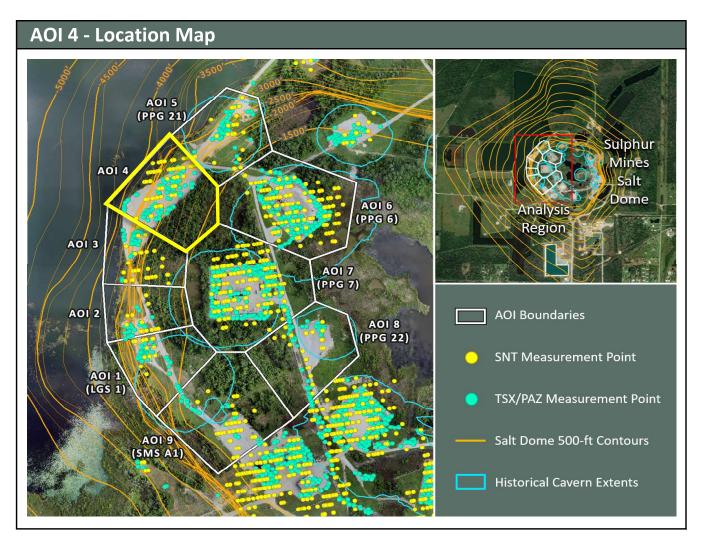
(Quadratic Regression)

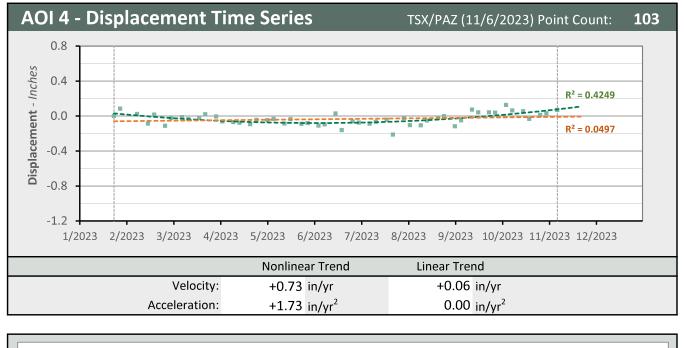




LOS Displacement Measurement

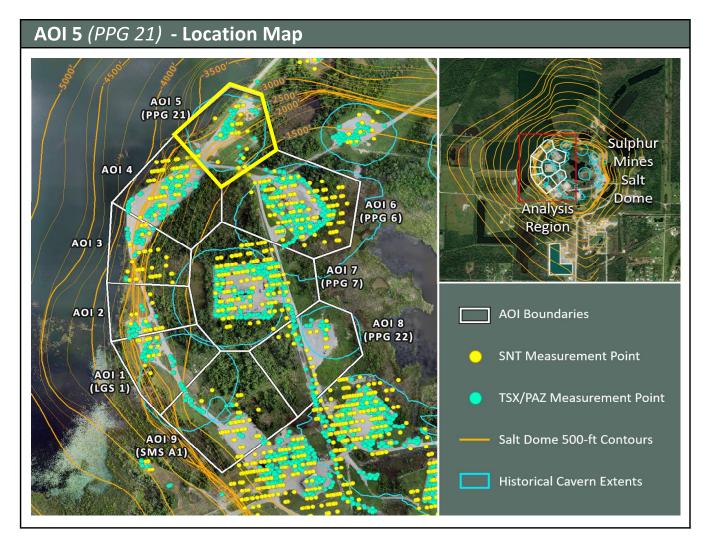
(Quadratic Regression)

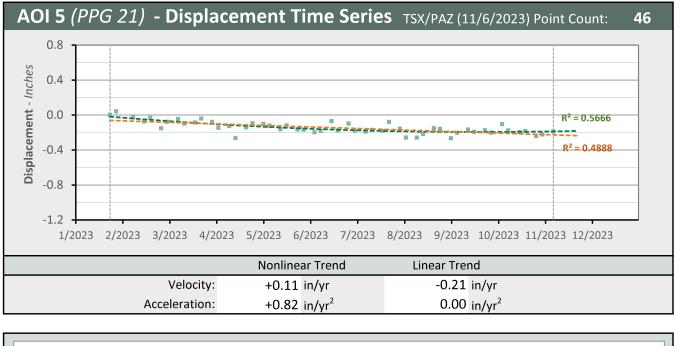




Nonlinear Trend Line (Quadratic Regression) Linear Trend Line (Linear Regression)

