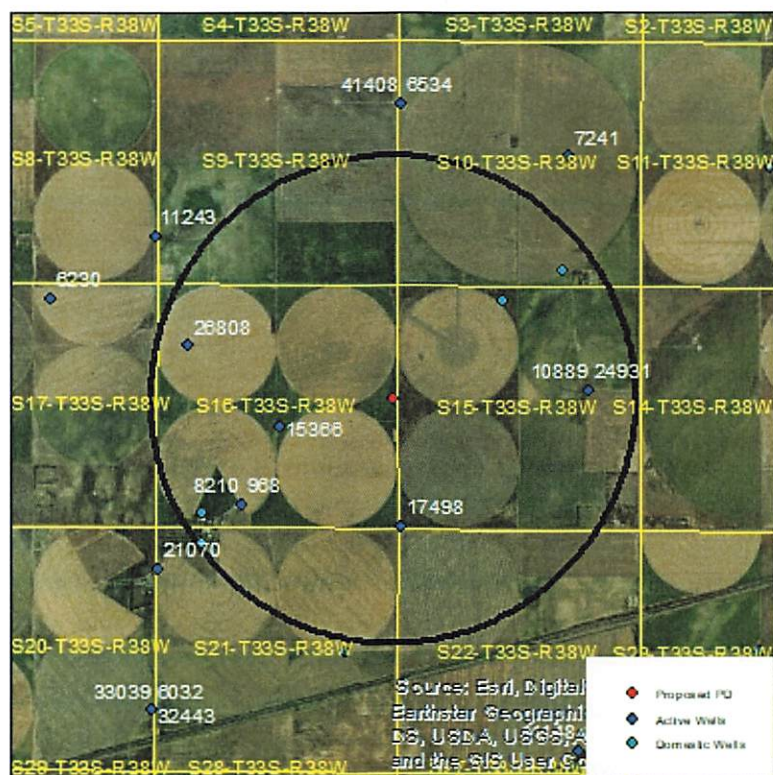


Evaluation of proposed move for Water Right Nos. 968 & 8210 and 15366

Proposed: Move water right nos. 968 & 8210 to the well location currently authorized under water right no. 15366. Move water right no. 15366 to a new well location, a distance of 2,535 ft to the northeast.



Wells within 1 mile: 26808, 10889 & 24931, 17498, a domestic well in section 10-33-38, a domestic well in section 16-33-38, a domestic well in section 15-33-38, and a domestic well in section 21-33-38.

The saturated thickness at the proposed well location is estimated to be 219 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 (Note that use at the well location currently authorized under water right no. 15366 was assumed to be unchanged. Current values are at the site currently authorized under water right nos. 968 & 8210 and proposed values are at the new well location proposed under water right no. 15366):

$S = 0.07126$, $T = 21,563 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 79 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 964 \text{ gpm}$ (based on 2014 field inspection), $tp_{\text{proposed}} = 127 \text{ days}$, $Q_{\text{proposed}} = 1460 \text{ gpm}$

Theis drawdowns were calculated as follows:

26808: Drawdown from current location = 1.68 ft
 Drawdown from proposed location = 3.10 ft
 Net drawdown = **1.4 ft**

10889 & 24931: Drawdown from current location = 0.95 ft
Drawdown from proposed location = 3.24 ft
Net drawdown = **2.3 ft**

17498: Drawdown from current location = 1.72 ft
Drawdown from proposed location = 4.07 ft
Net drawdown = **2.3 ft**

Domestic 10-33-38: Drawdown from current location = 0.90 ft
Drawdown from proposed location = 3.09 ft
Net drawdown = **2.2 ft**

Domestic 16-33-38: Drawdown from current location = 3.53 ft
Drawdown from proposed location = 3.02 ft
Net drawdown = **-0.5 ft**

