TABLES

Table 1. Average hydraulic conductivity of bentonite sand mixtures reported in Holt et al. (2019f)

Percent Bentonite	Average Hydraulic Conductivity (cm/s)
0	9.73E-04
0.35	8.20E-04
1.42	1.60E-03
5	5.70E-06
7.5	2.00E-06
10	4.90E-07
12.5	1.00E-08
15	5.40E-09
30	2.35E-09

Table 2. Average head rise in the mine footprint for the Homogeneous Scenario. Horizontal and vertical hydraulic conductivity values are equal in the upper 10 feet of the mine. The percentage of bentonite in the bentonite-sand mixture required to achieve the hydraulic conductivity is determined using Equation 2.

Percent Bentonite	Hydraulic Conductivity (cm/s)	Average Head Rise (ft)
2.50	1.00E-04	0.24
5.30	1.00E-05	0.35
6.71	3.16E-06	0.55
8.11	1.00E-06	1.20
8.81	5.62E-07	1.99
9.51	3.16E-07	3.47
10.21	1.78E-07	6.06
10.91	1.00E-07	10.57

Table 3. Average head rise in the mine footprint for the Layered Scenario. Only the vertical hydraulic conductivity in the upper 10 feet of the mine changes in this scenario. The horizontal hydraulic conductivity is the same as that in the Post-Mining Scenario of Holt et al. (2020), 1E-03 cm/s. The percentage of bentonite in the bentonite-sand mixture required to achieve the hydraulic conductivity is determined using Equation 4 and Equation 2, assuming a 3-foot-thick bentonite-sand mixture.

Percent Bentonite	Vertical Hydraulic Conductivity (cm/s)	Average Head Rise (ft)
3.88	1.00E-04	0.01
6.76	1.00E-05	0.08
8.17	3.16E-06	0.55
9.57	1.00E-06	0.87
10.27	5.62E-07	1.60
10.98	3.16E-07	2.94
11.68	1.78E-07	5.21
12.38	1.00E-07	8.87

FIGURES

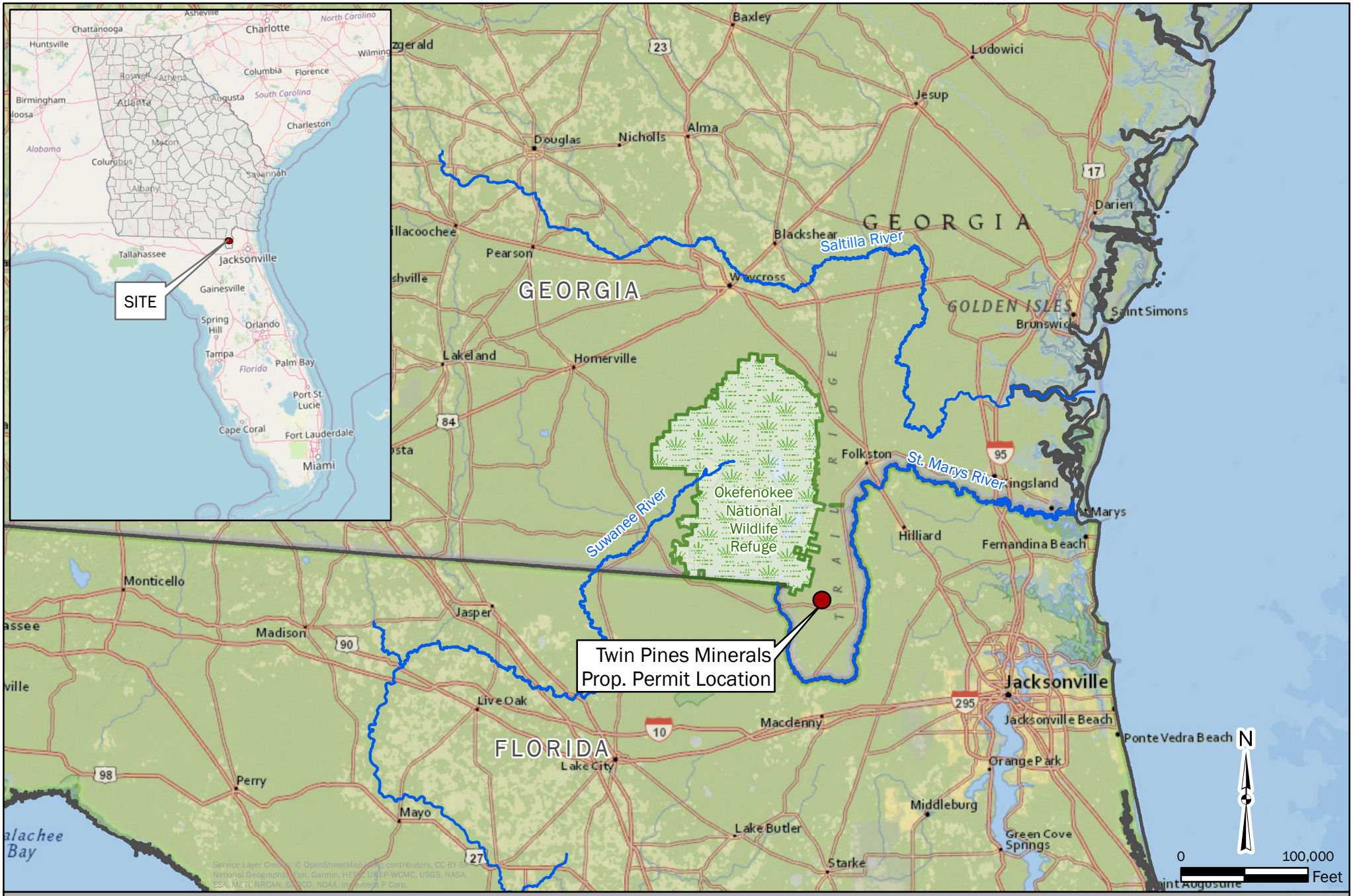

FIGURE 1: LOCATION OF THE PROPOSED SAUNDERS DEMONSTRATION MINE

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE

ST. GEORGE, CHARLTON COUNTY, GEORGIA

INSET BASEMAP: Open Street Map; BASEMAP: National Geographic World Map (See Service Layer Credits).

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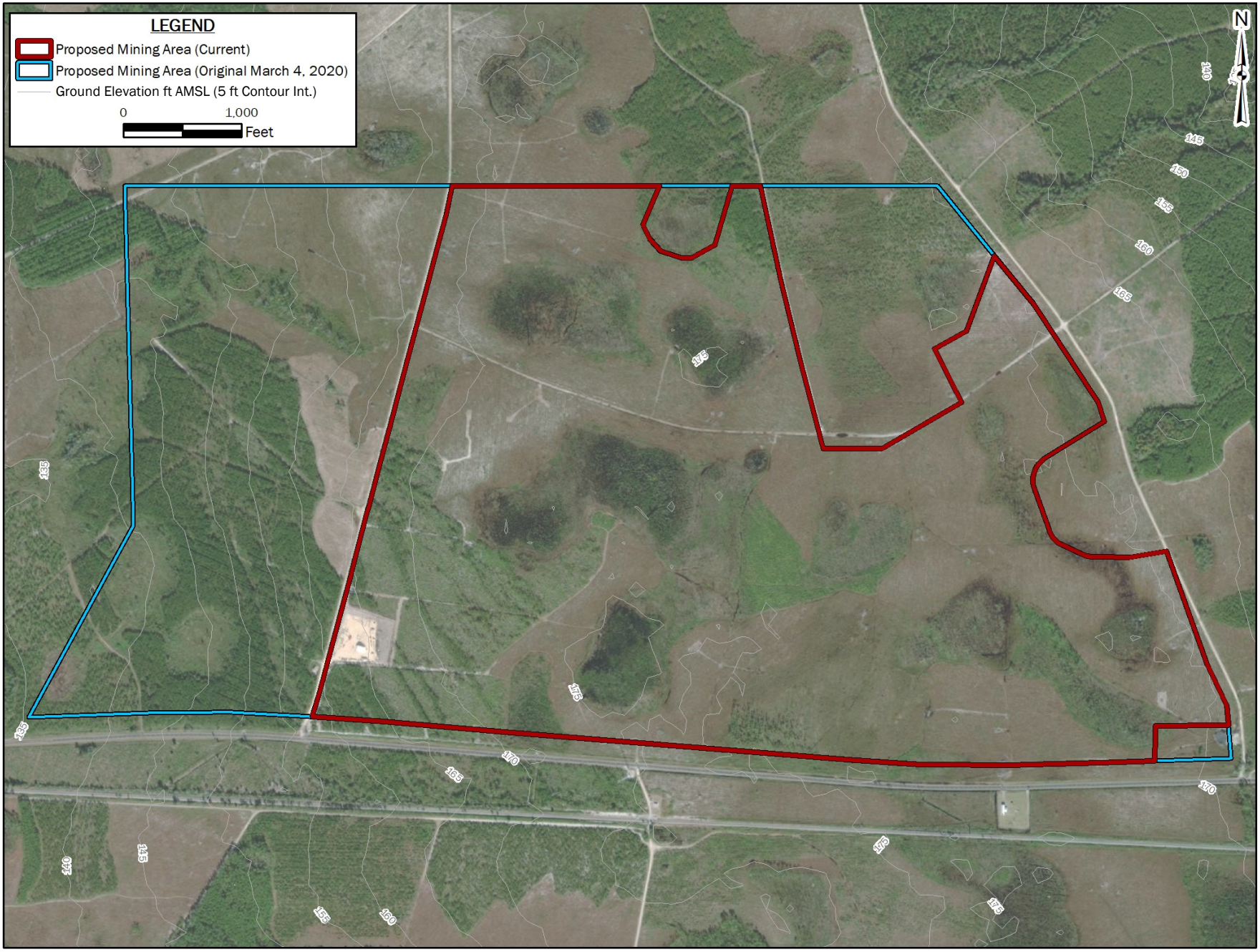

FIGURE 2: REVISED MINE FOOTPRINT

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE

ST. GEORGE, CHARLTON COUNTY, GEORGIA

BASEMAP: Maxar, Vivid Imagery, 11/20/2019 (West, 0.5 m Resolution) & 3/24/2018 (0.46 m Resolution).

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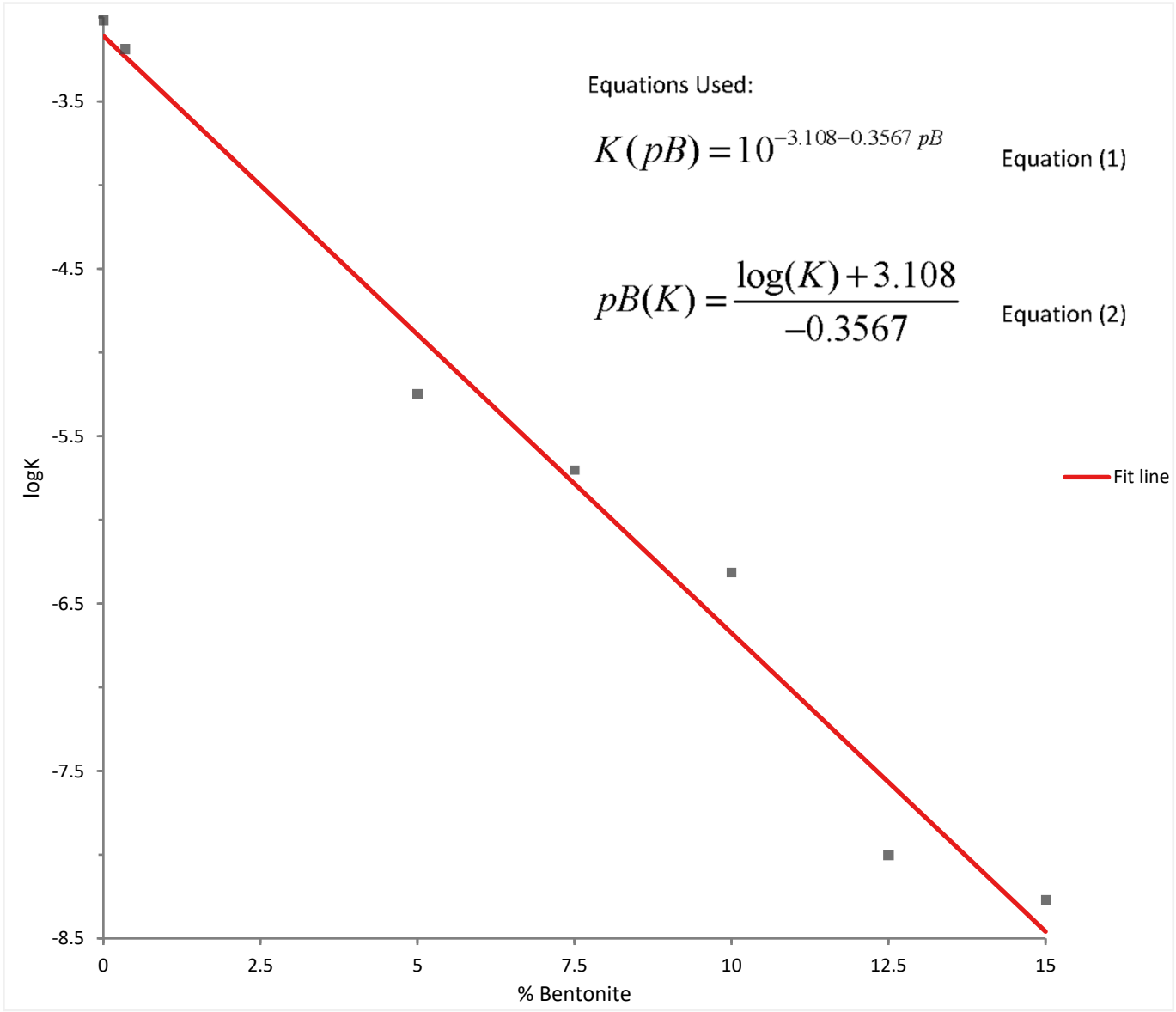