LOS Displacement Measurement





Dataset: TSXPAZ (11-6-2023).xlsx	
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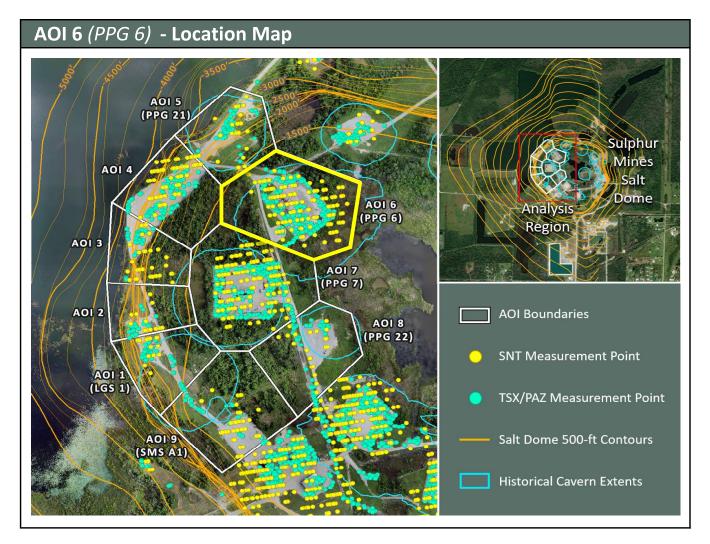
LOS Displacement Measurement

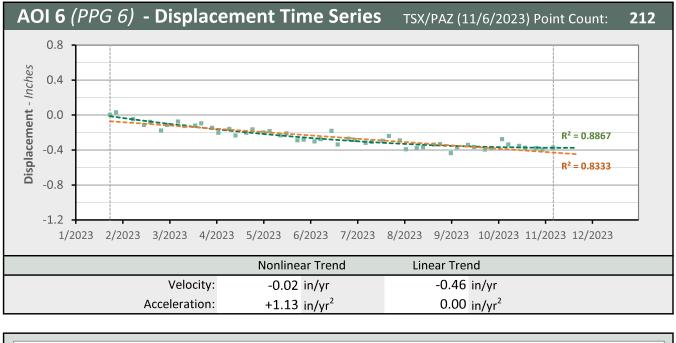
Nonlinear Trend Line

(Quadratic Regression)

Analysis Date: 11/11/2023

Linear Trend Line





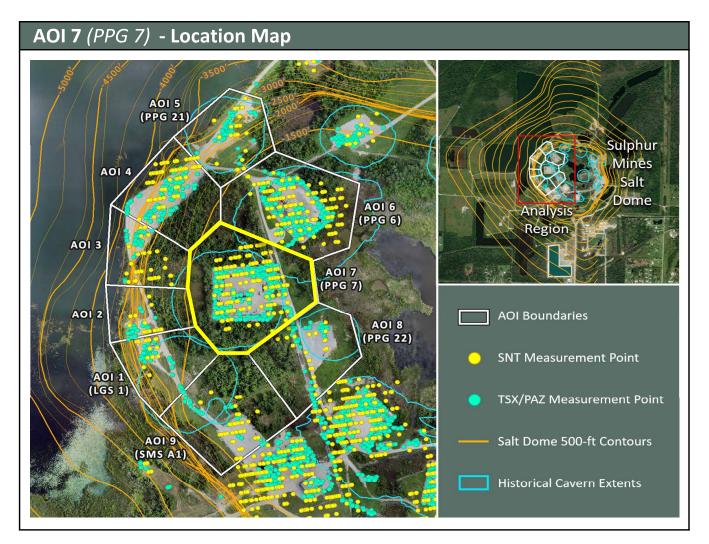
Dataset: TSXPAZ (2	11-6-2023).xlsx
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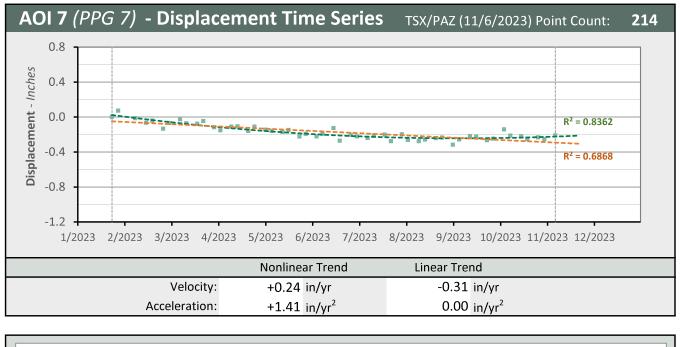
LOS Displacement Measurement

Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line



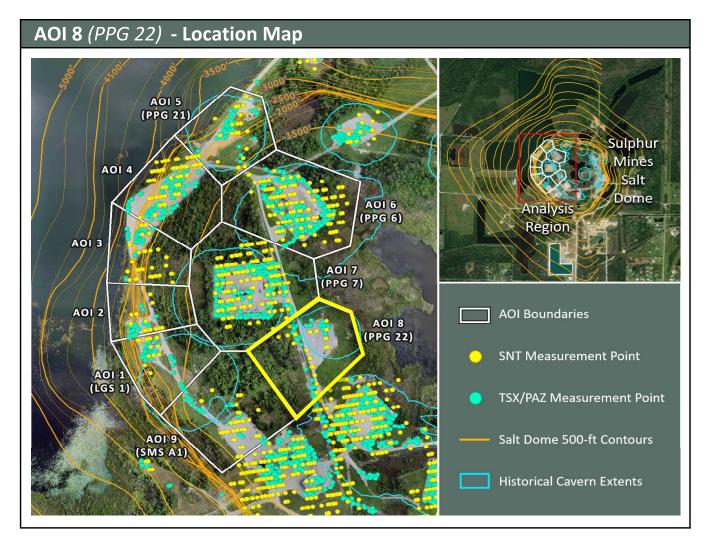


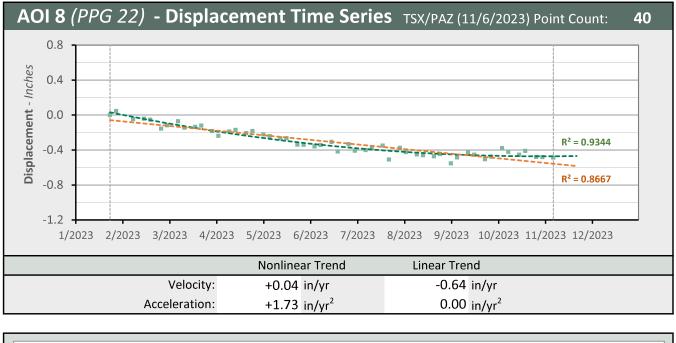
LOS Displacement Measurement

Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line



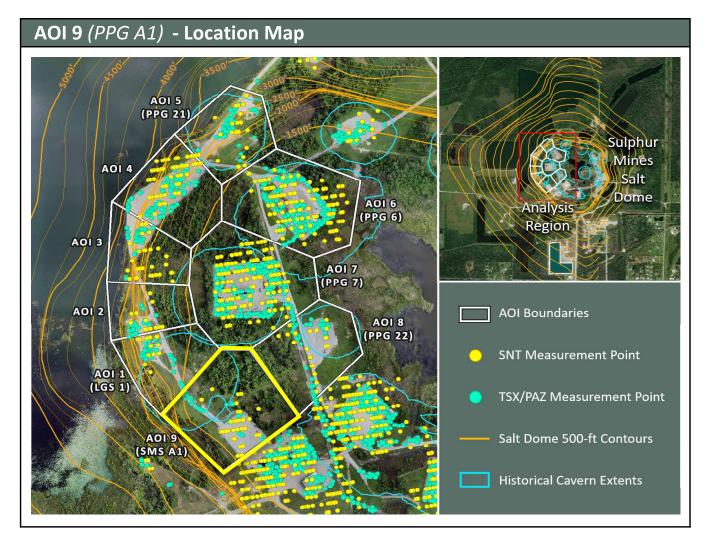


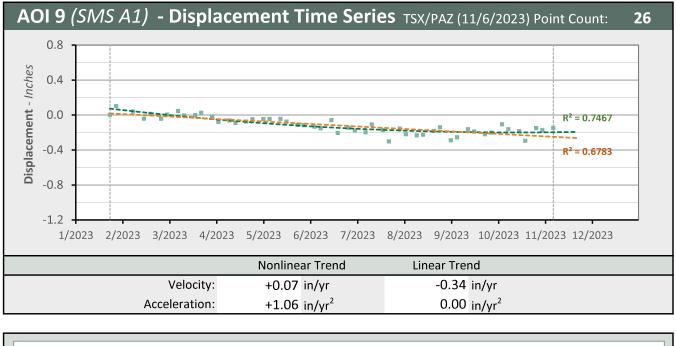