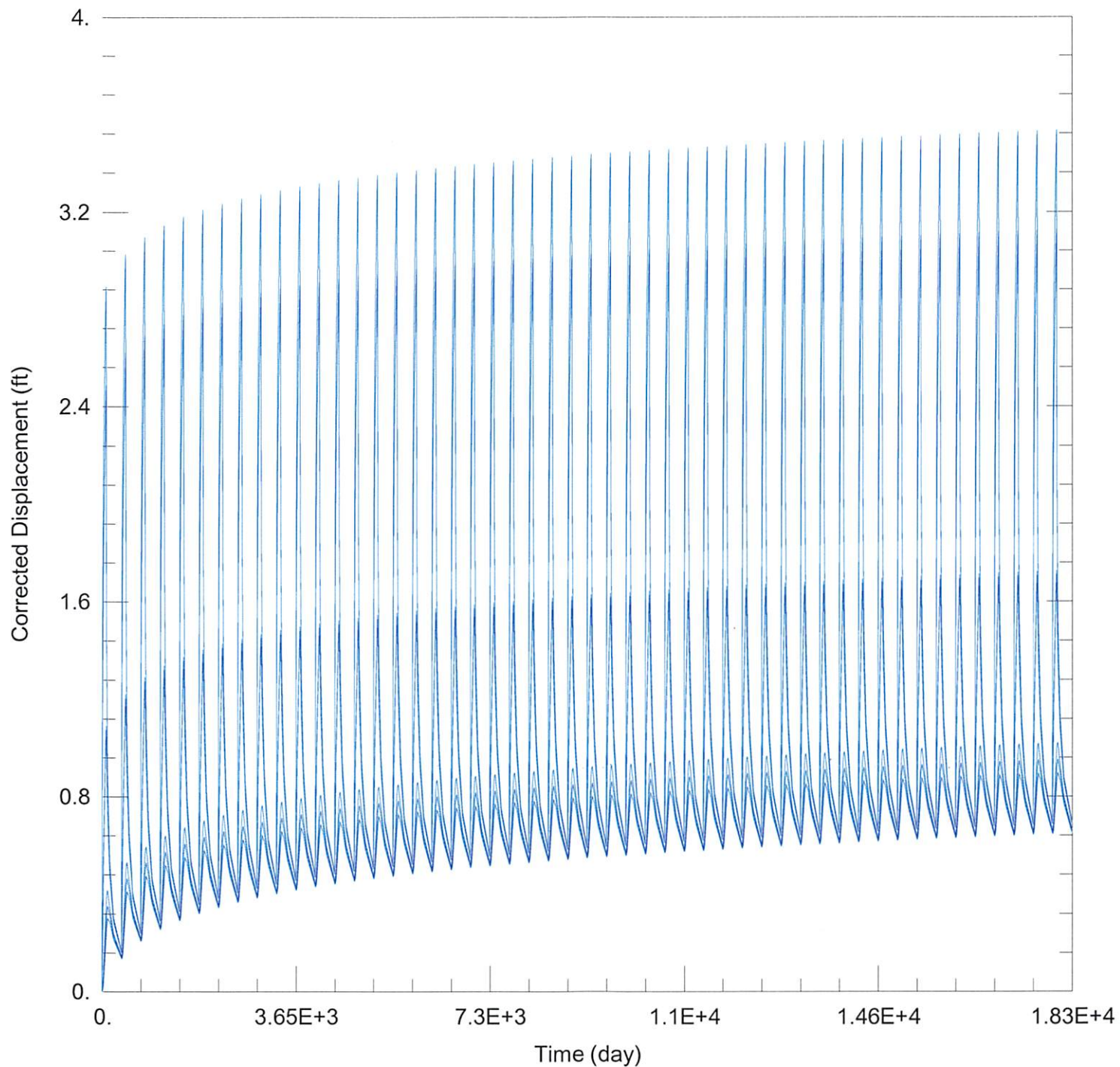
Domestic 15-33-38: Drawdown from current location = 1.02 ft
Drawdown from proposed location = 3.80 ft
Net drawdown = **2.8 ft**

Domestic 21-33-38: Drawdown from current location = 3.12 ft
Drawdown from proposed location = 2.90 ft
Net drawdown = **-0.2 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\2023_moves\968_8210_15366\968 Current.aqt

