Appendix 1 AEM Interpretive Imagery

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Figure A1-1: Resistivity model of all Quaternary materials overlying the interpreted Cretaceous bedrock surface in the north flight block.



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Figure A1-5: Resistivity model of all Quaternary materials overlying the interpreted Cretaceous bedrock surface in the north flight block with a horizontal slice of material at a depth of 75 ft bgl and above removed from the eastern half of the block.



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Figure A1-7: Resistivity model of all Quaternary materials overlying the interpreted Cretaceous bedrock surface in the north flight block with a horizontal slice of material at a depth of 150 ft bgl and above removed from the eastern half of the block.



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Figure A1-34: 2D map of interpreted Cretaceous bedrock surface elevations in the north flight block.



Figure A1-25: 2D map of interpreted Cretaceous bedrock surface elevations in the south flight block.



Figure A1-36: 2D map of interpreted Cretaceous bedrock surface elevations in the east flight block.



Figure A1-37: 3D voxel of resistivities in the north flight block below the interpreted bedrock surface with all resistivities below 21 ohm-m set as semi-transparent and all resistivities above 18 ohm-m set as opaque with the resistivity levels defined in the scale in the upper right.



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Figure A1-41: Total voxel thickness of the Quaternary deposits in the south block, with thickness ranging from 30 to over 400 feet. Blank areas indicate where less permeable to no aquifer material is present. The voxel overlies the interpreted bedrock surface.



Figure A1-42: Total voxel thickness of the Quaternary deposits in the east block, with thickness ranging from 15 to 285 feet. Blank areas indicate where less permeable to no aquifer material is present. The voxel overlies the interpreted Cretaceous bedrock surface.



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Figure A1-44: Total voxel thickness of the Quaternary deposits beneath the water level surface and above the Cretaceous bedrock in the south block, with thickness ranging from 15 to 360 feet. Blank areas indicate where less permeable to no aquifer material is present. The voxel overlies the interpreted bedrock surface.

44 Aquifer Thickness Above Bedrock and Below Water Table (ft) Bedrock Elevation - NAVD88 (ft) Northing (ft) 14935000 Easting (ft)

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Figure A1-45: Total voxel thickness of the Quaternary deposits beneath the water level surface and above the Cretaceous bedrock in the east block, with thickness ranging from 15 to 225 ft. Blank areas indicate where less permeable to no aquifer material is present. The voxel overlies the interpreted bedrock surface.



Figure A1-46: Total thickness of glacial till and loess above the principal aquifer in the north block, with thickness ranging from 0 to nearly 500 feet.



Figure A1-47: Total thickness of glacial till and loess above the principal aquifer in the south block, with thickness ranging from 0 to over 480 feet.



Easting (ft)

Northing (ft)



Bedrock Elevation - NAVD88 (ft)



Figure A1-49: Historic cross-section SAU-205 in profile view with the AEM data in the south block. The lithologic color codes of the historic cross section are shown in the bottom right of the figure, and the lithology color codes for the CSD and NDNR boreholes are displayed on the color bar to the left. The location of the profile is shown in red on Figure 4-14 in the main body of the report.





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Figure A1-51: Level of potentiometric head in feet above the top of the principal aquifer in the north block based on the interpolated water level surface created from NDNR and USGS water levels.



Figure A1-52: Level of potentiometric head in feet above the top of the principal aquifer in the south block based on the interpolated water level surface created from NDNR and USGS water levels.

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 Bedrock Elevation - NAVD88 (ft) Northing (ft) 14935000 Easting (ft)

Figure A1-53: Level of potentiometric head in feet above the top of the principal aquifer in the east block based on the interpolated water level surface created from NDNR and USGS water levels.



Figure A1-54: Two-dimensional map representing the areas of potential recharge in the north block. Orange areas indicate resistive material 21 ohm-m or greater at the land surface, red areas indicating resistive material within 16 ft of the land surface, and maroon areas indicating areas with resistive material within 33 ft of the land surface.



Figure A1-55: Two-dimensional map representing the areas of potential recharge in the south block. Orange areas indicate resistive material 18 ohm-m or greater at the land surface, red areas indicating resistive material within 16 ft of the land surface, and maroon areas indicating areas with resistive material within 33 ft of the land surface.



Figure A1-56: Two-dimensional map representing the areas of potential recharge in the east block. Orange areas indicate resistive material 24 ohm-m or greater at the land surface, red areas indicating resistive material within 16 ft of the land surface, and maroon areas indicating areas with resistive material within 33 ft of the land surface.

Appendix 2 Water Quality Data Interpretation and Maps



Figure A2-1: Distribution of selected chemical constituents by aquifer from water samples in or near the project area, Lower Platte South NRD (Alkalinity as CaCO3; LRL, laboratory reporting limit; LPSNRD, Lower Platte South Natural Resources District; USGS, U.S. Geological Survey; Qtrl, statistical quantile; U, upper; L, lower (data from Lower Platte South NRD and USGS; Cretaceous Dakota aquifer not shown due to small sample size).

APPENDIX 2



Figure A2-2: Specific conductance vs. sodium at surface and groundwater sample locations across the project area (source: USGS).



Figure A2-2: Median concentration of calcium in groundwater samples within and near the LPSNRD (Source: LPSNRD & USGS).



Figure A2-3: Median concentration of chloride in groundwater samples within and near the LPSNRD (Source: LPSNRD & USGS).



Figure A2-4: Median concentration of sodium in groundwater samples within and near the LPSNRD (Source: LPSNRD & USGS).



Figure A2-5: Median concentration of total dissolved solids in groundwater samples within and near the LPSNRD (Source: LPSNRD & USGS).

Table A2-1: Summary table of water quality parameters evaluated in project area wells.

Results of water-quality samples from sites in or near the project area, Lower Platte South NRD [Depth in feet; specific conductance, in microSiemens per centimeter at 25°C; pH in standard units; other units in miligrams per liter unites specified; NA, no sample or not available]