LOS Displacement Measurement

Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line





Dataset: TSXPAZ (11-6-2023).xlsx

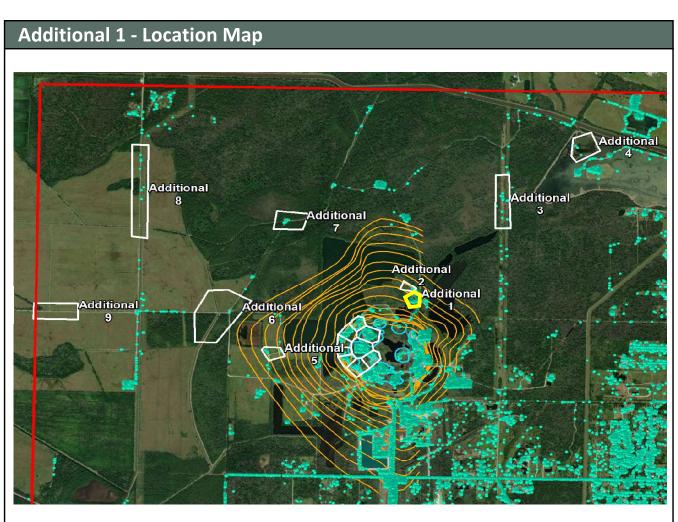
LOS Displacement Measurement

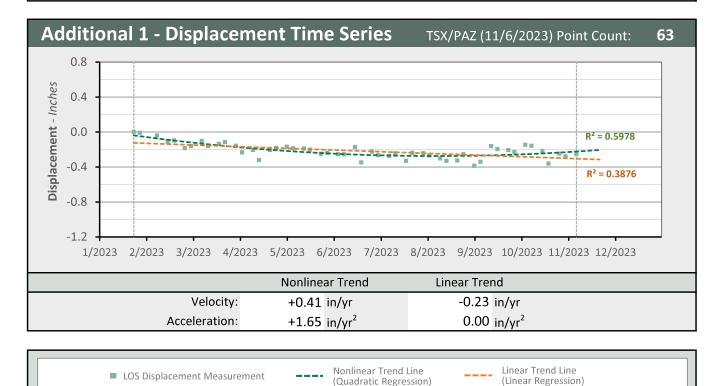
Nonlinear Trend Line

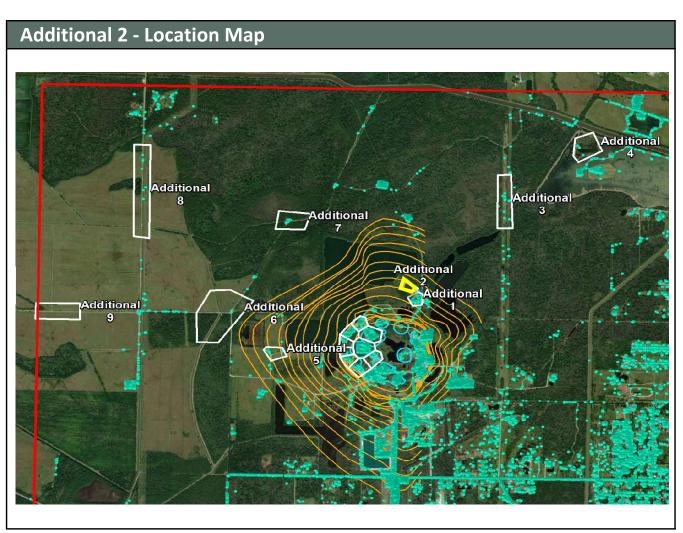
(Quadratic Regression)

