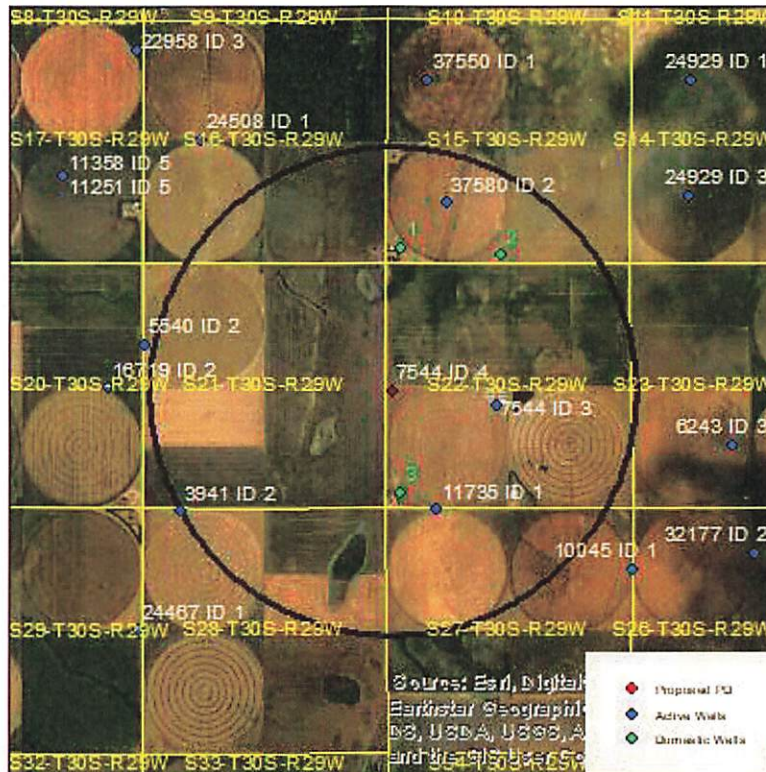


Evaluation of proposed move for Water Right No. 7544

Proposed: Stack water right no. 7544 ID3 onto the well location currently authorized under water right no. 7544 ID4. 98.4 AF of pumping authority will be moved.



Wells within 1 mile: 37580, 11735, and three domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 235 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

50 year Theis Analysis: The following values were used to run the analysis:

$$S = 0.2249, T = 23,712 \text{ ft}^2/\text{day},$$

$$\text{ID3: } t_{p_{\text{current}}} = 50 \text{ days, } Q_{\text{current}} = 85 \text{ gpm, } t_{p_{\text{proposed}}} = 0 \text{ days, } Q_{\text{proposed}} = 0 \text{ gpm}$$

$$\text{ID4: } t_{p_{\text{current}}} = 61 \text{ days, } Q_{\text{current}} = 1371 \text{ gpm, } t_{p_{\text{proposed}}} = 92 \text{ days, } Q_{\text{proposed}} = 1371 \text{ gpm}$$

Theis drawdowns were calculated as follows:

$$\begin{aligned} \text{37850:} \quad & \text{Drawdown from current location} = 1.09 \text{ ft} \\ & \text{Drawdown from proposed location} = 1.52 \text{ ft} \\ & \text{Net drawdown} = \mathbf{0.4 \text{ ft}} \end{aligned}$$

11735: Drawdown from current location = 1.57 ft
Drawdown from proposed location = 2.06 ft
Net drawdown = 0.5 ft

Domestic 1: Drawdown from current location = 1.41 ft
Drawdown from proposed location = 1.91 ft
Net drawdown = 0.5 ft