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| O A.1712 | Source | Site | Date | feet | conductance | pH, in | Hardness | CuCO3 | Calcium | Magnesium | Sodium | Potassium | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | solida | Nirate as N | nts | nts | nta | Ratio |
| ml M | DV | A-017212 | 8/6/1996 | NA | 551 | 7.5 | 282 | 270 | 95 | 16.0 | 7.5 | 6.0 | 93.0 | 3.7 | 0.33 | 55 | <0.05 | 0.02 | 400 | 0.5 | 2.37 | 0.66 | 0.33 | 0.27 |
| m h | UV | A-017212 | 7/29/1997 | NA | 604 | 7.3 | 290 | 270 | 170 | 19,0 | 7.0 | 8.9 | 60.0 | 6.0 | 0.4 | 3.3 | 0.4 | 0.07 | 400 | 1.6 | 4.24 | 0.78 | 0.30 | 0.19 |
| P A. 2012 J. J | DIV | A-017212 | 9/22/1998 | NA | 644 | 7.5 | 230 | 268 | 62 | 19.0 | 11.0 | 6.1 | 62.7 | NA | 0.68 | NA | NA | NA. | 450 | 4 | 1.55 | 0.78 | 0.48 | 0.44 |
| m m h | VO | A-017212 | 7/14/1999 | NA | 669 | 7.72 | 357 | 273 | 107 | 21.3 | 13.9 | 7.4 | 59.0 | 6.0 | 0.2 | 25 | <0.05 | 0.03 | 480 | 3.5 | 2.67 | 0.88 | 0.60 | 0.43 |
| m def 201 | DV | A-017212 | 4/27/2000 | NA | 6.49 | 7,88 | 354 | 276 | 106 | 21.1 | 13.7 | 6.4 | 58.0 | 5.0 | 0.2 | 28 | <0.05 | 0.02 | 472 | 4 | 2.64 | 0.87 | 0.60 | 0.4 |
| m cl cl cl cl | DV. | A-017212 | 7/13/2000 | NA | 210 | 1.1 | 422 | 292 | 129 | 23.9 | 14.2 | 8.0 | 52.0 | 8.0 | 0.2 | 52 | <0.05 | 0.03 | 353 | 2.1 | 3.22 | 0.98 | 0.62 | 0.43 |
| m no no </td <td>mv.</td> <td>A-017212</td> <td>1/22/2000</td> <td>NA</td> <td>653</td> <td>7.48</td> <td>375</td> <td>283</td> <td>114</td> <td>12.3</td> <td>14.0</td> <td>6.8</td> <td>64.0</td> <td>7.0</td> <td>0.5</td> <td>20</td> <td>-0.05</td> <td>0.02</td> <td>467</td> <td>5.8</td> <td>2.84</td> <td>0.92</td> <td>0.60</td> <td>0.43</td> | mv. | A-017212 | 1/22/2000 | NA | 653 | 7.48 | 375 | 283 | 114 | 12.3 | 14.0 | 6.8 | 64.0 | 7.0 | 0.5 | 20 | -0.05 | 0.02 | 467 | 5.8 | 2.84 | 0.92 | 0.60 | 0.43 |
| D A C D A C D | OV. | A-017212 | 7/11/2001 | NA | 712 | 7.4 | 368 | 290 | 111 | 21.4 | 15.5 | 6.9 | 71.0 | 7.0 | 0.2 | 26 | <0.05 | 0.06 | 487 | 5.8 | 2.77 | 0.68 | 0.67 | 0.50 |
| m A C100 C100 C100 </td <td>UV</td> <td>A-017212</td> <td>10/30/2001</td> <td>NA</td> <td>651</td> <td>7.57</td> <td>395</td> <td>242</td> <td>136</td> <td>25.2</td> <td>15.5</td> <td>7.4</td> <td>71.0</td> <td>8.0</td> <td>0.2</td> <td>28</td> <td><0.05</td> <td>0.03</td> <td>417</td> <td>6.3</td> <td>2.89</td> <td>1.04</td> <td>0.67</td> <td>0.48</td> | UV | A-017212 | 10/30/2001 | NA | 651 | 7.57 | 395 | 242 | 136 | 25.2 | 15.5 | 7.4 | 71.0 | 8.0 | 0.2 | 28 | <0.05 | 0.03 | 417 | 6.3 | 2.89 | 1.04 | 0.67 | 0.48 |
| m display disp | DV | A-017212 | 1/10/2002 | NA | 673 | 7.45 | 365 | 275 | 108 | 22.8 | 14.7 | 7.7 | 64.0 | 6.0 | 0.2 | 27 | <0.05 | 0.02 | 515 | 5.6 | 2.69 | 0.94 | 0.64 | 0.47 |
| m M M M T | OV. | A-017212 | 4/15/2002 | NA | 700 | 7.81 | 393 | 241 | 119 | 22.5 | 14.9 | 7,4 | 58.0 | 6.0 | 0.2 | 30 | <0.05 | 0.02 | 450 | 5.7 | 2.97 | 0.93 | 0.65 | 0.46 |
| P A D | VO | A-017212 | 7/23/2002 | NA | 783 | 7,3 | 372 | 281 | 114 | 21,1 | 14,5 | 7.0 | 84.2 | 87 | 0.3 | 56.7 | <0.05 | 0.032 | 564 | 8 | 2.84 | 0.87 | 0.63 | 0.46 |
| m delta fielda | DV OU | A-017212 | 11/4/2002 | NA | 712 | 7.2 | 371 | 264 | 114 | 20.9 | 14.2 | 7.0 | 70.6 | 7.5 | 0.3 | 55.6 | <0.05 | 0.021 | 496 | 4.4 | 2.84 | 0.86 | 0.62 | 0.45 |
| 0 44 12 12 14 12 15 </td <td>DV.</td> <td>A-01/212</td> <td>1/9/2003</td> <td>200</td> <td>722</td> <td>7.4</td> <td>337</td> <td>257</td> <td>110</td> <td>19.9</td> <td>15.4</td> <td>7.0</td> <td>66,7</td> <td>0.5</td> <td>0.2</td> <td>35.5</td> <td><0.05</td> <td>0.025</td> <td>384</td> <td>, b</td> <td>2.74</td> <td>0.82</td> <td>0.58</td> <td>0.44</td> | DV. | A-01/212 | 1/9/2003 | 200 | 722 | 7.4 | 337 | 257 | 110 | 19.9 | 15.4 | 7.0 | 66,7 | 0.5 | 0.2 | 35.5 | <0.05 | 0.025 | 384 | , b | 2.74 | 0.82 | 0.58 | 0.44 |
| D | av. | A-017212 | 7/24/2003 | NA | 783 | 7.48 | 415 | 292 | 125 | 20.5 | 15.5 | 36 | 81.6 | 8.0 | NA | 34 | :0.05 | 0.03 | 570 | 8.9 | 3.13 | 1.01 | 0.67 | 0.43 |
| m c 1 | OV | A-017212 | 10/8/2003 | NA | 768 | 7.2 | 423 | 281 | 127 | 25.2 | 15.5 | 8.1 | 83.0 | 9.0 | 0.2 | 23 | <0.05 | 0.02 | 528 | 9 | 3.17 | 1.04 | 0.67 | 0.46 |
| 0 | EV. | A-017212 | 7/28/2004 | NA | 824 | 7.3 | 376 | 264 | 112 | 23.1 | 14.8 | 7.0 | 67.5 | 8.5 | 0.3 | \$7.7 | <0.05 | 0.024 | 508 | 8.6 | 2.79 | 0.95 | 0.64 | 0.47 |
| vi A 62722 11/1/200 MA 640 7.8 800 277 112 2.6 1.6 1.6 50 20 600 60.0 | OV | A-017212 | 4/12/2005 | NA | 644 | 7.2 | 339 | 257 | 104 | 19.4 | 13.3 | 7.0 | 49.4 | 4.8 | 0.4 | 62.1 | <0.05 | 0.012 | 408 | 3.8 | 2.59 | 0.80 | 0.58 | 0.44 |
| m Advirus Advi | OV | A-017212 | 11/1/2005 | NA | 689 | 7.58 | 369 | 277 | 132 | 21.6 | 14.3 | 7,4 | 51.0 | 5.0 | 0.5 | 28 | <0.05 | 0.01 | 408 | 6.Z | Z.79 | 0.89 | 0.62 | 0.46 |
| 0 0 0.0 | DV. | A-017212 | 4/25/2006 | NA | 644 | 7.53 | 352 | 278 | 107 | 20.7 | 14.0 | 7.2 | 56.0 | 5.0 | 0.3 | 25 | <0.05 | 0.01 | 412 | 4.6 | 2.67 | 0.85 | 0.61 | 0.46 |
| 0 0 0.000 NA 0.00 </td <td>av</td> <td>A-017212</td> <td>10/16/2006</td> <td>NA</td> <td>654</td> <td>8.21</td> <td>369</td> <td>282</td> <td>112</td> <td>21.7</td> <td>14.1</td> <td>7.0</td> <td>63.0</td> <td>7.0</td> <td>0.3</td> <td>26</td> <td><0.05</td> <td>0.01</td> <td>434</td> <td>5.3</td> <td>2.79</td> <td>0.89</td> <td>0.61</td> <td>0.45</td> | av | A-017212 | 10/16/2006 | NA | 654 | 8.21 | 369 | 282 | 112 | 21.7 | 14.1 | 7.0 | 63.0 | 7.0 | 0.3 | 26 | <0.05 | 0.01 | 434 | 5.3 | 2.79 | 0.89 | 0.61 | 0.45 |
| OP/ Add7122 SUL0008 NA SUB | DV DV | A-017212 | 9/27/2007 | 200 | 305 | 9.04 | 320 | 2/0 | 104.1 | 20.6 | 18.8 | 7.5 | 58.0 | 0.0 | 0.3 | 20.04 | <0.05 | 0.01 | 438 | 51 | 2.60 | 0.89 | 0.82 | 0.62 |
| m Add722 121/2009 NA S60 7.32 7.99 7.41 7.0 7.0 7.0 7 | DV DV | A-017212 | 5/14/2008 | NA | 585 | 7.4 | 329 | 265 | 100.06 | 19.3 | 14.1 | 65 | 57.0 | 6.0 | 0.2 | 25.08 | <0.05 | 0.01 | 430 | | 2.50 | 0.79 | 0.61 | 0.49 |
| 00// Add1212 111/20200 MA 647 7.7 2.8 6.8 7.2 1.2 1.4 6.1 6.0 6.01 4.8 1.3 1.4 6.0 0.01 7.3 1.3 0.02 4.8 0.01 7.3 2.22 0.7 6.3 0.01 | ΠV | A-017212 | 12/10/2008 | NA | 610 | 7.52 | 296 | 270 | 88.95 | 17.9 | 14.1 | 7.0 | 52.0 | 5.0 | 0.3 | 22.65 | <0.05 | <0.01 | 438 | 3.5 | 2.22 | 0.74 | 0.61 | 0.50 |
| 00 A C 7 | DV. | A-017212 | 5/12/2009 | NA | 568 | 7.33 | 277 | 269 | 85.87 | 15.2 | 12.4 | 5.6 | 45.0 | 4.0 | 0.3 | 23.13 | <0.05 | <0.01 | 418 | 2.3 | 2.14 | 0.62 | 0.54 | 0.46 |
| m A A A B D D B D B D | OV | A-017212 | 11/5/2009 | NA | 657 | 7.44 | 293 | 264 | 89.05 | 17.2 | 32.4 | 6.1 | 54.0 | 5.0 | 0.3 | 23.36 | <0.05 | <0.03 | 406 | 5.5 | 2.22 | 0.71 | 0.54 | 0.45 |
| m Add2121 Ling MA 642 7.4 10.2 10. | UΝ | A-017212 | 5/26/2010 | NA | 613 | 7.36 | 308 | 260 | 94.84 | 17.2 | 12.9 | 6.6 | 48.0 | 5.0 | 0.3 | 23.6 | 0.01 | 0.01 | 372 | 3.4 | 2.37 | 0.71 | 0.56 | 0.45 |
| 0/v A 407121 64/v011 MA 520 7.3 278 7.64 64.0 6.3 6.4.7 6.00 8.8 2.1 2.1 0.0 6.03 2.4.7 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 6.03 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 1.4.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | DV. | A-017212 | 11/9/2010 | NA | 628 | 7,41 | 327 | 274 | 200.98 | 18.2 | 12.7 | 6.4 | 59.0 | 6.0 | 0.3 | 25.26 | <0.05 | +0.01 | 358 | 5.3 | 2.52 | 0.75 | 0.55 | 0.43 |
| 0 A 0 A 1 | VO | A-017212 | 6/8/2011 | NA | 592 | 7.34 | 278 | 264 | B4,63 | 16.0 | 11.9 | 6.0 | 45.0 | 4.0 | 0.3 | 24,79 | <0.05 | <0.01 | 384 | 2.1 | 2.11 | 0.66 | 0.52 | 0.44 |
| OPV AC1212 SQUADIZ MA SQUADIZ SQUADIZ | DV OU | A-017212 | 11/1/2011 | NA | 590 | 7,45 | 255 | 267 | 74.48 | 17.1 | 22.1 | | 51.0 | 5.0 | 0.3 | 14.71 | <0.05 | 0.01 | 358 | 2.6 | 1.86 | 0.70 | 0.96 | 0.85 |
| OPV A 01222 D24/2012 NA OPI 212 224 124 <th< td=""><td>mu .</td><td>A-017212</td><td>5/10/2012</td><td>NA NA</td><td>603</td><td>7.41</td><td>311</td><td>2/6</td><td>90,47</td><td>16.1</td><td>31.2</td><td>4.2</td><td>71.0</td><td>14.0</td><td>0.2</td><td>14.0</td><td>40.05</td><td>0.15</td><td>400</td><td>14</td><td>2.41</td><td>0.14</td><td>1.30</td><td>1.05</td></th<> | mu . | A-017212 | 5/10/2012 | NA NA | 603 | 7.41 | 311 | 2/6 | 90,47 | 16.1 | 31.2 | 4.2 | 71.0 | 14.0 | 0.2 | 14.0 | 40.05 | 0.15 | 400 | 14 | 2.41 | 0.14 | 1.30 | 1.05 |
| DV A 01222 12/2012 NA 001 746 1052 105 104 441 484 0.2 256 0.0 342 2.8 0.2 1.55 0.00 342 2.8 0.2 1.55 0.00 4.01212 102/2013 NA 0.00 2.35 11.8 2.8 0.54 11.0 11.0 2.4 0.5 2.4 0.5 2.4 0.5 2.4 0.5 2.4 0.5 2.4 0.5 2.4 0.5 2.4 0.5 1.8 0.6 0.1 2.5 0.1 1.8 0.6 0.4 1.4 0.05 0.11 2.8 0.4 1.8 0.4 0.1 1.8 0.05 0.11 | DV. | A-017212 | 5/23/2012 | MA | 203 | 7.21 | 278.8 | 278 | 85.14 | 17.4 | 11.8 | 6.1 | 43.7 | 14.0 | 0.2 | 24.95 | +0.05 | 0.05 | 450 | 21 | 2.12 | 0.72 | 0.51 | 0.43 |
| DV A 401712 SY2/7031 NA 999 7,55 1118 201 121 6.1 402 3.5 0.05 0.05 1.05 1.45 2.00 0.65 0.01 1.65 1.45 2.00 0.67 0.05 0.05 0.01 1.65 0.27 57 0.4 0.27 57 0.4 0.27 57 0.4 0.27 1.15 1.16 0.27 0.7 0.27 0.7 0.4 0.27 0.7 0.4 0.27 0.7 0.4 0.27 0.7 0.4 0.27 0.7 0.4 0.1 0.2 0.1 0.05 0.1 < | DV | A-017212 | 12/3/2012 | NA | 603 | 7.46 | 305.7 | 265 | 93,73 | 17.4 | 12.6 | 6.4 | 48.4 | 4.8 | 0.2 | 26.96 | <0.05 | <0.01 | 342 | 2.45 | 2.34 | 0.72 | 0.55 | 0.44 |
| DV 6.017212 101/2013 NA 600 7.5 11.8 288 15.0 <t< td=""><td>OV</td><td>A-017212</td><td>5/23/2013</td><td>NA</td><td>590</td><td>7.55</td><td>285.1</td><td>261</td><td>88.24</td><td>15.7</td><td>12.1</td><td>6.1</td><td>40.2</td><td>3.6</td><td>0.3</td><td>25.35</td><td><0.05</td><td><0.01</td><td>350</td><td>1.65</td><td>2.20</td><td>0.65</td><td>0.52</td><td>0.44</td></t<> | OV | A-017212 | 5/23/2013 | NA | 590 | 7.55 | 285.1 | 261 | 88.24 | 15.7 | 12.1 | 6.1 | 40.2 | 3.6 | 0.3 | 25.35 | <0.05 | <0.01 | 350 | 1.65 | 2.20 | 0.65 | 0.52 | 0.44 |
| 0 6 00735 4 71/2003 92 92 7.1 452 376 135 7.0 6 0.0 6 0.035 104/1003 92 855 7 453 130 7.0 130 7.0 130 7.0 130 7.0 130 7.0 130 7.0 130 7.0 130 7.0 130 | DV | A-017212 | 10/1/2013 | NA | 609 | 7.5 | 313.8 | 268 | 95.94 | 18.0 | 13.0 | 6.4 | 47.5 | 5.4 | 0.3 | 24.36 | <0.05 | 0.01 | 368 | 3.82 | 2.39 | 0.74 | 0.56 | 0.45 |
| OP 6-00735 MS72/2003 9 1.13 7.06 6.27 452 1.85 7.455 1.80 1.80 1.80 1.80 2.80 0.4 1.6 0.6 6.03 2.0 6.03 5.0 0.6 6.03 0.0 6.00735 7722/008 92 1.84 4.81 1.74 932 4.50 9.1 6.00 6.0 < | OV | G-007355 | 4/21/2003 | 92 | 925 | 7.1 | 452 | 376 | 135 | 27.9 | 24.9 | 9.0 | 90.6 | 12.4 | 0.3 | 41.4 | <0.05 | 0.297 | 576 | 0.4 | 3.37 | 1.15 | 1.08 | 0.72 |
| ON 6-00735 10//1003 92 855 7 463 113 993 250 911 850 120 0.3 16 0.05 0.68 502 0.5 321 121 161 158 1 0V 6-00735 77117006 52 497 7.47 501 413 141 141 122 10.4 6.03 10.4 0.05 0.51 514 1.4 0.1 1.1 1.0 1.1 1.0 1.0 1.0 0.0 6.0375 5771 1.1 1.0 1.1 1.1 1.0 <td< td=""><td>UV</td><td>G-007355</td><td>8/21/2003</td><td>92</td><td>1131</td><td>7.06</td><td>627</td><td>452</td><td>185</td><td>39.0</td><td>41.8</td><td>12.6</td><td>134.0</td><td>26.0</td><td>0,4</td><td>14</td><td><0.05</td><td>0.43</td><td>720</td><td>4.9</td><td>4.62</td><td>1.60</td><td>1.82</td><td>1.01</td></td<> | UV | G-007355 | 8/21/2003 | 92 | 1131 | 7.06 | 627 | 452 | 185 | 39.0 | 41.8 | 12.6 | 134.0 | 26.0 | 0,4 | 14 | <0.05 | 0.43 | 720 | 4.9 | 4.62 | 1.60 | 1.82 | 1.01 |
| DF C 00/255 7/12/2001 92 1.00 7.1 2.94 4.43 1.14 1.20 1.10 0.10 | OV | G-007355 | 10/8/2003 | 92 | 855 | 2 | 455 | 382 | 133 | 29.3 | 25.0 | 9.1 | 85.0 | 12.0 | 0.3 | 16 | <0.05 | 0.68 | 502 | 0.5 | 3.32 | 1.21 | 1.09 | 0.72 |
| n 6 6 7 | OV | G-007355 | 7/28/2004 | 92 | 1380 | 7,1 | 584 | 443 | 1/4 | 39.2 | 46,9 | 12.0 | 172.0 | 30.7 | 0.2 | 36.8 | <0.05 | 0.812 | 812 | 5.1 | 6.34 | 1.61 | 1.95 | 113 |
| DV G-007355 T/25/1011 192 108 7/25 105 100 < | DV. | 6.007355 | 7/11/2006 | 94 | 907 | 7.0/ | 438 | 913 | 112.00 | 34.7 | 31.0 | 9.7 | 99.0 | 10.0 | 0.2 | 17.65 | 40.05 | 0.61 | 588 | 3.4 | 3.07 | 1.10 | 1.34 | 0.8/ |
| NV G-02057A Y25/1996 NA H01 Y2 30 H11 210 120 1 | INV | G-007355 | 7/25/2011 | 92 | 1018 | 7.19 | 436 | 422 | 125.97 | 29.4 | 34.3 | 11.0 | 109.0 | 14.0 | 0.1 | 15.14 | <0.05 | 0.33 | 650 | 2.2 | 3.14 | 1.21 | 1.49 | 1.01 |
| DV G-02875A MA MO1 7.3 392 3.00 1.00 2.00 8.0 0.4 4.5 -0.05 +0.01 5.30 8.3 2.49 0.91 0.36 0 W G-02875A 7/1/199 NA 654 7/2 0.79 NA NA 643 5.21 0.00 4.00 4.21 1.21 0.02 4.90 6.72 2.49 1.11 0.26 0.90 0.01 5.42 1.00 0.2 0.05 4.01 5.42 1.00 0.2 0.05 4.01 5.42 1.00 0.01 5.42 1.00 0.01 0.01 5.42 1.00 0.01 0.01 5.42 1.00 0.01 0.01 5.42 1.00 0.01 0.01 5.41 1.00 0.01 0.01 5.41 1.00 0.01 0.01 5.41 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 | DV. | G-028576A | 7/25/1995 | NA | 801 | 7.2 | 370 | 304 | 110 | 23.0 | 15.0 | 6.0 | 68.0 | 8.7 | 0.3 | 42 | 0.007 | <0.01 | 485 | 2.1 | 2.74 | 0.95 | 0.57 | 0.43 |
| DV 6-02875A 972/1997 NA 699 7.2 360 390 270 6.0 6.6 5.0 | DV | G-028676A | 8/6/1996 | NA | 710 | 7.3 | 392 | 310 | 120 | 22.0 | B.2 | 5.2 | 100.0 | 9.0 | 0.4 | 45 | <0.05 | <0.01 | 520 | 8.3 | 2.99 | 0.91 | 0.36 | 0.26 |
| UN G-02876A Y1/1999 NA FA YA YA <td>OV</td> <td>G-028676A</td> <td>7/29/1997</td> <td>NA</td> <td>699</td> <td>7.2</td> <td>360</td> <td>330</td> <td>210</td> <td>27.0</td> <td>6.0</td> <td>6.6</td> <td>54.0</td> <td>5.0</td> <td>0.4</td> <td>Z.3</td> <td>1.2</td> <td>0.02</td> <td>490</td> <td>37</td> <td>5.24</td> <td>1.11</td> <td>0.26</td> <td>0.13</td> | OV | G-028676A | 7/29/1997 | NA | 699 | 7.2 | 360 | 330 | 210 | 27.0 | 6.0 | 6.6 | 54.0 | 5.0 | 0.4 | Z.3 | 1.2 | 0.02 | 490 | 37 | 5.24 | 1.11 | 0.26 | 0.13 |
| 0V 6-028676A 7/14/199 NA 778 7.55 4.24 309 126 25.8 15.5 6.2 54.0 11.0 0.2 20 -0.05 <0.01 | DV | G-028676A | 9/22/1998 | NA | 654 | 7.4 | 400 | 303 | 120 | 25.0 | 10.0 | 5.9 | 57.0 | 9.7 | 0.79 | 54A | NA | NA. | 490 | 6.7 | 2.99 | 1.03 | 0.44 | 0.31 |
| DV G-028676A 4/27/2000 NA 772 7.78 4.83 314 129 26.5 13.7 5.8 57.0 12.0 0.3 21 -0.05 -0.01 572 12.9 3.22 1.06 0.58 0.0 DV G-028676A 10/1/2000 NA 74 7.31 429 334 128 25.5 14.0 6.3 61.0 0.05 -0.05 -0.01 513 8.4 329 1.06 0.48 0.0 0.01 572 -0.05 -0.01 513 8.4 1.0 0.40 0.0 0.01 513 8.4 1.0 0.01 513 1.0 0.4 0.05 -0.01 542 0.01 513 1.0 0.4 0.05 -0.01 542 6.0 1.0 0.0 513 7.0 61.0 1.0 0.3 21 -0.05 -0.01 533 7.0 67.0 11.0 0.3 21 -0.05 -0.01 543< | OV | G-028675A | 7/14/1999 | NA | 778 | 7.55 | 424 | 309 | 126 | 25.8 | 13.5 | 6.2 | 54.0 | 11.0 | 0.2 | 20 | <0.05 | <0.01 | 562 | B.7 | 3.14 | 1.06 | 0.59 | 0.40 |
| UV G-028678A (7)12/000 NA 753 7.37 410 136 136 136 136 130 100 0.05 0.010 0.011 577 6.50 3.39 1.00 0.88 0.00 UV G-028678A 10/2/000 NA 744 7.31 425 334 128 26.1 14.0 6.3 61.0 0.05 0.05 0.00 0.011 513 6.4 32.2 1.00 0.63 21 0.055 0.011 453 6.2 3.4 0.90 0.5 20 0.05 0.01 453 6.4 9.0 0.5 20 0.05 0.01 453 6.4 9.0 0.5 20 0.05 0.01 453 6.4 9.0 0.5 20 0.05 0.01 453 8.2 3.14 1.02 0.67 0.0 0V 6-028674A 711/2001 NA 724 7.3 440 1.55 5.5 65.0 11.0 0.3 21 0.05 0.01 573 7.5 3.14 1.02 | EV. | G-028676A | 4/27/2000 | NA | 772 | 7.78 | 433 | 314 | 129 | 26.5 | 13.7 | 5.8 | 57.0 | 12.0 | 0.3 | 21 | <0.05 | <0.01 | 542 | 10.9 | 3.22 | 1.09 | 0.60 | 0.43 |
| OV G-0280748 103/2000 NA 74 7.1 4.25 3.34 1.20 1.00 5.3 5.0 5.0 5.0 5.0 5.00 5. | DV DV | G-028576A | 10/3/2000 | 214 | 753 | 7.3/ | 447 | 323 | 130 | 15.6 | 25.3 | 5.5 | 64.0 | 20.0 | 0.4 | 23 | <0.05 | <0.01 | 377 | 6.5 | 3.39 | 1.03 | 0.58 | 0.31 |
| 0 | m | 0.0286764 | 1/72/2000 | MA | 745 | 7.34 | 435 | 324 | 120 | 16.8 | 14.6 | 5.0 | 62.0 | 10.0 | 0.5 | 20 | +0.05 | <0.03 | 903 | 8.5 | 8 23 | 1.10 | 0.64 | 0.42 |
| DV G-028676A 7/11/2001 NA 788 7.21 418 325 126 249 155 5.5 650 110 0.4 21 <0.05 <0.01 528 8.2 3.14 1.02 0.67 0 0V G-028676A 10/04000 NA 713 7.19 446 303 118 9.4 16.0 6.8 73.0 110 0.3 21 40.05 <0.01 | DV. | G-028575A | 4/9/2001 | NA | 773 | 8.64 | 397 | 329 | 118 | 24.1 | 13.6 | 6.9 | 61.0 | 11.0 | 0.3 | 21 | <0.05 | <0.01 | 495 | 83 | 2.94 | 0.99 | 0.59 | 0.42 |
| OV G-028676A 10/03/2001 NA 75 7.14 460 300 155 9.0 16.0 6.8 73.0 11.0 0.3 21 40.05 40.01 443 6.7 1.37 1.22 0.70 0 0V 6-028676A 1/10/2002 NA 771 7.79 436 303 128 27.6 15.3 7.0 67.0 11.0 0.3 21 40.05 40.01 57.8 7.5 3.13 1.42 0.67 0 0V 6-028676A 1/10/2002 NA 845 7.78 47.9 299 144 27.7 15.4 7.0 67.0 11.0 0.4 44.9 40.6 4.0 4. | OV | G-028676A | 7/11/2001 | NA | 768 | 7.21 | 418 | 325 | 126 | 24.9 | 15.5 | 5.5 | 65.0 | 11.0 | 0.4 | 21 | <0.05 | <0.01 | 528 | 8.2 | 3.14 | 1.02 | 0.67 | 0.47 |
| DV G-0286784 J/L0/2002 NA 771 7.29 436 303 128 27.6 15.3 7.0 67.0 110 0.3 21 40.05 40.01 578 7.6 3.19 1.14 0.67 0 DV 6-028678A 4/15/2002 NA 821 7.1 398 122 124 6.0 69.0 11.0 0.2 23 40.05 40.01 540 8.7 359 1.4 0.67 0 0V 6-028676A 1/4/2002 NA 821 7.1 398 122 124 14.4 6.0 69.0 11.0 0.4 44.9 40.05 40.01 540 4.2 3.44 0.09 0.48 0.00 6.0 4.0 11.2 0.3 439 40.05 40.01 3.44 1.00 0.44 0.0 4.0 0.0 540 545 6.8 3.24 1.07 0.57 0.0 50.0 545 6.8 | 0V | G-028676A | 10/30/2001 | NA | 745 | 7.34 | 460 | 309 | 135 | 29.6 | 16.0 | 6.8 | 73.0 | 11.0 | 0.3 | 21 | <0.05 | <0.01 | 443 | 6.7 | 3.37 | 1.22 | 0.70 | 0.46 |
| DV G-028674A 4/15/2002 NA 845 7.78 475 299 144 27.7 15.4 7.0 67.0 11.0 0.2 23 40.05 40.01 540 8.7 3.59 1.14 0.67 0 00 0-028675A 71/2/002 NA 821 7.1 398 302 122 126 144 6.0 600 10.0 0.4 44.9 40.05 40.01 540 4.2 3.64 0.8 0.0 0V 6-028675A 11/4/2002 NA 801 7.2 425 316 110 24.3 14.8 6.0 69.4 10.8 0.3 43.9 40.05 40.01 56 3.27 1.02 0.66 0.0 0V 6-0286764 7/24/1995 NA 85 7.1 400 318 120 120 13.0 6.5 81.0 13.0 0.2 37 0.025 0.04 518 7.1 2.99 </td <td>OV</td> <td>G-028576A</td> <td>1/10/2002</td> <td>NA</td> <td>771</td> <td>7,29</td> <td>436</td> <td>303</td> <td>128</td> <td>27.6</td> <td>15.3</td> <td>7.0</td> <td>67.0</td> <td>11.0</td> <td>0.3</td> <td>21</td> <td><0.05</td> <td><0.01</td> <td>578</td> <td>7.6</td> <td>3.19</td> <td>1.14</td> <td>0.67</td> <td>0.45</td> | OV | G-028576A | 1/10/2002 | NA | 771 | 7,29 | 436 | 303 | 128 | 27.6 | 15.3 | 7.0 | 67.0 | 11.0 | 0.3 | 21 | <0.05 | <0.01 | 578 | 7.6 | 3.19 | 1.14 | 0.67 | 0.45 |
| DV 6-0286764 7/23/1002 MA B21 7.1 398 320 112 2.2 6 4.4 6.0 600 110 0.4 44.9 40.65 4.01 540 4.2 3.04 0.03 0.88 DL 0V 6-0286764 1/4/2002 MA 796 7 430 323 131 248 152 6.0 72.1 112 0.3 43.9 40.05 <0.01 | DV. | G-028676A | 4/15/2002 | NA | 845 | 7.78 | 475 | 299 | 144 | 27.7 | 15.4 | 7.0 | 67.0 | 11.0 | 0.2 | 23 | <0.05 | <0.01 | 540 | 8.7 | 3.59 | 1.14 | 0.67 | 0.44 |
| DV 6-0286764 11/4/2002 NA 796 7 430 323 131 24.8 152 6.0 72.1 112 0.3 43.9 -0.05 <0.01 | DV | G-028576A | 7/23/2002 | NA | 821 | 7.1 | 398 | 320 | 122 | 22.6 | 14.4 | 6.0 | 69.0 | 11.0 | 0.4 | 44.9 | <0.05 | -0.01 | \$40 | 4.2 | 3.04 | 0.93 | 0.63 | 0.44 |
| OV Grademan Lit Constraint Lit Constraint Con | JV. | G-028575A | 11/4/2002 | NA | 796 | 7 | 430 | 328 | 131 | 24.8 | 15.2 | 6.0 | 72.1 | 11.2 | 0.3 | 43.9 | <0.05 | <0.01 | 544 | 5.6 | 3.27 | 1.02 | 0.66 | 0.45 |
| DV G-0286768 7/24/1995 NA 71 7.4 200 313 25.0 12.0 0.00 313 0.01 313 | DV DV | G-0286769 | R(16/1000 | 10 | 100 | 7.2 | 425 | 310 | 130 | 29,3 | 19.0 | 0.0 | 69.4 | 12.0 | 0.3 | 43 | -0.05 | <0.01 | 370 | 6.9 | 2.24 | 1.00 | 0.63 | 0.44 |
| DV G-0286768 0/4/1997 NA 710 7.3 303 340 110 240 7.9 5.2 127 120 0.3 57 c0.05 500 150 150 150 150 160 0.01 500 160 0.01 500 160 5.5 100 0.01 500 150 150 160 0.01 500 160 5.6 110 24.0 7.9 5.2 127.0 12.0 0.3 57 c0.05 c0.01 560 5.6 5.3 7.0 13.0 0.4 19 1.6 0.04 590 16 5.24 1.69 0.37 0.0 0V 6-0286768 7/24/1997 NA 77.7 7.4 20.0 360 21.0 41.0 8.5 7.3 74.0 13.0 0.4 19 1.6 0.04 550 1.6 5.6 1.10 0.4 1.0 5.0 1.0 0.4 1.0 0.0 | DV. | G-0286768 | 7/24/1995 | NA | 985 | 7.1 | 400 | 319 | 130 | 25.0 | 12.0 | 4.0 | 81.0 | 12.0 | 0.4 | 30 | 0.033 | 0.026 | 519 | 7.1 | 2.99 | 1.02 | 0.57 | 0.40 |
| DV G-0286768 7/29/1997 NA 771 7.1 420 360 210 41.0 8.5 7.3 74.0 13.0 0.4 19 1.6 0.04 590 16 5.24 1.69 0.37 0 DV G-0286768 9/22/1988 NA 74 7.4 320 340 84 26.0 9.5 7.2 85.0 NA 0.75 NA NA 560 5.6 2.10 1.07 0.41 0.0 0.0 G-0286768 9/22/1988 NA 747 7.4 320 340 84 26.0 9.5 7.2 85.0 NA 0.75 NA NA NA 560 5.6 2.10 1.07 0.41 0.0 0.0 G-0286768 4/27/2000 NA 860 7.8 366 148 29.4 14.1 5.9 82.0 13.0 0.4 18 0.06 0.01 608 7.9 3.69 1. | OV | G-0286768 | 8/6/1996 | NA | 780 | 7.5 | 383 | 340 | 130 | 24.0 | 7.9 | 5.2 | 127.0 | 12.0 | 0.1 | 37 | <0.05 | <0.01 | 560 | 5.6 | 1.24 | 0.99 | 0.34 | 0.24 |
| DV G-0286768 9/22/1998 NA 747 7.4 320 340 84 26.0 9.5 7.2 85.0 NA D.75 NA NA NA 550 5.6 2.10 1.07 0.41 0. DV 6-0286768 7/14/1999 NA 860 7.64 483 344 145 28.8 18.9 6.7 75.0 12.0 0.3 16 -0.05 0.02 565 7.5 3.67 1.18 0.60 0.0 6.0286768 4.4727/2000 NA 860 7.8 494 145 29.4 14.1 5.9 82.0 13.0 0.4 18 -0.05 0.01 668 7.9 3.69 1.21 0.61 0.05 0.01 668 7.9 3.69 1.21 0.61 0.0 0.05 0.04 633 6.4 3.94 1.21 0.61 0.0 0.05 0.04 633 6.4 3.44 1.13 0.58 0.0 </td <td>DV</td> <td>G-0286768</td> <td>7/29/1997</td> <td>NA</td> <td>771</td> <td>7.1</td> <td>420</td> <td>360</td> <td>210</td> <td>41.0</td> <td>8.5</td> <td>7.3</td> <td>74.0</td> <td>13.0</td> <td>0.4</td> <td>19</td> <td>1.6</td> <td>0.04</td> <td>590</td> <td>16</td> <td>5.24</td> <td>1.69</td> <td>0.37</td> <td>0.20</td> | DV | G-0286768 | 7/29/1997 | NA | 771 | 7.1 | 420 | 360 | 210 | 41.0 | 8.5 | 7.3 | 74.0 | 13.0 | 0.4 | 19 | 1.6 | 0.04 | 590 | 16 | 5.24 | 1.69 | 0.37 | 0.20 |
| DV 6-0286788 7/14/1999 NA 860 7.64 483 344 145 28.8 13.9 6.7 75.0 12.0 0.3 16 <0.05 0.02 595 7.5 3.62 1.18 0.60 0.0 DV G-0286768 4/27/2000 NA 860 7.8 496 148 29.4 14.1 5.9 82.0 13.0 0.4 18 0.01 608 7.9 3.69 1.21 0.61 0.0 0.0 G-0286768 1/0/3/2000 NA 862 7.6 518 356 158 29.5 13.8 6.8 84.0 12.0 0.4 18 0.4 6.4 3.96 0.1 608 7.9 3.69 1.21 0.64 0.0 0.0 G-0286768 10/3/2000 NA 787 7.38 459 353 138 6.6 73.0 9.0 0.5 17 0.05 0.03 528 5.5 | OV | G-0286768 | 9/22/1998 | NA | 747 | 7.4 | 320 | 340 | 84 | 26.0 | 9.5 | 7.2 | 85.0 | NA. | 0.75 | NA | NA | NA | 550 | 5.6 | 2.10 | 1.07 | 0.41 | 0.33 |
| DV G-0286768 4/77/2000 NA 860 7.8 494 366 141 5.9 82.0 13.0 0.4 18 -0.05 0.01 608 7.9 3.66 1.21 0.61 0.01 0.0 -0.2186768 17/1/2000 NA 82.0 13.0 0.4 18 -0.05 0.01 608 7.9 3.66 1.21 0.61 0.01 0.01 608 7.9 3.66 1.21 0.61 0.01 6.02 0.01 6.02 6.04 6.01 6.02 6.02 0.01 6.02 6.02 0.01 6.02 0.01 6.02 0.01 6.02 0.01 6.02 0.01 6.02 0.02 0.05 0.01 6.02 0.02 0.05 0.03 5.12 0.04 0.01 6.02 0.02 0.05 0.03 5.12 5.13 0.13 0.14 0.05 0.03 5.12 5.13 0.13 0.14 0.13 0.14 0.13 | DV . | G-0286768 | 7/14/1999 | NA | 860 | 7.64 | 483 | 344 | 145 | 28.8 | 13.9 | 6.7 | 75.0 | 12.0 | 0.3 | 16 | <0.05 | 0.02 | 595 | 7.5 | 3.62 | 1.18 | 0.60 | 0.31 |
| DV G-0296768 7/13/2000 NA \$28 7.6 518 356 158 29.5 13.8 6.8 \$4.0 12.0 0.5 21 <0.05 0.04 633 6.4 3.94 1.21 0.60 0. DV G-0296768 10/3/2000 NA 787 7.28 459 353 138 27.4 15.3 6.6 73.0 9.0 0.5 17 <0.05 | OV | G-0285758 | 4/27/2000 | NA | 860 | 7.8 | 494 | 366 | 148 | 29.4 | 14.1 | 5.9 | 82.0 | 13.0 | 0.4 | 18 | <0.05 | 0.01 | 608 | 7.9 | 3.69 | 1.21 | 0.61 | 0.39 |
| UV G-GZB5788 20/3/2000 NA 787 7.28 459 353 138 27.4 13.3 6.6 73.0 9.0 0.5 17 «0.05 0.03 528 5.5 3.44 1.13 0.38 0. | OV | G-0286768 | 7/13/2000 | NA | 828 | 7.6 | 518 | 356 | 158 | 29.5 | 13.8 | 6.8 | 84.0 | 12.0 | 0.5 | 21 | <0.05 | 0.04 | 633 | 6.4 | 3.94 | 1.21 | 0.60 | 0.37 |
| | UV VU | G-0286768 | 10/3/2000 | NA | 787 | 7.28 | 459 | 353 | 138 | 17.4 | 15.3 | 6.6 | 73.0 | 9.0 | 0.5 | 17 | <0.05 | 0.03 | 578 | 5.5 | 3.44 | 1,13 | 0.58 | 0.3 |