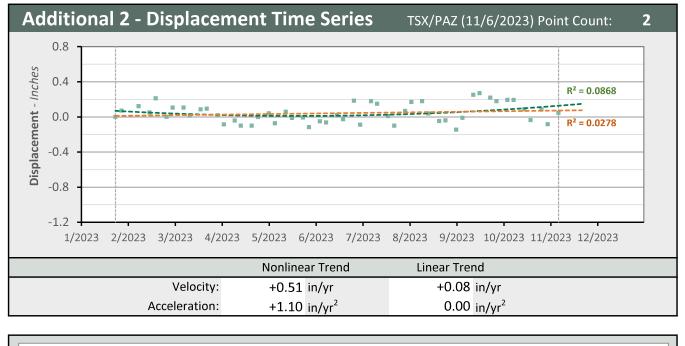
Analysis Date: 11/11/2023

Linear Trend Line



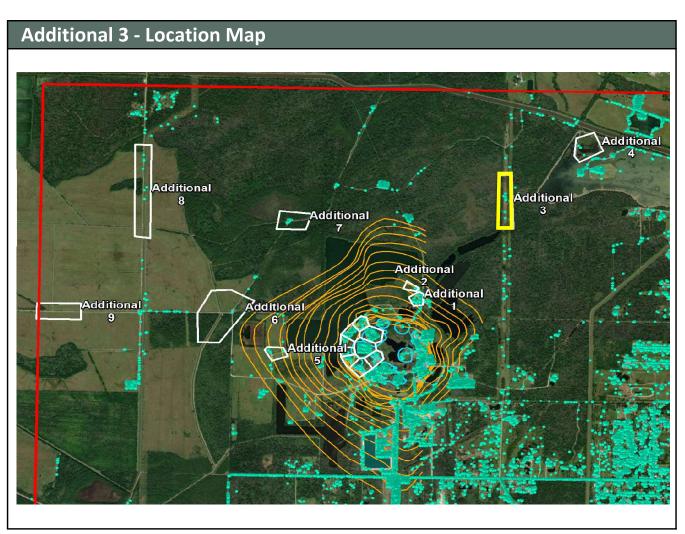


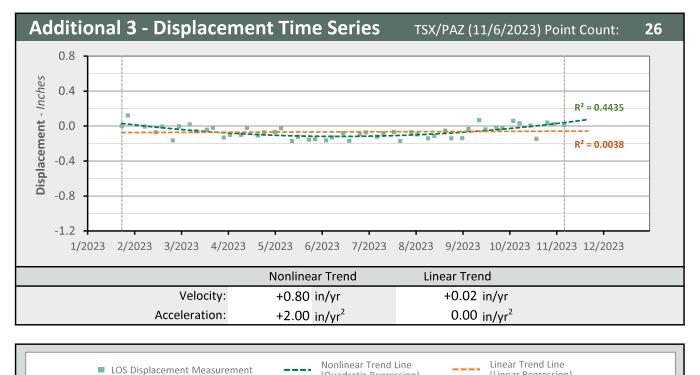




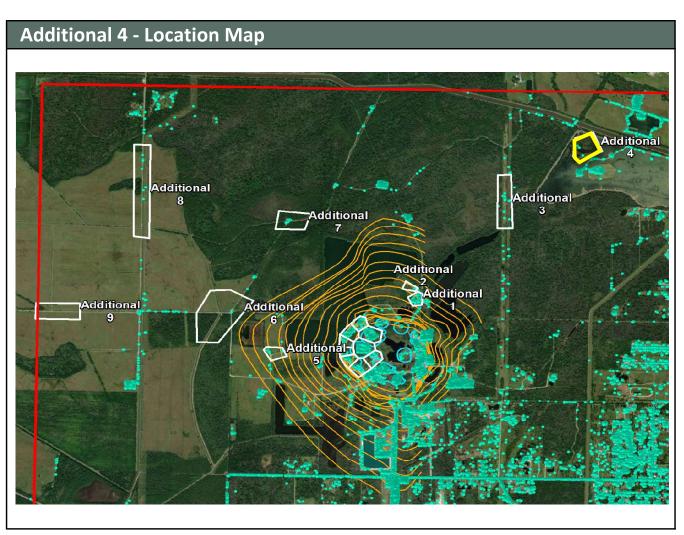
LOS Displacement Measurement Nonlinear Trend Line (Quadratic Regression)

