Westlake US 2 Received 11/23/2023

TSX/PAZ Satellite Update InSAR Subsidence November 17, 2023

Longuist comment:

The TSX satellite from the TSX/PAZ constellation (4 & 7-day revisit) passed by Sulphur on Friday November 17. We received the dataset Sunday 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

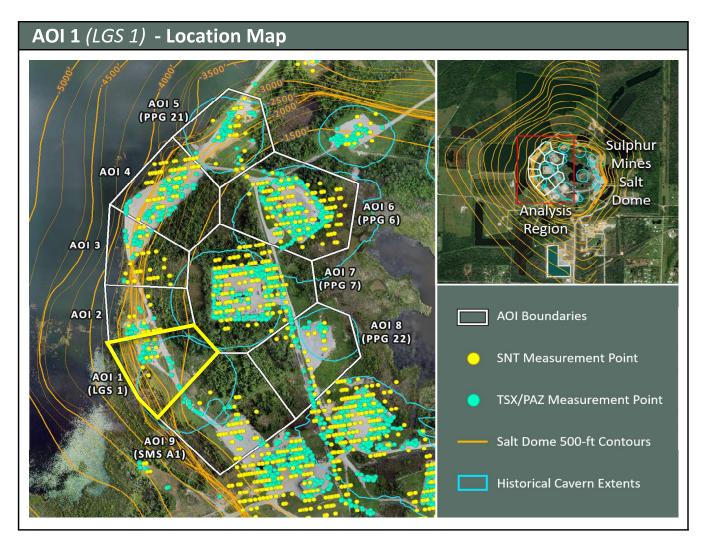
TerraSAR-X - PAZ Constellation

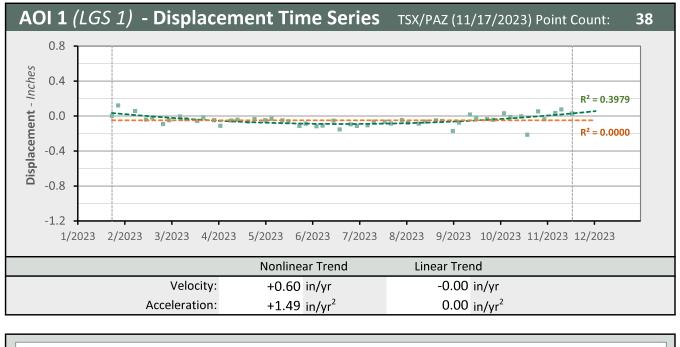
Most Recent Image Date

Friday, November 17, 2023

Analysis Report Date:

November 23, 2023

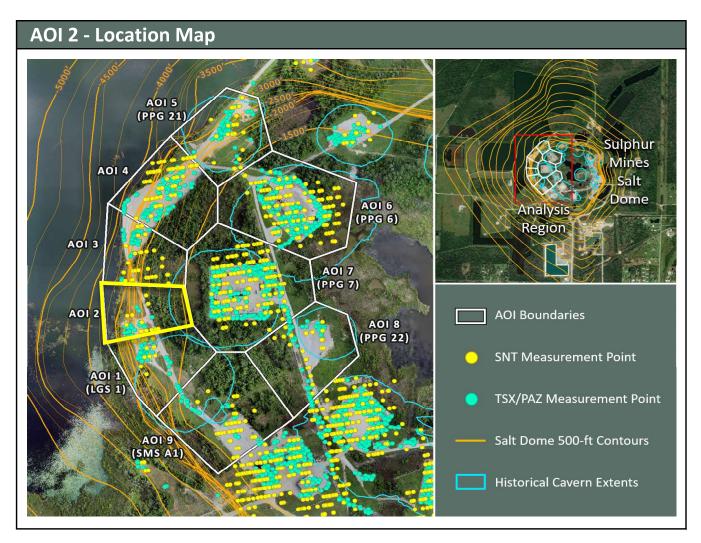


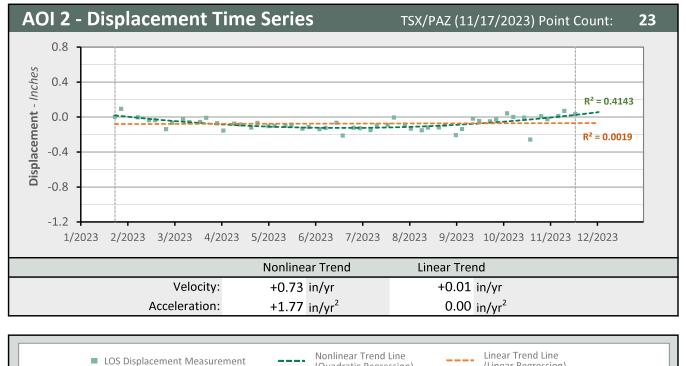


Nonlinear Trend Line (Quadratic Regression)