FIGURE 3: LINEAR REGRESSION OF LOG-TRANSFORMED, AVERAGE HYDRAULIC CONDUCTIVITY VALUES FROM HOLT ET AL. (2019F)
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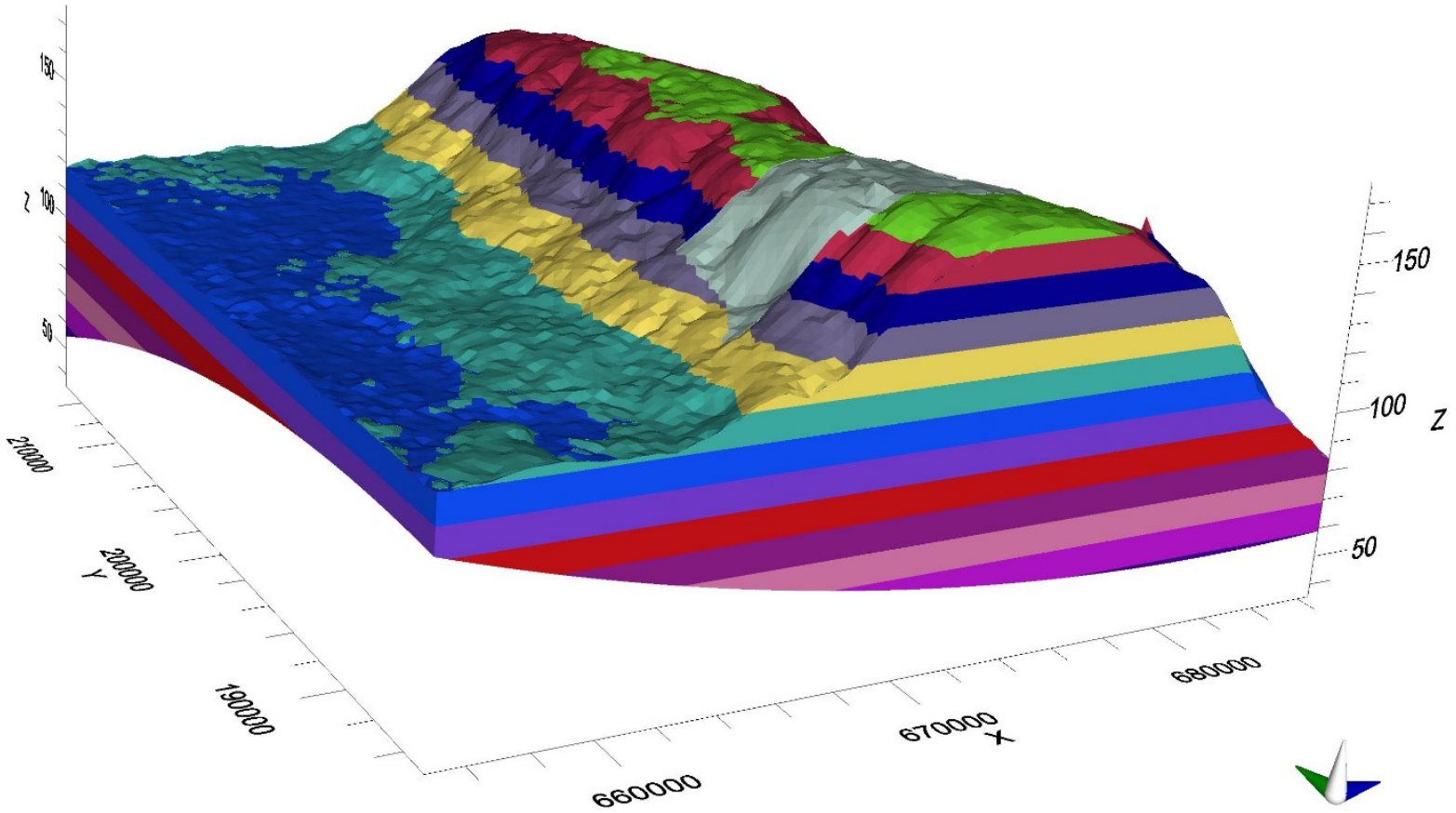

NOTE: Gray surface area represents the horizontal extent of the original mine footprint of Holt et al (2020); the current mine footprint does not extend as far west

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FIGURE 4: NEW MODEL LAYER (SURFICIAL EXTENT OF THE MINING FOOTPRINT SHOWN IN GRAY) CROSS-CUTS THE UNDERLYING LAYERS OF HOLT ET AL. (2020) AND EXTENDS TO A DEPTH 10 FEET BGS

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE

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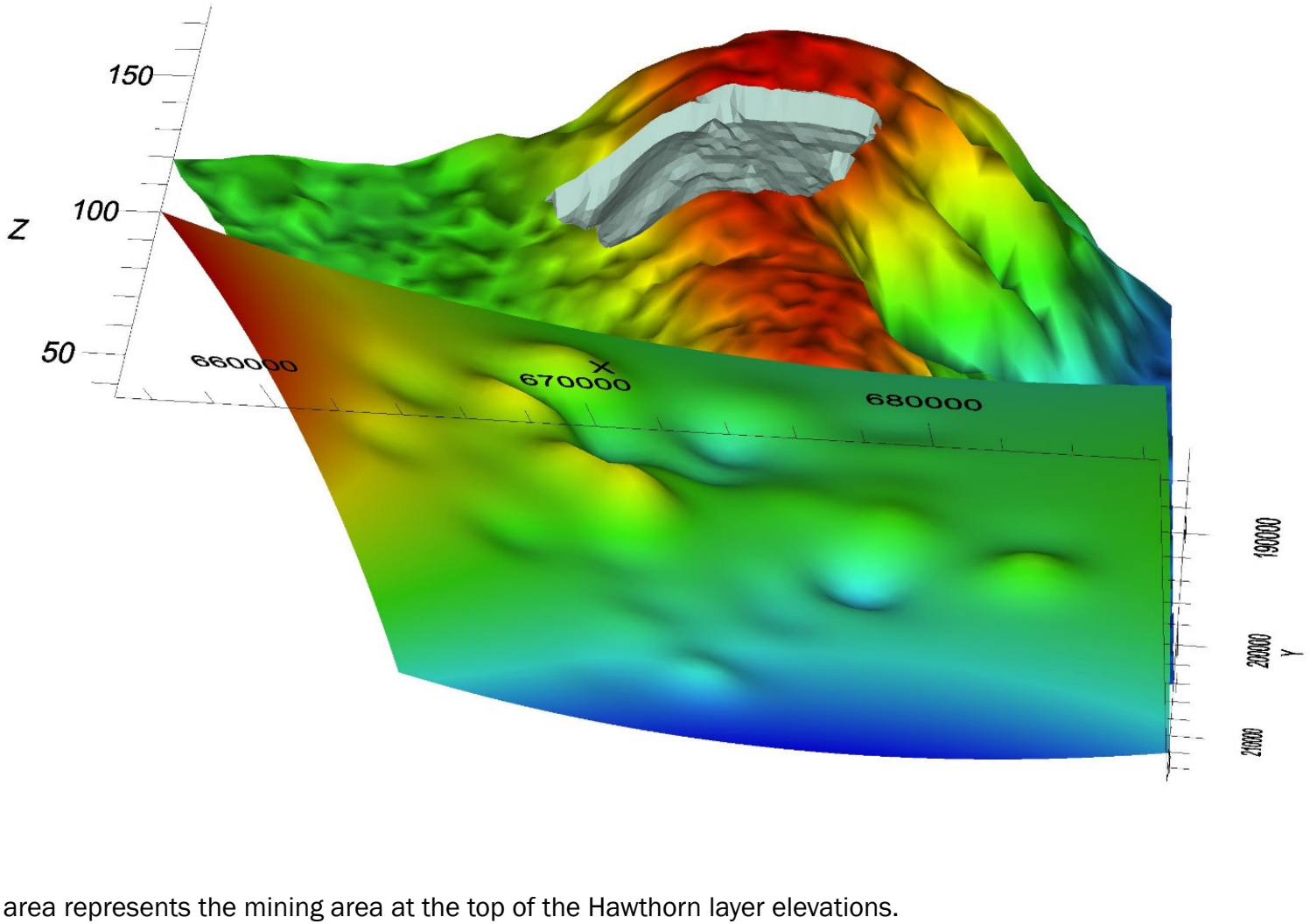

NOTE: Gray area represents the mining area at the top of the Hawthorn layer elevations.
The gray area represents the original mine footprint of Holt et al (2020); the current mine footprint does not extend as far west.

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FIGURE 5: NEW MODEL LAYER (SHOWN IN GRAY) ISOLATED BETWEEN THE LAND SURFACE AND THE TOP OF THE HAWTHORN. THE NEW LAYER IS 10 FT THICK AND MIMICKS THE LAND SURFACE
TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE
ST. GEORGE, CHARLTON COUNTY, GEORGIA

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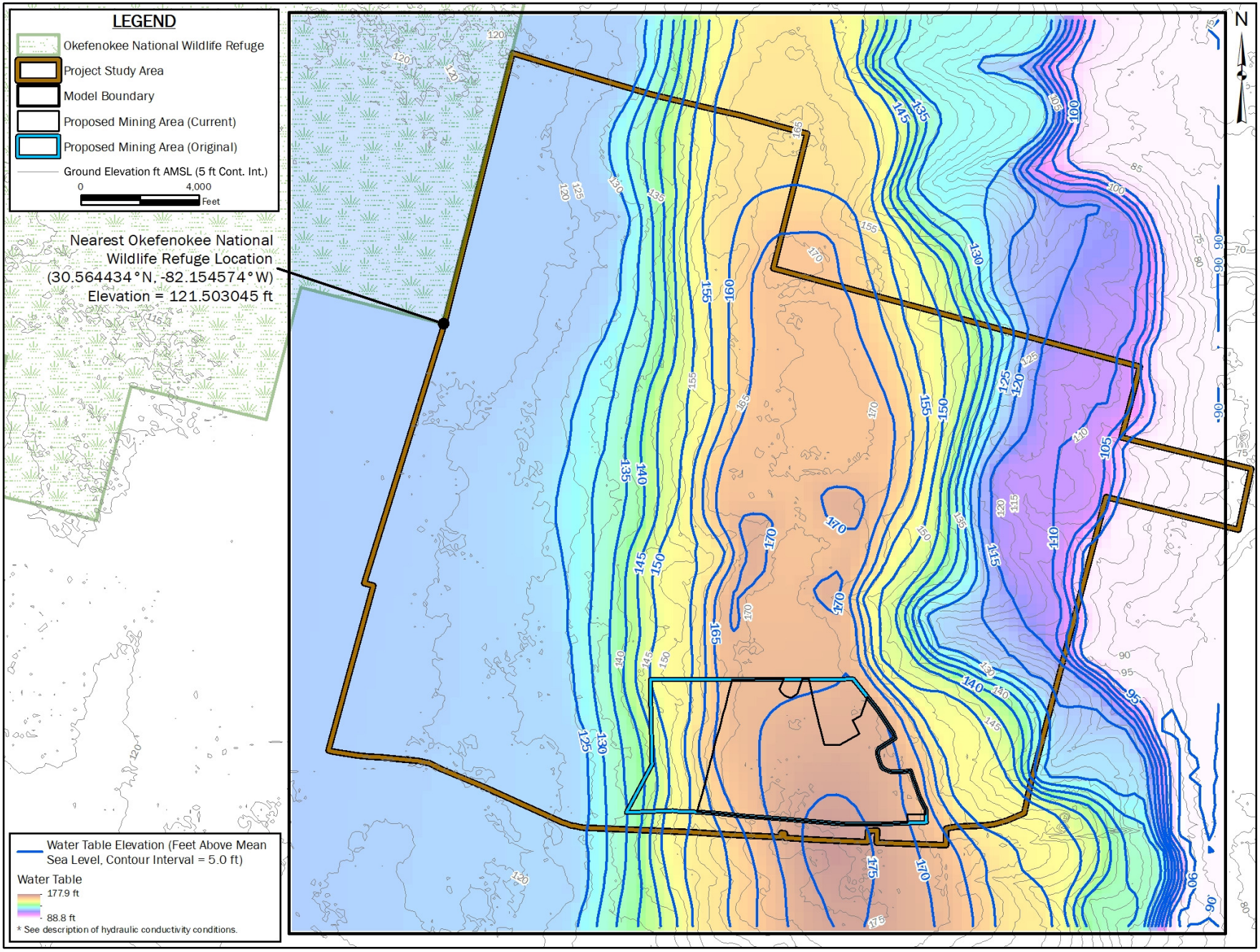

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FIGURE 6: POTENTIOMETRIC SURFACE MAP OF THE HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE
ST. GEORGE, CHARLTON COUNTY, GEORGIA

Note: K = Hydraulic Conductivity

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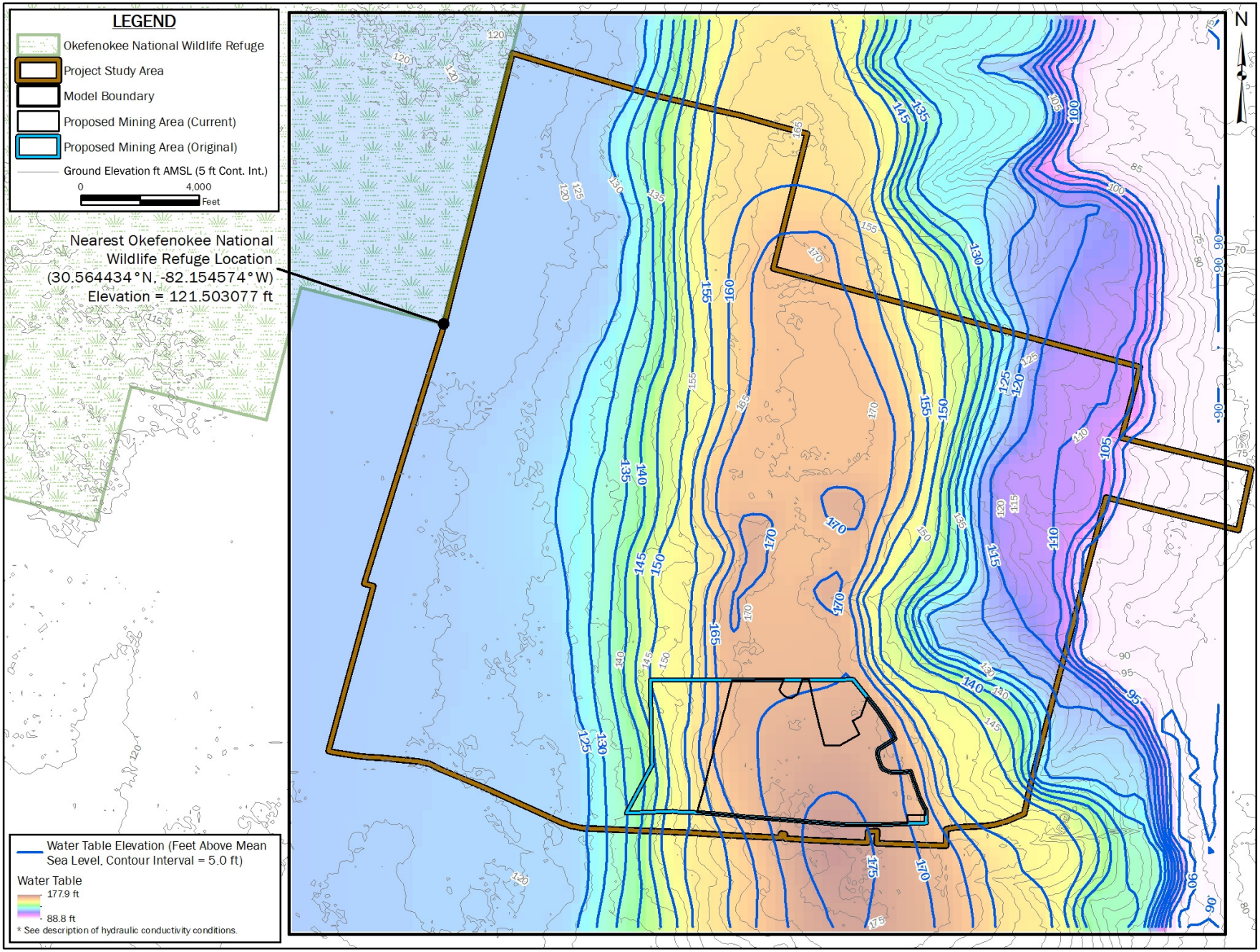