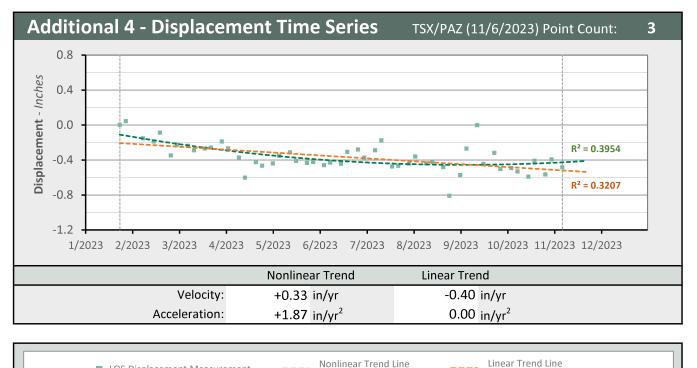
Linear Trend Line (Linear Regression)





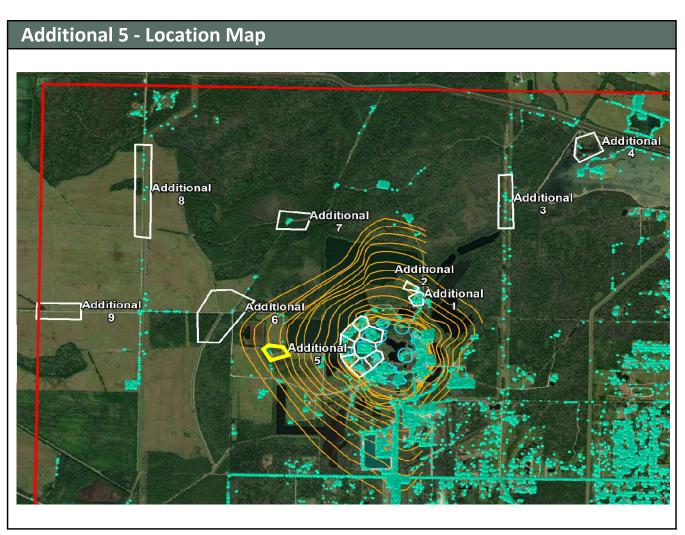
(Quadratic Regression)