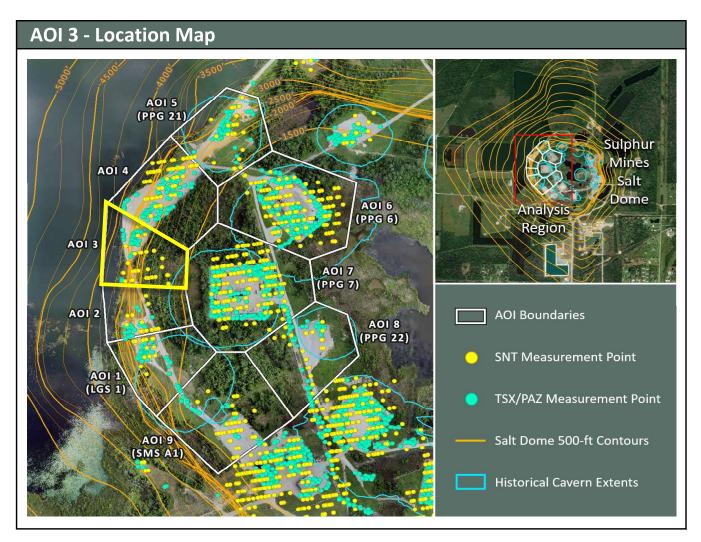
Linear Trend Line (Linear Regression)

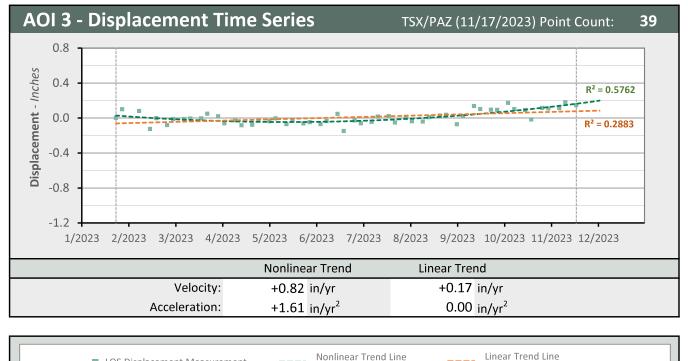
LOS Displacement Measurement





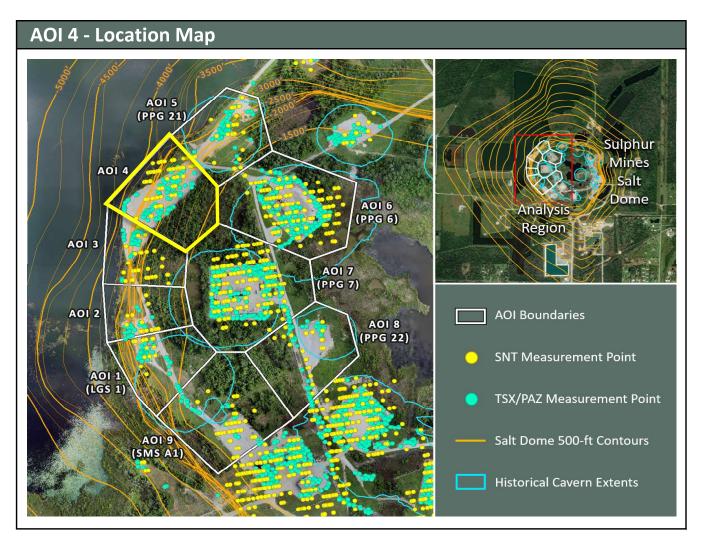
(Quadratic Regression)

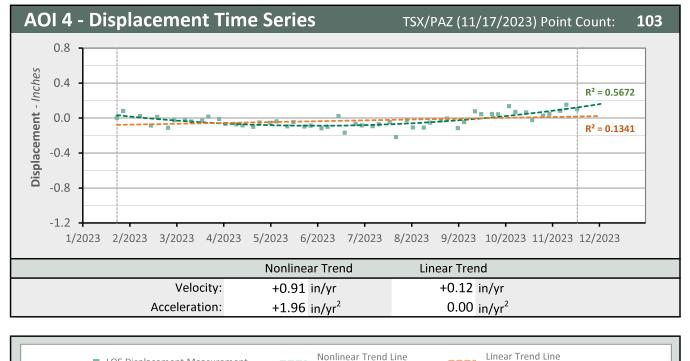




LOS Displacement Measurement

(Quadratic Regression)