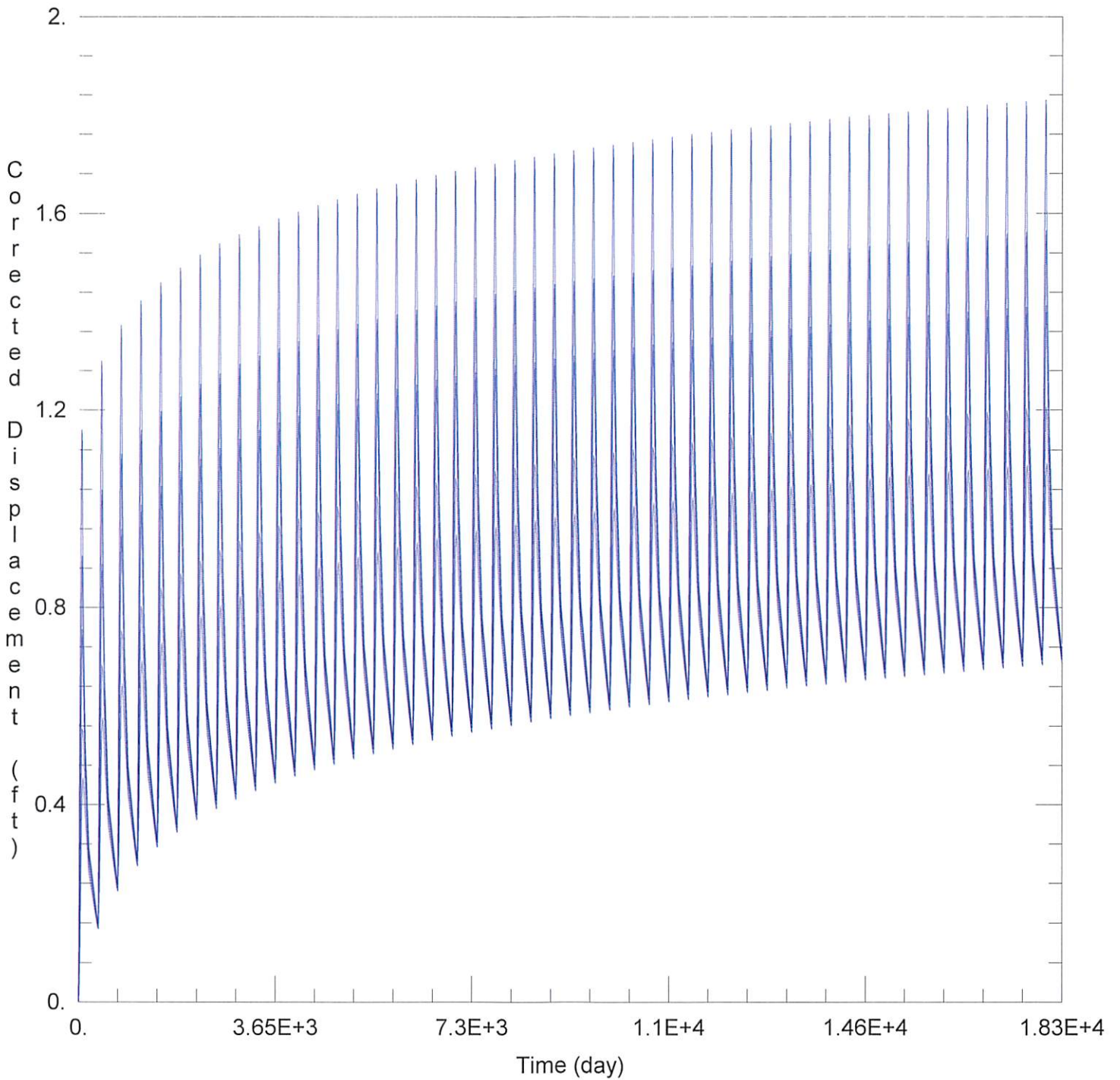
Domestic 2: Drawdown from current location = 1.21 ft
Drawdown from proposed location = 1.66 ft
Net drawdown = 0.5 ft

Domestic 3: Drawdown from current location = 1.83 ft
Drawdown from proposed location = 2.38 ft
Net drawdown = 0.5 ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

The proposed move is likely to create minimal effects on neighboring wells and appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\7544\7544 Current.aqt
 Date: 03/06/24 Time: 15:21:22