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FIGURE 7: POTENTIOMETRIC SURFACE MAP OF THE HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE
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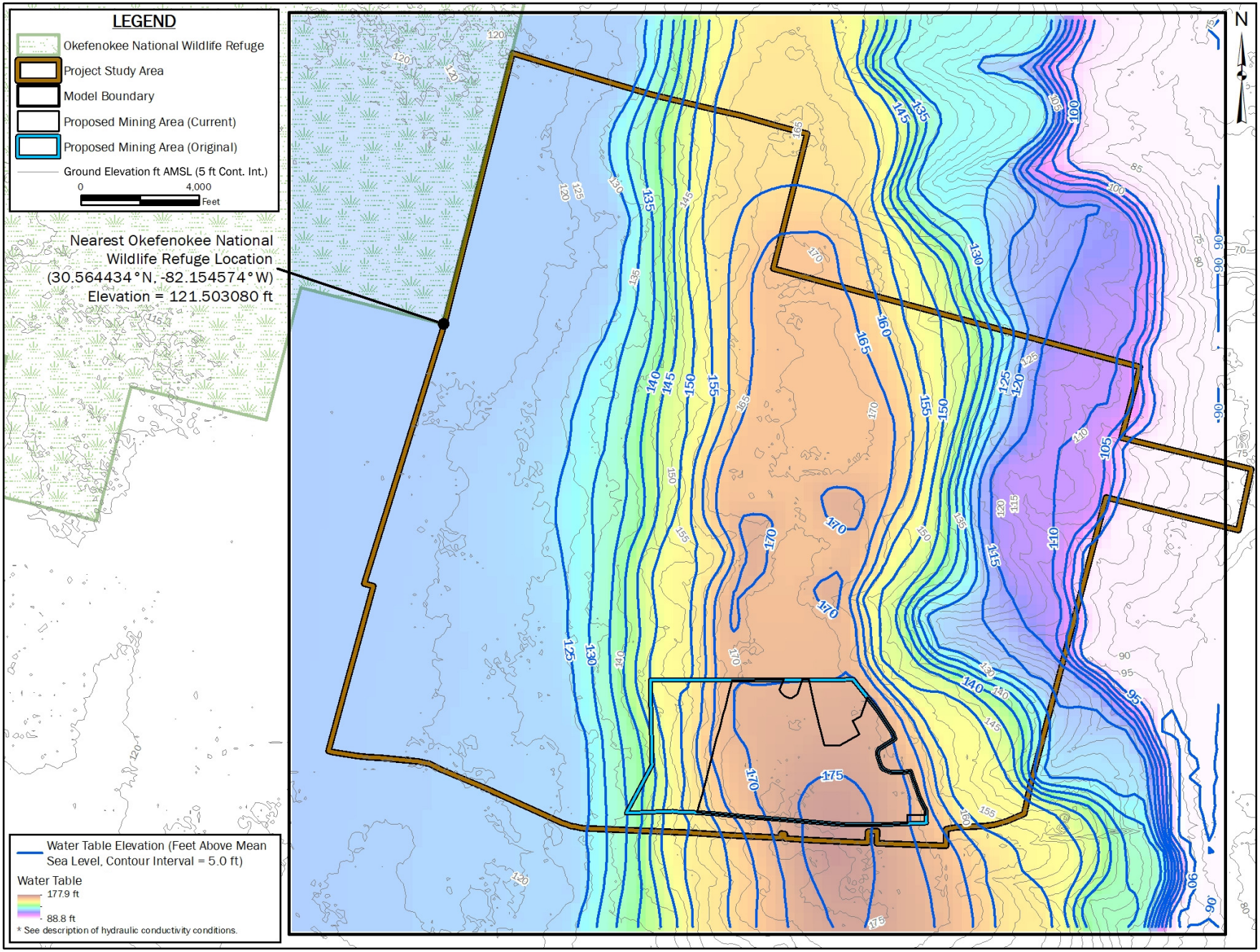

FIGURE 8: POTENTIOMETRIC SURFACE MAP OF THE HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S

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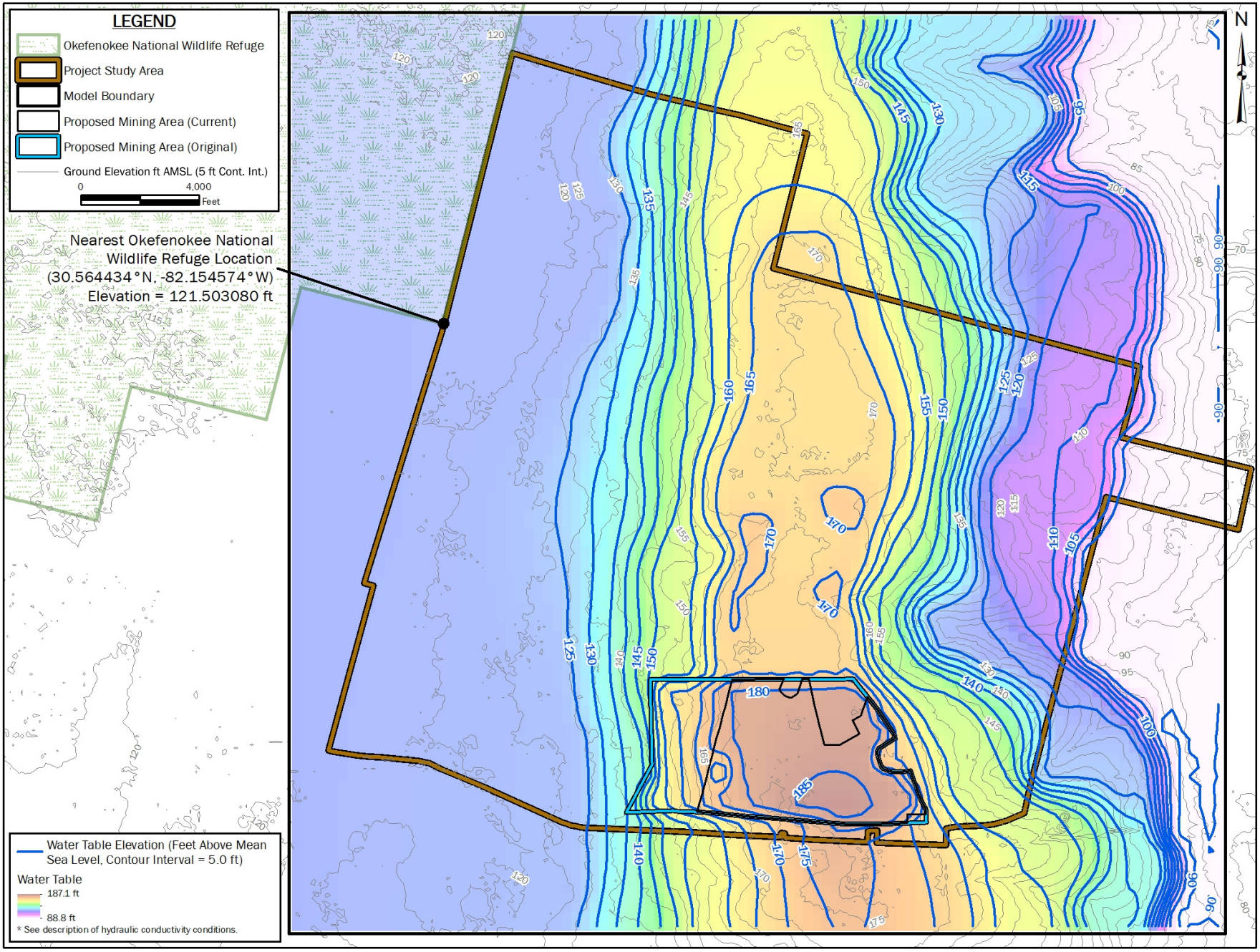

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FIGURE 9: POTENTIOMETRIC SURFACE MAP OF THE HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S

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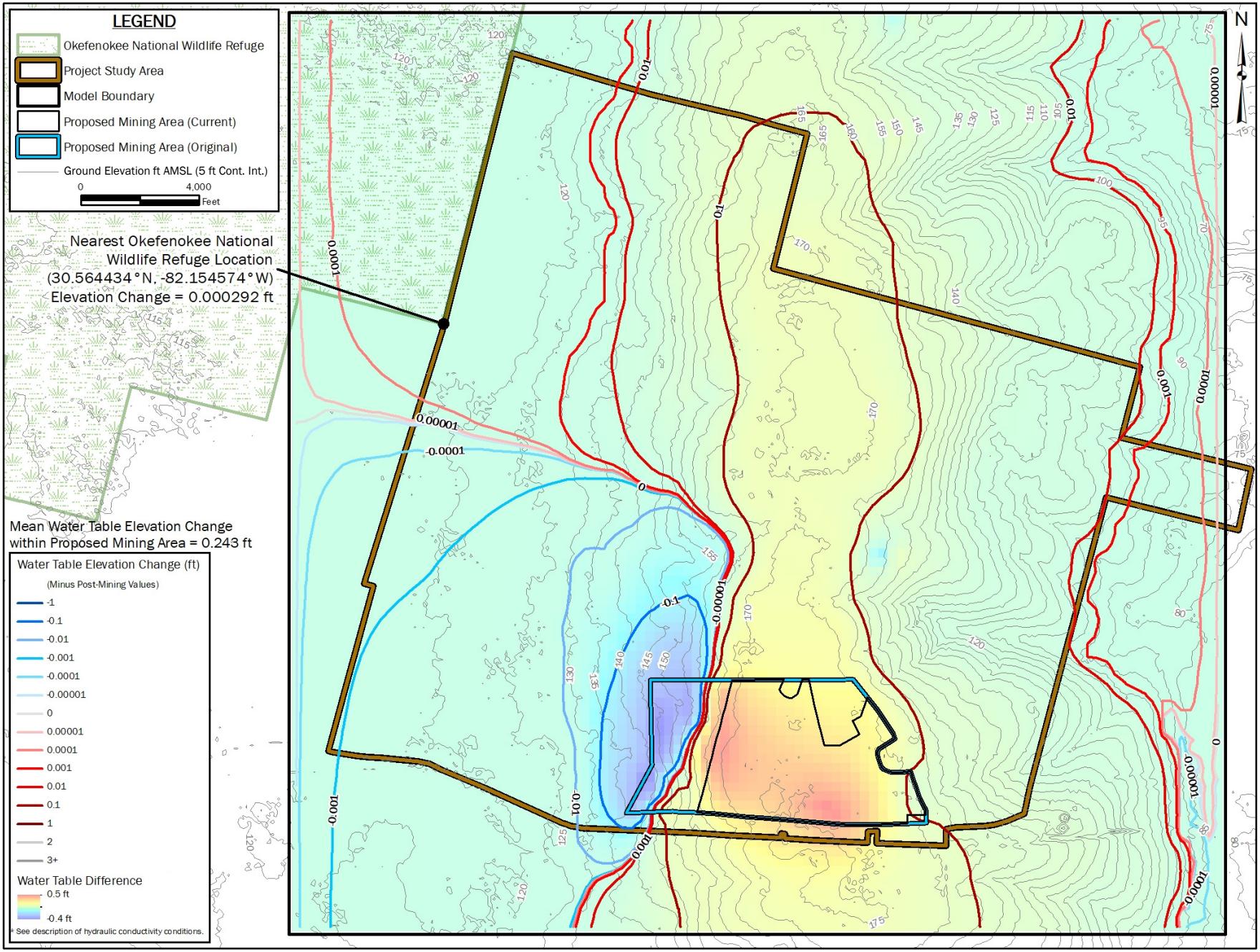