| | | | | | | | | | | | | | | | | | | | | | Magnesium, | | |
|----------|-----------|---------------|------------|-----------|----------|------------|-----------|-----------|----------|--------|-----------|---------|----------|---------|--------|--------|------------|--------|-------------|-------------|-------------|------------|------------|
| | | Dec | th in 1 | Constille | | 4.8. | linite ar | | | | | | | | | | | Total | | Calcium, in | millendenie | Sodium, in | Advoration |
| Source | Site | Date fo | ant cor | ductance | oH in 1 | Hardness C | a003 | Calcium M | energium | Sodium | Potassium | Sulfate | Chloride | Euoride | Silica | Iron | Managemene | solids | Nirate as N | nis | nts | nts | Ratio |
| | | | | | | | | | | | | | | | | 10.000 | | 20100 | | | | | |
| OV | G-0286768 | 1/22/2001 | NA | 769 | 7.33 | 472 | 349 | 141 | 28.4 | 14.1 | 6.6 | 77.0 | 11.0 | 0,4 | 18 | <0.05 | <0.01 | 535 | 5.6 | 3.52 | 1.17 | 0.61 | 0.40 |
| CIV COL | G-0285768 | 4/9/2001 | NLA NLA | 814 | 8.58 | 454 | 360 | 130 | 25.8 | 13.2 | 7.6 | 77.0 | 11.0 | 0.5 | 18 | <0.05 | <0.01 | 552 | 5.0 | 3.24 | 1.06 | 0.57 | 0.39 |
| UV IN | 0-0286768 | 10/20/10/2001 | NA NA | 838 | 1.22 | 454 | 231 | 137 | 20.5 | 14.8 | 6.9 | 81.0 | 11.0 | 0.1 | 17 | 40.05 | 0.04 | 368 | | 3.42 | 1,09 | 0.64 | 0.43 |
| 00 | 6.0286768 | 3/10/2002 | NA. | 958 | 7.3/ | 461 | 270 | 126 | 39.0 | 13/4 | 0.9 | 27.0 | 10.0 | 0.0 | 19 | -0.00 | 0.02 | 602 | 8.5 | 3.32 | 3.20 | 0.65 | 0.42 |
| 04 | G-0386768 | 4/15/2002 | NA | 992 | 7.73 | 504 | 215 | 154 | 28.9 | 14.9 | 77 | 78.0 | 10.0 | 0.3 | 20 | <0.05 | 0.03 | 517 | 5 | 3.84 | 1.19 | 0.65 | 0.42 |
| DV. | G-0285768 | 7/23/2002 | NA | 804 | 7.2 | 400 | 374 | 121 | 22.5 | 13.5 | 5.0 | 73.0 | 9.3 | 0.3 | 33.8 | +0.05 | 0.036 | 516 | 0.7 | 3.07 | 0.93 | 0.50 | 0.42 |
| DV. | G-0285758 | 11/4/2002 | NA | 800 | 2 | 437 | 332 | 134 | 24.7 | 13.8 | 7.0 | 74.3 | 9.5 | 0.3 | 37.2 | +0.05 | <0.01 | 488 | 3.6 | 3.34 | 1.02 | 0.60 | 0.41 |
| DV. | G-0286768 | 1/9/2003 | NA | 804 | 7.2 | 455 | 342 | 140 | 25.4 | 13.4 | 7.0 | 73.8 | 9.1 | 0.3 | 37.6 | <0.05 | <0.01 | 480 | 4.2 | 3.49 | 1.04 | 0.58 | 0.39 |
| DV. | G-0285768 | 5/6/2003 | NA | 896 | 7.3 | 422 | 335 | 129 | 24.2 | 13.2 | 6.0 | 76.3 | 9.8 | 0.4 | 37 | <0.05 | 0.023 | 516 | 3.9 | 3.22 | 1.00 | 0.57 | 0.40 |
| DV | G-0286768 | 7/24/2003 | NA | 810 | 7.31 | 452 | 344 | 136 | 26.7 | 13.8 | 7.5 | 69.0 | 9.0 | 0.3 | 16 | 40.05 | 0.04 | 506 | 4.3 | 3.39 | 1.10 | 0.60 | 0.40 |
| DV | G-0286768 | 10/8/2003 | NA | 799 | 7.1 | 441 | 338 | 133 | 26.0 | 13.7 | 7.4 | 70.0 | 9.0 | 0.3 | 15 | <0.05 | 0.03 | 548 | 4.6 | 3.32 | 1.07 | 0.60 | 0.40 |
| DV. | G-0286768 | 7/28/2004 | NA | 880 | 7.1 | 421 | 329 | 126 | 25.5 | 14.1 | 7.0 | 65.1 | 8.6 | 0.3 | 39.5 | +0.05 | 0.057 | 500 | 3.7 | 3.14 | 1.05 | 0.61 | 0.42 |
| OV. | G-0286768 | 4/12/2005 | NA | 814 | 7.2 | 440 | 232 | 134 | 25.6 | 13,8 | 7.0 | 74.3 | 9.0 | 0.3 | 40.2 | <0.05 | 0.017 | 476 | 4.1 | 3.34 | 1.05 | 0.60 | 0.40 |
| DV | G-0286768 | 11/1/2005 | NA | 792 | 7.15 | 439 | 344 | 138 | 26.0 | 14.5 | 6.7 | 59.0 | 7.0 | 0.6 | 19 | <0.05 | 0.03 | 448 | 3.8 | 3.32 | 1.07 | 0.61 | 0.41 |
| DV. | G-0286768 | 4/25/2006 | NA | 800 | 7.3 | 460 | 352 | 139 | . 27.3 | 14.4 | 7.2 | 78.0 | 10.0 | 0.3 | 16 | <0.05 | 0.01 | 530 | 3.7 | 3.47 | 1.12 | 0.63 | 0.41 |
| 014 | G-0286768 | 10/16/2006 | NA | 753 | 7.77 | 445 | 335 | 235 | 26.2 | 13.8 | 6.5 | 71.0 | 9.0 | 0.3 | 17 | <0.05 | 0.03 | 482 | 3.6 | 3.37 | 1.08 | 0.60 | 0.40 |
| DV | G-0285768 | 4/27/2007 | NA | 793 | 7.72 | 296 | 349 | 138.46 | 27.6 | 17,4 | 7.4 | 74.0 | 9.0 | 0.3 | 18.76 | 0.01 | <0.01 | 510 | 3.9 | 3.45 | 1.13 | 0.76 | 0.50 |
| DV | G-0286768 | 9/4/2007 | NA | 824 | 7.88 | 389 | 342 | 117.4 | 23.6 | 12.1 | 6.5 | 75.0 | 9.0 | 0.3 | 15.49 | <0.05 | 0.02 | 474 | 3.5 | 2.93 | 0.97 | 0.52 | 0.38 |
| OV | G-0286768 | 5/14/2008 | NA | 742 | 7.57 | 396 | 543 | 119.91 | 23.5 | 13.2 | 5.9 | 78.0 | 10.0 | 0.4 | 15,37 | <0.05 | 0.02 | 518 | 3.2 | 2.99 | 0.97 | 0.58 | 0.41 |
| DV | G-0286768 | 12/10/2008 | NA. | 798 | 7.41 | 380 | 339 | 113.81 | 23.1 | 13.6 | 5.6 | 76.0 | 10.0 | 0.5 | 14.18 | <0.05 | <0.01 | 524 | 3.1 | 2.84 | 0.95 | 0.59 | 0.43 |
| DV | G-0286768 | 5/12/2009 | NA | 762 | 7.2 | 393 | 349 | 121.2 | 22.1 | 13.6 | 5.1 | 78.0 | 9.0 | 0.3 | 15.08 | <0.05 | 0.01 | 526 | 2.3 | 3.02 | 0.91 | 0.59 | 0.42 |
| CTV . | G-0286768 | 11/5/2009 | NA | 813 | 7.32 | 397 | 335 | 119.93 | 23.6 | 13.5 | 5.5 | 72.0 | 8.0 | 0.3 | 16.34 | <0.05 | 0.01 | 494 | 2.5 | 2.99 | 0.97 | 0.59 | 0.42 |
| UV | G-0286768 | 5/26/2020 | NA | 799 | 7.17 | 408 | 549 | 124.82 | 25.4 | 13.3 | 5.9 | 75.0 | 9.0 | 0.3 | 15.2 | 40.05 | <0.01 | 496 | 2.3 | 3.11 | 0.96 | 0.58 | 0.41 |
| 02 | G-0286768 | 11/9/2010 | NA | 754 | 7.26 | 403 | 347 | 123.34 | 23.0 | 13,3 | 6.3 | 72,0 | 8.0 | 0.3 | 16.16 | <0.05 | < 0.01 | 422 | 2.5 | 3.08 | 0.94 | 0.57 | 0.40 |
| COV. | G-0286768 | 6/8/2011 | NA NA | 790 | 7.15 | 390 | 346 | 119.85 | 23.6 | 13.0 | 5.5 | 74.0 | 9.0 | 0.5 | 16.37 | <0.05 | <0.01 | 500 | 2.6 | 2.99 | 0.96 | 0.57 | 0.40 |
| OV | G-0296768 | 11/1/2011 | nLA. | 702 | 121 | 352 | 309 | 107.24 | 20.5 | 14.7 | 6.4 | 59.0 | 9.0 | 1.2 | 21.6 | 40.05 | <0.01 | 464 | <0.2 | 2.68 | 0.84 | 0.64 | 0.48 |
| 01 | G-0286768 | 5/23/2012 | NLO NLO | 832 | 7.16 | 408.1 | 351 | 123.8 | 24.0 | 13.0 | 6.5 | 76.5 | 9.9 | 0.3 | 16.36 | 40.05 | 0.03 | 516 | 27 | 3.09 | 0.99 | 0.57 | 0.40 |
| De | 6-0285/68 | 12/3/2012 | 104 | 779 | 7.21 | 404.2 | 345 | 123.3 | 23.5 | 13.0 | 5.7 | 72.0 | 8.0 | 0.5 | 17.59 | 10,00 | 0.01 | 450 | 2.37 | 3.08 | 0.97 | 0.57 | 0.40 |
| DV mi | G-0286768 | 5/23/2013 | PER . | 828 | 1.32 | 927.9 | 532 | 131 | 29.9 | 13.5 | 6.9 | 74.0 | 8.3 | 0.3 | 16.61 | 40,09 | 0.03 | 488 | 2.79 | 3.27 | 2,00 | 0.61 | 0.41 |
| 0.0 | 0-0200700 | 10/1/2018 | 120 | 137 | 1.44 | 4,0.0 | 346 | 100.4 | 45.6 | 10.4 | .0.7 | 08.5 | 1.3 | 0.8 | 10.07 | 4940 | 0.01 | 494 | 2.28 | 3.07 | 0.98 | 0.58 | 0.44 |
| 100 | 6-013528 | 7/18/1995 | 120 | 252 | 7.1 | 410 | 200 | 120 | 27.0 | 13.0 | 5.7 | 120.0 | 0.5 | 0.5 | - 36 | 0.3 | 0.72 | 241 | 0.28 | 1.99 | 1.11 | 1.00 | 0.70 |
| 100 | 0.033328 | # (BC25000) | 120 | 100 | | 000 | 800 | 2.90 | 24.0 | 12.0 | 10.4 | 120.0 | 0.0 | 0.4 | 14 | -0.7 | 0.65 | 423 | 1.2 | 5.55 | 3,40 | 1.42 | 0.27 |
| 01 | 6.032524 | 2(22/2000 | 120 | 000 | 7.76 | 460 | 270 | 120 | 22.4 | 26.0 | 2.9 | 312.0 | 8.0 | 0.0 | 10 | 0.1 | 0.61 | 569 | 4.7 | 2.44 | 1.23 | 1.30 | 0.95 |
| DV DV | G-033528 | 7/2//2000 | 120 | 001 | 7 33 | 400 | 333 | 130 | 32.9 | 10.4 | 11.0 | 171.0 | 10.0 | | 10 | 0.05 | 0.6 | 637 | 7.0 | 3.00 | 1.33 | 1.50 | 1.12 |
| 100 | 6.033528 | 6/28/2002 | 120 | 948 | 2.2 | 440 | 984 | 195 | 27.0 | 81.1 | 9.0 | 21.0 | 0.1 | 0.8 | 81.5 | 0.211 | 0.662 | 600 | 0.8 | 8.24 | 1 15 | 1.95 | 0.91 |
| DV. | G-033528 | 7/15/2003 | 120 | 906 | 734 | 183 | 376 | 50 | 13.6 | 264.0 | 83 | 114.0 | 10.0 | 0.5 | 12 | 0.05 | 0.14 | 488 | 1.4 | 1.25 | 0.56 | 11.48 | 12.08 |
| DV. | G-013528 | 8/11/2004 | 120 | 979 | 7.1 | 458 | 367 | 130 | 17.4 | 16.2 | 11.0 | 141.0 | 11.5 | 0.3 | 15.8 | 0.165 | 0.627 | 537 | 2.5 | 3.24 | 1.13 | 1.57 | 1.04 |
| OV | G-033528 | 7/13/2005 | 120 | 916 | 7.42 | 468 | 332 | 135 | 31.7 | 33.0 | 11.3 | 111.0 | 10.0 | 0.5 | 17 | +0.05 | 0.65 | 544 | 1.8 | 3.37 | 1.50 | 1.44 | 0.94 |
| DV. | G-033528 | 7/5/2006 | 120 | 866 | 7.66 | 472 | 364 | 137 | 31.5 | 29.5 | 10.6 | 88.0 | 8.0 | 0.1 | 17 | <0.05 | 0.67 | 662 | 1.2 | 3.42 | 1.30 | 1.28 | 0.84 |
| DV | G-033528 | 7/17/2007 | 120 | 716 | 7.83 | 423 | 355 | 121 | 29.4 | 28.0 | 10.0 | 101.0 | 8.0 | 0.4 | 16 | <0.05 | 0.62 | 520 | 1.3 | 3.02 | 1.21 | 1.22 | 0.84 |
| DV VO | G-033528 | 7/30/2008 | 120 | 828 | 7.45 | 404 | 361 | 119.18 | 25.8 | 24.5 | 9.2 | 95.0 | 8.0 | 0.6 | 15.2 | <0.05 | 0.61 | 516 | 0.5 | 2.97 | 1.06 | 1.07 | 0.75 |
| OV | G-033528 | 7/22/2009 | 120 | 868 | 7.44 | 400 | 359 | 114.95 | 27.4 | 31.0 | 9.7 | 101.0 | 8.0 | 0.3 | 14.87 | <0.05 | 0.58 | 578 | 2.6 | 2.87 | 1.13 | 1.35 | 0.96 |
| DV. | G-033528 | 7/25/2011 | 120 | 877 | 7.33 | 303 | 364 | 112.21 | 27.6 | 28.9 | 10.5 | 96.0 | 9.0 | 0.3 | 15.08 | <0.05 | 0.42 | 566 | 1.4 | 2.80 | 1.13 | 1.26 | 0.90 |
| DV | G-035717 | 8/14/1995 | 91 | 754 | 7.5 | 360 | 303 | 110 | 21.0 | 14.0 | 8.8 | 60.0 | 7.6 | 0.3 | 35 | 0.005 | 0.57 | 446 | 1.6 | 2.74 | 0.86 | 0.61 | 0.45 |
| DV. | G-035717 | 7/17/1997 | 91 | 650 | 6.9 | 340 | 340 | 260 | 24.0 | 7.0 | 8.7 | 71.0 | 8.7 | 0.4 | 7 | 0.8 | 0.6 | 510 | <0.2 | 6.49 | 0.99 | 0.30 | 0.16 |
| DV | G-035717 | 8/3/2000 | 91 | 707 | 7.36 | 401 | 32B | 121 | 23.5 | 14.7 | 8.0 | 57.0 | 9.0 | 0.2 | 19 | <0.05 | 0.6 | 447 | 1 | 3.02 | 0.97 | 0.64 | 0.45 |
| DV | G-035717 | 7/31/2001 | 91 | 743 | 7.24 | 436 | 287 | 131 | 25.8 | 16.3 | 9.3 | 59.0 | 11.0 | 0.4 | 19 | <0.05 | 0.67 | 477 | 1.2 | 3.27 | 1.06 | 0.71 | 0.48 |
| DV. | 6-035717 | 7/8/2002 | 91 | 747 | 7.3 | 342 | 339 | 304 | 19.8 | 14.5 | 8.0 | 59.8 | 9.1 | 0.3 | 41.5 | <0.05 | 0.642 | 440 | 0.5 | 2.59 | 0.81 | 0.63 | 0.48 |
| DV | G-035717 | 7/8/2003 | 91 | 736 | 7.53 | 413 | 320 | 126 | 23,3 | 15.1 | 9.0 | 63.0 | 10.0 | 0.2 | 17 | <0.05 | 0.61 | 484 | 0.3 | 3.14 | 0.96 | 0.66 | 0.46 |
| OV | G-035717 | 7/19/2004 | 91 | 795 | 6.9 | 379 | 331 | 115 | 22.8 | 14.2 | 10.0 | 60.1 | 10.4 | 0.3 | 38.6 | 0.036 | 0.679 | 436 | <0.2 | 2.87 | 0.94 | 0.62 | 0.45 |
| DV | G-035717 | 7/13/2005 | 91 | 744 | 7.51 | 413 | 286 | 127 | 23.3 | 14.5 | 9.2 | 61.0 | 11.0 | 0.4 | 18 | <0.05 | 0.4 | 428 | 0.7 | 3.17 | 0.96 | 0.63 | 0.44 |
| DV | G-035717 | 6/26/2006 | 91 | 711 | 7.62 | 403 | 349 | 124 | 22.6 | 14.5 | 9.1 | 57.0 | 11.0 | 0.3 | 17 | <0.05 | 0.71 | 432 | 0.3 | 3.09 | 0.93 | 0.63 | 0.44 |
| OV | G-035717 | 7/5/2007 | 91 | 735 | 8.28 | 349 | 323 | 106.43 | 20.4 | 13.0 | 8.5 | 62.0 | 13.0 | 0.3 | 15.78 | <0.05 | 0.58 | 436 | 0.4 | 2.66 | 0.84 | 0.59 | 0.45 |
| CV CV | G-035/1/ | 7/7/2009 | 91 | 695 | 7.32 | 121 | 512 | 105.34 | 12.5 | 15.8 | 8.3 | 63.0 | 180 | 0.3 | 15.54 | 10.05 | 0.5 | 445 | 16.1 | 2.58 | 0.81 | 0.00 | 0.53 |
| 00 | 0.047651 | 8/23/1994 | 305 | 830 | 7.3 | 390 | 552 | 110 | 29.0 | 20.0 | 81 | 100.0 | 5.9 | 0.4 | 49 | 0.006 | 0.067 | 350 | 1.9 | 2.74 | 1.19 | 0.87 | 0.62 |
| OV DV | G-047051 | 7/27/1995 | 365 | 825 | 34 24 | 390 | 201 | 110 | 29.0 | 20.0 | 7.5 | 97.0 | 5.5 | 0.6 | | 40.05 | 0.24 | 480 | 1.5 | 2.74 | 3.19 | 0.87 | 0.62 |
| DV DV | G-047651 | 8/27/1997 | 365 | 710 | 0.7 | 3/0 | 330 | 190 | 90.0 | 11.0 | 8.3 | 81.0 | 5.3 | 0.5 | 5.1 | 0.35 | 0.22 | 29 | 1.5 | 4,74 | 2.47 | 0.48 | 0.25 |
| 000 | 0-047651 | 8/4/1999 | 303 | 799 | 7.40 | 452 | 229 | 2.00 | 33.9 | 22.1 | 8.1 | 101.0 | 6.0 | 0.4 | 23 | 40.09 | 0.2 | 690 | 1.6 | 2.92 | 1.59 | 0.96 | 0.65 |
| DV DV | G-047651 | 8/8/3004 | 365 | 810 | 7.49 | 433 | 205 | 112 | 31.4 | 20.8 | 8.5 | 93,0 | 6.0 | 0.2 | 23 | 10.05 | 0.3 | 619 | 1.4 | 2.07 | 1 30 | 0.92 | 0.67 |
| 100 | 6.047651 | 7/8/3002 | 168 | 810 | 7.7 | 363 | 337 | 101 | 34.2 | 20.5 | 8.0 | 10.0 | 6.0 | 0.2 | 51.4 | -0.05 | 0.200 | 504 | 0.0 | 252 | 1.00 | 0.55 | 0.63 |
| 104 | 6.047651 | 7/9/2002 | 365 | 900 | 2.38 | 450 | 237 | 127 | 21.0 | 20.5 | 8.0 | 106.0 | 6.0 | 0.0 | 22 | -0.05 | 0.05 | 504 | 1.5 | 217 | 1.24 | 0.89 | 0.07 |
| DV | G-047915 | 7/16/1984 | 81 | bin. | 7.40 | 368 | 340 | 90 | MA | 20.0 | bill. | 35.0 | 16.0 | 0.37 | NA | 0.4 | 1.4 | 514 | 01 | 2.47 | BVALUE! | 0.87 | #VALUE! |
| DV. | G-047915 | 7/25/1995 | 83 | 510 | 7.1 | 120 | 315 | 0.4 | 21.0 | 16.0 | 7.0 | 64.0 | 35 | 0.37 | 35 | 0.064 | 0.85 | 412 | 0.19 | 2.34 | 0.85 | 0.70 | 0.55 |
| OV | G-047915 | 7/21/1998 | 83 | 614 | 7.3 | 328 | 331 | 107 | 21.0 | 40 | 5.5 | 38.0 | 26 | 0.5 | NA | hus | NA | 482 | 1.8 | 2.67 | 0.85 | 0.17 | 0.13 |
| OV | G-048577 | 7/27/1984 | 135 | NA | 7.1 | 228 | 172 | 50 | NA | 20.0 | NA | 34.0 | 5.0 | 0.79 | NO | 40.05 | <0.01 | 442 | 7.4 | 1.25 | INVALUES | 0.87 | #VALUE! |
| DV | G-048577 | 8/26/1994 | 135 | 641 | 6.9 | 170 | 174 | 45 | 13.0 | 21.0 | 3.7 | 18.0 | 2.0 | 0.5 | 49 | 0.008 | 0.002 | 290 | 1.6 | 1.15 | 0.53 | 0.91 | 1.00 |
| OV | G-048577 | 8/2/2007 | 135 | 447 | 7.54 | 176 | 181 | 48.7 | 13.0 | 23.2 | 3.2 | 17.0 | 2.0 | 0.2 | 22.25 | +0.05 | <0.01 | 278 | 7 | 1.22 | 0.53 | 1.01 | 1.08 |
| OV | G-048577 | 7/7/2009 | 135 | 45.7 | 7.36 | 196 | 206 | 54.44 | 14.9 | 22.2 | 4.1 | 25.0 | 2.0 | 0.3 | 20.28 | <0.05 | <0.01 | 314 | 0.6 | 1.35 | 0.61 | 0.96 | 0.97 |
| DV | G-048577 | 7/20/2011 | 135 | 482 | 7.4 | 205 | 226 | 58.83 | 14.0 | 21.4 | 5.5 | 27.0 | 3.0 | 0.3 | 19.86 | <0.05 | <0.01 | 318 | 2.3 | 1.47 | 0.58 | 0.93 | 0.92 |
| DV | G-055048 | 8/29/1994 | 235 | 399 | 7 | 150 | 183 | 45 | 9.4 | 20.0 | 4.4 | 7.2 | 2.4 | 0.3 | 50 | 0.02 | 0.001 | 262 | 3.2 | 2.00 | #WALUET | 0.70 | #VALUE! |
| CTV . | G-055048 | 8/15/1995 | 235 | 612 | 7.1 | 290 | 271 | 88 | 18.0 | 19.0 | 5.4 | 65.0 | 25 | 0.2 | 46 | | 0.021 | 412 | 3.1 | 1.12 | 0.39 | 0.87 | 1.00 |
| DV. | G-055048 | 7/18/1997 | 235 | 653 | 7.4 | 260 | 270 | 160 | 18.0 | 9.0 | 5.0 | 60.0 | 1.9 | 0.4 | 5.7 | 0.2 | <0.01 | 460 | 1.2 | 2.20 | 0.74 | 0.83 | 0.68 |
| DV | G-055048 | 9/2/1999 | 235 | 589 | 7.35 | 301 | 248 | 87 | 20.0 | 22.1 | 6.1 | 57.0 | 3.0 | 0.2 | 24 | <0.05 | <0.01 | 413 | 2.4 | 3.99 | 0.74 | 0.39 | 0.25 |
| DV. | G-055048 | 8/3/2000 | 235 | 615 | 7.17 | 327 | 270 | 97 | 20.2 | 20.4 | 5.8 | 65.0 | 3.0 | 0.2 | 23 | <0.05 | <0.01 | 403 | 2.1 | 2.17 | 0.82 | 0.96 | 0.79 |
| | | | | | | | | | | | | | | | | | | | | | | | |