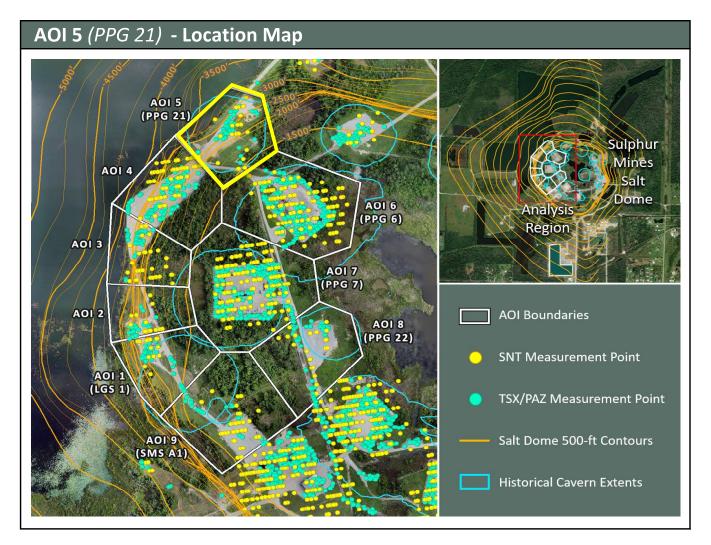


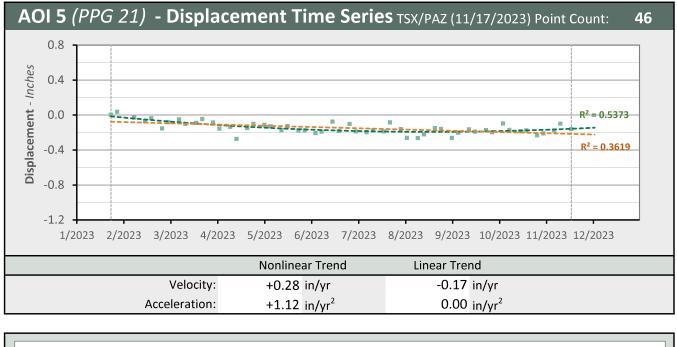


LOS Displacement Measurement

(Quadratic Regression)

LONQUIST & CO. LLC





Dataset: TSXPAZ (11-17-2023).xlsx

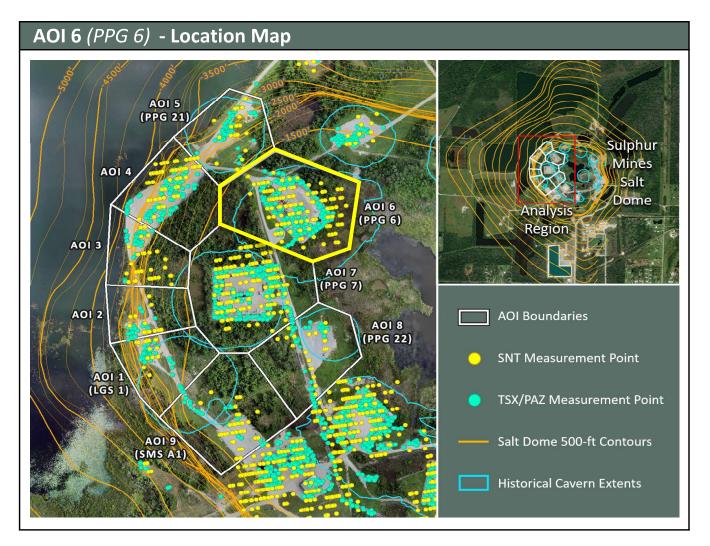
LOS Displacement Measurement

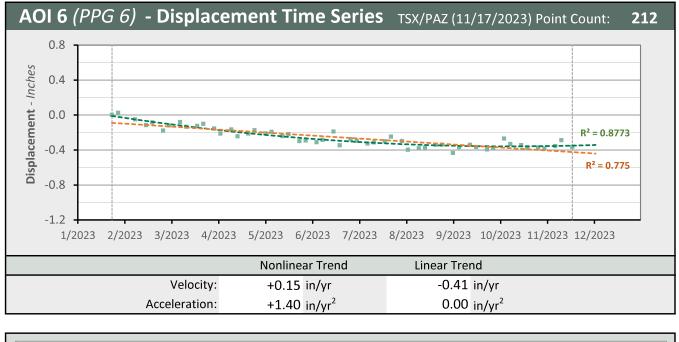
Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line

LOS Displacement Time Series - AOI Point Groups





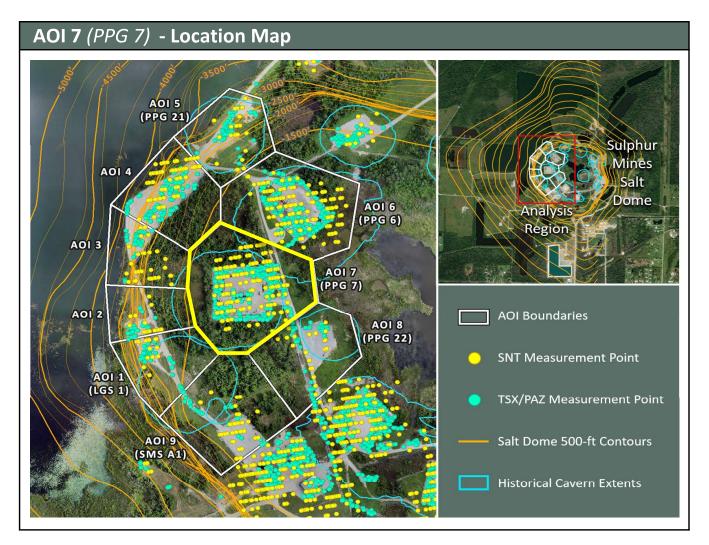
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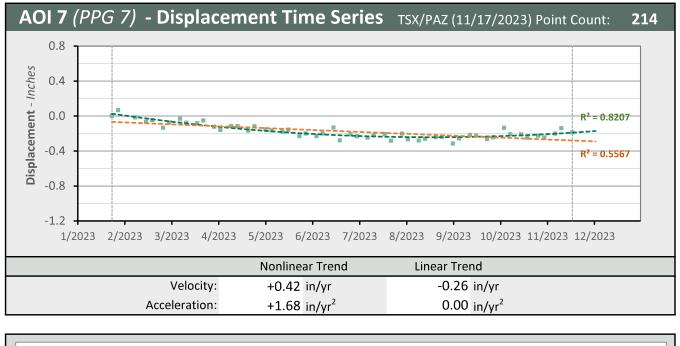
LOS Displacement Measurement

Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line





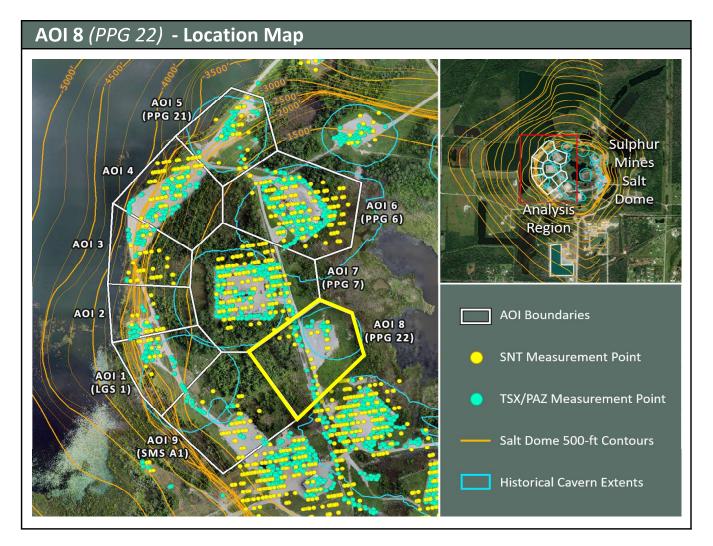
LOS Displacement Measurement

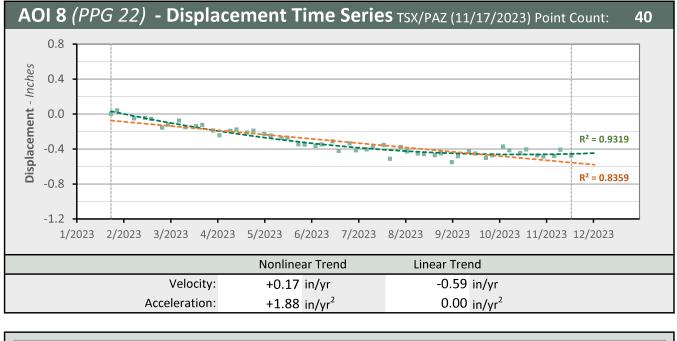
Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line

LONQUIST & CO. LLC





Dataset: TSXPAZ (11-17-2023).xlsx

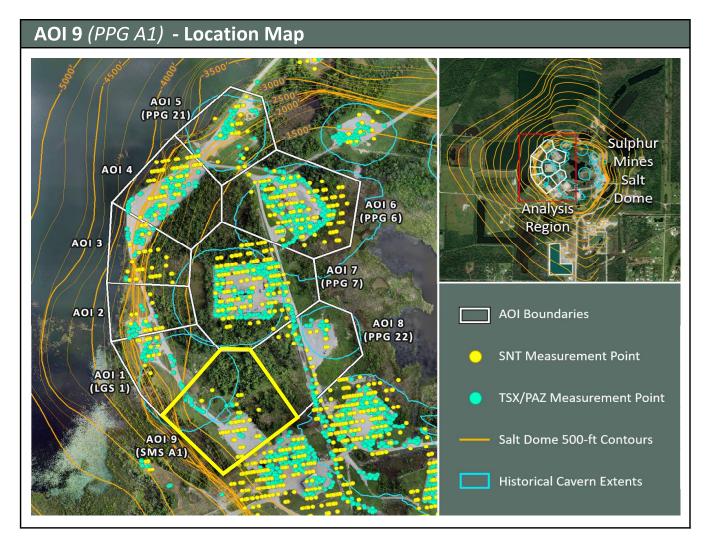
LOS Displacement Measurement

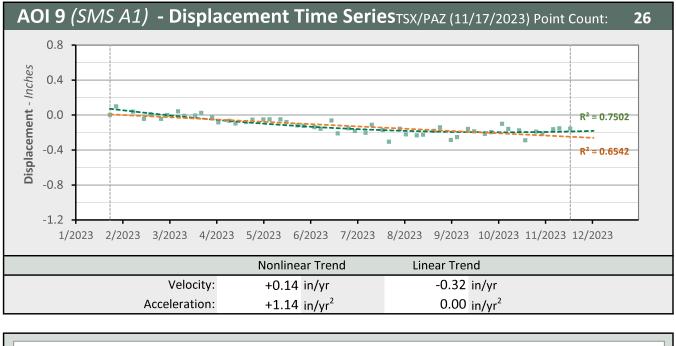
Nonlinear Trend Line

(Quadratic Regression)