FIGURE 10: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S

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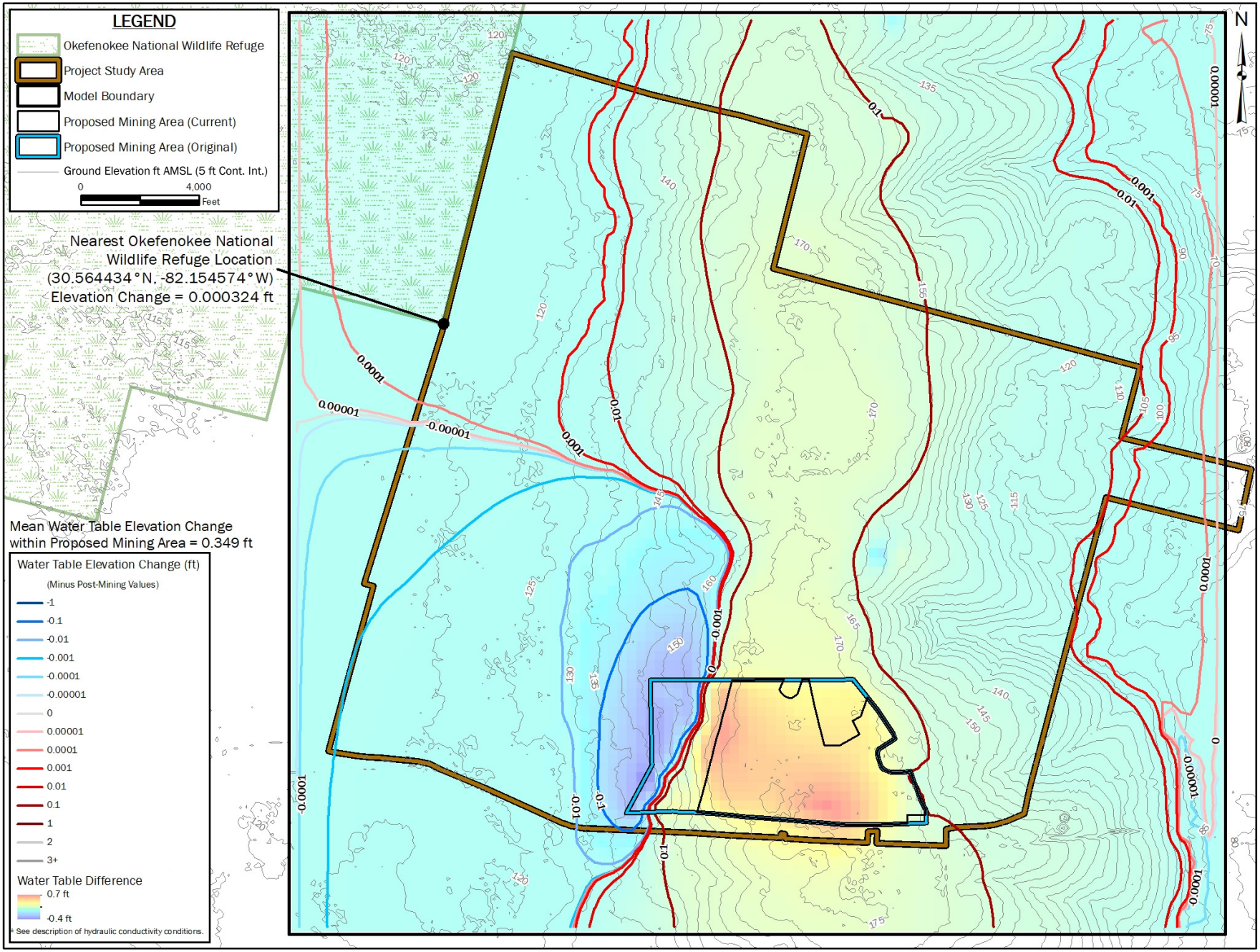

FIGURE 11: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S

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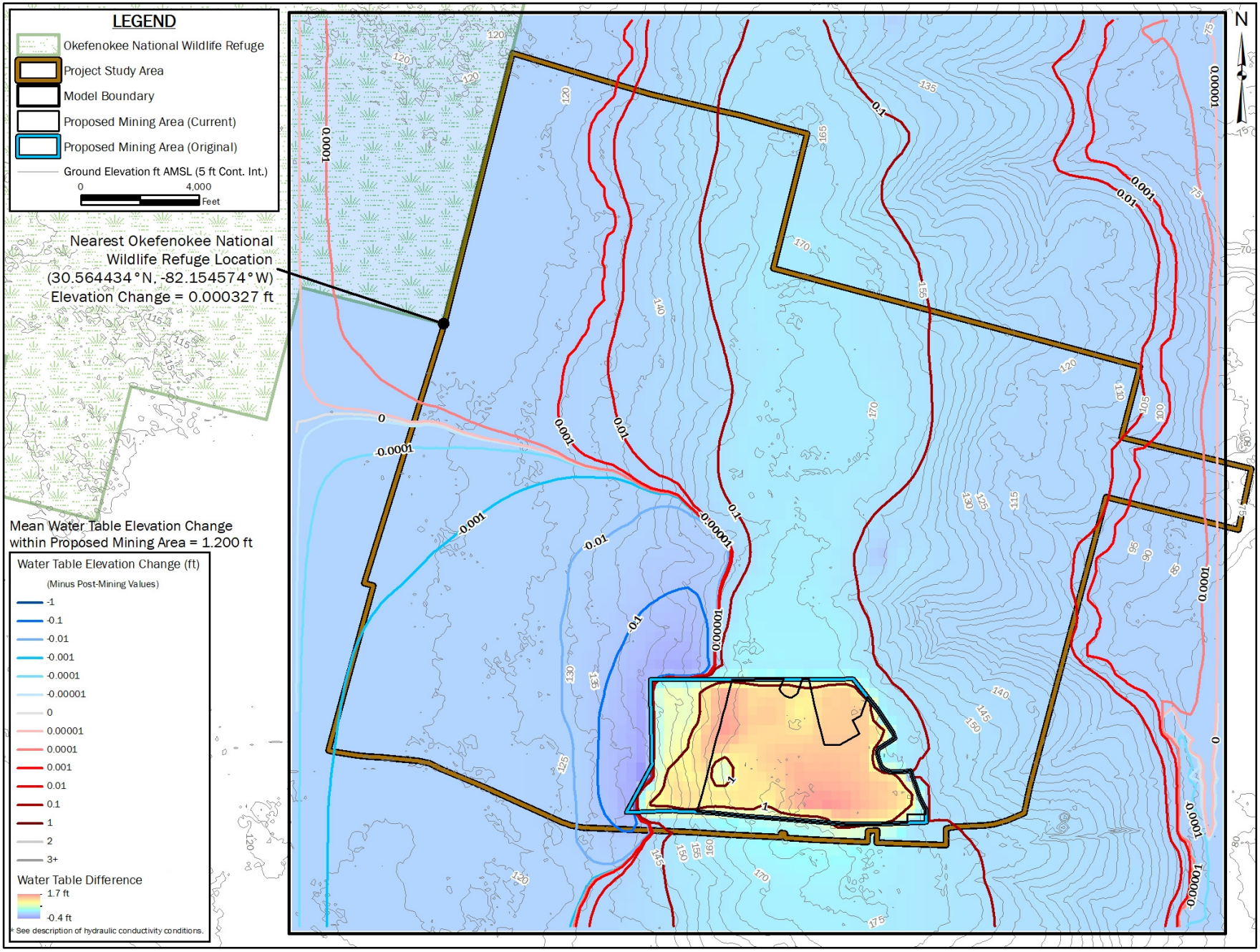

FIGURE 12: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S

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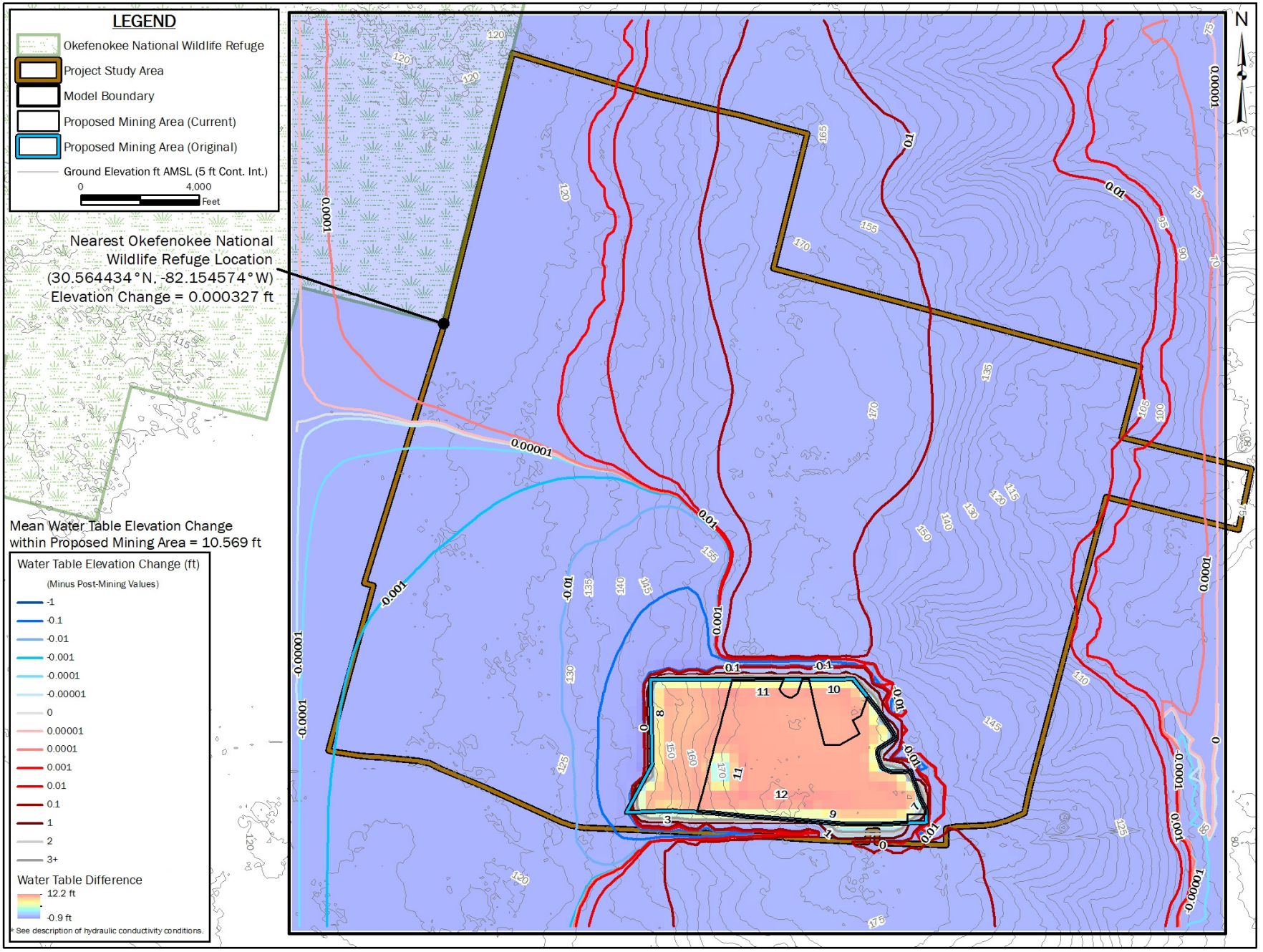

FIGURE 13: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S

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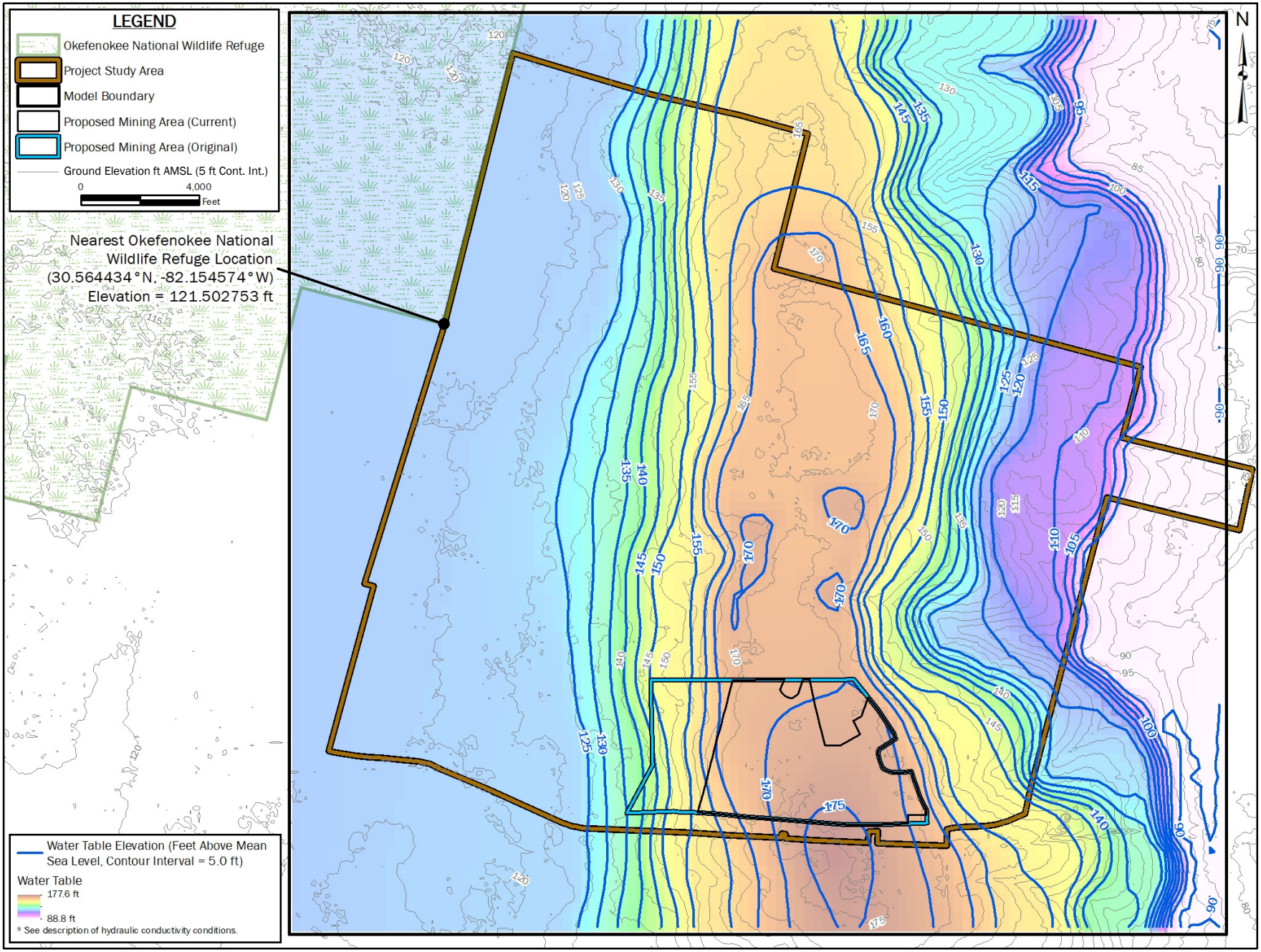