| Akalisity as Iostan Magnesium Sulface Checka Floaride Floaride Iostande Miniquale at Mini Mini Miniquale At Miniquale At Mini Miniquale At Mini M | Manganese 1 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 | 40.05 40.05 40.05 40.05 40.05 | 5ilica 25 42.3 | Ruoride 0.3 0.2 | Chiloride | Sulfate 64.0 | Potassium | Sodium | Magnesium | Calcium | Vikalinity as CaCO3 | fardness / | pH, in I | Specific conductance | epth, in feet c | Date | Site | Source |
|--|--|---|----------------------|------------------------|----------------------|-------------------------|-------------------|----------------------|----------------------|-------------------|------------------------|-------------------|--------------------|--|---|-------------------------------------|----------------------------------|-----------|
| ansatz base < | Manganese <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 | 40.05 40.05 40.05 40.05 40.05 | 25 42.3 | Fluoride 0.3 0.2 | Chiloride 4.0 | Sulfate 64.0 | Potassium | Sodium | Magnesium | Calcium | CaCO3 | fardness | pH, in I | onductance | feet o | Date | Site | Source |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 | 40.05 40.05 40.05 40.05 | 25 42.3 | 0.3 | 4.0 | 64.0 | | -3320 | 51202 | -0.07 | | | | | | | | |
| 286 233 83 18.8 22.8 5.9 64.0 4.0 0.3 25 40.05 40.01 41.2 2.4 2.42 2.43 2.44 2.24 2.43 2.44 2.33 7.9 2.61 2.23 5.9 61.0 3.0 MA 2.1 40.05 40.01 142 2.5 2.27 0.70 0.93 310 213 71.9 16.6 21.4 6.0 6.0 3.0 0.3 25 40.05 40.01 152 5.5 2.27 0.70 0.99 310 210 210 6.0 6.0 3.0 0.3 25 40.05 40.01 136 6.1 2.30 6.00 0.92 284 75.27 16.5 21.7 5.6 5.60 3.0 0.3 19.95 40.05 40.01 49.4 4.2 1.45 0.40 9.2 1.45 9.2 1.45 0.40 9.2 4.55 40.2 <td< td=""><td><0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01</td><td><0.05 <0.05 <0.05 <0.05</td><td>42.3</td><td>0.3</td><td>4.0</td><td>64.0</td><td>E D</td><td></td><td></td><td></td><td>1 N.S.S.</td><td>100</td><td>2.000</td><td>1000</td><td>1.14</td><td>2222222</td><td>1000000</td><td>2.5</td></td<> | <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 | <0.05 <0.05 <0.05 <0.05 | 42.3 | 0.3 | 4.0 | 64.0 | E D | | | | 1 N.S.S. | 100 | 2.000 | 1000 | 1.14 | 2222222 | 1000000 | 2.5 |
| 131 233 99 201 213 304 503 504 421 4005 4001 322 220 0.07 0.039 244 233 71.9 16.6 72.7 6.0 41.8 34 0.3 484 0.05 4001 352 3.6 2.77 0.63 0.93 244 233 71.9 156 2.12 1.0 6.0 4.0 3.0 4.8 4.005 4.001 352 3.6 2.07 0.68 1.05 310 270 92 15.4 21.2 5.7 54.0 3.0 0.3 1.04 4005 4.001 4.08 2 1.45 0.54 0.92 253 248 75.27 16.5 21.7 5.6 56.0 3.0 0.3 1955 40.65 4.001 4.08 2.0 1.48 0.64 0.42 255 248 75.27 14.3 3.01 12.7 5.6 | <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 | <0.05 <0.05 | 22.3 | 36.4 | | 63.6 | 5.0 | 22.8 | 15.8 | 83 | 233 | 286 | 7.05 | 620 | 235 | 7/18/2001 | G-055048 | OV COV |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 <0.01 <0.01 <0.01 <0.01 | <0.05 | | NA | 3.0 | 61.0 | 5.9 | 22.3 | 20.1 | 99 | 253 | 331 | 7.21 | 624 | 235 | 7/8/2003 | G-055048 | DV |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 <0.01 <0.01 <0.01 | | 49.6 | 0.3 | 3.4 | 41.8 | 6.0 | 24.2 | 16.6 | 71.9 | 215 | 248 | 6.6 | 579 | 235 | 7/19/2004 | G-055048 | DV U |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 <0.01 <0.01 | +0.05 | 26 | 0.3 | 3.0 | 66.0 | 6.0 | 21.0 | 20.0 | 98 | 222 | 327 | 7.22 | 630 | 235 | 7/12/2005 | G-055048 | DV VO |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 | <0.05 | 22 | 0.2 | 3.0 | 54.0 | 5.7 | 21.2 | 19.4 | 92 | 270 | 310 | 7.63 | 608 | 235 | 6/29/2006 | G-055048 | 0V |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 611111 | <0.05 | 21.63 | 0.5 | 3.0 | 33.0 | 5.1 | 21.1 | 13.1 | 58.28 | 207 | 199 | 8.06 | 506 | 235 | 7/5/2007 | G-055048 | EV. |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 | <0.05 | 19.84 | 0.3 | 3.0 | 65.0 | 5.3 | 21.7 | 17.5 | 75.77 | 202 | 2/8 | 7.21 | 618 | 135 | 7/28/2009 | G-055048 | 00 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 0.096 | 40.05 | 48.9 | 0.5 | 5.8 | 124.0 | 9.0 | 30.9 | 35.2 | 124 | 372 | 455 | 6.8 | 982 | 235 | 3/16/2004 | G-050001 | av . |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | <0.01 | <0.05 | 25 | 0.4 | 5.0 | 112.0 | 7.9 | 23.7 | 30.1 | 141 | 297 | 476 | 7.44 | 881 | 245 | 7/13/2005 | G-060001 | OV |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 | <0.05 | 24 | 0.3 | 6.0 | 109.0 | 8.1 | 24.5 | 30.7 | 142 | 394 | 481 | 7.77 | 860 | 245 | 6/20/2006 | G-060001 | DV |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <0.01 | <0.05 | 22.93 | 0.3 | 4.0 | 113.0 | 7.7 | 16.3 | 26.8 | 124.81 | 348 | 422 | 8.37 | 873 | 245 | 7/23/2007 | G-050001 | DV VO |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 0.02 | 0.02 | 19.73 | 0.4 | 6.0 | 125.0 | 8.3 | 28.8 | 30.2 | 120.26 | 372 | 425 | 7.4 | 887 | 245 | 7/30/2008 | G-060001 | DV |
| 444 5/6 116.17 27.8 26.7 7.9 1100 5.0 0.3 20.88 0.05 0.01 366 0.48 5.10 1.16 1.25 350 350 320 31.0 8.0 9.6 6.0 6.7 0.3 35 0.17 0.38 432 0.65 2.90 1.14 1.16 1.26 360 360 320 31.0 8.0 9.6 60.0 6.7 0.4 0.35 0.6 0.41 460 0.3 2.50 1.03 0.65 376 354 122 21.0 40 6.7 6.0 0.4 NA NA NA 601 2.1 5.49 1.36 0.35 413 348 117 28.6 16.5 9.4 71.0 7.0 0.1 17 40.05 0.4 438 <0.2 | <0.01 | <0.05 | 21.14 | 0.3 | 5.0 | 116.0 | 7.7 | 28.8 | 28.3 | 126.35 | 36.6 | 427 | 7.27 | 879 | 245 | 7/22/2009 | G-060001 | DV CV |
| 350 266 200 230 1300 900 603 635 637 0.46 0.35 637 0.46 0.35 637 0.41 460 0.3 2.50 1.10 1.16 1.17 1.16 1.17 1.16 1.17 1.16 1.17 1.16 1.17 1.16 | 0.01 | 40.05 | 20.68 | 0.5 | 5.0 | 110.0 | 7.9 | 15.0 | 27.8 | 116.17 | 5/6 | 404 | 7.5 | 781 | 245 | 8/2/2011 | G-060001 | 00 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 0.41 | 0.6 | 0.35 | 0.4 | 6.7 | 60.0 | 9.6 | 8.0 | 33.0 | 220 | 360 | 360 | 7.2 | 731 | 191 | 7/29/1997 | G-067893 | DV |
| $ \begin{array}{ccccccccccccccccccccccccccccccc$ | NA. | NA. | NA. | 0.4 | 6.0 | 54.0 | 6.7 | 4.0 | 23.0 | 122 | 354 | 376 | 7.4 | 677 | 191 | 7/21/1998 | G-067893 | 0V |
| | 0.4 | <0.05 | 17 | 0.1 | 7.0 | 71.0 | 9.4 | 16.5 | 28.6 | 117 | 348 | 413 | 7.75 | 771 | 191 | 8/30/1999 | G-067893 | DV. |
| 425 503 121 29.6 19.8 9.1 100.0 9.0 0.3 20 +0.05 0.33 547 4.9 3.64 1.37 0.81 519 503 147 36.6 21.0 8.9 122.0 10.0 0.2 19 0.01 0.3 647 4.9 3.64 1.37 0.81 459 322 137 28.2 17.8 6.0 23.8 9.2 0.3 36 0.162 0.317 620 6.4 3.67 1.51 0.91 430 328 127 27.2 16.6 8.0 123.0 10.1 0.3 39.8 0.143 0.247 676 7.6 3.42 1.16 0.77 505 310 148 32.2 128 30.2 18.0 9.0 107.0 135 0.4 43 0.168 0.27 552 8.3 3.69 1.34 0.83 450 342 | 0.31 | 0.16 | 19 | 0.5 | 8.0 | 187.0 | 8.7 | 18.6 | 33.3 | 146 | 345 | 503 | 7.33 | 829 | 191 | 8/9/2000 | G-067893 | DW |
| | 0.33 | <0.05 | 20 | 0,3 | 9.0 | 100.0 | 9.1 | 19.8 | 29.6 | 121 | 303 | 425 | 7.27 | 851 | 191 | 7/18/2001 | G-067893 | DV |
| 459 512 157 26.4 17.4 b.0 23.8 9.2 0.5 39 0.152 0.51 640 6.4 5.67 1.51 0.97 430 328 127 27.2 16.6 8.0 123.0 10.1 0.3 39.8 0.143 0.247 676 7.6 3.47 1.6 0.77 505 330 348 32.5 19.0 9.0 114.0 9.0 0.4 20 40.05 0.27 656 7.8 3.17 1.12 0.72 443 322 128 30.2 18.0 9.0 107.0 13.5 0.4 43 0.168 0.27 552 8.3 3.69 1.34 0.84 0.43 0.48 0.25 6.24 7.4 3.14 0.84 0.43 0.43 0.43 0.54 0.3 3.19 1.24 0.78 443 312 133 30.6 17.3 9.5 85.0 12 | 0.3 | 0.01 | 19 | 0.2 | 10.0 | 122.0 | 8.9 | 21.0 | 36.6 | 147 | 303 | 519 | 7.58 | 928 | 191 | 8/10/2001 | G-067893 | UV CV |
| 430 540 147 <th147< th=""> <th147< th=""> <th147< th=""></th147<></th147<></th147<> | 0.317 | 0.162 | 30 e | 0.3 | 10.5 | 123.6 | 8.0 | 17.8 | 28.2 | 13/ | 322 | 459 | 7.1 | 959 | 191 | 5/28/2002 | G-06/893 | DV DV |
| 443 322 128 30.2 18.0 9.0 107.0 13.5 0.4 43 0.168 0.27 552 6.3 3.69 1.34 0.83 450 342 130 30.4 18.1 9.1 83.0 7.0 0.3 18 4006 0.33 454 0.3 3.19 1.24 0.78 450 342 130 30.6 173 9.5 85.0 12.0 0.2 20 40.65 0.33 454 0.3 3.19 1.24 0.78 381 346 109.89 25.9 15.0 8.7 81.0 6.0 0.4 15.78 40.05 0.26 434 2 3.32 1.26 0.75 381 346 109.89 25.9 15.0 8.7 81.0 6.0 0.4 15.78 4005 0.26 434 2 3.32 1.26 0.75 302 302 8.0 8.0 8.0 | 0.27 | 40.05 | 20 | 0.4 | 9.0 | 114.0 | 9.0 | 19.0 | 32.5 | 148 | 330 | 505 | 7.28 | 848 | 191 | 8/12/2002 | G-067893 | DV DV |
| 450 342 130 90.4 18.1 9.1 83.0 7.0 0.3 18 <0.05 0.33 454 0.3 3.19 1.24 0.78 458 333 333 30.6 17.3 9.5 85.0 12.0 0.2 20 <0.05 | 0.27 | 0.168 | 43 | 0.4 | 13.5 | 107.0 | 9.0 | 18.0 | 30.2 | 128 | 322 | 443 | 7.3 | 888 | 191 | 8/3/2004 | G-067893 | DV |
| 458 333 133 30.6 17.3 9.5 85.0 12.0 0.2 20 <0.05 0.26 524 7.4 5.24 1.25 0.79 381 346 109.89 25.9 15.0 8.7 81.0 6.0 0.4 15.78 <0.05 0.26 494 2 3.32 1.26 0.75 407 379 1389 28.8 18.0 8.2 90.0 8.0 0.3 18.5 <0.05 0.21 562 5.2 1.26 0.75 | 0.33 | <0.05 | 18 | 0.3 | 7.0 | 83.0 | 9.1 | 18.1 | 30.4 | 130 | 342 | 450 | 7.61 | 811 | 191 | 7/6/2005 | G-067893 | DV. |
| 381 346 109.89 25.9 15.0 8.7 81.0 6.0 0.4 15.78 407 379 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 407 519 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 407 519 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 407 519 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 407 519 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 407 519 11895 26.8 18.0 8.2 90.0 8.0 0.8 18.5 408 519 118 118 118 118 118 118 118 118 118 1 | 0.26 | <0.05 | 20 | 0.2 | 12.0 | 85.0 | 9.5 | 17.3 | 30.6 | 133 | 333 | 458 | 7.84 | 842 | 191 | 7/12/2006 | G-067893 | DV |
| 407 179 118.95 26.8 18.0 8.2 90.0 8.0 0.1 18.5 20.05 0.21 562 5.6 2.74 1.06 0.65 | 0.26 | <0.05 | 15.78 | 0.4 | 6.0 | 81.0 | 8.7 | 15.0 | 25.9 | 109.89 | 346 | 381 | 7.98 | 716 | 191 | 7/17/2007 | G-067893 | VO |
| | 0.21 | <0.05 | 18.5 | 0.5 | 8.0 | 90.0 | 82 | 18.0 | 26.8 | 138.95 | 329 | 407 | 7.32 | 867 | 191 | 8/7/2009 | G-067893 | DV . |
| 310 294 793 268 190 70 667 61 06 455 145 0.177 396 0.7 297 1.10 0.8 323 368 611 356 175 76 455 54 04 556 620 0.132 416 1 165 1.10 65 | 0.172 | 1,45 | 43.3 | 0.4 | 6.1 | 45.5 | 7.0 | 19.0 | 26.8 | 29.8 | 204 | 310 | 71 | 677 | 400 | 10(14/1004 | 6-070473 | 00 |
| 200 277 79.2 24.7 165 50 57.1 44 0.4 55.5 0.312 0.007 438 0.7 2.02 1.19 0.35 | 0.097 | 0.312 | 52.6 | 0.4 | 4.8 | 37.8 | 6.0 | 16.5 | 24.7 | 79.2 | 277 | 300 | 7.3 | 649 | 400 | 1/14/2005 | G-070473 | DV. |
| 273 259 73 21.9 15.3 6.0 39.3 6.2 0.4 49.2 0.194 0.085 332 0.3 1.96 1.02 0.72 | 0.085 | 0.194 | 49.2 | 0.4 | 6.2 | 39.3 | 6.0 | 15.3 | 21.9 | 73 | 259 | 273 | 7.3 | 584 | 400 | 4/26/2005 | G-070473 | DV. |
| 302 258 80 24.9 18.2 7.0 37.0 5.0 0.3 23 <0.05 0.07 316 0.4 1.82 0.90 0.67 | 0.07 | <0.05 | 23 | 0.3 | 5.0 | 37.0 | 7.0 | 18.2 | 24.9 | 80 | 258 | 302 | 7.71 | 582 | 400 | 7/6/2005 | G-070473 | DV |
| . 350 297 92 29.2 17.7 7.6 47.0 6.0 0.6 30 <0.05 0.08 290 1.1 2.00 1.02 0.79 | 0.06 | <0.05 | 30 | 0.6 | 6.0 | 47.0 | 7.6 | 17.7 | 29.2 | 92 | 297 | 350 | 7.61 | 648 | 400 | 10/28/2005 | G-070473 | DV |
| 319 288 80 28.9 18.5 7.7 42.0 5.0 0.7 27 0.01 0.04 364 <0.2 2.30 1.20 0.77 | 0.04 | 0.01 | 27 | 0.7 | 5.0 | 42.0 | 7.7 | 18.5 | 28.9 | 80 | 288 | 319 | 8.01 | 604 | 400 | 1/18/2006 | G-070473 | 0V |
| 302 261 81 241 170 7.0 390 5.0 0.3 25 -0.05 0.06 400 0.4 2.00 1.19 0.80 | 0.06 | <0.05 | 25 | 0.3 | 5.0 | 39.0 | 7.0 | 17.0 | 24.1 | 81 | 261 | 302 | 7.43 | 561 | 400 | 4/19/2006 | G-070473 | DV |
| 315 281 81 27.5 17.7 7.8 44.0 6.0 0.7 25 00.05 0.06 188 1 2.02 0.99 0.74 | 0.06 | 40.05 | 25 | 0.2 | 6.0 | 44.0 | 5.8 | 17.7 | 27.5 | 77.01 | 281 | 315 | 8.35 | -037 | 400 | 7/20/2006 | G-070473 | 012 |
| 260 2014 (7,01 22,2 13/8 0.7 37/0 0.0 0.5 24,8 90/05 0.06 344 0.4 2.02 1.12 0.77 362 341 2.114 2016 1.15 6.0 99.0 5.0 0.5 18.80 0.06 346 0.3 1.02 0.02 0.68 | 0.05 | 10.05 | 18.80 | 0.2 | 5.0 | 33.0 | 6.0 | 15.7 | 20.6 | 27.14 | 264 | 262 | 1.00 | 505 | 400 | 5/10/2008 | 6.020473 | av. |
| 244 259 57.68 25.2 17.1 7.2 35.0 5.0 0.3 17.37 0.01 0.06 320 e0.2 1.77 0.85 0.58 | 0.06 | 0.01 | 17.37 | 0.3 | 5.0 | 35.0 | 72 | 17.1 | 25.2 | 57.68 | 259 | 248 | 7.71 | 585 | 400 | 9/15/2009 | G-070473 | DV |
| 204 245 38.45 26.2 17.5 7.0 12.0 6.0 0.4 15.21 0.13 0.15 278 <0.2 1.44 1.04 0.74 | 0.15 | 0.13 | 15.21 | 0.4 | 6.0 | 12.0 | 7.0 | 17.5 | 26.2 | 38.45 | 245 | 204 | 7.76 | 469 | 400 | 6/30/2011 | G-070473 | DV. |
| 265 275 68.97 22.7 16.1 6.6 34.0 6.0 0.4 21.25 0.04 0.05 366 10.1 0.96 1.08 0.76 | 0.05 | 0.04 | 21.25 | 0.4 | 6.0 | 34.0 | 6.6 | 16.1 | 22.7 | 68.97 | 275 | 265 | 7.82 | 572 | 400 | 6/30/2011 | G-070473 | DV |
| 252 284 91 NA 17.0 NA 54.0 6.0 0.28 NA 0.8 0.5 376 <0.2 1.72 0.93 0.70 | 0.5 | 0.8 | NA. | 0.28 | 6.0 | 54.0 | NA | 17.0 | NA | 91 | 284 | 252 | 7.8 | NA | 319 | 3/24/1988 | G-070766 | DV |
| 315 260 103 18.4 18.9 6.2 48.0 6.0 0.2 20 <0.05 0.49 412 <0.2 2.27 #VAUUEI 0.74 #V | 0.49 | <0.05 | 20 | 0.2 | 6.0 | 48.0 | 6.2 | 18.9 | 18.4 | 103 | 260 | 315 | 7.42 | 579 | 319 | 11/6/2001 | G-070766 | DV. |
| 309 245 94 17.5 15.8 b.7 48.0 b.0 0.2 19 400.5 0.49 470 40.2 2.57 0.76 0.32 | 0.49 | <0.05 | 19 | 0.2 | 6.0 | 48.0 | 5.7 | 16.8 | 17.5 | 94 | 245 | 309 | 7.52 | 589 | 319 | 1/10/2002 | G-070766 | DV |
| 350 250 102 17.5 17.2 0.2 51.0 50 0.1 21 40.05 0.49 453 40.2 2.55 0.72 0.5 287 268 896 15.5 15.5 6.0 561 5.4 0.2 416 0.118 0.491 404 40.7 554 0.74 0.75 | 0.491 | 0.133 | 41.6 | 0.2 | 5.4 | 59.1 | 6.0 | 15.5 | 15.2 | 102 | 250 | 287 | 2.1 | 672 | 119 | 7/23/2002 | G-070766 | DV DV |
| 241 274 73.7 13.7 13.2 5.0 59.9 5.6 0.2 37.5 0.111 0.419 400 <0.2 2.24 0.63 0.67 | 0.419 | 0.111 | 37.5 | 0.2 | 5.6 | 59.9 | 5.0 | 13.2 | 13.7 | 73.7 | 274 | 241 | 7.2 | 681 | 319 | 10/22/2002 | G-070765 | DV |
| 316 273 100 16.0 16.4 6.0 48.5 5.3 0.2 39.4 0.112 0.524 328 <0.2 1.84 0.56 0.57 | 0.524 | 0.112 | 39.4 | 0.2 | 5.3 | 48.5 | 6.0 | 16.4 | 16.0 | 100 | 273 | 316 | 7.2 | 610 | 319 | 1/8/2003 | G-070766 | DV |
| 287 263 89.6 15.3 16.0 6.0 50.9 5.8 0.3 43.8 0.151 0.515 396 <0.2 2.50 0.66 0.71 | 0.515 | 0.151 | 43.8 | 0.3 | 5.8 | 50.9 | 6.0 | 16.0 | 15.8 | 89.6 | 263 | 287 | 7.8 | 640 | 319 | 5/1/2008 | 6-070766 | DV |
| 324 274 101 17.4 16.8 6.7 51.0 5.0 NA 18 <0.05 0.49 374 <0.2 2.24 0.63 0.70 | 0.49 | <0.05 | 18 | NA | 5.0 | 51.0 | 6.7 | 16.8 | 17.4 | 101 | 274 | 324 | 7.31 | 616 | 319 | 7/24/2003 | G-070766 | DV |
| 326 272 100 18.4 18.3 7.0 74.5 5.7 0.4 44.7 0.036 0.49 428 402 2.52 0.72 0.73 | 0.49 | 0.036 | 44.7 | 0.4 | 5.7 | 74.5 | 7.0 | 18.3 | 18.4 | 100 | 272 | 326 | 7 | 709 | 319 | 10/1/2004 | G-070766 | OV. |
| - 250 277 205 17.6 17.6 15.9 73.0 4.0 0.2 20 40.05 0.36 438 40.2 2.50 0.76 0.30 - 474 - 475 - 400 - 40 | 0.58 | 40.05 | 20 | 0.2 | 4.0 | 73.0 | 5.9 | 17.6 | 19.4 | 108 | 217 | 350 | 7.29 | 668 | 319 | 7/28/2005 | G-070766 | 00 |
| 343 203 207 170 100 7.0 2.0 2.0 2.0 0.0 2.1 0000 0.37 422 0.2 2.07 0.00 0.77 200 205 207 158 158 551 551 550 551 105 17 0.00 0.38 177 0.0 2.67 0.08 0.78 | 0.48 | +0.05 | 17.1 | 0.5 | 5.0 | 51.0 | 6.3 | 15.4 | 15.0 | 303 | 265 | 290 | 8.37 | 623 | 310 | 7/20/2008 | G-070766 | DV DV |
| 280 264 65.95 15.8 46.6 3.0 33.0 6.0 0.3 11.73 00.05 0.01 370 7.2 2.24 0.65 0.67 | <0.01 | +0.05 | 11.73 | 0.3 | 6.0 | 33.0 | 3.0 | 46.6 | 15.B | 65.95 | 264 | 230 | 7.71 | 645 | 319 | 6/11/2008 | G-070766 | DV . |
| 327 275 101.58 17.8 17.1 6.8 74.0 5.0 0.3 17.75 <0.05 0.5 426 <0.2 1.65 0.65 2.03 | 0.5 | <0.05 | 17.75 | 0.3 | 5.0 | 74.0 | 6.8 | 17.1 | 17.8 | 101.58 | 275 | 327 | 7.39 | 663 | 319 | 9/9/2009 | G-070766 | DV |
| 285 269 89.53 14.7 16.6 6.5 50.0 5.0 0.2 18.47 <0.05 0.47 392 <0.2 2.53 0.73 0.74 | 0.47 | <0.05 | 18.47 | 0.2 | 5.0 | 50.0 | 6.5 | 16.6 | 14.7 | 89.53 | 269 | 285 | 7.65 | 584 | 319 | 9/21/2011 | G-070766 | D/V |
| 401 282 118 25.9 20.5 7.5 84.0 5.0 0.3 24 <0.05 0.43 432 <0.2 2.23 0.60 0.72 | 0.43 | <0.05 | 24 | 0.3 | 5.0 | 84.0 | 7.5 | 20.5 | 25.9 | 118 | 282 | 401 | 7.53 | 743 | 328 | 7/11/2005 | G-071040 | DV |
| 390 338 114 25.6 20.0 8.2 82.0 5.0 0.3 23 c0.05 0.44 482 c0.2 2.94 3.07 0.89 | 0.44 | <0.05 | Z1 | 0.3 | 5.0 | 82.0 | 8.2 | 20.0 | 25.6 | 114 | 318 | 390 | 8.36 | 759 | 328 | 7/19/2006 | G-071040 | DV |
| 342 511 100.59 22.5 17.1 7.4 75.0 5.0 0.4 19.22 0.01 0.37 466 40.2 2.84 1.05 0.37 137 366 40.7 1.5 10.5 0.5 0.5 0.5 0.5 10.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 0.37 | 0.01 | 19.22 | 0.4 | 5.0 | 78.0 | 7.4 | 17.1 | 22.3 | 100.39 | 311 | 342 | 7.99 | 719 | 328 | 7/2/2007 | G-071040 | DV DV |
| 227 297 27.14 £1.5 18.1 16.2 18.1 16.2 18.0 16.0 15.3 19.51 40,00 0.59 496 40.2 2.50 0.92 0.74 | 0.39 | 0.05 | 16.51 | 0.3 | 6.0 | 82.0 | 5.2 | 18.1 | 21.3 | 104.65 | 505 | 35/ | 7.69 | /23 | 5,08 | 8/6/2008 | G-071040 | DV DV |
| NA 314 9423 218 19.2 7.3 82.0 50 NA NA 0.34 0.37 458 40.2 561 0.66 0.69 | 0.37 | 0.24 | NA | NA | 5.0 | 82.0 | 73 | 19.2 | 21.8 | 94.23 | 314 | NA | 7.29 | 694 | 328 | 7/18/2011 | G-071040 | DV |
| 360 280 94 25.0 4.5 6.7 120.0 8.6 0.5 NA NA NA 500 4.6 2.35 0.50 0.83 | NA. | NA | NA | 0.5 | 8.6 | 120.0 | 6.7 | 4.5 | 25.0 | 94 | 280 | 360 | 7.4 | 658 | 150 | 7/6/1998 | G-097146 | OV |
| 440 298 124 31.4 16.8 8.7 103.0 10.0 0.3 26 0.06 0.24 553 9 2.35 1.03 0.20 | 0.24 | <0.05 | 26 | 0.8 | 10.0 | 103.0 | 8.7 | 16.8 | 31.4 | 124 | 296 | 440 | 7.61 | 823 | 150 | 6/30/1999 | G-097146 | OV |
| 468 302 132 32.9 17.8 8.7 110.0 8.0 0.3 27 <0.05 0.18 585 9.9 3.09 1.29 0.73 | 0.1B | <0.05 | 27 | 0.3 | 8.0 | 110.0 | 8.7 | 17.8 | 32.9 | 132 | 302 | 468 | 7.32 | 846 | 150 | 11/3/1999 | G-097146 | 0V |
| 463 307 130 33.0 17.5 8.0 112.0 8.0 NA 25 <0.05 0.18 590 11 3.29 1.35 0.77 | | <0.05 | 25 | NA | 8.0 | 112.0 | 8.0 | 17.5 | 33.0 | 130 | 307 | 463 | 7.85 | 857 | 150 | 1/13/2000 | G-097146 | DV |
| 511 314 147 34.2 18.0 9.0 117.0 11.0 0.4 25 e0.05 0.19 587 12.7 3.24 1.36 0.76 | 0.18 | <0.05 | 25 | 0.4 | 11.0 | 117.0 | 9.0 | 18.0 | 34.2 | 147 | 314 | 511 | 7.94 | 862 | 150 | 4/26/2000 | G-097146 | DV |
| 508 316 146 34,3 18,1 8,6 117,0 11,0 0,4 25 40,05 0,19 585 13,9 3,67 1,41 0,78 | 0.18 0.19 | and the second se | - 25 | 0.4 | 11.0 | 117.0 | 8.6 | 18.1 | 34.3 | 145 | 316 | 508 | 7.92 | 867 | 150 | 4/26/2000 | G-097145 | DV |
| 550 314 100 36.2 18.6 9.4 125.0 13.0 0.5 34 40.05 0.19 685 15.4 5.64 1.41 0.79 | 0.18 0.19 0.19 | <0.05 | 10000 | | | | | | | | | | | 100 million (100 m | and the second se | the first of high states | the second second second second | - FA |
| -τατ 2.66 2.29 3.60 10.7 8.5 11.2.0 10.0 0.5 25 40.00 0.18 3.86 12.6 5.99 1.49 0.81 477 3.66 138 3.78 17.7 8.7 11.7 10.0 0.4 77 σ.506 0.17 5.86 13.5 5.34 5.5 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1 | 0.18 0.19 0.19 0.19 | <0.05 <0.05 | 34 | 0.5 | 13.0 | 125.0 | 9.4 | 18.6 | 36.2 | 160 | 314 | 550 | 7.5 | 880 | 150 | 7/13/2000 | G-097146 | 00 |
| 438 312 125 220 167 0.5 1160 110 0.4 27 4005 0.17 550 116 5.06 116 0.19 | 0.18 0.19 0.19 0.19 0.19 0.18 | 40.05 40.05 40.05 | 34 26 27 | 0.5 | 13.0 11.0 | 125.0 112.0 | 9.4 8.5 | 18.6 16.9 | 36.2 32.0 | 160 134 | 314 322 305 | 550 469 477 | 7.5 | 680 833 839 | 150 150 | 7/13/2000 10/3/2000 1/22/2001 | G-097146 G-097146 G-097146 | OV DV |
| 438 512 125 29.9 16.7 9.3 109.0 10.0 0.4 27 <0.05 0.12 590 11.6 5.39 1.35 | 0.18 0.19 0.19 0.19 0.18 0.17 | 40.05 40.05 40.05 40.05 | 34 26 27 | 0.5 0.5 0.4 | 13.0 11.0 11.0 | 125.0 112.0 112.0 | 9.4 8.5 8.2 | 18.4 16.9 17.7 | 36.2 32.0 32.8 | 160 134 136 | 314 322 305 | 550 469 477 | 7.5 7.47 7.3 | 680 833 819 | 150 150 150 | 7/13/2000 10/3/2000 1/22/2001 | G-097146 G-097146 G-097146 | OV DV |