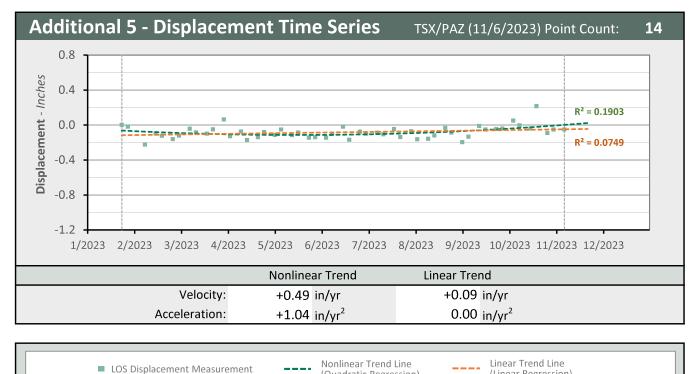




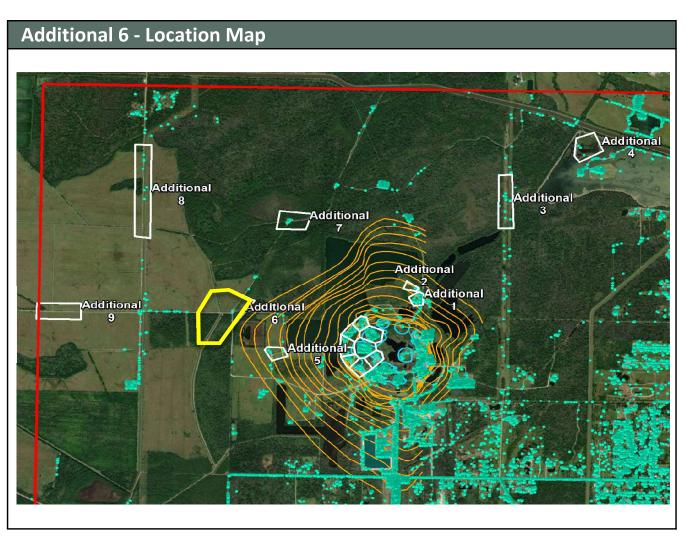
LOS Displacement Measurement

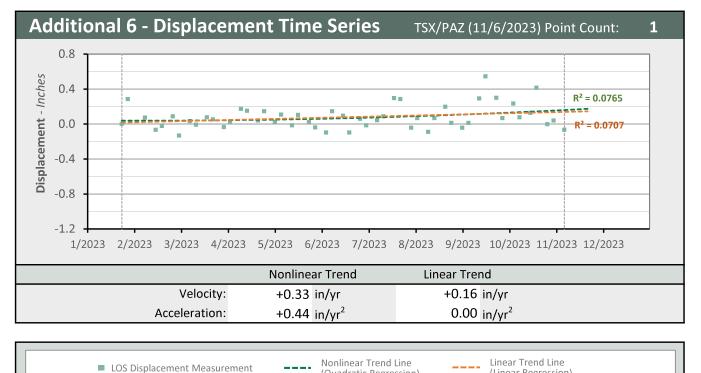
(Quadratic Regression)



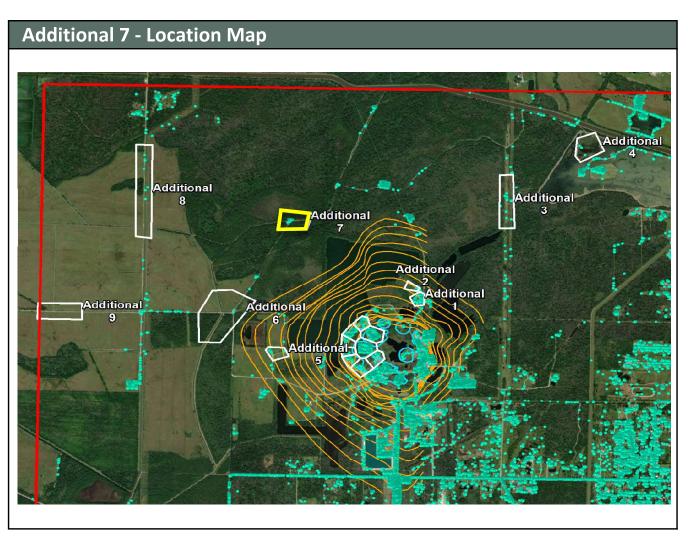


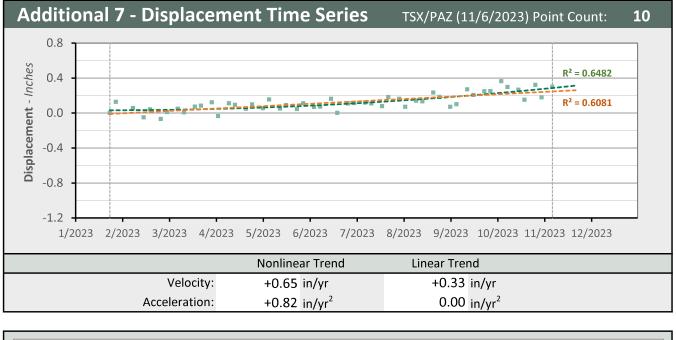
(Quadratic Regression)





(Quadratic Regression)