Linear Trend Line

LONQUIST & CO. LLC





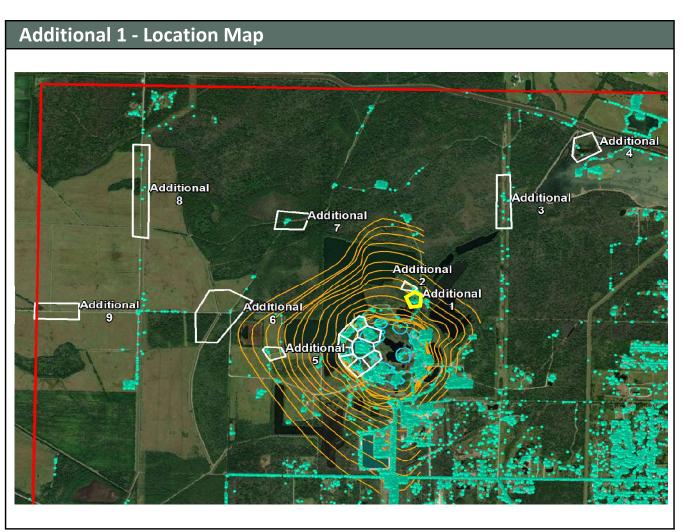
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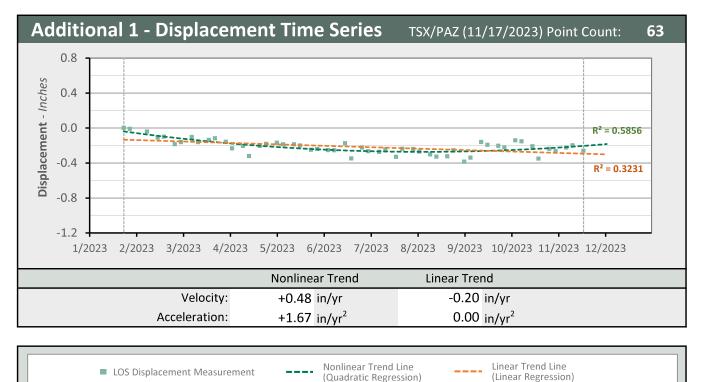
LOS Displacement Measurement

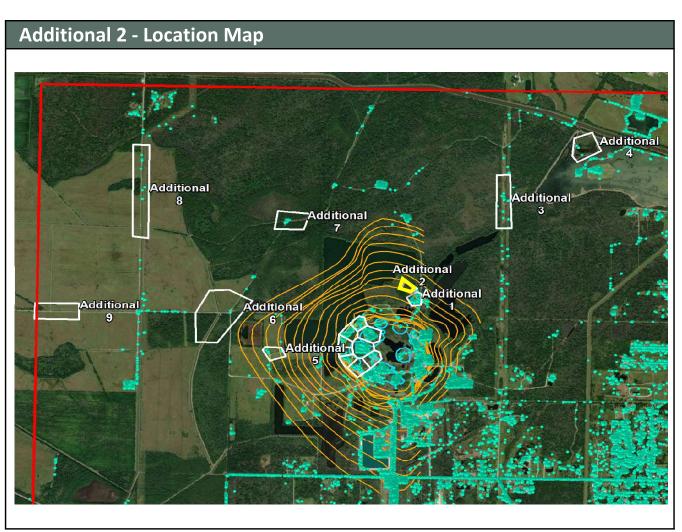
Nonlinear Trend Line

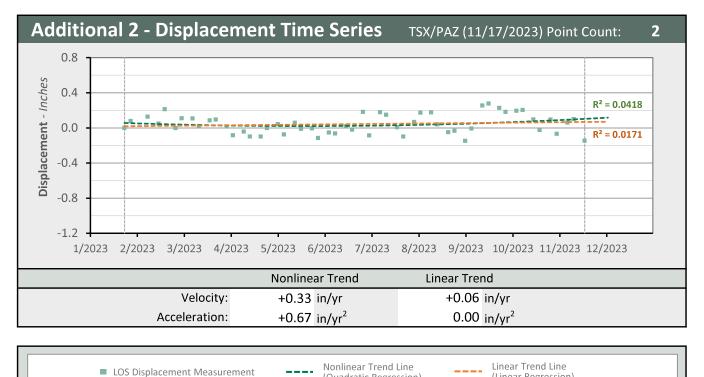
(Quadratic Regression)