| | | | | | | | | | | | | | | | | | Terret | Magnesium, Calcium in in Kodium in Kodium | | | | |
|-----------------|--------------|-------------|-----------|-------------|--------|------------|-------|-------------------|--------|-----------|---------|----------|----------|--------|--------|-----------|-----------|--|--------------------------------|-------|------|---------|
| | | | Depth, in | Specific | | Alkalinity | | | | | | | | | | | dissolved | | millequivale millequivale Adsc | | | |
| Source | Site | Date | feet | conductance | pH, in | Hardness | CaCOS | Calcium Magnesium | Sodium | Potassium | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | solāda | Nirate as N | nts | nts | nts | Ratio |
| DV | G-097146 | 7/11/2001 | 150 | 852 | 7.27 | 442 | 312 | 126 30.2 | 18.4 | 8.2 | 113.0 | 10.0 | 0.3 | 26 | <0.05 | 0.23 | 607 | 10.2 | 3.12 | 1.23 | 0.73 | 0.49 |
| DV | G-097146 | 10/30/2001 | 150 | 736 | 7.32 | 447 | 234 | 125 32.3 | 18.0 | 8.5 | 101.0 | 9.0 | 0.2 | 27 | <0.05 | 0.13 | 535 | 7.5 | 3.14 | 1.24 | 0.80 | 0.54 |
| DV | G-097145 | 1/10/2002 | 150 | 801 | 7.39 | 435 | 276 | 123 30.8 | 17,6 | 9.3 | 101.0 | 9.0 | 0.4 | 27 | <0.05 | 0.14 | 622 | 10.5 | 3.12 | 1.33 | 0.7B | 0.53 |
| DV | G-097146 | 4/15/2002 | 150 | 859 | 7.82 | 478 | 209 | 138 91.4 | 18.1 | 8.0 | 103.0 | 9.0 | 0.2 | 59 | <0.05 | 0.12 | 578 | 8.9 | 3.07 | 1.27 | 0.77 | 0.52 |
| DV | G-097146 | 7/23/2002 | 150 | 796 | 1.1 | 3/8 | 289 | 110 24.5 | 15.6 | 8.0 | 93.8 | 8.3 | 0.3 | 54.8 | <0.05 | 0.085 | 550 | 6.9 | 3.44 | 1.29 | 0.79 | 0.51 |
| 00 | 0.002146 | 1/0/2002 | 150 | 733 | 0.5 | 390 | 230 | 114 23,0 | 10.7 | 8.0 | 88.0 | 2.0 | 0.5 | 55 | 40.05 | 0.125 | 320 | *.0 | 2.04 | 1.000 | 0.00 | 0.45 |
| 00 | 6.097146 | 5/6/2003 | 150 | 846 | 7.2 | 383 | 292 | 111 25. | 16.2 | 7.0 | 94.4 | 85 | 0.3 | 58.8 | -0.05 | 0.128 | 520 | 5.4 | 2.87 | 1.05 | 0.67 | 0.48 |
| DV | G-097146 | 7/24/2003 | 150 | 796 | 7.31 | 424 | 302 | 122 28.1 | 16.9 | 8.4 | 91.0 | 8.0 | 0.3 | 24 | +0.05 | 0.12 | 554 | 6.2 | 2.77 | 1.06 | 0.70 | 0.51 |
| DV | G-097146 | 10/7/2003 | 150 | 750 | 7.16 | 405 | 297 | 116 27.4 | 16.6 | 8.9 | 87.0 | 7.0 | 0.5 | 23 | <0.05 | 0.09 | 476 | 5.5 | 3.04 | 1.18 | 0.74 | 0.51 |
| DV. | G-097146 | 8/3/2004 | 150 | 792 | 7.3 | 397 | 292 | 114 27.4 | 17.0 | 8.0 | 99.3 | 8.8 | 0.4 | 58.6 | <0.05 | 0.094 | 508 | 6.2 | 2.89 | 1.13 | 0.72 | 0.51 |
| DV. | G-097146 | 4/25/2005 | 150 | 812 | 7.2 | 383 | 288 | 311 25.3 | 15.6 | 7.0 | 107.0 | 8.1 | 0.3 | 50.4 | <0.05 | 0.096 | 508 | 6.7 | 2.84 | 1.13 | 0.74 | 0.52 |
| DV | G-097146 | 10/29/2005 | 150 | 780 | 7.43 | 422 | 302 | 122 28.1 | 17.1 | 8.0 | 91.0 | 8.0 | 0.7 | 29 | +0.05 | 0.08 | 398 | 3 | 2.77 | 1.06 | 0.68 | 0.49 |
| DV | G-097146 | 4/25/2006 | 150 | 805 | 7.38 | 446 | 303 | 328 30.8 | 17.7 | 8.8 | 105.0 | 10.0 | 0.3 | 24 | <0.05 | 0.1 | 536 | 9.3 | 3.04 | 1.18 | 0.74 | 0.51 |
| DV | G-097146 | 10/19/2006 | 150 | 743 | 7.92 | 410 | 297 | 118 28.1 | 16.8 | 8.5 | 92.0 | 8.0 | 0.3 | 26 | <0.05 | < 0.01 | 528 | 6.8 | 3.19 | 1.27 | 0.77 | 0.52 |
| DV | G-097146 | 5/1/2007 | 150 | 813 | 7.72 | 396 | 301 | 118 28.1 | 16.6 | 8.2 | 102.0 | 10.0 | 0.3 | 25.13 | <0.05 | 0.01 | 532 | 10.2 | 2.94 | 1.16 | 0.73 | 0.51 |
| DV . | G-097146 | 7/27/2007 | 150 | 880 | 8.12 | 389 | 298 | 101.04 27.1 | 14.7 | 8.3 | 103.0 | 11.0 | 0.3 | 24.28 | <0.05 | 0.06 | 580 | 11.4 | 2.94 | 1.19 | 0.72 | 0.50 |
| DV | G-097145 | 5/14/2008 | 150 | 749 | 7.22 | 430 | 294 | 124.25 29.3 | 17.7 | 6.7 | 83.0 | 11.0 | 0.1 | 24.71 | 0.02 | 0.15 | 584 | 11.9 | 2.77 | 1.11 | 0.04 | 0.46 |
| DV DV | G-097146 | 5/13/2008 | 150 | 852 | 7.38 | 402 | 297 | 139.55 27.5 | 18.0 | 8.5 | 103.0 | 12.0 | 0.3 | 21.45 | 40.05 | 0.15 | 620 | 10 | 3.10 | 1.20 | 0.27 | 0.52 |
| 00 | 6.097146 | 11/5/2009 | 150 | 970 | 7.86 | 444 | 308 | 128 31 30.1 | 17.1 | 81 | 102.0 | 12.0 | 0.5 | 33.71 | -0.05 | 0.17 | 623 | 16.4 | 3.34 | 1.17 | 0.25 | 0.50 |
| DV. | G-097145 | 5/26/2010 | 150 | 934 | 7.71 | 464 | 309 | 134.79 30.0 | 17.1 | 8.6 | 105.0 | 18.0 | 0.3 | 72.17 | 40.05 | 0.22 | 572 | 16.2 | 3.20 | 1.24 | 0.74 | 0.50 |
| DV. | G-097165 | 11/9/2010 | 150 | 875 | 7.25 | 452 | 316 | 132.17 29.5 | 16.8 | 7.8 | 104.0 | 18.0 | 0.3 | 23.89 | <0.05 | 0.21 | 546 | 8.5 | 3.36 | 1.27 | 0.74 | 0.49 |
| DV. | G-097146 | 6/8/2011 | 150 | 876 | 7.2 | 450 | 308 | 130.17 30.5 | 17.3 | 8.3 | 97.0 | 18.0 | 0.3 | 25.48 | 0.02 | 0.25 | 596 | 14.8 | 3.30 | 1.21 | 0.73 | 0.49 |
| DV. | G-097146 | 11/1/2011 | 150 | 790 | 7.24 | 357 | 314 | 107.53 21.1 | 12.4 | 5.7 | 64.0 | 19.0 | 0.3 | 19.86 | <0.05 | <0.01 | 522 | 11.2 | 3.25 | 1.26 | 0.75 | 0.50 |
| DV | G-097346 | 5/23/2012 | 150 | 962 | 7.26 | 458 | 318 | 131.6 31.4 | 16.6 | 8.4 | 95.5 | 21.4 | 0.3 | 24.78 | <0.05 | 0.31 | 612 | 15.1 | 2.68 | 0.87 | 0.54 | 0.40 |
| DV | G-097146 | 12/3/2012 | 150 | 923 | 7.24 | 481.4 | 322 | 139.3 32.4 | 17.2 | 8.6 | 102.0 | 20.7 | 0.3 | 26.64 | <0.05 | 0.31 | 552 | 16.4 | 3.28 | 1.29 | 0.72 | 0.48 |
| DV. | G-097146 | 5/23/2013 | 150 | 962 | 7.26 | 467 | 319 | 136 30.5 | 16.9 | 8.5 | 100.0 | 21.8 | 0.6 | 24.58 | <0.05 | 0.3 | 592 | 15.4 | 3.48 | 1,33 | 0.75 | 0.48 |
| DV | G-097146 | 10/1/2013 | 150 | 894 | 7.24 | 459.8 | 516 | 132.7 31.2 | 16.7 | 8.3 | 99.0 | 21.4 | 0.3 | 23.28 | +0.05 | 0.28 | 632 | 15.7 | 3.39 | 1.27 | 0.74 | 0.48 |
| DV | G-097147 | 7/6/1998 | 112 | 684 | 7.3 | 380 | 310 | 100 22.4 | 3.8 | 41 | 62.0 | 10.0 | 0,44 | NA | NA | NA | 420 | 8,9 | 3.31 | 1.28 | 0.73 | 0.48 |
| DV | G-097147 | 7/14/1999 | 112 | 762 | 7.53 | 424 | 326 | 128 24.1 | 12.3 | 5.4 | 36.0 | 11.0 | 0.2 | 18 | <0.05 | <0.01 | 523 | 9.4 | 2.50 | 0.91 | 0.17 | 0.13 |
| DV DV | G-097147 | 11/3/1999 | 112 | 767 | 7.6 | 420 | 324 | 126 25.1 | 12.8 | 5.5 | 41.0 | 11.0 | 0.3 | 20 | 40.05 | <0.01 | 503 | 9.6 | 3.19 | 1.02 | 0.54 | 0.37 |
| m | 6-097147 | 4/26/2000 | 113 | 264 | 7.82 | 422 | 525 | 123 20.0 | 13.0 | 5.6 | 89.0 | 14.0 | 0.5 | 17 | 40.05 | +0.01 | 467 | 13.3 | 3.14 | 1.09 | 0.50 | 0.58 |
| The loss | 6.097147 | 4/26/2000 | 112 | 763 | 7.5 | 457 | 328 | 140 25.9 | 13.0 | 5.6 | 38.0 | 14.0 | 0.3 | 17 | 40.05 | <0.01 | 470 | 12.7 | 3.47 | 1.08 | 0.57 | 0.38 |
| TIV | G-097147 | 7/13/2000 | 112 | 769 | 7.51 | 470 | 379 | 141 26.0 | 12.9 | 5.9 | 64.0 | 14.0 | 0.6 | 22 | <0.05 | <0.01 | 532 | 6.7 | 3.49 | 1.09 | 0.57 | 0.37 |
| DV | G-097147 | 10/3/2000 | 112 | 1040 | 7.19 | 620 | 413 | 185 36.5 | 15.5 | 6.1 | 105.0 | 23.0 | 0.7 | 18 | +0.05 | <0.01 | 730 | 20.1 | 3.57 | 1.09 | 0.56 | 0.37 |
| DV | G-097147 | 1/22/2001 | 112 | 888 | 7.25 | \$38 | 366 | 161 32.3 | 14.8 | 6.2 | 110.0 | 18.0 | 0.4 | 18 | <0.05 | <0.01 | 673 | 7.7 | 4.64 | 1.52 | 0.67 | 0.38 |
| DV | G-097147 | 4/9/2001 | 112 | 926 | 8.16 | 517 | 875 | 156 30.1 | 14.3 | 6.9 | 103.0 | 19.0 | 0.4 | 18 | <0.05 | <0.01 | 647 | 14 | 4.02 | 1.33 | 0.64 | 0.39 |
| DV/ | G-097147 | 7/11/2001 | 112 | 882 | 7.21 | 458 | 352 | 138 27.4 | 15.1 | 5.5 | 97.0 | 16.0 | 0.3 | 18 | +0.05 | <0.01 | 603 | 5.2 | 3.89 | 1.26 | 0.62 | 0.39 |
| DV. | G-097147 | 10/30/2001 | 112 | 939 | 7.29 | 589 | 360 | 174 37.1 | 17.4 | 6.7 | 110.0 | 20.0 | 0.3 | 18 | <0.05 | <0.01 | 602 | 10.7 | 3.44 | 1.13 | 0.66 | 0.43 |
| DV | G-097147 | 1/10/2002 | 112 | 846 | 7.25 | 485 | 320 | 344 30.1 | 15.3 | 6.6 | 91.0 | 14.0 | 0.4 | 18 | <0.05 | <0.01 | 628 | 4.3 | 4.34 | 3.53 | 0.76 | 0.44 |
| DV | G-097147 | 4/15/2002 | 112 | 925 | 7.71 | 538 | 319 | 164 30.3 | 15.3 | 6.2 | 96.0 | 15.0 | 0.3 | 19 | N/A | <0.01 | 542 | 4.1 | 3.59 | 1.24 | 0.67 | 0.43 |
| DV | G-097147 | 7/23/2002 | 112 | 1040 | 7.1 | 511 | 340 | 157 28.4 | 14.8 | 7.0 | 102.0 | 18.5 | 0.3 | 36 | <0.05 | <0.01 | 700 | 13 | 4.09 | 1.26 | 0.67 | 0.41 |
| 200 | G-097147 | 11/4/2002 | - 112 | 995 | | 343 | 3// | 167 30.0 | 10.4 | 7.0 | 107.0 | 17.6 | 0.3 | 24.7 | 40.05 | 10.01 | 576 | 7.1 | 5.92 | 1,18 | 0.04 | 0.40 |
| Th/ | 6-097147 | 5/6/2003 | 112 | 945 | 7.2 | 403 | 302 | 101 201 | 14.5 | 5.0 | 95.0 | 16.7 | 0.3 | 35.5 | 10.05 | c0.01 | 520 | 5.3 | 8.77 | 1.15 | 0.65 | 0.41 |
| EN | 6-097147 | 7/24/2003 | 112 | 934 | 7.26 | 524 | 375 | 158 30.5 | 15.5 | 6.9 | 97.0 | 15.0 | 0.5 | 15 | v0.05 | <0.01 | 588 | 4.4 | 3.67 | 1.14 | 0.63 | 0.40 |
| DV | G-097147 | 10/7/2003 | 112 | 979 | 7.24 | 548 | 375 | 166 32.0 | 16.1 | 7.4 | 114.0 | 17.0 | 0.4 | 14 | <0.05 | <0.01 | 626 | 7.1 | 3.94 | 1.27 | 0.67 | 0.42 |
| D/V | G-097147 | 8/5/2004 | 112 | 860 | 7.2 | 464 | 348 | 139 28.4 | 15.7 | 7.0 | 100.0 | 13.1 | 0.3 | 37 | <0.05 | <0.01 | 552 | 4.5 | 4.14 | 1.32 | 0.70 | 0.42 |
| DV ² | G-097147 | 4/25/2005 | 112 | 842 | 7.2 | 415 | 350 | 126 24.1 | 13.2 | 6.0 | 92.0 | 10,4 | 0.4 | 32.5 | +0.05 | <0.01 | 484 | 1 | 3.47 | 1.17 | 0.68 | 0.45 |
| DV | G-097147 | 1/0/28/2005 | 112 | 861 | 7.29 | 489 | 363 | 149 28.5 | 14.7 | 7.2 | 95.0 | 11.0 | 0.7 | 18 | <0.05 | <0.01 | 454 | 1.9 | 3.14 | 1.00 | 0.57 | 0.40 |
| DV | G-097547 | 4/26/2006 | 112 | 777 | 7.3 | 452 | 342 | 237 26.1 | 14.3 | 6.1 | 87.0 | 8.0 | 0.5 | 16 | <0.05 | <0.01 | 508 | 0.4 | 3.72 | 1.17 | 0.64 | 0.41 |
| 01/ | G-097147 | 10/19/2006 | 112 | 787 | 8 | 455 | 352 | 137 27.3 | 14.0 | 7.5 | 89.0 | 10.0 | 0.3 | 16 | <0.05 | <0.01 | 524 | 0.6 | 3.42 | 1.10 | 0.62 | 0.41 |
| DV DV | 6-097147 | 5/1/2007 | 112 | 774 | 7.7 | 479 | 334 | 125.4 25.1 | 13.5 | 5.8 | 85.0 | 8.0 | 0.6 | 16.29 | <0.05 | <0.01 | 496 | <0.2 | 3.42 | 1.12 | 0.61 | 0.40 |
| 50 | G-097147 | 1/27/2007 | 112 | 807 | 7.8 | 398 | 396 | 120.3 23.9 | 12.5 | 6.8 | 87.0 | 0.5 | 0.2 | 15.41 | -0.05 | 10.01 | 480 | 0.2 | 3.15 | 0.04 | 0.59 | 0.63 |
| DV. | 0.097147 | 12/10/2008 | 213 | 230 | 7.25 | 400 | 331 | 110.41 23.1 | 14.8 | 5.5 | 76.0 | 6.0 | 0.2 | 14.2 | 40.05 | 10.01 | 480 | 0.5 | 3.00 | 0.98 | 0.54 | 0.59 |
| 014 | 6.097147 | 5/12/2008 | 112 | 724 | 718 | 376 | 343 | 116 35 20 4 | 13.2 | 52 | 80.0 | 6.0 | 0.3 | 15.45 | -0.05 | 0.01 | 510 | 0.3 | 2.75 | 0.90 | 0.61 | 0.45 |
| DV | G-097147 | 11/5/2009 | 112 | 806 | 7.22 | 378 | 341 | 113.92 72.0 | 16.1 | 16.0 | 83.0 | 7.0 | 0.3 | 15.25 | 40.05 | <0.01 | 497 | +0.2 | 2.90 | 0.86 | 0.57 | 0.42 |
| DV | G-097147 | 5/26/2010 | 112 | 762 | 7.22 | 399 | 335 | 122.12 22.1 | 13.0 | 6.1 | 75.0 | 7.0 | 0.5 | 14.55 | <0.05 | 0.02 | 442 | 0.2 | 2.84 | 0.93 | 0.70 | 0.51 |
| DV | G-097147 | 11/9/2010 | 112 | 743 | 7.2 | 413 | 342 | 127.35 23.2 | 12.9 | 5.8 | 83.0 | 7.0 | 0.4 | 16.56 | <0.05 | <0.01 | 428 | <0.2 | 3.05 | 0.94 | 0.57 | 0.40 |
| DV. | G-097147 | 6/8/2011 | 112 | 756 | 7.12 | 386 | 339 | 116.84 22.1 | 13.2 | 5.7 | 77.0 | 6.0 | 0.3 | 16.57 | <0.05 | <0.01 | 476 | 0.6 | 3.18 | 0.96 | 0.56 | 0.39 |
| DV | G-097147 | 11/1/2011 | 112 | 743 | 7.17 | 402 | 343 | 119.64 24.9 | 15.3 | 7.1 | 69.0 | 7.0 | 0.3 | 24.74 | 0.01 | 0.01 | 484 | 0.5 | 2.92 | 0.93 | 0.57 | 0.41 |
| DV | G-097347 | 5/23/2012 | 112 | 781 | 7.17 | 373.1 | 336 | 113.1 22.0 | 12.7 | 5.5 | 60.5 | 6.4 | 0.3 | 16.35 | <0.05 | <0.01 | 494 | 4.4 | 2.99 | 1.02 | 0.66 | 0.47 |
| DV | G-097147 | 12/3/2012 | 312 | 807 | 7.13 | 420.2 | 353 | 127.8 24.0 | 13.5 | 8.0 | 78.5 | 8.8 | 0.2 | 17.52 | <0.05 | <0.01 | 456 | 2.98 | 2.82 | 0.91 | 0.55 | 0.40 |
| DV | G-097147 | 5/23/2013 | 112 | 800 | 7.18 | 404.5 | 337 | 123.9 23.3 | 13.7 | 5.9 | 69.6 | 7.3 | 0.3 | 16.5 | <0.05 | <0.01 | 496 | 3.69 | 3.19 | 1.01 | 0.59 | 0.41 |
| DV. | G-097147 | 10/1/2013 | 112 | 987 | 7.16 | 504.4 | 409 | 152.7 29.9 | 16.6 | 6.8 | 92.1 | 17.6 | 0.3 | 14.79 | <0.05 | <0.01 | 644 | 9,06 | 3.09 | 0.95 | 0.59 | 0.42 |
| DV | G-097148 | 7/7/1998 | 180 | 1088 | 7.3 | 660 | 332 | 367 42.0 | 53 | 6.3 | 336.0 | 24.7 | 0.53 | NA | NA | NA. | 913 | 8.3 | 3.81 | 1.23 | 0.72 | 0.46 |
| DV | G-097148 | 7/14/1999 | 180 | 1260 | 7.47 | 723 | 348 | 213 45.4 | 21.8 | 8.7 | 188.0 | 22.0 | 0,6 | 18 | 40.05 | 0.02 | 963 | 29.6 | 4.17 | 1.73 | 0.23 | 0.13 |
| 04 | 6-097148 | 11/3/1999 | 180 | 1250 | 7.45 | 715 | 302 | 208 47.1 | 22.4 | 8.5 | 203.0 | 18.0 | 0.6 | 19 | 40.05 | <0.01 | 910 | 156 | 5.31 | 1.87 | 0.95 | 0.50 |
| 100 | (5-097148 | 1/13/2000 | 180 | 1262 | 7.75 | 700 | 337 | 203 46.3 | 118 | 7.0 | 109.0 | 18.0 | 0.5 | 18 | -00.05 | 10.01 | 896 | 37.5 | 5.05 | 1.93 | 0.97 | 0.52 |
| m | G-097148 | 4/27/2000 | 180 | 1229 | 7.65 | 218 | 360 | 213 45.0 | 21.0 | 7.0 | 198,0 | 24.0 | 0.8 | 20 | 40.05 | <0.01 | 343 | 32 | 5.31 | 1.60 | 0.95 | 0.51 |
| 100 | 6.097148 | 7/13/2000 | 180 | 1243 | 7.01 | 740 | 365 | 336 484 | 20.6 | 80 | 211.0 | 35.0 | 11 | 19 | 0.05 | \$0.01 | 945 | 36.6 | 5.26 | 1.88 | 0.94 | 0.50 |