Date: 01/24/23

Time: 16:26:44

PROJECT INFORMATION

Company: GMD 3

Project: 968_8210_15366

Location: Stevens County

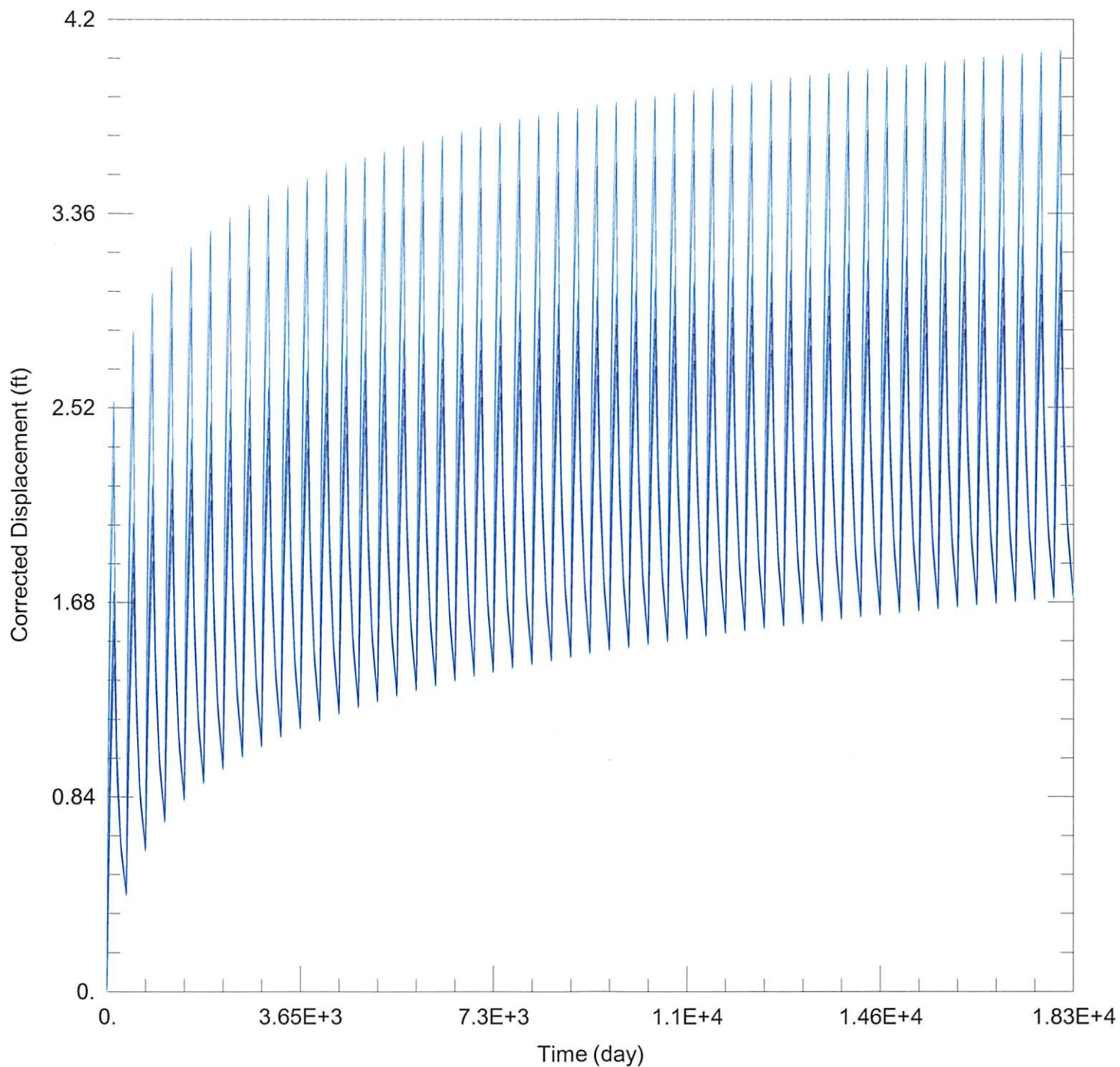
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
968 & 8210	-192177	108587

Observation Wells

Well Name	X (ft)	Y (ft)
□	-192177	108587



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\968_8210_15366\968 Proposed.aqt

Date: 01/24/23

Time: 16:26:38

PROJECT INFORMATION

Company: GMD 3

Project: 968_8210_15366

Location: Stevens County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
968 & 8210	-188894	110898

Observation Wells

Well Name	X (ft)	Y (ft)
□	-188894	110898