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FIGURE 14: POTENTIOMETRIC SURFACE MAP OF THE LAYERED SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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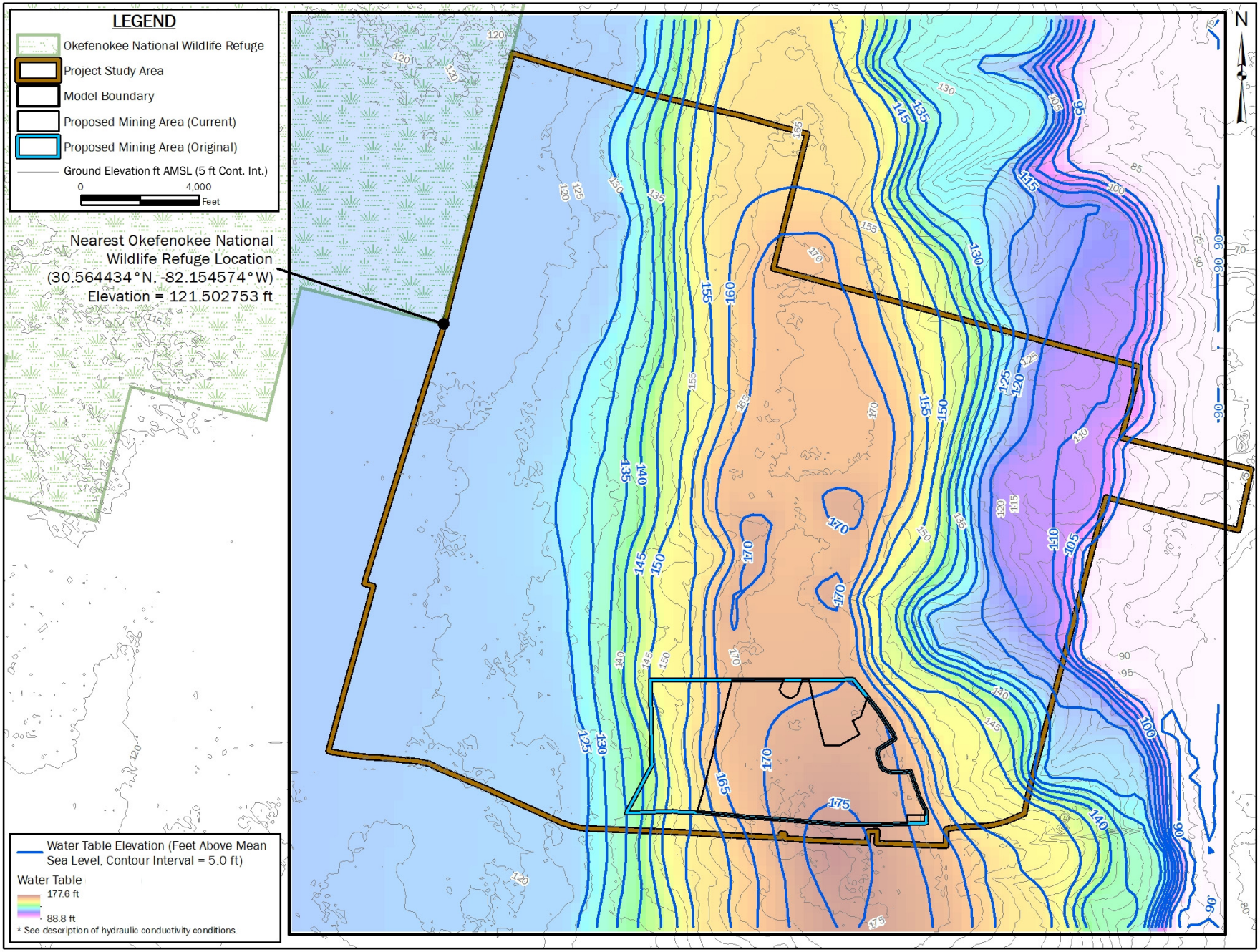

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FIGURE 15: POTENTIOMETRIC SURFACE MAP OF THE LAYERED SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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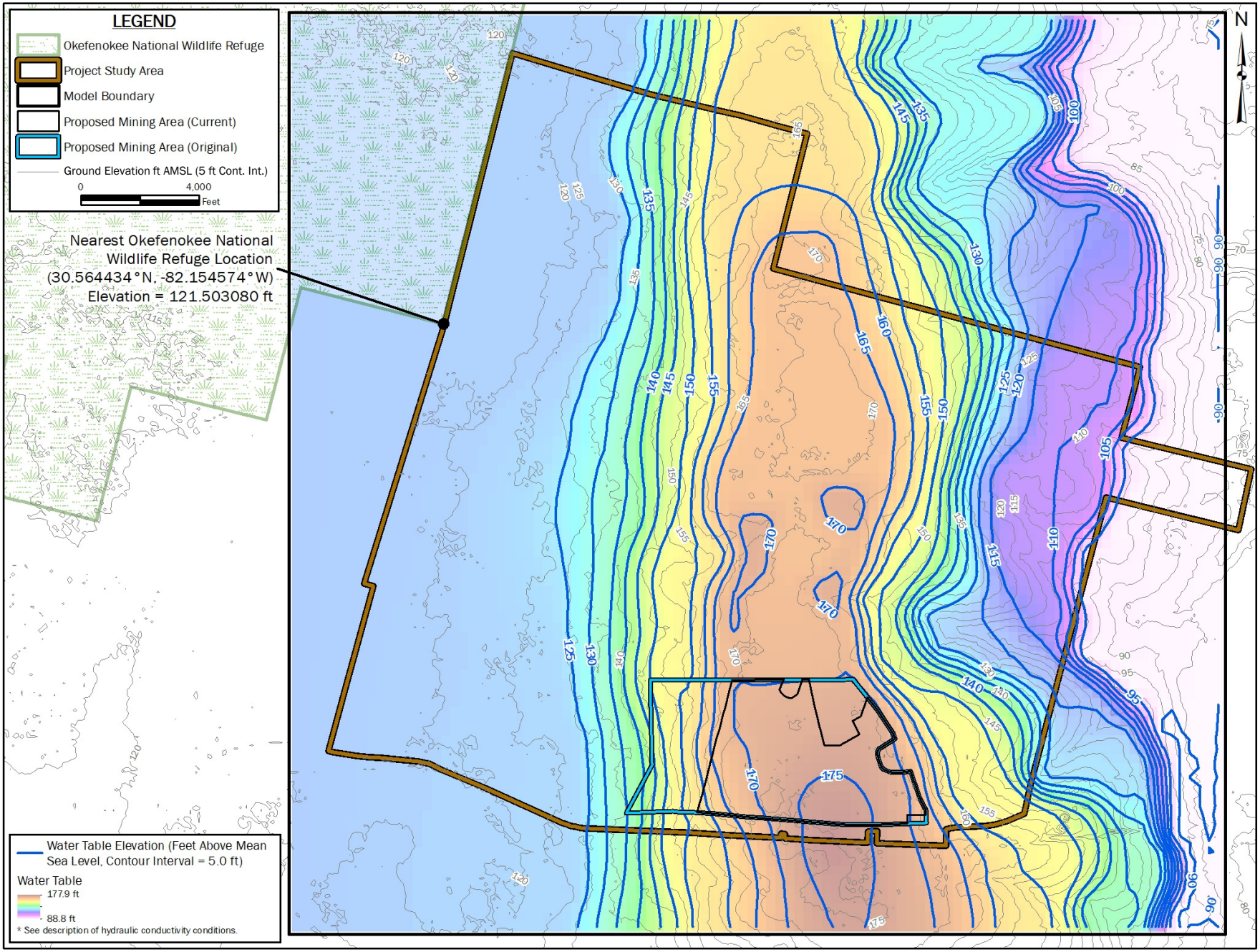

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FIGURE 16: POTENTIOMETRIC SURFACE MAP OF THE LAYERED SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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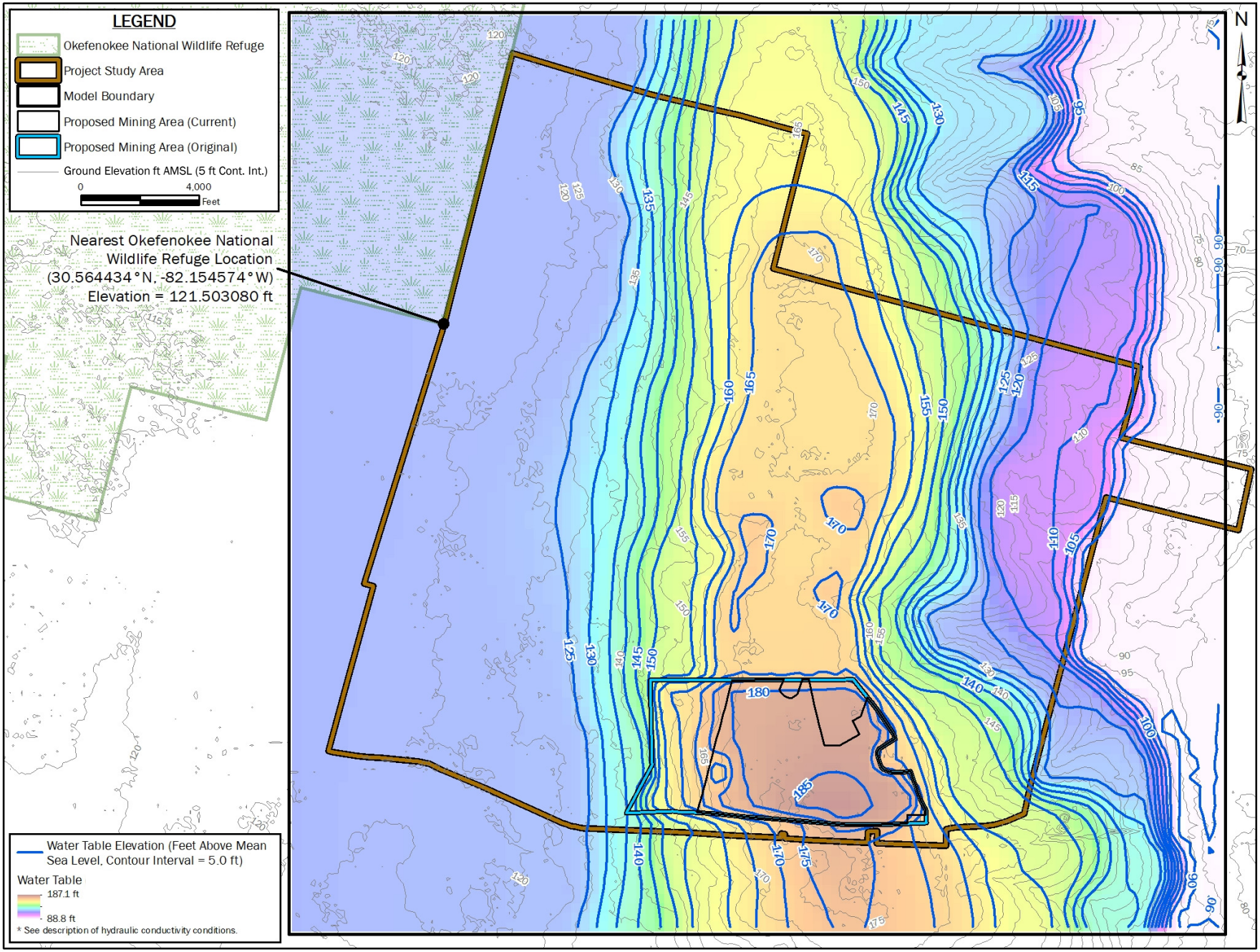

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FIGURE 17: POTENTIOMETRIC SURFACE MAP OF THE LAYERED SCENARIO MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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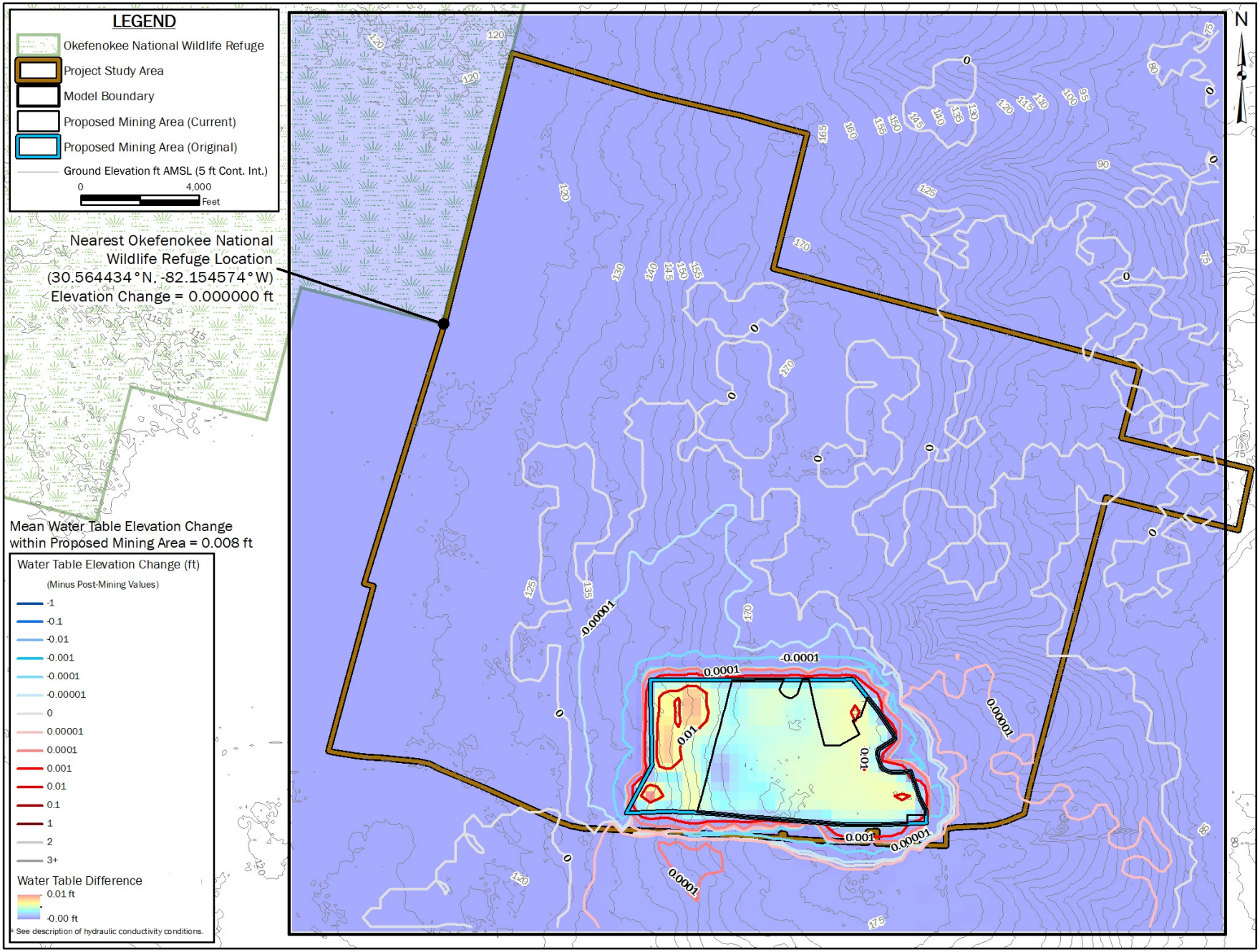