| in/ | STREET STORE | 11111111111 | 100 | 1743 | 1,40 | 104 | 200 | 40.4 | | 0.3 | 211.0 | 23.0 | 4.4 | 1.2 | | -4.4.4 | 345 | 30.0 | 2.20 | 4.00 | 0.34 | 0.50 |
| DV DV | G-097148 | 10/3/2000 | 180 | 1201 | 1.74 | 712 | 399 | 209 45.3 | 21.7 | 8.4 | 194.0 | 23.0 | 0.9 | 19 | 40.05 | <0.01 | 880 | 36.8 | 5.89 | 1.99 | 0.98 | S1.7602 |
| | | | | | | | | | | | | | | | | | | Tant | | California in | in in | failure 1 | Sec. |
|----------|----------------------|------------------|---------------------|-----------------------|----------|--------------------|------------------|----------|--------------|-----------|----------|---------|----------|----------|--------|--------|-----------|------------------------------|-------------|--------------------------------------|---------------------------|-----------------------------------|-------------------------------|
| Source | Site | Dept Date fe | h, in Sp et cond | ecific luctance pl | H, in Ha | Alkal rdness Ca | linity as xCO3 C | akium Ma | gnesium | Sodium Pr | rtassium | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | fotal dissolved solids | Nirate as N | Calcium, in millequivale n nts | in nillequivale nts | Sodium, in millequivale nts | Sodium Adsorption Ratio |
| DV. | G-097148 | 4/9/2001 | 190 | 1248 | 8.59 | 655 | 352 | 193 | 41.4 | 21.3 | 8.8 | 201.0 | 23.0 | 0.5 | 19 | <0.05 | <0.01 | 905 | 34,8 | 5.19 | 1.87 | 0.97 | 0.51 |
| DV | G-097148 | 7/11/2001 | 180 | 1281 | 7.11 | 659 | 353 | 193 | 42.2 | 23.1 | 7.5 | 210.0 | 23.0 | 0.3 | 18 | +0.05 | 0.01 | 980 | 36 | 4.82 | 1.70 | 0.93 | 0.51 |
| DV DV | G-097148 G-097148 | 1/10/2002 | 180 | 1216 | 7.18 | 274 | 295 | 105 | 51.6 | 24.3 | 8.5 | 256.0 | 26.0 | 0.7 | 20 | <0.05 | 0.01 | 903 | 32.9 | 4.82 | 2.74 | 1.00 | 0.56 |
| DV. | G-097148 | 4/15/2002 | 180 | 1406 | 7.64 | 786 | 318 | 234 | 48.0 | 23.5 | 8.3 | 227.0 | 25.0 | 0.9 | 20 | +0.05 | 0.02 | 935 | 39.9 | 5.21 | 1.97 | 1.08 | 0.57 |
| DV. | G-097148 | 7/23/2002 | 180 | 1300 | 7 | 623 | 344 | 387 | 37.7 | 19.5 | 7.0 | 214.0 | 22.9 | 0.3 | 39.5 | <0.05 | <0.01 | 864 | 15.2 | 5.84 | 1.97 | 1.02 | 0.52 |
| DV | G-097148 | 11/4/2002 | 180 | 1270 | 2 | 693 | 341 | 208 | 41.7 | 22.0 | 8.0 | 212,0 | 20.0 | 0.3 | 38.7 | <0.05 | <0.01 | 840 | 26.4 | 4.67 | 1.55 | 0.85 | 0.48 |
| DV DV | G-097148 | 1/9/2003 | 180 | 1280 | 7.1 | 693 | 344 | 208 | 42.1 | 21.0 | 8.0 | 213.0 | 23.7 | 0.3 | 38.3 | <0.05 | 0.015 | 784 | 34.2 | 5.19 | 1.72 | 0.96 | 0.52 |
| DV | G-097148 | 7/24/2003 | 180 | 1315 | 7.15 | 739 | 352 | 218 | 45.5 | 22.2 | 8.8 | 223.0 | 22.0 | 0.9 | 17 | <0.05 | <0.012 | 875 | 32.5 | 5.16 | 1.72 | 0.97 | 0.52 |
| DV | G-097148 | 10/7/2003 | 180 | 1260 | 6.97 | 698 | 340 | 206 | 43.6 | 22.0 | 8.4 | 212.0 | 22.0 | 0.6 | 16 | <0.05 | <0.01 | 868 | 30.5 | 5.44 | 1.90 | 0.97 | 0.50 |
| DV | G-097148 | 8/5/2004 | 180 | 1290 | 7 | 683 | 342 | 201 | 43.7 | 21.7 | 8.0 | 225.0 | 24.8 | 0.4 | 42.3 | <0.05 | 0.015 | 820 | 30 | 5.14 | 1.79 | 0.96 | 0.53 |
| DV | G-097148 | 4/25/2005 | 180 | 1260 | 7.1 | 614 | 336 | 183 | 37.6 | 20.9 | 6.0 | 264.0 | 23,0 | 0.4 | 35 | <0.05 | 0.01 | 804 | 29.2 | 5.01 | 1.80 | 0.94 | 0.51 |
| DV DV | G-097148 | 1/18/2005 | 180 | 1210 | 7.49 | 375 | 348 | 203 | 42.9 | 21.7 | 8.0 | 189.0 | 21.0 | 1.5 | 10 | <0.05 | <0.01 | /58 | 29.4 | 5.05 | 1.55 | 0.91 | 0.52 |
| DV | G-097148 | 4/26/2006 | 180 | 1150 | 7.29 | 668 | 340 | 197 | 42.7 | 22.0 | 7.6 | 193.0 | 21.0 | 0.4 | 17 | +0.05 | <0.01 | 824 | 27 | 5.34 | 1.87 | 0.92 | 0.49 |
| 0V | G-097148 | 10/19/2006 | 180 | 723 | 7.92 | 402 | 320 | 118 | 26.1 | 23.0 | 5.2 | 68.0 | 13.0 | 0.4 | 15 | <0.05 | <0.01 | 484 | 9.5 | 4.92 | 1.76 | 0.96 | 0.52 |
| DV | G-097148 | 5/1/2007 | 180 | 608 | 7.27 | 1640 | 277 | 84.71 | 19.5 | 24.4 | 3.2 | \$3.0 | 9.0 | 0,4 | 13.72 | <0.05 | <0.01 | 370 | 1.9 | 2.94 | 1.07 | 1.00 | 0.71 |
| DV DV | G-097148 | 7/26/2007 | 180 | 1024 | 8.01 | 453 | 319 | 132.56 | 29,3 | 17.6 | 5.7 | 315.0 | 25.0 | 0.3 | 15.48 | <0.05 | 0.03 | 648 | 19.9 | 2.11 | 0.80 | 1.06 | 0.88 |
| EN/ | 6-097148 | 5/14/2008 | 180 | 800 | 7.2 | 439 | 312 | 125.96 | 27.7 | 18.9 | 47 | 69.0 | 24.0 | 0.3 | 16.19 | +0.05 | *0.01 | 588 | 16.8 | 2.07 | 0.72 | 1.05 | 0.51 |
| OV | G-097148 | 9/10/2008 | 190 | 551 | 7.43 | 247 | 268 | 71.28 | 17.0 | 25.4 | 3.6 | 27.0 | 8.0 | 0.4 | 12.37 | <0.05 | <0.01 | 360 | 2.8 | 3.14 | 1.14 | 0.82 | 0.56 |
| DV | G-097148 | 5/12/2009 | 180 | 556 | 7.32 | 258 | 275 | 76.05 | 16.5 | 24.9 | 3.3 | 26.0 | 9.0 | 0.4 | 13.42 | <0.05 | <0.01 | 354 | 2.1 | 1.78 | 0.70 | 1.11 | 0.99 |
| DV | G-097148 | 11/5/2009 | 180 | 613 | 7.38 | 263 | 264 | 76.15 | 17.8 | 24.5 | 3.4 | 25.0 | 9.0 | 0.4 | 14.37 | +10.05 | <0.01 | 324 | 2.5 | 1.90 | 0.68 | 1.08 | 0.95 |
| DV DV | G-097148 G-097148 | 5/26/2010 | 180 | 726 | 7.57 | 361 | 326 | 110 | 20.9 | 14.2 | 5.3 | 67.0 | 7.0 | 0.4 | 14.08 | <0.05 | 0.01 | 428 | 1.0 | 1.90 | 0,73 | 1.07 | 0.93 |
| DV | G-097148 | 6/8/2011 | 180 | 579 | 7.36 | 255 | 270 | 74.41 | 17.0 | 23.0 | 3.2 | 23.0 | 9.0 | 0.4 | 14.71 | <0.05 | 0.01 | 344 | 1.9 | 1.94 | 0.70 | 0.95 | 0.83 |
| DV. | G-097148 | 11/1/2011 | 180 | 566 | 7.36 | 404 | 273 | 123.4 | 23.5 | 13.6 | 6.2 | 22.0 | 9.0 | 0.5 | 17.3 | <0.05 | <0.01 | 346 | 2 | 1.86 | 0.70 | 1.00 | 0.89 |
| DV | G-097148 | 5/23/2012 | 180 | 597 | 7.33 | 258.3 | 276 | 75.01 | 17.3 | 21.8 | 3.1 | 22.5 | 8.3 | 0.5 | 14.18 | <0.05 | 0.02 | 346 | 1.5 | 3.08 | 0.97 | 0.59 | 0.42 |
| DV | G-097148 | 12/3/2012 | 180 | 579 | 7.27 | 272.9 | 274 | 79.62 | 18.0 | 23.1 | 3.4 | 23.1 | 8.2 | 0.4 | 15.7 | <0.05 | <0.01 | 298 | 1.62 | 1.87 | 0.71 | 0.95 | 0.83 |
| EN2 | 6-097148 | 10/1/2013 | 180 | 569 | 7.32 | 2299-7 | 226 | 79.12 | 18.1 | 22.0 | 9.9 | 22.4 | 8.0 | 0.6 | 14.01 | +0.05 | <0.01 | 356 | 174 | 1.99 | 0.74 | 0.99 | 0.85 |
| DV | G-115762 | 7/2/2002 | 386 | 807 | 7.2 | 459 | 352 | 133 | 30.8 | 25.3 | 7.0 | 19.9 | 6.2 | 0.3 | 40.9 | <0.05 | 0.408 | 564 | 0.9 | 1.97 | 0.75 | 1.02 | 0.87 |
| DV. | G-115762 | 7/8/2008 | 186 | 840 | 7.32 | 467 | 338 | 130 | 34.0 | 25.3 | 7.6 | 107.0 | 6.0 | 0.4 | 21 | <0.05 | 0.19 | 568 | 2.1 | 3.32 | 1.27 | 1.10 | 0.73 |
| DV | G-115762 | 7/19/2004 | 386 | 893 | 6.8 | 417 | 340 | 114 | 31.7 | 24.8 | B.0 | 105.0 | 6.3 | 0.4 | 47.3 | <0.05 | 0,248 | 516 | 1.7 | 3.24 | 1.40 | 1.10 | 0.72 |
| DV | G-115762 | 7/11/2005 | 386 | 825 | 7.48 | 438 | 284 | 122 | 32.3 | 24.4 | 7.7 | 102.0 | 6.0 | 0.4 | 26 | <0.05 | 0.25 | 472 | 1.8 | 2.84 | 1.30 | 1.06 | 0.75 |
| DV | G-115762 | 7/17/2007 | 386 | 861 | 7.76 | 417 | 366 | 112 | 33.4 | 36.3 | 45 | 136.0 | 4.0 | 0.4 | 15.26 | <0.05 | 0.04 | 592 | 8.2 | 3.19 | 1.35 | 1.06 | 0.70 |
| OV | G-115762 | 7/28/2008 | 386 | 792 | 7.41 | 390 | 333 | 110.73 | 27.7 | 24.5 | 6.9 | 104.0 | 6.0 | 0.3 | 19.28 | <0.05 | 0.05 | 518 | 2.1 | 2.79 | 1.37 | 1.58 | 1.09 |
| DV | G-115762 | 7/7/2009 | 386 | 779 | 7.26 | 390 | 329 | 107.23 | 29.8 | 26.2 | 6.6 | 107.0 | 6.0 | 0.4 | 19.44 | +0.05 | <0.01 | 568 | 2.6 | 2.76 | 1.14 | 1.07 | 0.76 |
| DV | G-115762 | 7/18/2011 | 385 | 776 | 7.13 | NA | 327 | 98.75 | 28.1 | 25.6 | 7.7 | 105.0 | 6.0 | NA | NA | <0.05 | 0.04 | 546 | 2.1 | 2.68 | 1.23 | 1.14 | 0.81 |
| 00/ | 6.127257 | 8/19/2009 | 236 | 972 | 7.51 | 505 | 30.5 | 125 | 39.4 40.8 | 34.3 | 13.5 | 173.0 | 2.0 | 0.3 | 68.1 | 40.05 | 0.656 | 505 | -0.2 | 3.12 | 1,10 | 1.11 | 0.83 |
| DV. | G-127358 | 7/28/2004 | NA | 907 | 6.8 | 431 | 320 | 129 | 26.3 | 16.5 | 6.0 | 66.7 | 12.3 | 0.4 | 64.4 | <0.05 | 0.005 | 512 | 5.5 | 3.37 | 1.68 | 1.52 | 0.96 |
| DV | G-127358 | 4/12/2005 | NA | 795 | 7.1 | 420 | 302 | 128 | 24.4 | 15.4 | 6.0 | 65.0 | 9.5 | 0.4 | 44.7 | <0.05 | <0.01 | 500 | 6.2 | 3.22 | 1.08 | 0.72 | 0.49 |
| DV | G-127358 | 11/1/2005 | NA | 775 | 7.08 | 418 | 322 | 126 | 25.1 | 15.7 | 6.2 | 52.0 | 7.0 | 0.6 | 21 | <0.05 | <0.01 | 438 | 5.3 | 3.19 | 1.00 | 0.67 | 0.46 |
| DV DV | G-127358 | 4/25/2006 | NA | 753 | 7.29 | 427 | 327 | 129 | 25.4 | 15.6 | 6.5 | 64.0 | 9.0 | 0.4 | 19 | <0.05 | <0.01 | 504 | 5.5 | 3.14 | 1.03 | 0.68 | 0.67 |
| DV. | G-127358 | 4/27/2007 | NA | 756 | 7.64 | 350 | 328 | 121.9 | 24.7 | 16.9 | 5.9 | 61.0 | 9.0 | 0.3 | 20.6 | 0.01 | <0.01 | 466 | 5.6 | 3.24 | 1.04 | 0.67 | 0.46 |
| DV. | G-127358 | 9/4/2007 | NA | 779 | 7.98 | 386 | 321 | 115.92 | 23.4 | 13.7 | 6.4 | 60.0 | 9.0 | 0.5 | 18.68 | <0,05 | <0.01 | 476 | 5.9 | 3.04 | 1.02 | 0.73 | 0.51 |
| DV | G-127358 | 5/14/2008 | NA. | 681 | 7.12 | 374 | 313 | 113 | 22.3 | 14.2 | 4.3 | 55.0 | 9.0 | 0.3 | 18.65 | <0.05 | <0.01 | 478 | 6,5 | 2.89 | 0.96 | 0.60 | 0.43 |
| DV. | G-127358 | 12/10/2008 | NA | 716 | 7.34 | 356 | 314 | 106.88 | 21.6 | 15.0 | 6.2 | 50,0 | 11.0 | 0.3 | 17.23 | <0.05 | <0.01 | 476 | 7.2 | 2.82 | 0.92 | 0.62 | 0.45 |
| 04 | G-127358 G-127358 | 5/12/2009 | NA | 710 | 7.72 | 303 | 320 | 111.56 | 20.8 | 14.2 | 57 | 52.0 | 10.0 | 0.4 | 18.04 | 10.05 | <0.01 | 492 | 5.4 | 2.67 | 0.89 | 8.63 | 0.49 |
| DV | G-127358 | 5/26/2010 | NA | 734 | 7.15 | 371 | 313 | 113.29 | 21.6 | 13.3 | 5.7 | 51.0 | 11.0 | 0.4 | 18.1 | <0.05 | <0.01 | 476 | 5.4 | 2.78 | 0.92 | 0.61 | 0.45 |
| DV | G-127358 | 11/9/2010 | NA | 714 | 7.23 | 383 | 321 | 117.45 | 21.B | 12.9 | 5.6 | 51.0 | 10.0 | 0.4 | 19.75 | <0.05 | <0.01 | 392 | 4.6 | 2.83 | 0.89 | 0.58 | 0.42 |
| DV | G-127358 | 6/8/2011 | NA. | 713 | 7.16 | 341 | 317 | 103.19 | 20.4 | 12.2 | 5.4 | 48.0 | 10.0 | 0.4 | 18.92 | <0.05 | <0.01 | 446 | 5.2 | 2.93 | 0.90 | 0.56 | 0.41 |
| DV | G-127358 | 11/1/2011 | NA | 698 | 7.21 | 101 | 314 | 92.6 | 17.3 | 12.7 | 6.5 | 49.0 | 10.0 | 0.4 | 25.91 | <0.05 | 0.01 | 430 | 5 | 2.57 | 0.84 | 0.53 | 0.41 |
| DV DV | G-127358 | 12/3/2012 | NA | 743 | 7.24 | 391.8 | 320 | 118.9 | 21.5 | 13.7 | 0.0 | 50.7 | 9.7 | 0.4 | 21.7 | 40.05 | <0.01 | 400 | 5.89 | 2.65 | 0.87 | 0.55 | 0.45 |
| DV | G-127358 | 5/23/2013 | NA | 746 | 7.22 | 377.7 | 316 | 115.1 | 21.9 | 13.2 | 5.7 | 49.8 | 9.6 | 0.4 | 19.74 | <0.05 | -0.01 | 432 | 4.99 | 2.97 | 0.95 | 0.60 | 0.43 |
| DV | G-127358 | 10/1/2013 | NA | 719 | 7.22 | 374.8 | 322 | 113.9 | 22.0 | 13.5 | 5.8 | 51.6 | 9.5 | 0.3 | 18.7 | <0.05 | <0.01 | 486 | 4.62 | 2.87 | 0.90 | 0.57 | 0.42 |
| DV | G-137713 | 11/22/2005 | 237 | 627 | 7.77 | 306 | 282 | 92 | 18.5 | 18,9 | 7.4 | 50.0 | 6.0 | 0.2 | 19 | <0.05 | 0.6 | 360 | <0.Z | 2.84 | 0.90 | 0.59 | 0.43 |
| DV | 6-137713 | 1/18/2006 | 237 | 614 | 7.6 | 324 | 282 | 98 | 19.3 | 19.3 | 7.8 | 51.0 | 5.0 | 0.6 | 20 | <0.05 | 0.47 | 372 | 0.3 | 2.30 | 0.76 | 0.82 | 0.67 |
| DV. | G-137713 | 7/12/2006 | 237 | 623 | 7.84 | 333 | 294 | 101 | 19.6 | 21.1 | 6.8 | 47.0 | 5.0 | 0.2 | 18 | <0.05 | 0.55 | 347 | -0.2 | 2.35 | 0.75 | 0.84 | 0.65 |
| DV | G-137713 | 10/5/2006 | 237 | 607 | 7.82 | 315 | 274 | 95 | 19.0 | 19.4 | 7.3 | 51.0 | 6.0 | 0.3 | 19 | +0.05 | 0.53 | 364 | +0.2 | 2.52 | 0.81 | 0.92 | 0.71 |
| OV | G-137713 | 2/1/2007 | 237 | 617 | 7.69 | 268 | 290 | 80.55 | 16,0 | 15.6 | 5.6 | 49.0 | 6.0 | 0.5 | 17.32 | <0.05 | 0.44 | 374 | <0.2 | 2.37 | 0.78 | 0.84 | 0.67 |
| DV | 6-137713 | 4/18/2007 | 237 | 606 | 7.61 | 289 | 276 | 87.23 | 17.4 | 17.3 | 6.5 | 49.0 | 6.0 | 0.3 | 17.18 | <0.05 | 0.45 | 404 | <0.2 | 2.01 | 0.66 | 0.68 | 0.59 |
| DV DV | 6-137713 | 7/3/2007 | 237 | 605 | 7.95 | 278 | 269 | 83.8 | 15.6 | 15.8 | 5.9 | 47,0 | 5.0 | 0.4 | 19.28 | <0.05 | 0.44 | 362 | +0.2 | 2.18 | 0.72 | 0.75 | 0.63 |
| DV | 6-137713 | 5/20/2009 | 237 | 580 | 7.42 | 285 | 273 | 86.83 | 16.5 | 18.8 | 6.5 | 49.0 | 5.0 | 0.3 | 17.85 | 0.01 | 0.46 | 402 | 0.6 | 2.03 | 0.65 | 0.77 | 0.65 |
| OV | G-137713 | 9/21/2011 | 237 | 587 | 7.68 | 292 | 278 | 89.35 | 16.9 | 18.0 | 7.1 | 49.0 | 6.0 | 0.3 | 19.92 | <0.05 | 0.42 | 382 | =0.2 | 2.17 | 0.68 | 0.82 | 0.68 |
| DV | G-137714 | 11/22/2005 | 220 | 673 | 7.83 | 277 | 281 | 83 | 18.9 | 50.3 | 6.8 | 68.0 | 6.0 | 0.2 | 19 | <0.05 | 0.55 | 396 | <0.2 | 2.23 | 0.69 | 0.78 | 0.65 |
| DV | G-137714 | 1/18/2006 | 220 | 673 | 7.72 | 292 | 307 | 88 | 17.5 | 49,2 | 7.3 | 67.0 | 5.0 | 0.6 | 20 | *10.05 | 0.59 | 396 | <0.2 | 2.07 | 0.70 | 2.19 | 1.86 |
| DV | G-137714 | 4/19/2006 | 220 | 663 | 7.46 | 276 | 295 | 83 | 16.7 | 54.2 | 7.3 | 69.0 | 5.0 | 0.2 | 21 | <0.05 | 0.53 | 438 | <0.2 | 2.20 | 0,72 | 2.14 | 1.77 |
| | | 2.2.1.2.2.2.0.00 | 1.000 | 0.000 | 1.14 | 2149 | | 10.4 | 17.6 | 54.2 | D.D. | 62.0 | 9.13 | 0.2 | 19 | 00.05 | 11.62 | - 400 | -001.2 | 2.02 | C3.000 | 2.30 | 2.01 |

