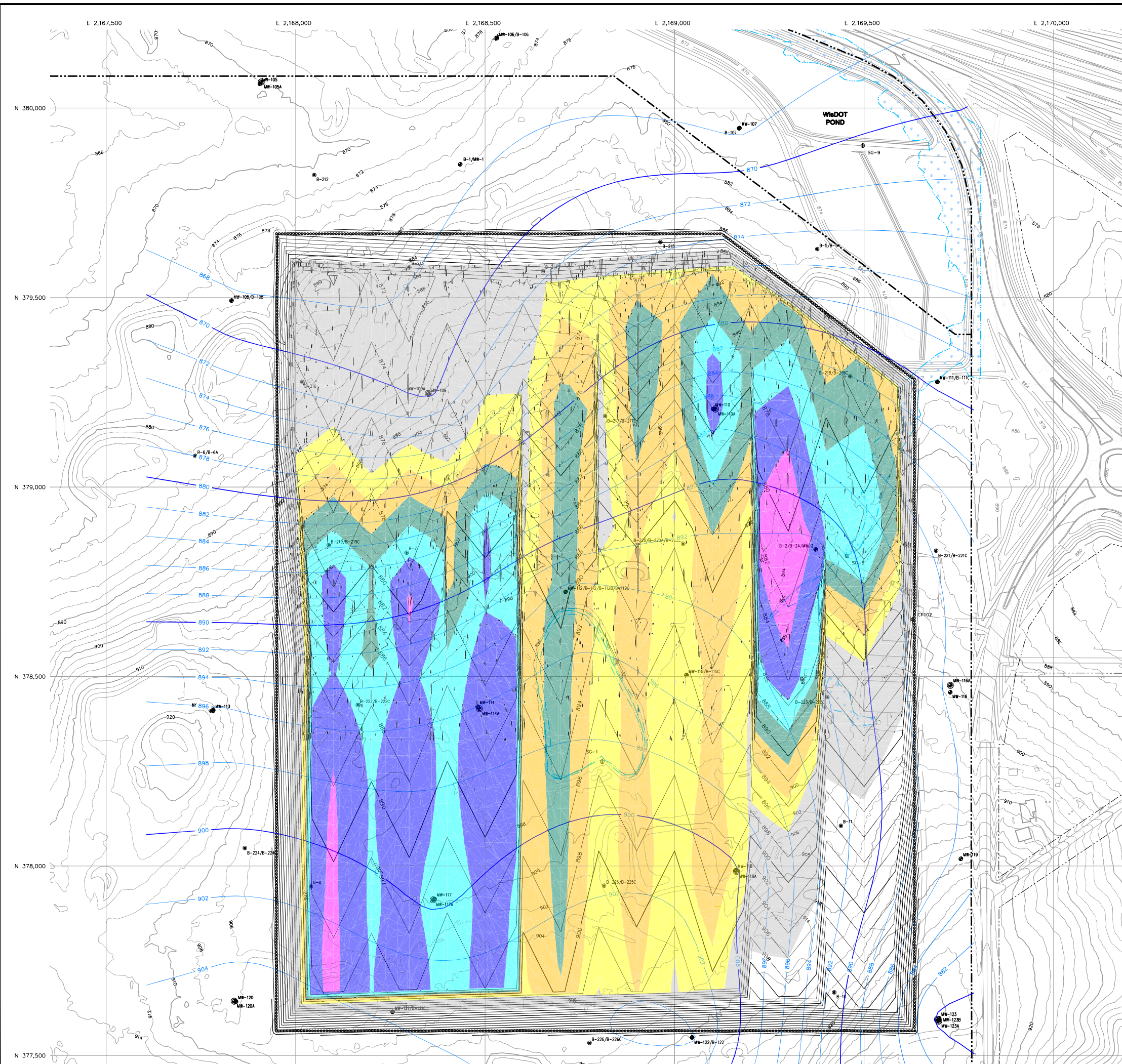




- LEGEND
- PROJECT PROPERTY LINE
  - PROPERTY PARCEL LINE
  - PROPOSED LIMITS OF WASTE
  - EXISTING GRADE (2' CONTOUR)
  - EXISTING GRADE (10' CONTOUR)
  - DOT BASIN CONSTRUCTION GRADE (2' CONTOUR)
  - EXISTING PAVED ROAD
  - EXISTING UNPAVED ROAD
  - EXISTING STREAM/EDGE OF WATER
  - EXISTING WETLAND
  - EXISTING SMALL WETLAND AREA
  - EXISTING SOIL BORING
  - EXISTING MONITORING WELL
  - EXISTING PIEZOMETER
  - EXISTING STAFF GAUGE
  - SUBBASE GRADE (2' CONTOUR)
  - SUBBASE GRADE (10' CONTOUR)
  - MARCH 29, 2023 WATER TABLE (2' CONTOUR)
  - MARCH 29, 2023 WATER TABLE (10' CONTOUR)