Linear Trend Line

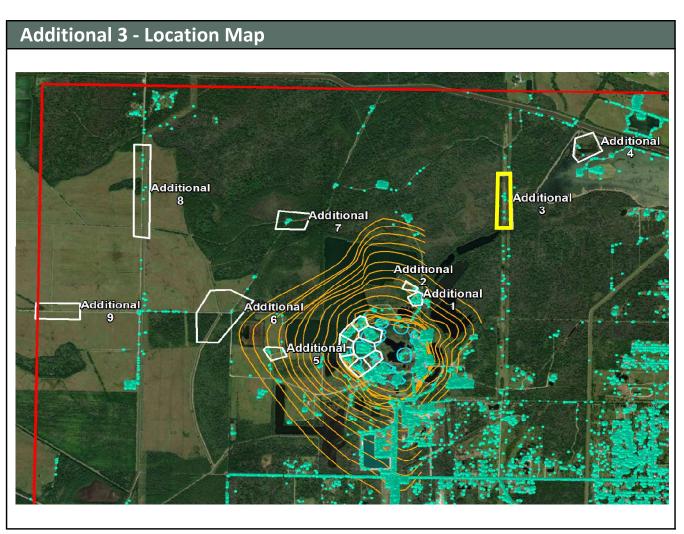


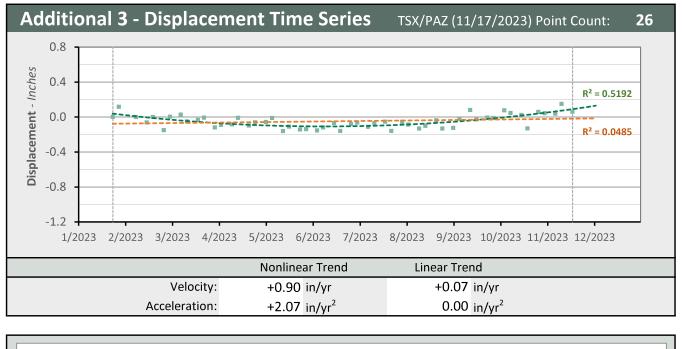






(Quadratic Regression)

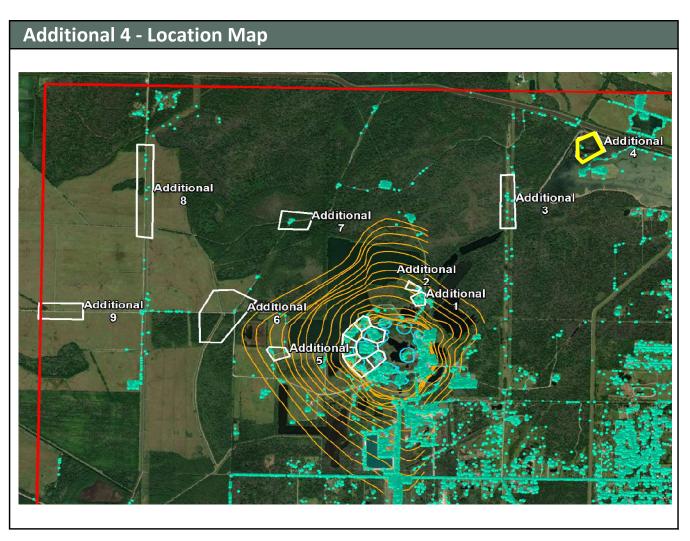


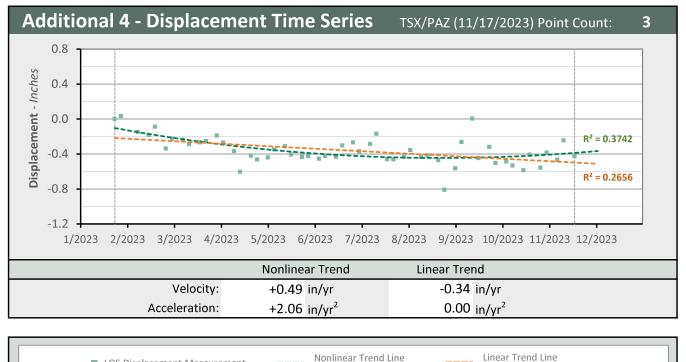


Nonlinear Trend Line Li (Quadratic Regression) (L

Linear Trend Line (Linear Regression)