PROJECT INFORMATION

Company: GMD 3
 Project: 7544
 Location: Meade County

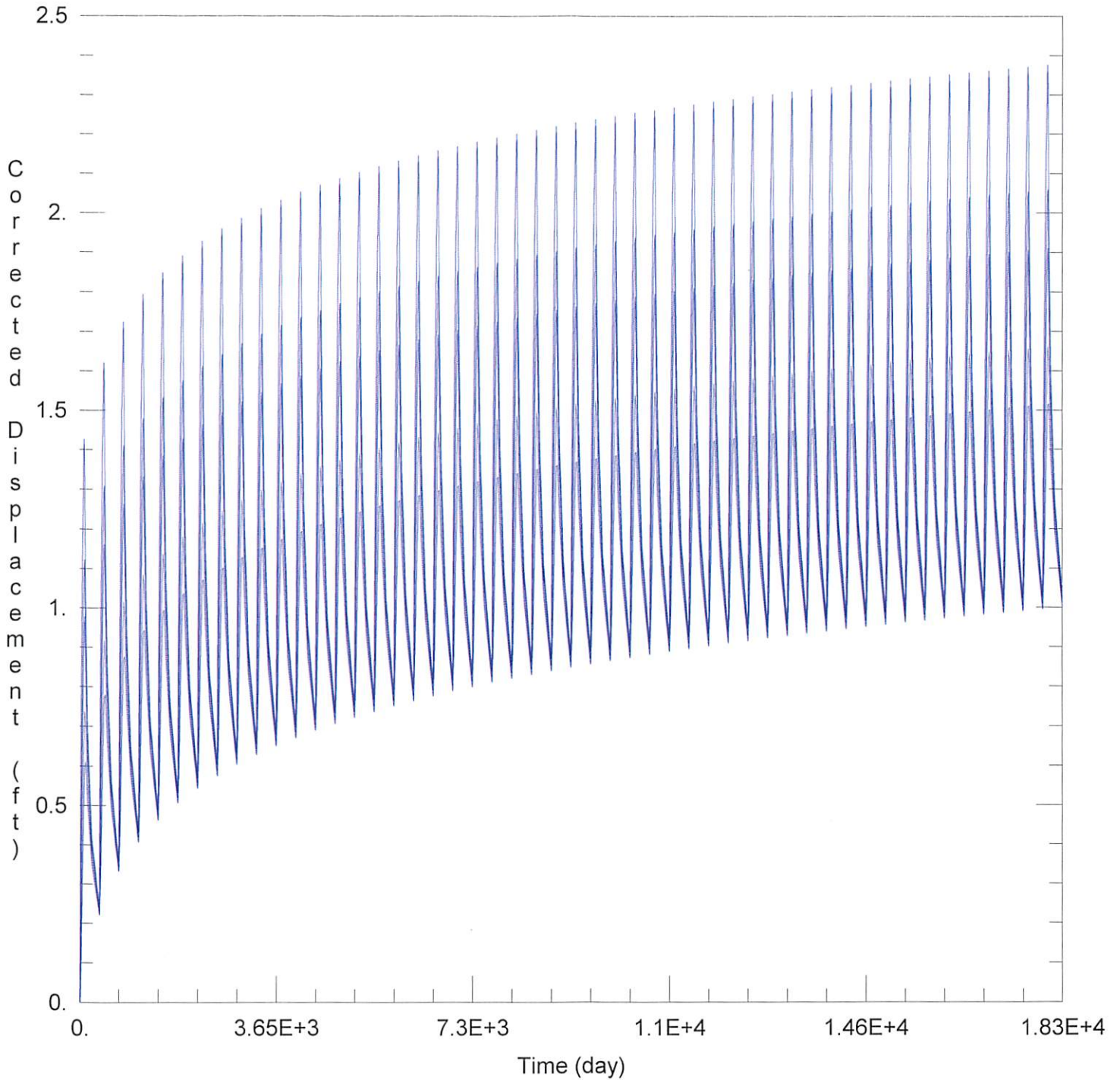
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
<u>7544 ID4</u>	90363	199833
<u>7544 ID3</u>	92623	199531

Well Name	X (ft)	Y (ft)
□	90363	199833
□	92623	199531



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\7544\7544 Proposed.aqt
 Date: 03/06/24 Time: 15:21:16

PROJECT INFORMATION

Company: GMD 3
 Project: 7544
 Location: Meade County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
7544 ID4	90363	199833

Observation Wells

Well Name	X (ft)	Y (ft)
□	90363	199833
□ <u>37580</u>	<u>91524</u>	<u>203807</u>