Sheet 5 of 7

High water table - March 2023

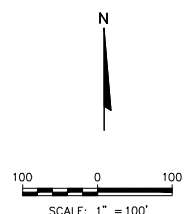
Subbase area below water table = 54.3 acres

Average drawdown required to lower water table to subbase grade = 4.8 feet

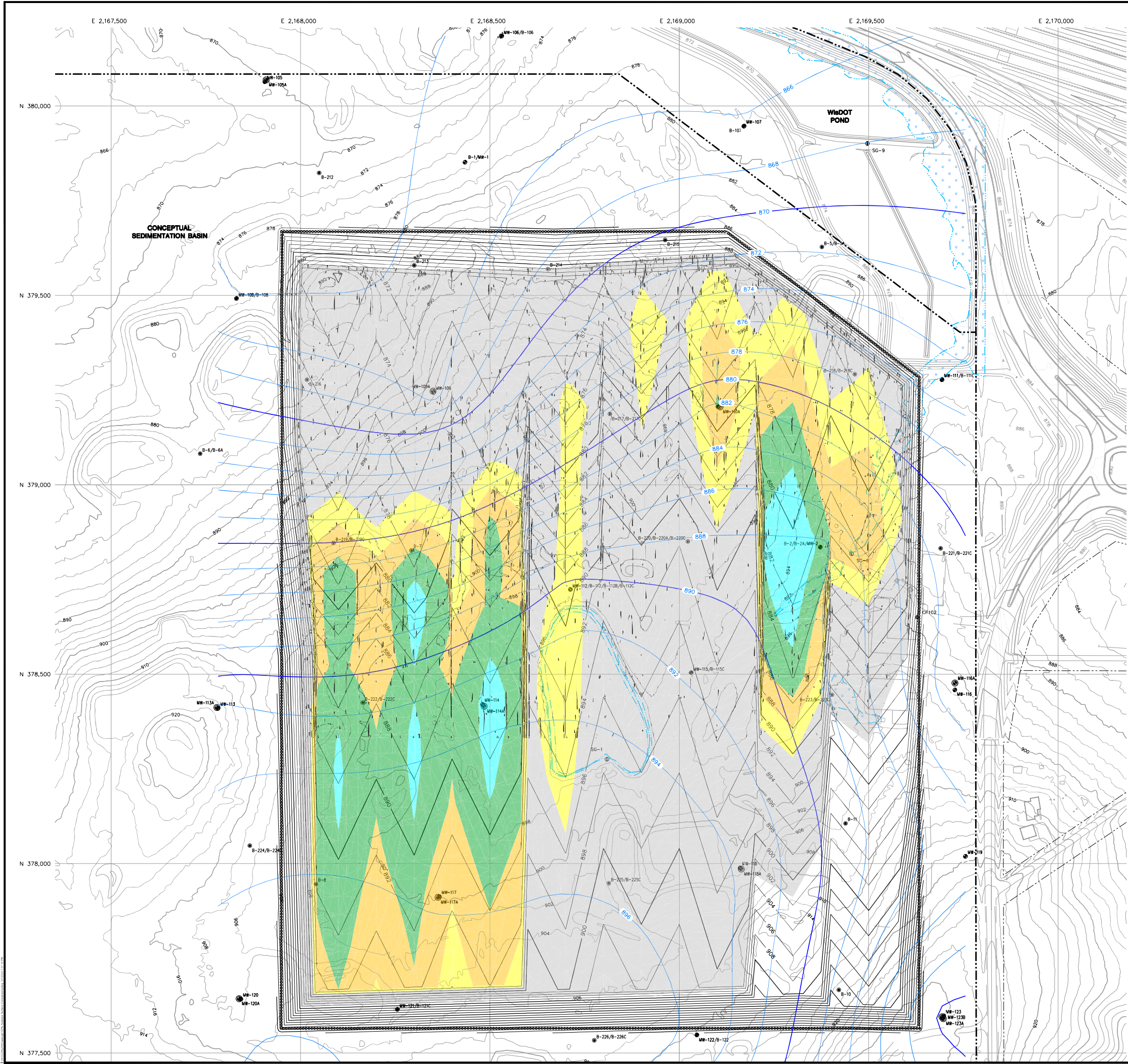
Calculated 2/7//2024 using AutoCAD Civil 3D