FIGURE 18: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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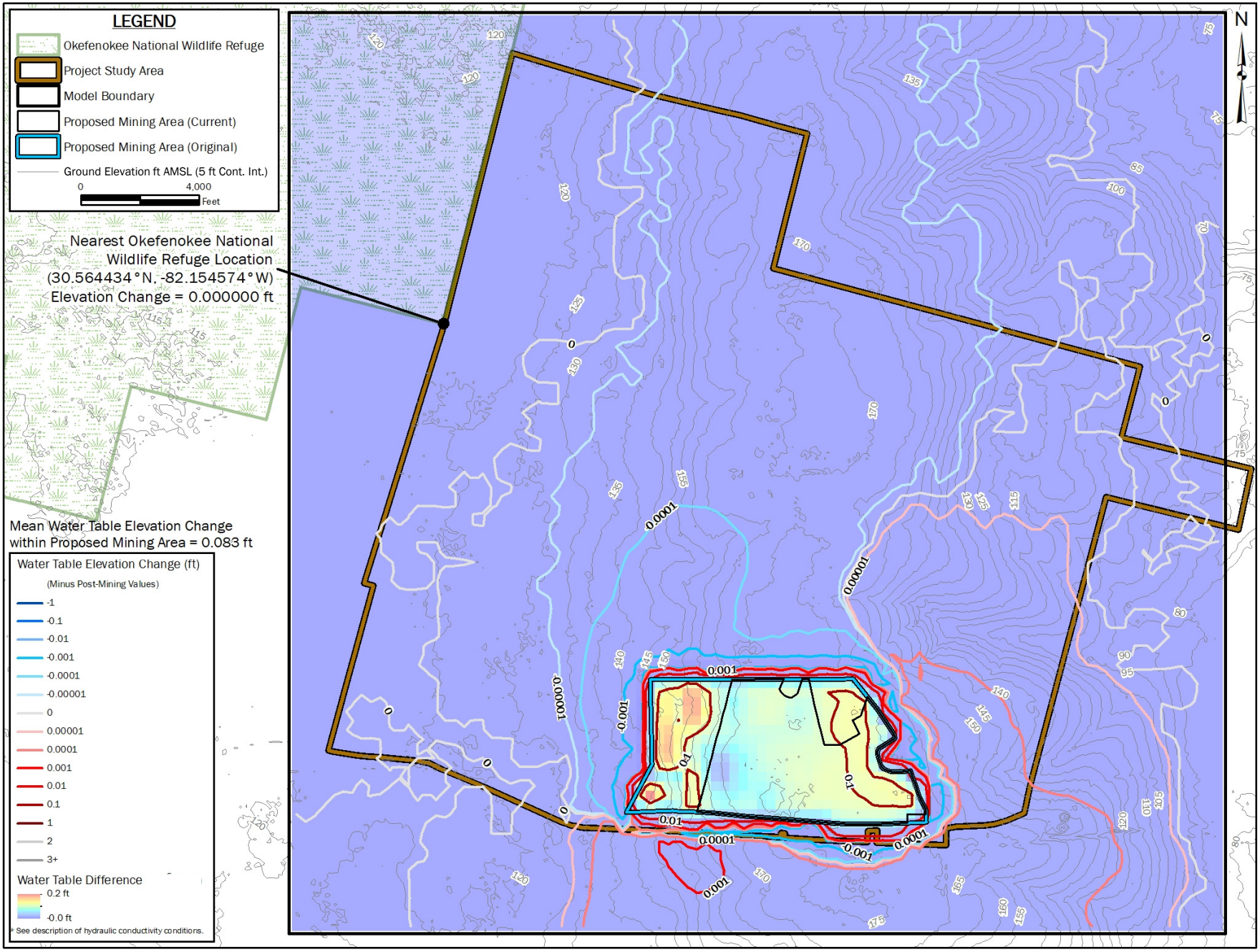

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FIGURE 19: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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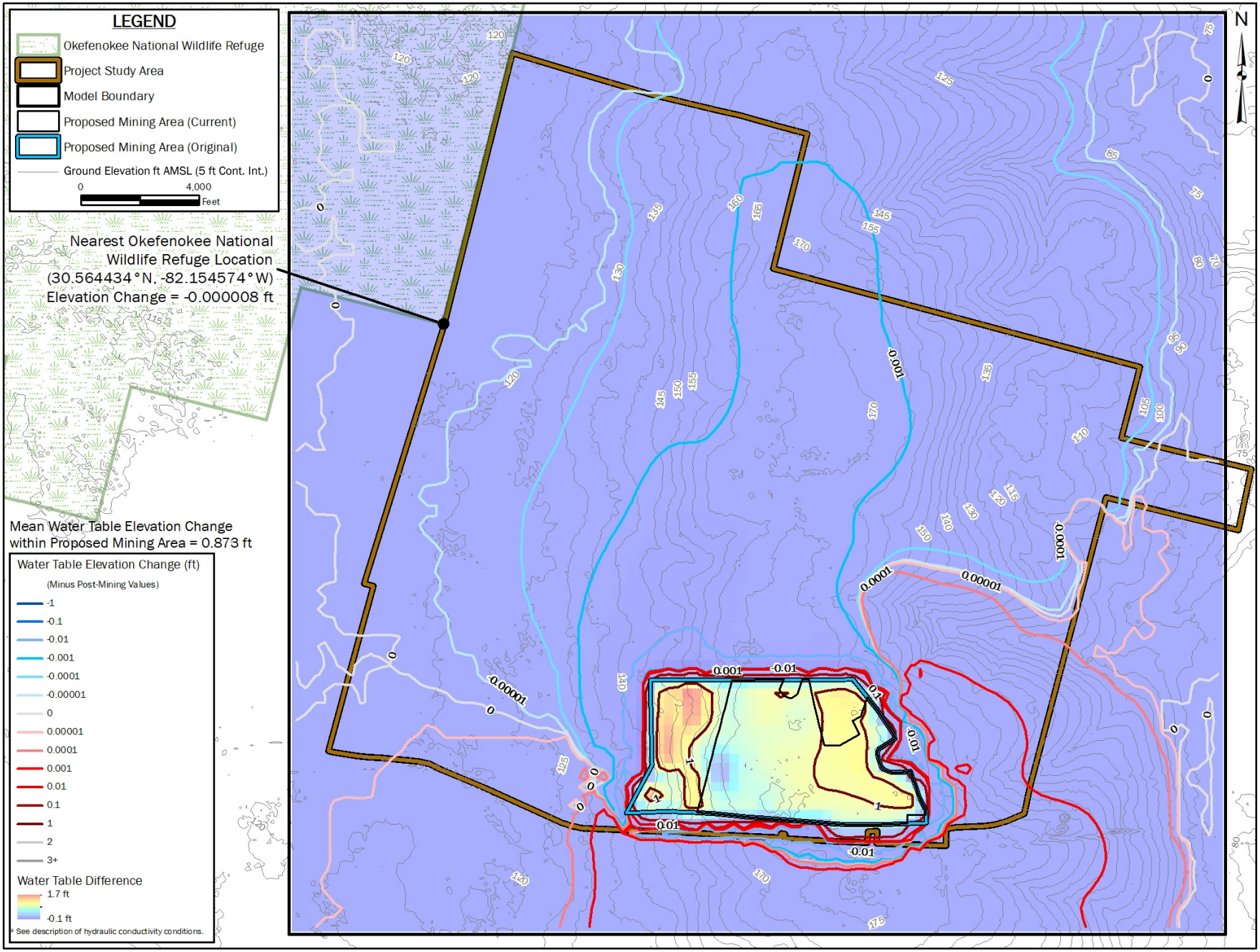

FIGURE 20: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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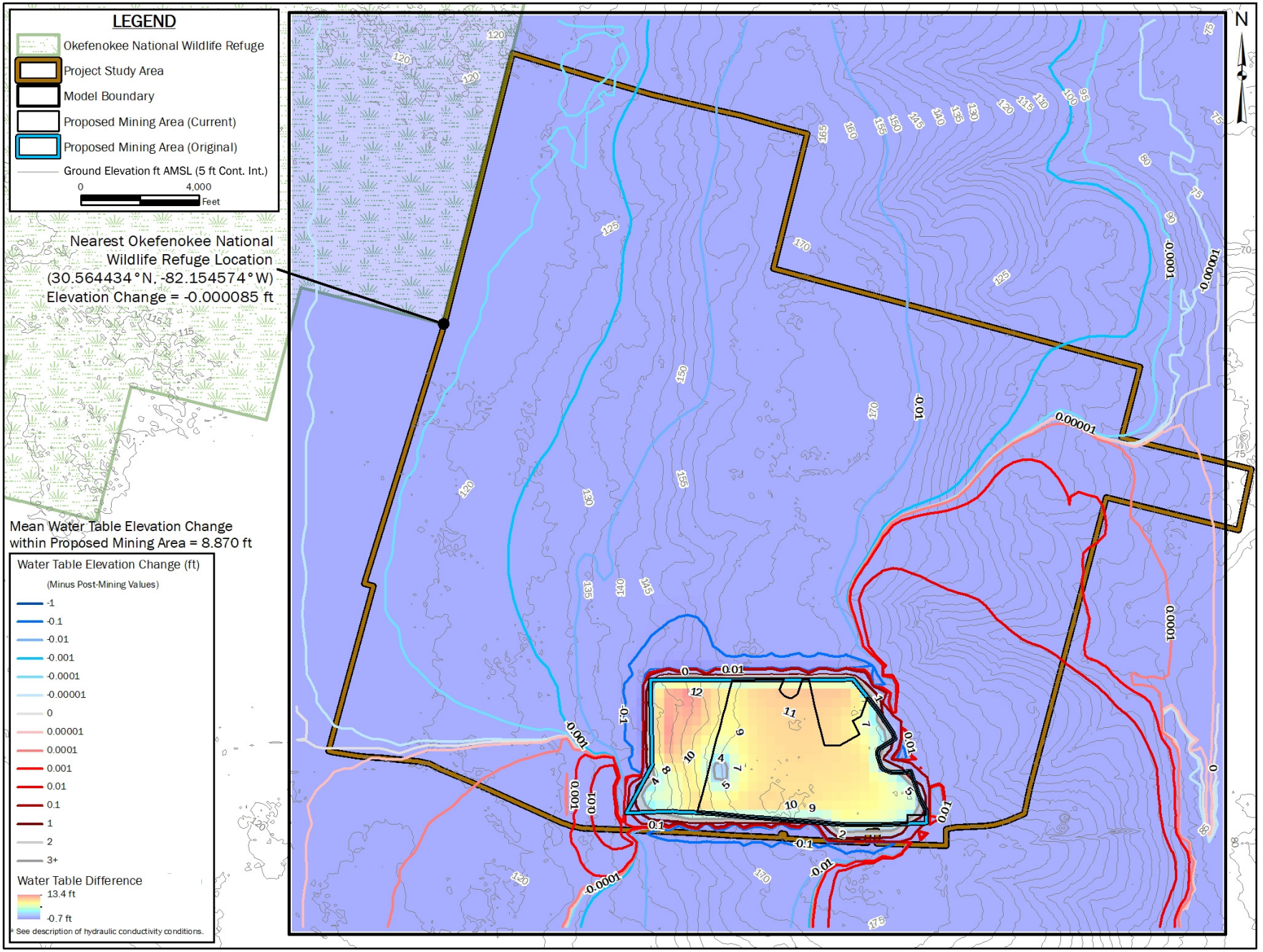

FIGURE 21: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & POST-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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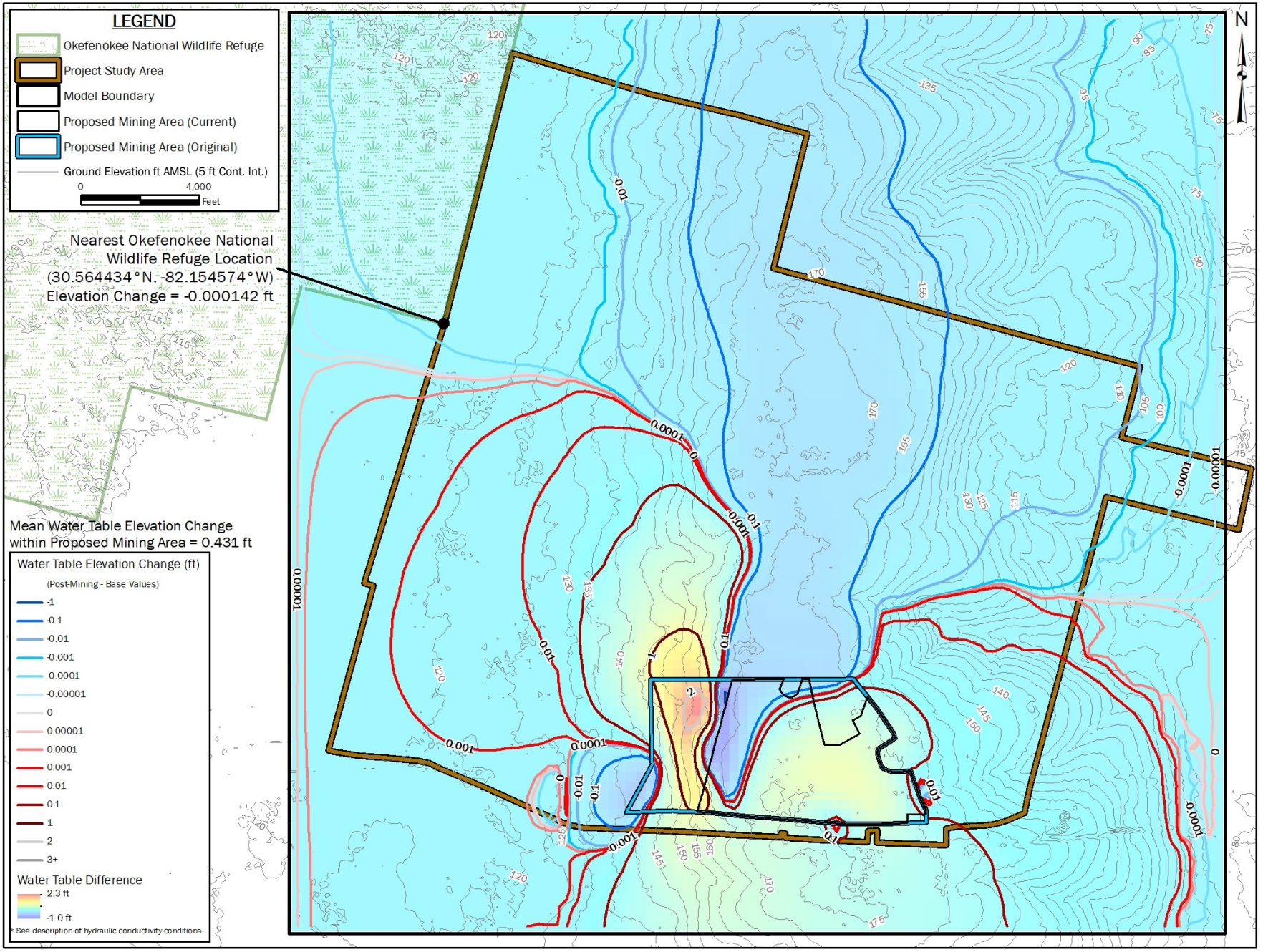