| | | | | | | | | | | | | | | | | | Total | | Calcium in | in | Sodium in | Sofin |
|----------|---------------|----------------------------|---------------------------------------|------------|--------------|----------------------|------------------|--------|--------------|--------|---|----------|----------|---|-------|---------------|-----------|-------------|--------------|--|-----------------|-----------------------|
| | | Depth, | in Specific | | | Alkalinity as | | | | | | | | | | | dissolved | 1 14 | millequivale | millequivale r | millequivale | Adsorpt |
| lource | Site | Date feet | conductance | pH, in | Hardness | CaCOS | Calcium Mag | nesium | Sodium Potas | sium 5 | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | solids | Nirate as N | nts | nts | nts | Ratio |
| DV. | 6-137714 | 10/5/2006 | 220 | 663 | 7.93 | 280 3 | P94 B4 | 17.0 | 48.7 | 65 | 61.0 | 5.0 | 0.5 | 19 | +0.05 | 0.63 | 412 | -0.2 | 2.22 | 0.72 | 2.53 | 2.09 |
| DV. | G-137714 | 1/29/2007 | 220 | 672 | 7.8 | 249 5 | 907 75.43 | 15.1 | 42.7 | 6.2 | 55.0 | 5.0 | 0.5 | 18.81 | +0.05 | 0.55 | 386 | <0.2 | 2.10 | 0.70 | 2.10 | 1.77 |
| DV | G-137714 | 4/20/2007 | 220 | 657 | 7.52 | 279 2 | 83.55 | 16.8 | 41.2 | 6.4 | 54.0 | 5.0 | 0.2 | 18.77 | <0.05 | 0.58 | 414 | <0.2 | 1.88 | 0.62 | 1.86 | 1.65 |
| DV. | G-137714 | 6/25/2007 | 220 | 652 | 7.79 | 249 7 | 117 73.64 | 15.5 | 39.4 | 6.1 | 41.0 | 4.0 | 0.2 | 18.29 | <0.05 | 0.59 | 396 | <0.2 | 2.05 | 0.69 | 1.79 | 1.52 |
| OV | G-137714 | 6/26/2008 | 220 | 662 | 7.94 | 270 5 | 801 81.63 | 16.2 | 35.0 | 6.4 | 44.0 | 5.0 | 0.2 | 20.1 | +0.05 | 0.65 | 404 | <0.2 | 1.84 | 0.64 | 1.71 | 1.54 |
| 0V | G-137714 | 9/9/2009 | 220 | 685 | 7.42 | 307 3 | 337 91,94 | 18.7 | 34.2 | 7.1 | 35.0 | 3.0 | 0.3 | 19.95 | 0.01 | 0.69 | 412 | <0.2 | 2.04 | 0.67 | 1.52 | 1.31 |
| DV DV | G-137714 | 9/21/2011 | 220 | 548 | 7.76 | 318 3 | 539 96.08 | 19.1 | 22.5 | 6.6 | 37.0 | 3.0 | 0.3 | 22.08 | *0.05 | 0.6 | 430 | -0.2 | 2.29 | 0.77 | 1.49 | 1.20 |
| EN . | 6-137715 | 1/19/2005 | 187 | 752 | 7.69 | 404 3 | 120 121 | 20.0 | 21.4 | 8.9 | 87.0 | 5.0 | 0.2 | 17 | <0.05 | 0.00 | 444 | -0.2 | 2.90 | 1.02 | 0.30 | 0.70 |
| EN/ | 6-137715 | 4/19/2006 | 287 | 728 | 7.21 | 309 5 | 357 119 | 24.7 | 20.4 | 7.7 | 88.0 | 5.0 | 0.4 | 20 | +0.05 | 0.42 | 498 | <0.2 | 3.02 | 1.07 | 0.95 | 0.65 |
| OV | G-137715 | 10/5/2006 | 287 | 738 | 8.01 | 415 | 321 124 | 25.7 | 21.3 | 8.0 | 89.0 | 7.0 | 0.3 | 18 | +0.05 | 0.49 | 462 | +0.2 | 2.97 | 1.02 | 0.89 | 0.63 |
| OV | G-137715 | 2/1/2007 | 287 | 748 | 8 | 340 1 | 122 101.41 | 21.6 | 17.6 | 6.5 | 88.0 | 6.0 | 0.4 | 16.59 | <0.05 | 0.39 | 464 | <0.2 | 3.09 | 1.05 | 0.93 | 0.64 |
| DV | G-137715 | 4/18/2007 | 287 | 740 | 7.6 | 367 3 | 108.91 | 23.0 | 18.8 | 7.0 | 86.0 | 6.0 | 0.2 | 16.22 | +0.05 | 0.4 | 474 | <0.2 | 2.53 | 0.68 | 0.76 | 0.58 |
| OV | G-137715 | 10/9/2008 | 287 | 688 | 7.64 | 330 3 | 311 100 | 19.5 | 17.6 | 6.2 | 83.0 | 5.0 | 0.2 | 16 | 0.01 | 0.2 | 436 | <0.2 | 2.72 | 0.94 | 0.82 | 0.60 |
| DV | 6-137715 | 6/30/2011 | 287 | 712 | 7.3 | 335 1 | 119 100.27 | 20.6 | 18.1 | 6.4 | 81.0 | 6.0 | 0.4 | 57.47 | 0.01 | 0.73 | 468 | <0.2 | 2.50 | 0.60 | 0.77 | 0.60 |
| 101/ | G-155600 | 7/9/2010 | 360 | 719 | 7.36 | 290 3 | 82.32 | 20,8 | 46.6 | 5.8 | 80.0 | 4.0 | 0.4 | 18.91 | 0.01 | 0.62 | 388 | <0.2 | 2.50 | 0.85 | 0.79 | 0.61 |
| OV | G-155600 | 6/14/2011 | 360 | 853 | 7.21 | 269 4 | 136 75.64 | 19.3 | 95.7 | 3.7 | 15.0 | 5.0 | 0.6 | 20.55 | 0.16 | 1.12 | 548 | <0.2 | 2.05 | 0.85 | 2.03 | 1.68 |
| DV . | G-155600 | 6/30/2011 | 360 | 843 | 7.26 | 260 4 | 545 71.69 170 | 19.6 | 01.1 | 3.9 | 8.0 | 5.0 | 0.5 | 20.61 | 0.03 | 1.09 | 524 | 17.8 | 1.89 | 0.79 | 4.16 | 3.59 |
| DV Pol | NR-999UBene | s 8/10/2001 | NA | 10/0 | 7.31 | 605 | 518 1/0 | 45.1 | 21.5 | 7.8 | 165,0 | 12.0 | 0.4 | 20 | 00,05 | <0.01 | 962 | 18.2 | 1.79 | 0.80 | 3.96 | 5.48 |
| 104 | NR-9990/bene | 5 9728/2002 - 7/23/2002 | NA | 1040 | 22 | 500 J | 201 201 | 39.0 | 19.1 | 8.0 | 242.0 | 10.3 | 0.4 | 63.3 | -0.05 | <0.015 | 669 | 12 | 4.13 | 3.47 | 0.9% | 0.94 |
| DV. | NR-999t Bene | \$/26/1994 | NA | 683 | 7 | 310 2 | 272 95 | 20.0 | 13.0 | 53 | 41.0 | 2.9 | 0.4 | 47 | <0.05 | 0.001 | 432 | 11 | 3.69 | 1.30 | 0.83 | 0.53 |
| DV | NR-999LBerter | 7/25/1995 | NA | 700 | 7 | 310 | 271 92 | 20.0 | 13.0 | 5.2 | 40.0 | 3.0 | 0.4 | 45 | +0.05 | <0.01 | 439 | 13 | 2.27 | 0.82 | 0.57 | 0.45 |
| DV | NR-999LBene | 8/6/1996 | NA | 620 | 7.1 | 308 | 270 100 | 19.0 | 10.0 | 4.2 | 76.0 | 2.4 | 0.43 | 48 | +0.05 | <0.01 | 430 | 21 | 2.30 | 0.82 | 0.57 | 0.45 |
| OV | NR-999LBene | 7/29/1997 | NA | 633 | 6.9 | 300 2 | 280 0.7 | 23.0 | 6.0 | 5.4 | 45.0 | 2.6 | 0.5 | 0.65 | 0.1 | <0.01 | 410 | 36 | 2.50 | 0.78 | 0.44 | 0.34 |
| OV | NR-999LBerrer | 8/12/1998 | NA | 656 | 7.2 | 324 2 | 130 | 35.0 | 65.0 | 8.0 | 35.0 | 2.4 | 0.25 | NA | NA | NA | 460 | 9.7 | 0.02 | 0.95 | 0.26 | 0.58 |
| OV | NR-999LBene: | ; 7/26/1999 | NA | 672 | 7.4 | 369 3 | 272 107 | 24,5 | 14.0 | 4.9 | 41.0 | 4.0 | 0.2 | 23 | +0.05 | <0.01 | 463 | 13.1 | 3.24 | 1.44 | 2.83 | 1.85 |
| OV | NR-999LBene | 8/3/2000 | NA | 681 | 7.16 | 365 2 | 280 107 | 23.3 | 13.8 | 5.1 | 64.0 | 3.0 | 0.4 | 22 | <0.05 | <0.01 | 418 | 16.7 | 2.67 | 1/01 | 0.61 | 0.45 |
| DV | NR-999LBerter | 7/24/2001 | NA | 698 | 7.02 | 365 1 | 108 | 22.8 | 15.0 | 5.3 | 42.0 | 5.0 | 0.4 | 22 | +0.05 | <0.01 | 440 | 14.8 | 2.67 | 0.96 | 0.60 | 0.45 |
| OV | NR-999LBene | \$ 7/23/2002 | NA | 688 | 7 | 328 2 | 254 98.9 | 19.6 | 12.5 | 3.0 | 39.1 | 3.5 | 0.4 | 47.3 | <0.05 | <0.01 | 488 | 9.6 | 2.69 | 0.94 | 0.65 | 0.48 |
| DV. | NR-999LBerter | 8/5/2008 | NA | 691 | 6.86 | 362 2 | 280 113 | 23.4 | 14.2 | 5.5 | 39.0 | 4.0 | 0.5 | 22 | <0.05 | <0.01 | 420 | 15.1 | 2.47 | 0.81 | 0.56 | 0.42 |
| 00 | MR-0000 Bener | 8/5/2005 | DLA. | 700 | 6.89 | 356 2 | 34 109 | 22.6 | 13.9 | 5.1 | 32.0 | 0.0 | 0.4 | 10.0 | +0.05 | *0.01 | 424 | 10.2 | 2.82 | 0.96 | 0.60 | 0.45 |
| 00 | AR-335GBCIC | 0/6/1004 | NA | 720 | 23 | 339 1 | 105 005 | 27.0 | 32.0 | 13.0 | 92.0 | 41 | 0.4 | 50 | 6.15 | 0.45 | 481 | +0.2 | 2.62 | 0.93 | 0.64 | 0.45 |
| EN/ | NR. | 7/24/1995 | NA | 777 | 74 | 320 3 | 12 85 | 26.0 | 32.0 | 22.0 | 37.0 | 3.8 | 03 | 50 | 0.23 | 0.45 | 457 | 0.05 | 2.25 | 1.11 | 1 39 | 1.07 |
| DV. | NR- | 8/20/1996 | NA | 660 | 7.8 | 317 2 | 90 92 | 25.0 | 30.0 | 9.2 | 39.0 | 33 | 0.4 | 49 | 0.3 | 0.39 | 480 | <0.2 | 2.15 | 1.07 | 1.39 | 1.10 |
| DV. | NB- | 7/21/1996 | NA | 664 | 7.4 | 336 5 | 376 83 | 28.0 | 7.0 | 9.5 | \$3.0 | 2.9 | 0.6 | NA | NA | NA | 508 | 2.4 | 2.30 | 1.03 | 1.31 | 1.01 |
| OV | NB- | 8/4/1999 | NA | 773 | 7.53 | 370 3 | 379 97 | 31.3 | 39.9 | 12.5 | 46.0 | 4.0 | 0.4 | 23 | <0.05 | 0.45 | 523 | <0.2 | 2.07 | 0.95 | 0.30 | 0.25 |
| DV | NR- | 10/3/2000 | NA | 750 | 7.54 | 366 1 | 189 98 | 29.2 | \$7.6 | 12.4 | 41.0 | 4.0 | 0.4 | 23 | <0.05 | 0.44 | 477 | <0.2 | 2.42 | 1.29 | 1.74 | 1.27 |
| OV | NR- | 8/23/2001 | NA. | 795 | 7.5B | 377 3 | 101 101 | 30.1 | 40.4 | 13.1 | 44.0 | 3.0 | 0.3 | 24 | 0.04 | 0.47 | 477 | ×0.2 | 2.45 | 1.20 | 1.64 | 1.21 |
| DV | NR- | 9/18/2002 | NA. | 798 | 7.4 | 336 3 | 92.3 | 25.6 | 38.6 | 13.0 | 44,7 | 4.0 | 0.3 | 52.7 | 0.172 | 0.455 | 532 | <0.2 | 2.52 | 1.24 | 1.76 | 1.28 |
| DA, | NB- | 8/8/2008 | NA | 775 | 7.59 | 376 3 | 101 | 29.9 | 42.0 | 11.7 | 44.0 | 8.0 | 0.3 | 22 | <0.05 | 0.41 | 550 | <0.3 | 2.30 | 1.05 | 1.68 | 1.30 |
| OV | NR- | 9/13/2004 | NA | 798 | 7,4 | 333 3 | 379 89.7 | 26.3 | 36.9 | 12.0 | 41.7 | 4.3 | 0.4 | 51.3 | 0.166 | 0.423 | 468 | <0.2 | 2.52 | 1.23 | 1.83 | 1.33 |
| DV. | NR- | 9/28/2007 | NA | 771 | 8.24 | 330 3 | 969 87.69 | 26.8 | 34.0 | 10.7 | 39.0 | 4.0 | 0.4 | Z1.9 | 0.02 | 0.44 | 468 | <0.2 | 2.24 | 1.08 | 1.61 | 1.25 |
| 00 | MD. | 6/14/2000 | NA. | 774 | 7.32 | 346 3 | 10.30 | 20.0 | 37.0 | 11.0 | 20.0 | 2.0 | 0.4 | 12.42 | 0.01 | 0.44 | 400 | -0.2 | 2.25 | 1.10 | 1.40 | 1.15 |
| DV. | 12N SE 2480 | 1 8/14/1005 | 91 | 754 | 7.5 | 361 | NA 110 | 22.0 | 14.0 | 8.8 | 60.0 | 7.6 | 0.3 | 35 | 5 | 520 | 412 | N.L. | 2.34 | 1.05 | 1.48 | 1.14 |
| EW | 12N 5E348D | 1 6/5/1970 | 55 | 755 | 7.3 | 310 3 | 91 85 | 23.0 | 39.0 | 9.2 | 70.0 | 13.0 | 0.4 | 48 | 9700 | 1350 | 492 | NA | 2.74 | 0.86 | 0.61 | 0.45 |
| DV. | 12N SE3SDA | 1 6/5/1970 | 120 | 809 | 7.3 | 370 3 | 83 114 | 21.0 | 37.0 | 6.1 | 31.0 | 18.0 | 0.3 | 38 | 20 | 330 | 558 | 23 | 2.15 | 0.95 | 1.70 | 1.36 |
| OV | 12N 68 98D | 1 12/9/1960 | NA | 627 | 7.8 | 280 1 | 143 80 | 18.0 | 18.0 | NA. | 21.0 | 7.5 | 0.5 | 28 | 190 | NA. | NA | NA | 2.84 | 0.86 | 1.61 | 1.18 |
| OV | 13N 3E13DA | 1 8/18/1977 | 422 | 690 | 7.7 | 310 3 | 890 87 | 23.0 | 21.0 | 7.1 | 37.0 | 5.6 | 0.4 | 53 | 70 | 240 | 427 | NA | 2.00 | 0.74 | 0.78 | 0.67 |
| DV | 13N 4E-6CDB | CI 8/23/1994 | 312 | 830 | 7,3 | 394 | NA 110 | 29.0 | 20.0 | 8.1 | 100.0 | 5.9 | 0.4 | 49 | 6 | 67 | 530 | NA | 2.17 | 0.95 | 0.91 | 0.73 |
| DV | 15N 4E 6CDB | C: 7/27/1995 | 313 | 825 | 7.1 | 394 | NA 110 | 29.0 | 20.0 | 7,5 | 97.0 | 5.5 | 0.4 | 47 | < 3.0 | 240 | 480 | NA | 2.74 | 1.19 | 0.87 | 0.62 |
| DV | 13N 4E20080 | XA 9/6/1994 | NA. | 776 | 7.3 | 336 | NA 90 | 27.0 | 32.0 | 13.0 | 39.0 | 4.1 | 0.3 | 50 | 150 | 450 | 481 | NA | 2.74 | 1.19 | 0.87 | 0.62 |
| OV. | 13N 4E20080 | M 7/24/1995 | NA | 777 | 7.4 | 322 | NA BS | 26.0 | 32.0 | 22.0 | 37.0 | 8.8 | 0.3 | 50 | 210 | 450 | 457 | NA | 2.25 | 1.11 | 1.39 | 1.07 |
| OV | 13N 5E15884 | 6 8/26/1994 | 76 | 553 | 7 | 310 | NA 91 | 20.0 | 13.0 | 5.3 | 41.0 | 2.9 | 0.4 | 47 | < 3.0 | 1 | 432 | NA | 2.15 | 1.07 | 1.39 | 1.10 |
| DM DM | 13N 5515884 | 0 7/23/1995 | 83 | 510 | 23 | 321 | NA 92 | 20.0 | 13.0 | 70 | 44.0 | 3.0 | 0.4 | 42 | < 5.0 | ~ 1.00 ESD | 459 | NA. | 2.35 | 0.60 | 0.70 | 0.55 |
| 02 | 134 5615040 | C 7/24/1995 | 191 | 781 | 7.2 | 353 | NA 100 | 21.0 | 15.0 | 9.0 | 69.0 | 65 | 0.3 | 35 | 170 | 390 | 433 | NA. | 2.30 | 0.82 | 0.57 | 0.45 |
| ENV. | 135 5623040 | A 8/16/1994 | NA | 790 | 7.7 | 430 | 41 130 | 25.0 | 13.0 | 7.0 | 81.0 | 13.0 | 0.0 | 55 | 43.0 | 25 | 545 | 5.8 | 2.50 | 1.03 | 0.65 | 0.40 |
| OV | 13N 5E27AAE | 1 7/25/1995 | 120 | 870 | 7.2 | 411 | NA 120 | 27.0 | 23.0 | 7.7 | 96.0 | 65 | 0.3 | 38 | 300 | 720 | 541 | NA | 3.24 | 1.07 | 0.57 | 0.39 |
| OV | 13N GE14CCB | A 8/18/1994 | 123 | 626 | 7.6 | 292 | NA 89 | 17.0 | 18.0 | 5.3 | 45.0 | 2.6 | 0.3 | 45 | 6 | < 1.00 | 397 | NA | 2.99 | 1.11 | 1.00 | 0.70 |
| OV | 13N 6E14CC8 | A 7/27/3995 | 123 | NA | NA. | 288 | NA 89 | 16.0 | 18.0 | 4.6 | 39.0 | 2.3 | 0.3 | 44 | 10 | < 1.00 | 373 | NA | 2.22 | 0.70 | 0.78 | 0.65 |
| OV | 13N 6E20ABD | C 8/29/1994 | 235 | 399 | 7 | 151 | NA 45 | 9.4 | 20.0 | 4.4 | 7.2 | 2.4 | 0.3 | 50 | 20 | 1 | 262 | NA | 2.22 | 0.66 | 0.78 | 0.65 |
| OV | 13N 6E20ABD | C 8/15/1995 | 235 | 632 | 7.1 | 294 | NA B8 | 18,0 | 19.0 | 5.4 | 66.0 | 2.5 | 0.2 | 46 | < 3.0 | 21 | 412 | NA | 1.12 | 0.39 | 0.87 | 1,00 |
| DV | 13N 6E2BAAB | 8 8/26/1994 | NA | 441 | 6.9 | 170 1 | 174 46 | 13.0 | 21.0 | 3.7 | 18.0 | 2.0 | 0.3 | 49 | | 1 | 290 | 7.6 | 2.20 | 0.74 | 0.83 | 0.68 |
| 10V | 14N 4E17CB | 1 8/19/1977 | 324 | 905 | 7.5 | 460 4 | 130 | 33.0 | 20.0 | 4.3 | 170.0 | 2.8 | 0.3 | 47 | 80 | 460 | 621 | NA | 1.15 | 0.53 | 0.91 | 1.00 |
| OV | 14N SE12AC | 1 6/29/1948 | NA | 483 | 8 | 210 2 | 234 47 | 23.0 | 20.0 | 5.6 | 68.0 | 6.0 | 0.2 | 45 | NA | NA | 330 | NA | 3.24 | 1.36 | 0.87 | 0.57 |
| DV | 14N SE32DCC | 0 8/29/1994 | 80 | 778 | 7.3 | 365 | NA 110 | 22.0 | 18.0 | 5.9 | 58.0 | 8.2 | 0.3 | 43 | 160 | 33 | 479 | NA | 1.17 | 0.95 | 0.87 | 0.85 |
| VO | 14N SE32DCC | 0 8/15/1995 | 80 | 737 | 7.4 | 365 | NA 110 | 22.0 | 18.0 | 4.8 | 45.0 | 6.9 | 0.3 | 39 | 11 | 20 | 445 | NA | 2.74 | 0.91 | 0.7B | 0.58 |
| OV. | 15N BE20CBC | 1 8/19/1977 | 404 | 675 ECD | 7.0 | 330 1 | 96 | 22.0 | 24.0 | 7.6 | 65.0 | 3.2 | 0.3 | 39 | 40 | 400 | 445 | NA | Z.74 | 0.91 | 0.78 | 0.58 |
| DV DA | 15N 4E10CAL | 12.6 | 138 | 3040 | 7.2 | 250 2 | 210 76 | 15.0 | 14.0 | 5.0 | 75.0 | 17.0 | 0.2 | 51 | 250 | 0.485 | 381 | NA. | 1,00 | 0.01 | 1.04 | 0.81 |
| RA BA | G-028518 | 12-A02-04 | NA | 1040 | 7.2 | 4/6 3 | 132 | 35.3 | 20.6 | 5.0 | 162.0 | 32 | 0.3 | 54.2 | 50.05 | 289.0 | 360 | 1.9 | 1.90 | 1.62 | 0.61 | 0.54 |
| 84 | 6.028518 | 21.4-0.06 | NA | 892 | 7.58 | 509 | 51 142 | 36.9 | 10.0 | 4.2 | 102.0 | 10 | 0.2 | 24 | 03.05 | 0.47 | 500 | 1.5 | 3,20 | 1.50 | 0.90 | 0.57 |
| 10.0 | G-028518 | 20-jun-07 | NA | 850 | 7.87 | 436 | 172 172 65 | 30.9 | 17.2 | 27 | 161.0 | 30 | 0.2 | 12.95 | <0.05 | 0.42 | 596 | 15 | 3.57 | 1.52 | 0.86 | 0.54 |
| 10.45 | | and a Mill Mill | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10000 | - C 100 C 11 | | | | 1.4.1 | | 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | the second se | | | | | 1000 | and the second sec | 1.4 million 1.4 | and the second of the |