- NOTES:
- SEE SHEET 2, EXISTING CONDITIONS, FOR ADDITIONAL LEGEND ITEMS AND BASE MAP NOTES.
  - PROPOSED CONTOURS WITHIN LIMITS OF WASTE REPRESENT BOTTOM OF CLAY LINER (SUBBASE GRADES). UNDERCUTS ARE NOT SHOWN.

| Separation to Water Table |                    |                    |        |
|---------------------------|--------------------|--------------------|--------|
| Number                    | Minimum Separation | Maximum Separation | Color  |
| 1                         | -10.0              | -11.9              | Purple |
| 2                         | -8.0               | -10.0              | Blue   |
| 3                         | -6.0               | -8.0               | Cyan   |
| 4                         | -4.0               | -6.0               | Green  |
| 5                         | -2.0               | -4.0               | Yellow |
| 6                         | 0.0                | -2.0               | Orange |
| 7                         | 0.0                | 10.0               | Red    |
| 8                         |                    | >10.0              | White  |







- LEGEND
- PROJECT PROPERTY LINE
  - PROPERTY PARCEL LINE
  - PROPOSED LIMITS OF WASTE
  - EXISTING GRADE (2' CONTOUR)
  - EXISTING GRADE (10' CONTOUR)
  - DOT BASIN CONSTRUCTION GRADE (2' CONTOUR)
  - EXISTING PAVED ROAD
  - EXISTING UNPAVED ROAD
  - EXISTING STREAM/EDGE OF WATER
  - EXISTING WETLAND
  - EXISTING SMALL WETLAND AREA
  - EXISTING SOIL BORING
  - EXISTING MONITORING WELL
  - EXISTING PIEZOMETER
  - EXISTING STAFF GAUGE
  - SUBBASE GRADE (2' CONTOUR)
  - SUBBASE GRADE (10' CONTOUR)
  - DECEMBER 4, 2023 WATER TABLE (2' CONTOUR)
  - DECEMBER 4, 2023 WATER TABLE (10' CONTOUR)

Sheet 6 of 7

Low water table - December 2023

Subbase area below water table =  
27.9 acres

Average drawdown required to lower  
water table to subbase grade = 3.3  
feet

Calculated 2/7//2024 using AutoCAD  
Civil 3D

- NOTES:
- SEE SHEET 2, EXISTING CONDITIONS, FOR ADDITIONAL LEGEND ITEMS AND BASE MAP NOTES.
  - PROPOSED CONTOURS WITHIN LIMITS OF WASTE REPRESENT BOTTOM OF CLAY LINER (SUBBASE GRADES). UNDERCUTS ARE NOT SHOWN.

| Separation to Water Table |                    |                    |             |
|---------------------------|--------------------|--------------------|-------------|
| Number                    | Minimum Separation | Maximum Separation | Color       |
| 1                         | -6.0               | -7.8               | Light Blue  |
| 2                         | -4.0               | -6.0               | Light Green |
| 3                         | -2.0               | -4.0               | Yellow      |
| 4                         | 0.0                | -2.0               | Orange      |
| 5                         | 0.0                | 10.0               | Grey        |
| 6                         |                    | >10.0              |             |



**Table 5-6. Single Well Hydraulic Conductivity Test Results - All Wells  
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00  
Feasibility Report**