FIGURE 22: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S

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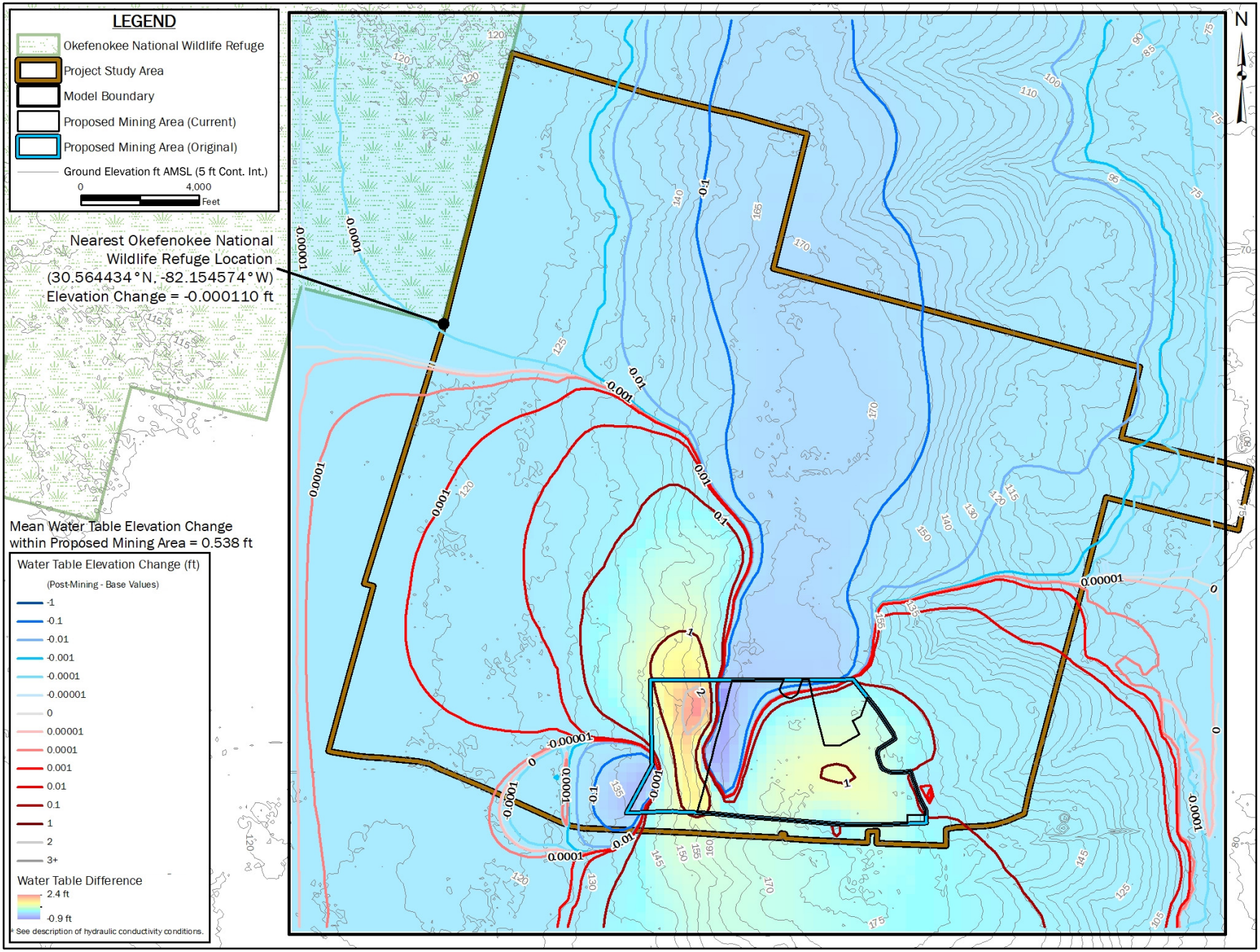

FIGURE 23: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE

ST. GEORGE, CHARLTON COUNTY, GEORGIA

Note: K = Hydraulic Conductivity

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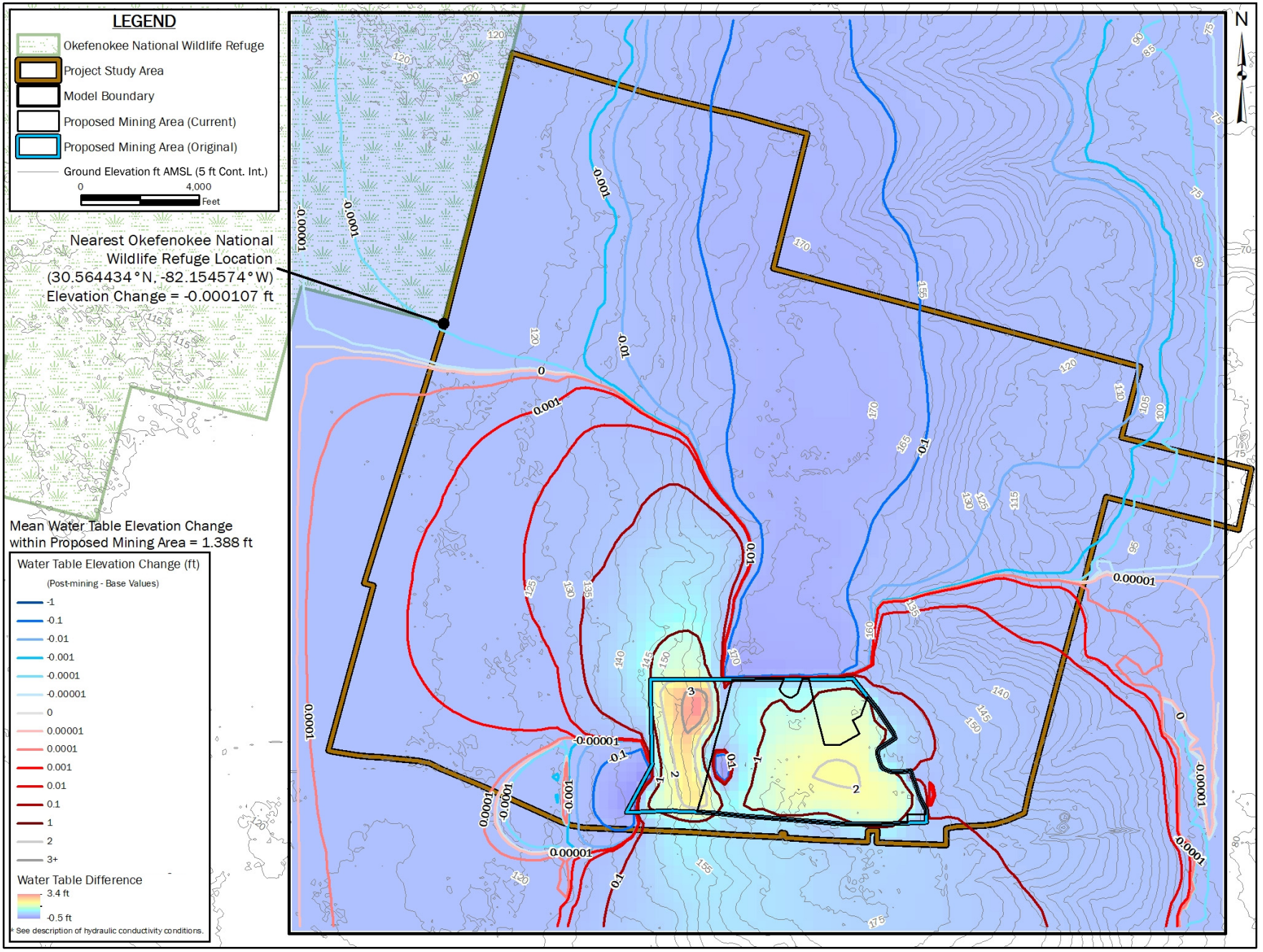

FIGURE 24: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S

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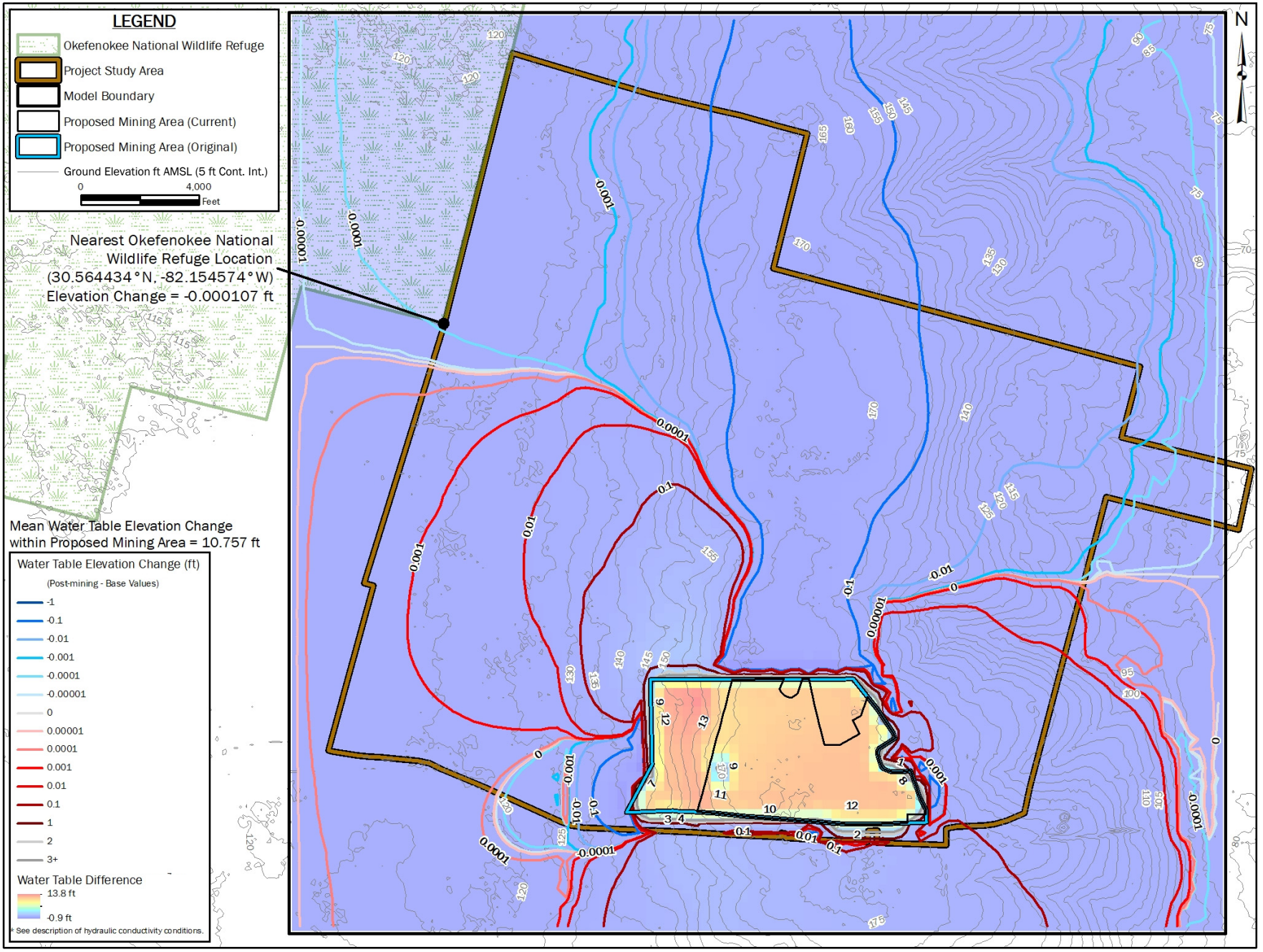

FIGURE 25: HYDRAULIC HEAD DIFFERENCE BETWEEN HOMOGENEOUS SCENARIO MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL & HORIZONTAL K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S