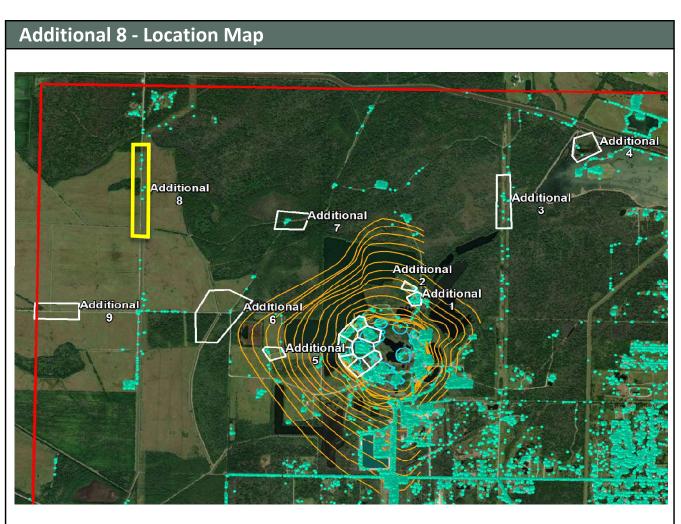


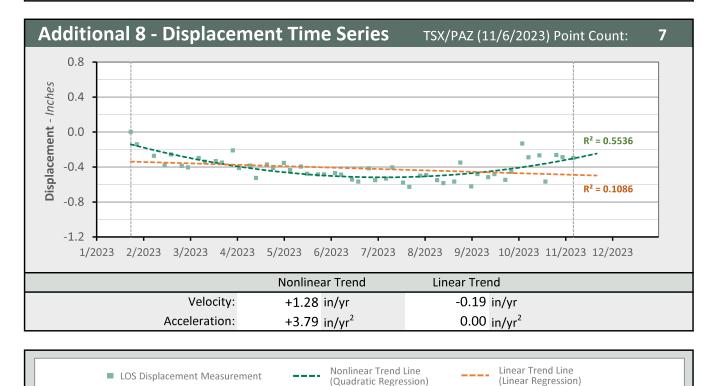


LOS Displacement Measurement
Monlinear Trend Line
(Quadratic Regression)

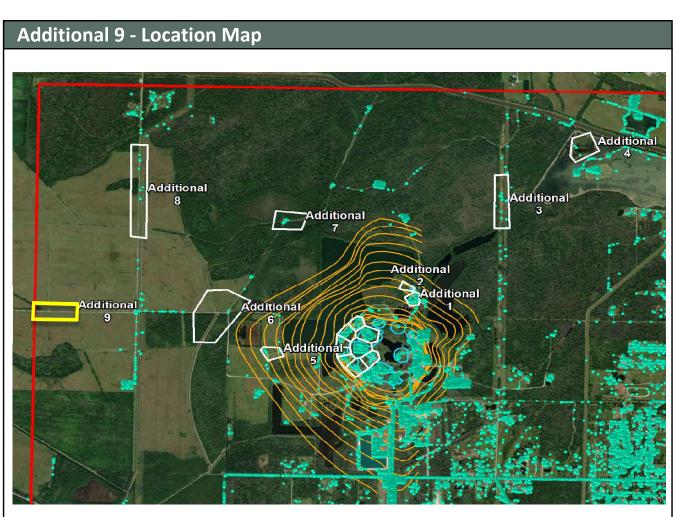
Dataset: TSXPAZ (11-6-2023).xlsx

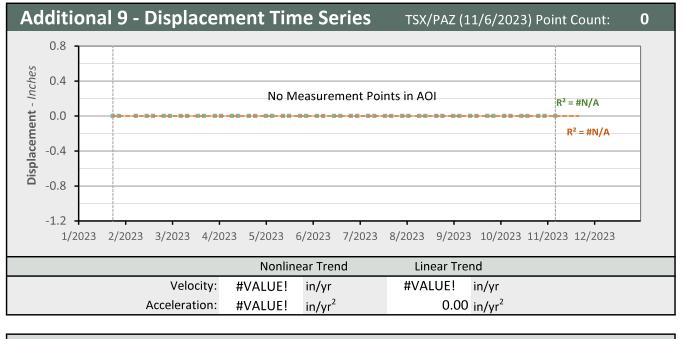
Linear Trend Line





(Quudrutie hegression





LOS Displacement Measurement ---- Nonlinear Trend Line (Quadratic Regression) Linear Trend Line (Linear Regression)