| Monitoring Well | Hydraulic Conductivity ( $K_h$ ) (cm/s) | Lithology within Screen Interval                                                 | USCS Soil Type and/or Rock Unit |
|-----------------|-----------------------------------------|----------------------------------------------------------------------------------|---------------------------------|
| MW-1            | 4.5E-03                                 | Loess and Outwash                                                                | ML, CL, and SP-SM               |
| MW-2            | 1.7E-04                                 | Till                                                                             | SM                              |
| MW-3            | 1.6E-03                                 | Till                                                                             | SM                              |
| MW-4            | 4.4E-02                                 | Dolomite (Prairie du Chien Group)                                                | DOL                             |
| MW-105          | 5.2E-04                                 | Loess, Outwash, and Till                                                         | CL, SP, SM                      |
| MW-105A         | 2.3E-04                                 | Weathered Dolomite                                                               | GM                              |
| MW-106          | 5.3E-04                                 | Loess and Till                                                                   | CL and SM                       |
| MW-107          | 5.2E-04                                 | Till                                                                             | SM                              |
| MW-108          | 3.6E-04                                 | Till                                                                             | SM                              |
| MW-109          | 2.1E-03                                 | Till, Weathered Dolomite, and Dolomite (Galena Fm.)                              | SM, SM, and DL1                 |
| MW-109A         | 1.4E-03                                 | Dolomite (Galena Fm.)                                                            | DL1                             |
| MW-110          | 1.0E-03                                 | Till                                                                             | SM                              |
| MW-110A         | 1.8E-04                                 | Sandstone (Glenwood Fm.)                                                         | SS1                             |
| MW-111          | 2.2E-03                                 | Till & Outwash                                                                   | SM, SP-SM                       |
| MW-112          | 7.5E-03                                 | Till and Weathered Dolomite (Galena Fm.)                                         | SM and SM                       |
| MW-113          | 4.5E-04                                 | Dolomite (Galena Fm.)                                                            | DL1                             |
| MW-113A         | 3.9E-05                                 | Dolomite (Platteville Fm.) & Sandstone (Glenwood Fm.)                            | DL2 and SS1                     |
| MW-114          | 2.3E-03                                 | Loess, Till, and Sandstone (Tonti Member)                                        | CL, SM, and SS2                 |
| MW-114A         | 9.6E-04                                 | Dolomite (Prairie du Chien Gr., Shakopee Fm.)                                    | DL3                             |
| MW-115          | 1.7E-02                                 | Till, Weathered Dolomite, and Dolomite (Oneota Fm.)                              | SM, GM, and DL4                 |
| MW-116          | 4.5E-04                                 | Sandstone (Tonti Member)                                                         | SS2                             |
| MW-116A         | 4.0E-03                                 | Sandstone (Tonti Member)                                                         | SS2                             |
| MW-117          | 3.7E-04                                 | Loess and Till                                                                   | CH and SM                       |
| MW-117A         | 1.9E-04                                 | Dolomite (Oneota Fm.)                                                            | DL4                             |
| MW-118          | 2.2E-03                                 | Till and Sandstone (Tonti Member)                                                | SM and SS2                      |
| MW-118A         | 8.0E-05                                 | Variable Lithology (Readstown Member) & minor Dolomite (Prairie du Chien Gr.)    | SS3 and DL5                     |
| MW-119          | 3.2E-03                                 | Sandstone (Tonti Member)                                                         | SS2                             |
| MW-120          | 2.4E-04                                 | Till                                                                             | SM                              |
| MW-120A         | 1.8E-04                                 | Dolomite (Oneota Fm.)                                                            | DL4                             |
| MW-121          | 4.5E-04                                 | Till, Sandstone (Tonti Member), and Dolomite (Oneota Fm.)                        | SM, SS2, and DL4                |
| MW-122          | 1.1E-04                                 | Till                                                                             | SM                              |
| MW-123          | 2.4E-04                                 | Sandstone (Tonti Member)                                                         | SS2                             |
| MW-123A         | 8.0E-06                                 | Dolomite (Shakopee Fm.)                                                          | DL3                             |
| MW-123B         | 5.4E-04                                 | Variable Lithology (Readstown Member)                                            | SS3                             |
| MW-124          | 1.1E-03                                 | Dolomite (Oneota Fm.)                                                            | DL4                             |
| MW-124A         | 9.6E-05                                 | Dolomite (Oneota Fm.)                                                            | DL4                             |
| MW-125          | 2.6E-04                                 | Till, Variable Lithology (Readstown Member), and Dolomite (Prairie du Chien Gr.) | SM, SS3, and DL5                |
| MW-125A         | 3.2E-04                                 | Dolomite (Prairie du Chien Gr.)                                                  | DL5                             |
| Minimum         | 8.0E-06                                 |                                                                                  |                                 |
| Maximum         | 4.4E-02                                 |                                                                                  |                                 |
| Geometric Mean  | 6.0E-04                                 |                                                                                  |                                 |

|                   |     |       |           |
|-------------------|-----|-------|-----------|
| Created by:       | ACW | Date: | 9/28/2023 |
| Last revision by: | JR  | Date: | 1/15/2024 |
| Checked by:       | SCC | Date: | 2/7/2024  |

I:\25222268.00\Deliverables\Feasibility Report\Tables\[5-6 Hydraulic Conductivity Test Results.xlsx]5-6 All Wells