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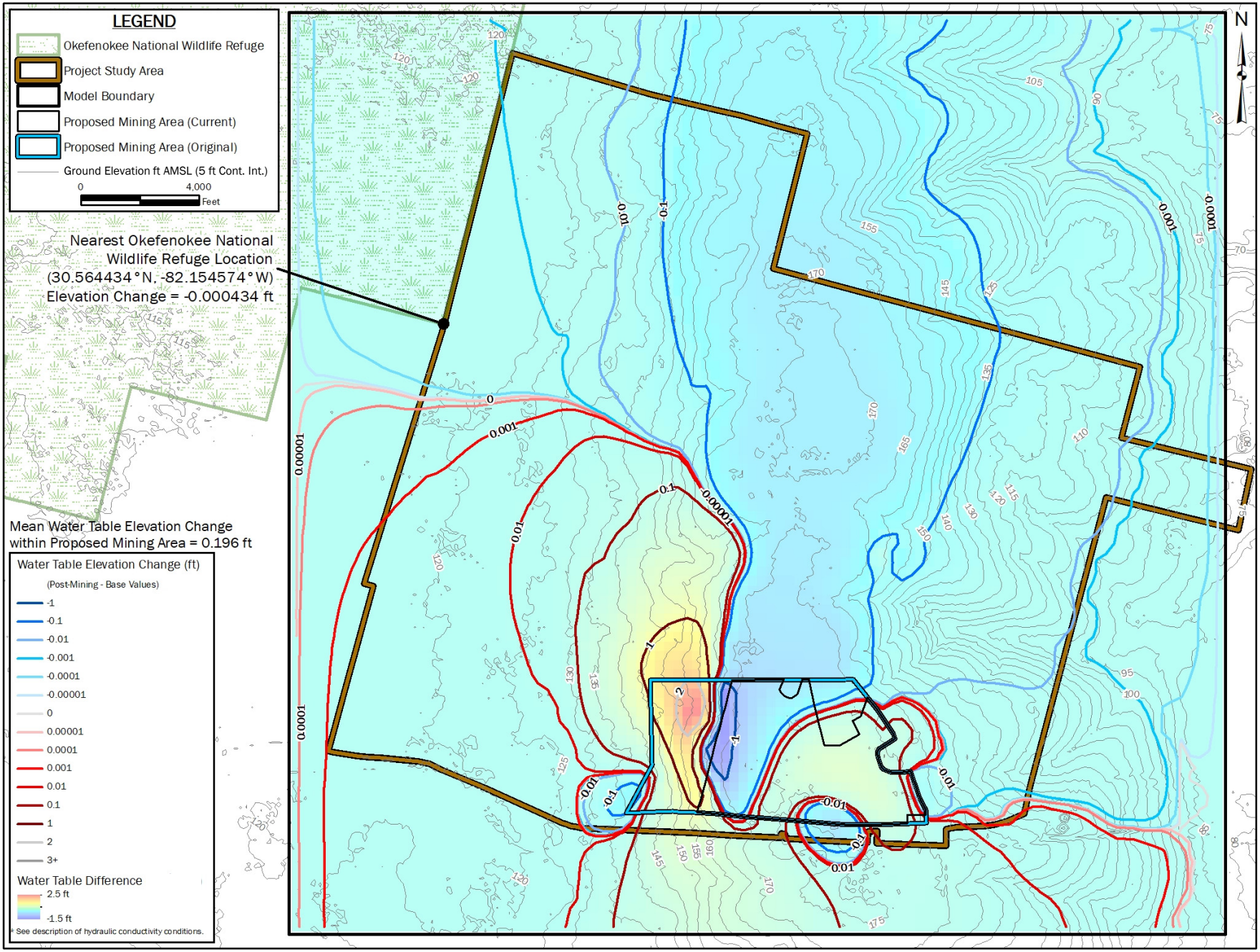

FIGURE 26: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-04 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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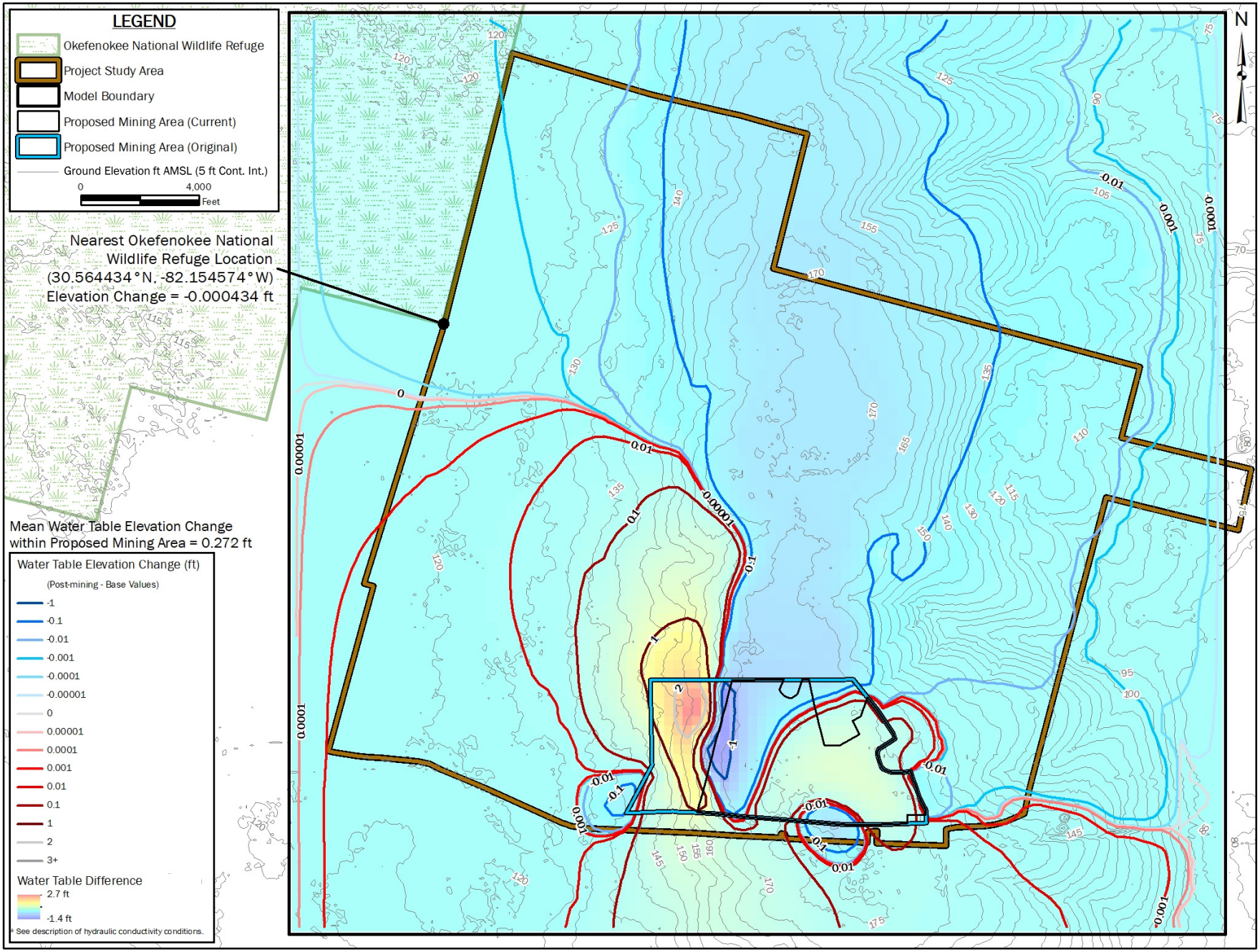

FIGURE 27: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-05 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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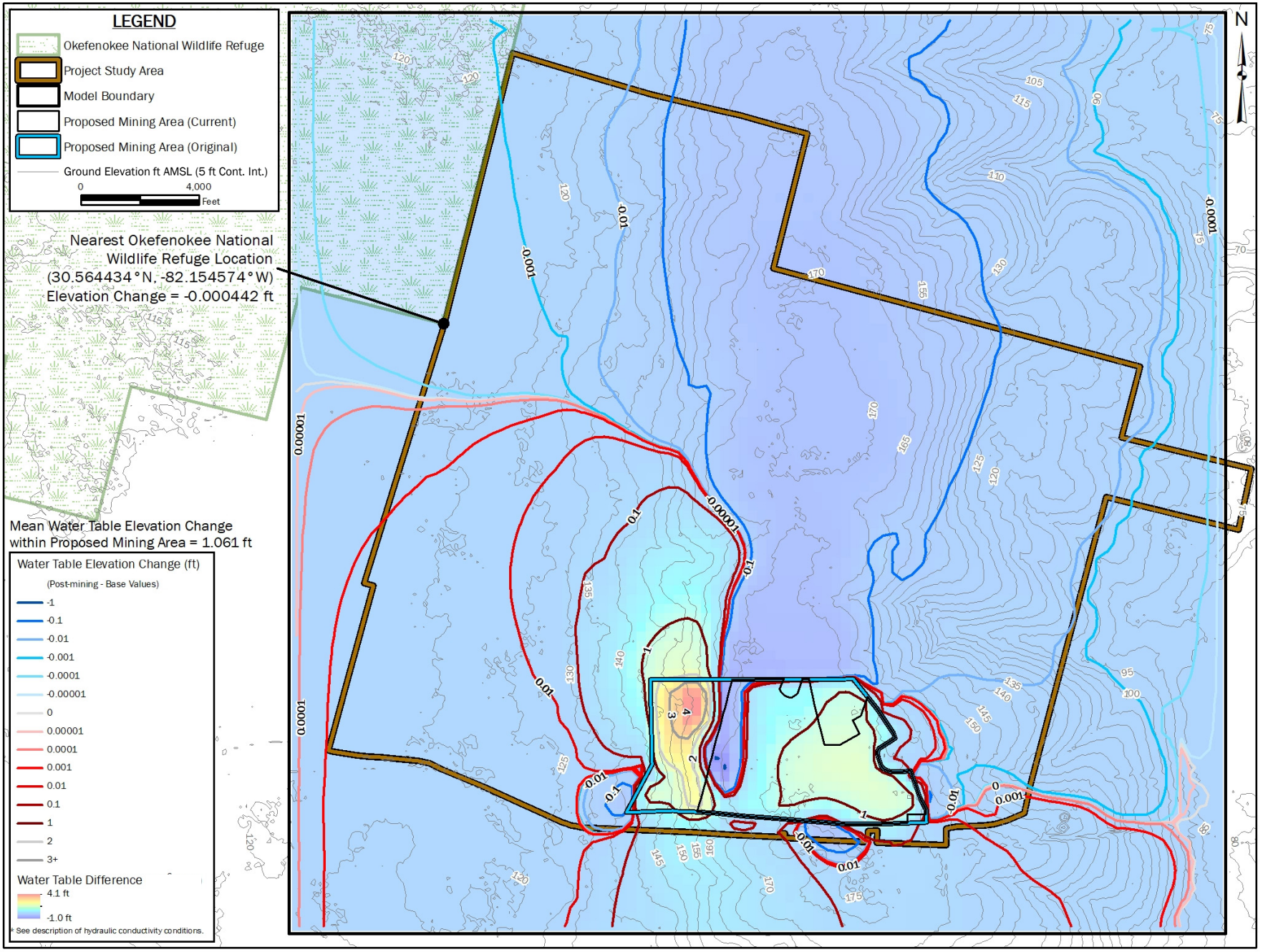

FIGURE 28: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-06 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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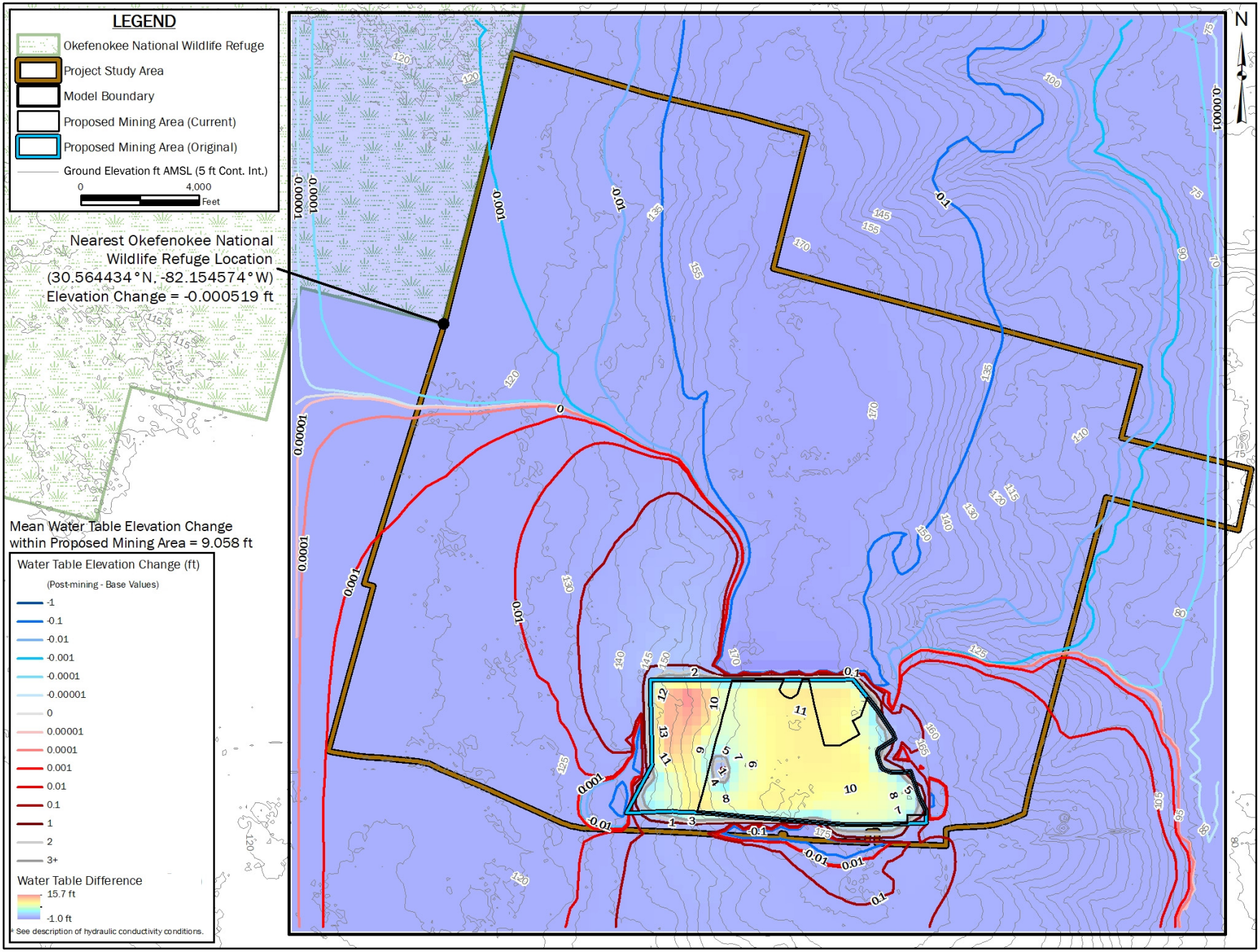

FIGURE 29: HYDRAULIC HEAD DIFFERENCE BETWEEN LAYERED SCENARIO HERE MODELED HERE & PRE-MINING SCENARIO OF HOLT ET AL. (2020); THE VERTICAL EFFECTIVE K OF THE UPPER 10 FEET OF THE MINE FOOTPRINT IS 1E-07 CM/S & THE HORIZONTAL K IS 1E-03 CM/S

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