LOS Displacement Measurement

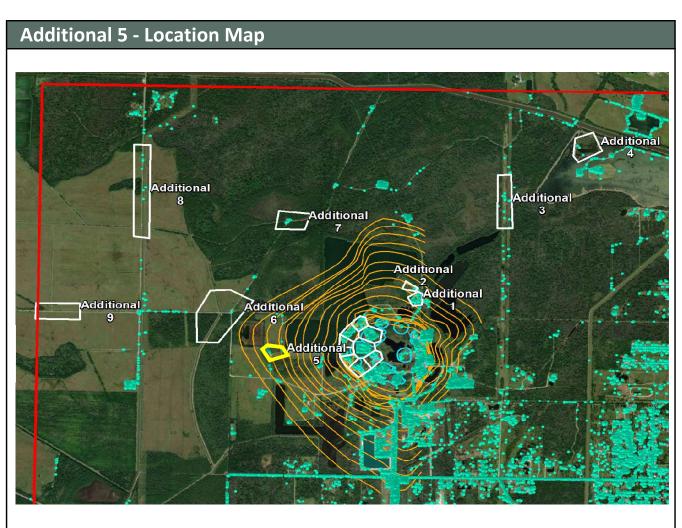


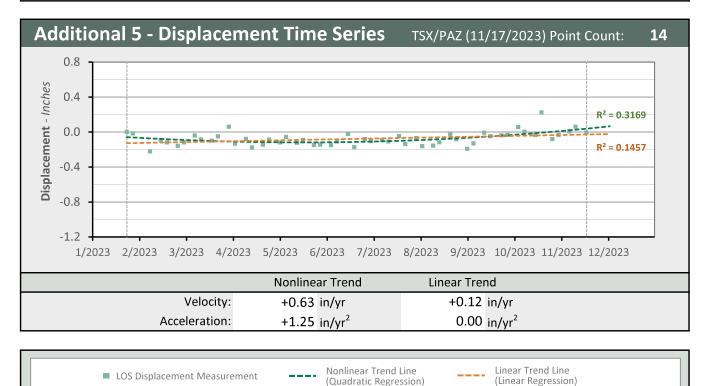


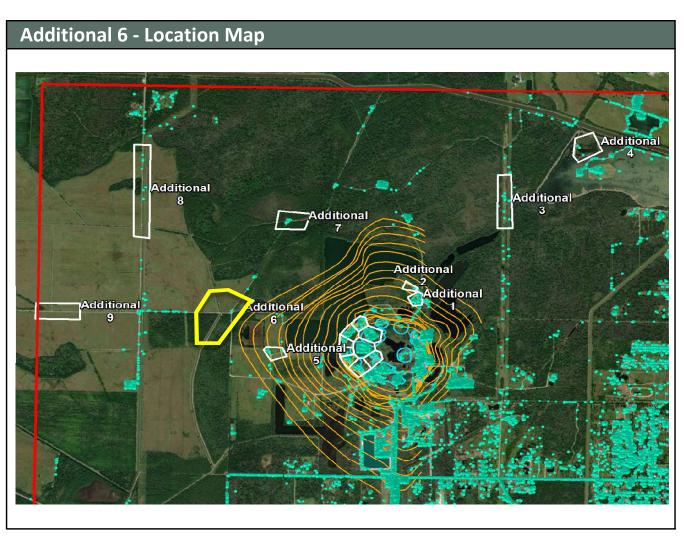
(Quadratic Regression)

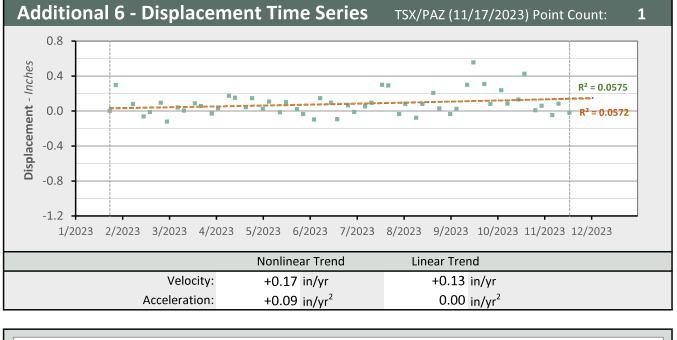
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LOS Displacement Measurement





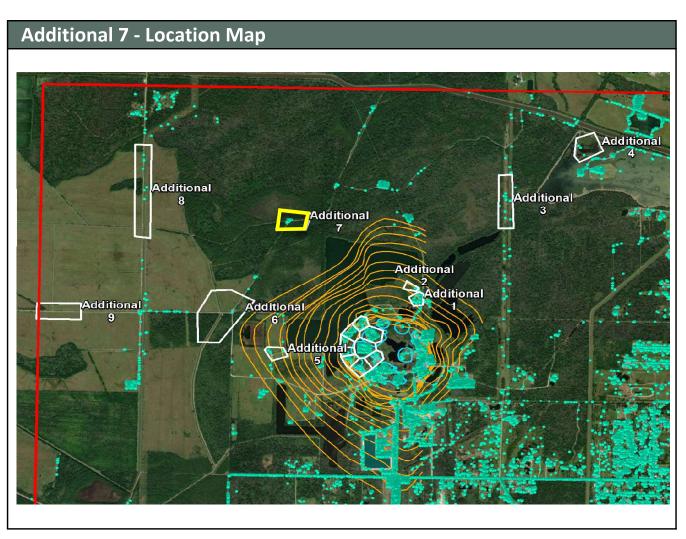


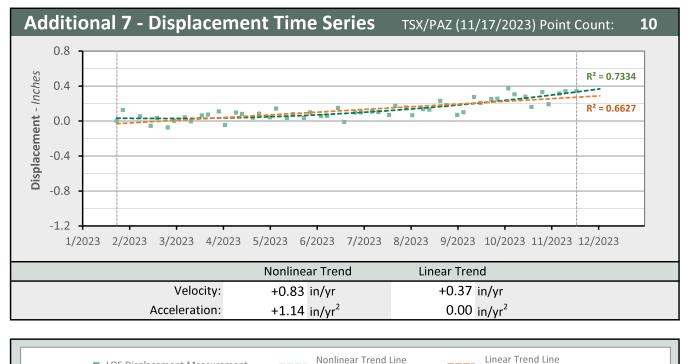


Nonlinear Trend Line LOS Displacement Measurement

(Quadratic Regression)

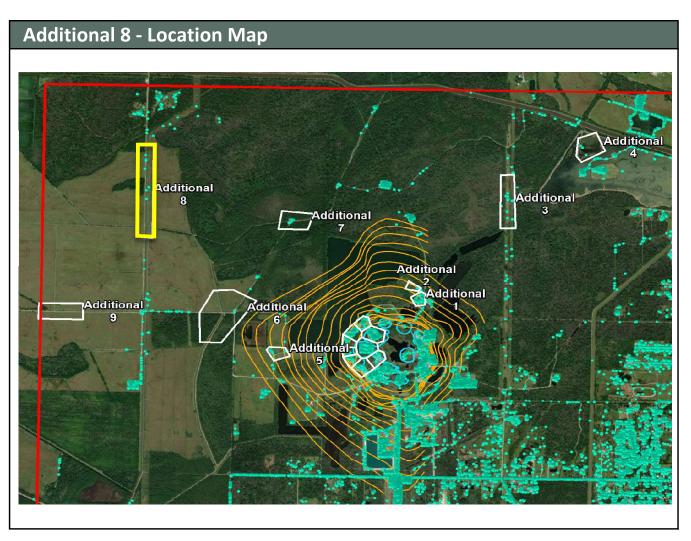
Linear Trend Line (Linear Regression)

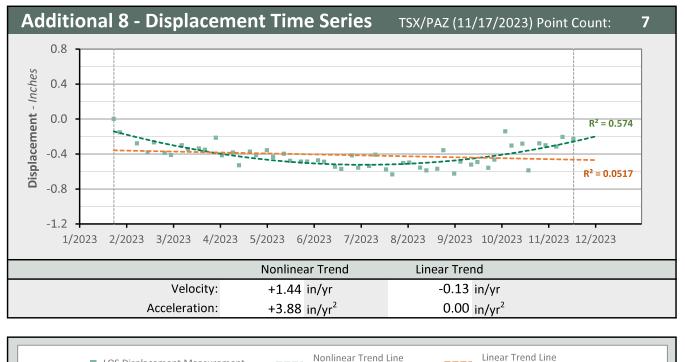




LOS Displacement Measurement

(Quadratic Regression)

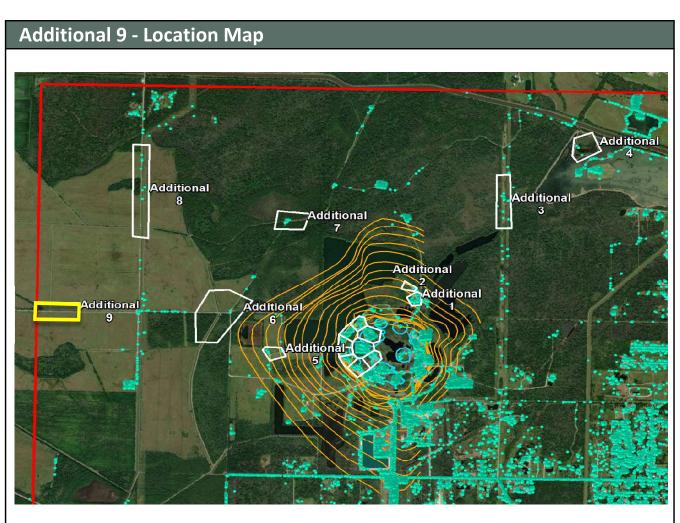


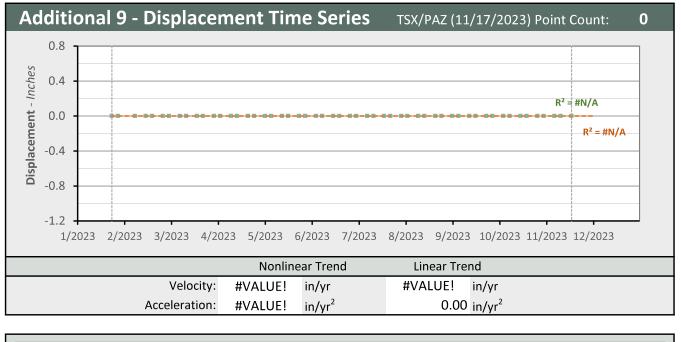


LOS Displacement Measurement

(Quadratic Regression)

Analysis Date: 11/23/2023





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