| | | | | | | | | | | | | | | | | | | 22127-2210 | | 12122-010123 | nugressum, | 121122-00124 | 1102102100 |
|---------------|---|------------|----------|---------------|--------|----------|---------------|---------|-----------|--------|-----------|---------|----------|----------|--------|---------|-----------|------------|-------------|--------------|----------------------|----------------------------|---------------------|
| | | | Death in | Specific | | | Alkalinity as | | | | | | | | | | | Total | | Calcium, in | in millenuivale r | Sodium, in nilleculcule | Sodium Adsorptio |
| Source | Site | Date | feet | conductance | pH, in | Hardness | CaCOS | Calcium | Magnesium | Sodium | Potassium | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | solids | Nirate as N | nts | nts | nts | Ratio |
| 84 | G-028518 | 09-lup-09 | N | 91/ | 7.14 | 447 | 323 | 127.16 | 31.5 | 20.0 | 43 | 164.0 | 2.0 | 0.3 | 20.34 | 40.05 | 0.44 | 607 | 12 | 3.10 | 1.33 | 0.78 | 0.53 |
| RA | G-028518 | 18-May-10 | N | 861 | 7.12 | 439 | 325 | 127.4 | 29.5 | 19.6 | 4.3 | 156.0 | 2.0 | 0.3 | 19.72 | -0.05 | 0.43 | 588 | 1 | 8.17 | 1.30 | 0.87 | 0.58 |
| RA | G-028518 | 06-Jun-12 | N | 856 | 7.1 | 462.2 | 332 | 129.4 | 33.B | 18.7 | 4.0 | 162.0 | 2.3 | 0.3 | 23.43 | <0.05 | 0.48 | 614 | 1.4 | 3.18 | 1.21 | 0.85 | 0.58 |
| RA | G-028518 | 21-Aug-03 | N | 1 893 | 7.14 | 535 | 336 | 352 | 37.1 | 19.9 | 5.2 | 164.0 | 3.0 | 0.4 | 21 | <0.05 | 0.22 | 616 | 1.6 | 3.23 | 1.39 | 0.81 | 0.53 |
| RA, | G-028519 | 12-Aug-04 | N | 1050 | 7.2 | 476 | 336 | 132 | 35.3 | 19.8 | 4.0 | 155.0 | 3.0 | 0.3 | 53.6 | 0.096 | 0.699 | 568 | 1.8 | 3.79 | 1.53 | 0.87 | 0.53 |
| RA | G-028519 | 17-Aug-05 | N | 891 | 7.12 | 502 | 344 | 140 | 37.0 | 20.3 | 4.7 | 143.0 | 2.0 | 0.3 | 22 | <0.05 | 0.65 | 574 | 1.5 | 3.29 | 1,45 | 0.86 | 0.56 |
| RA | G-028519 | 21-Aug-06 | N | 892 | 7.67 | 517 | 350 | 145 | 37.7 | 19.6 | 8.8 | 146.0 | 1.0 | NA. | 24 | <0.05 | 0.66 | 580 | 1.7 | 3.49 | 1.52 | 0.86 | 0.56 |
| RA RA | 6-028519 | 20-Jun-07 | | 010 | 7.75 | 420 | 341 | 113.96 | 32.8 | 49.6 | 5.7 | 152.0 | 12.0 | 0.3 | 12.95 | 40.05 | 0.3 | 392 | 1.8 | 2.02 | 1,55 | 0.85 | 0.55 |
| RA | G-028519 | 09-Jun-09 | N | 921 | 2.12 | 426 | 543 | 121.01 | 30.0 | 12.6 | 41 | 154.0 | 2.0 | 0.2 | 19.8 | 0.01 | 0.54 | 656 | 1.5 | 2.34 | 0.67 | 1.85 | 1.45 |
| RA | G-028519 | 18-May-10 | N | 878 | 7.1 | 458 | 334 | 131.84 | 31.1 | 18.4 | 4.4 | 160.0 | 2.0 | 0.3 | 20.67 | <0.05 | 0.56 | 604 | 1.5 | 3.02 | 1.24 | 0.76 | 0.52 |
| RA. | G-028519 | 06-Jun-12 | N | 890 | 7.1 | 481.5 | 343 | 133.4 | 36.0 | 18.2 | 4.2 | 165.0 | 2.2 | 0.2 | 23.44 | <0.05 | 0.67 | 636 | 1.4 | 3.29 | 1.28 | 0.80 | 0.53 |
| RA | G-028519 | 21-Aug-03 | N | NA NA | 7.05 | 540 | 346 | 153 | 37.7 | 19.4 | 4.7 | 151.0 | 2.0 | 0.3 | 22 | +0.05 | 0.59 | 614 | 1.7 | 3.33 | 1.48 | 0.79 | 0.51 |
| RA. | G-028520 | 12-Aug-04 | N | 1090 | 7.2 | 501 | 342 | 137 | 38.4 | 21.6 | 5.0 | 170.0 | 3.8 | 0.3 | 53.6 | 0.142 | 0.204 | 612 | 2.2 | 3.82 | 1.55 | 0.84 | 0.52 |
| RA. | G-028520 | 19-Aug-05 | N | 935 | 7.35 | 534 | 141 | 346 | 41.1 | 22.7 | 4.4 | 171.0 | 3.0 | 0.3 | 24 | +0.05 | 0.21 | 608 | 2.4 | 3.42 | 1.58 | 0.94 | 0.59 |
| RA | G-028520 | 09-Jun-09 | N | 1005 | 7.11 | 480 | 330 | 129.82 | 37.7 | 22.1 | 5.6 | 200.0 | 2.0 | 0.3 | 22.81 | <0.05 | 0.65 | 624 | 2.6 | 3.64 | 1.69 | 0.99 | 0.60 |
| 84 | G-028320 | 21-Wig-05 | 14 | 93 | 7.05 | 340 | 549 | 106 | 40.5 | 2210 | 2.6 | 166.0 | 2.0 | 0.4 | 23 | -0.05 | 0.17 | 0.00 | -0.2 | 3.24 | 1.50 | 0.96 | 0.62 |
| 84 | 6-032956 | 26-Jun 06 | | 685 | 7.99 | 366 | 326 | 111 | 21.5 | 24.6 | 8.4 | 52.0 | 7.0 | 0.3 | 19 | :0.05 | 0.85 | 434 | <0.2 | 2.64 | 0.84 | 1.06 | 0.80 |
| RA | G-012956 | 07-juj-07 | | L 095 | 8.09 | 309 | 320 | 93.04 | 18.7 | 21.4 | 6.5 | 54.0 | 5.0 | 0.3 | 19.05 | <0.05 | 0.7 | 432 | <0.2 | 2.77 | 0.88 | 1.07 | 0.79 |
| RA | G-032956 | 28-Jul-09 | g | 1 761 | 7.36 | 331 | 325 | 99.75 | 19.B | 25.8 | 7.6 | 57.0 | 8.0 | 0.3 | 19.23 | <0.05 | 0.72 | 450 | <0.2 | 2.32 | 0.77 | 0.93 | 0.75 |
| RA. | G-034779 | 20-Jul-04 | 12 | 641 | 6.8 | 299 | 275 | 90.6 | 17.5 | 19.9 | 5.0 | 43.6 | 3.1 | 0,3 | 45.5 | <0.05 | <0.01 | 388 | 1.2 | 2.49 | 0.82 | 1,12 | 0.87 |
| RA. | G-034779 | 26-Jun-06 | 32 | 1. 585 | 7.63 | 310 | 283 | 95 | 17.1 | 18.3 | 5.1 | 41.0 | 3.0 | 0.2 | 20 | <0.05 | <0.01 | 344 | 0.9 | 2.26 | 0.72 | 0.87 | 0.71 |
| RA. | G-034779 | 02-Jul-07 | 12 | 588 | 8.05 | 254 | 265 | 78 | 14.3 | 16.5 | 4.1 | 41.0 | 3.0 | 0.4 | 20 | <0.05 | <0.01 | 378 | 1 | 2.40 | 0.70 | 0.80 | 0.64 |
| RA. | G-034779 | 30-Jul-08 | 12 | 3 599 | 7,48 | 286 | 277 | 89.69 | 15.1 | 22.0 | 4.6 | 49.0 | 4.0 | 0.3 | 19.68 | <0.05 | <0.01 | 364 | 1.6 | 1.95 | 0.59 | 0.72 | 0.64 |
| inja, inja | G-034779 | 18 Aug 64 | 12 | 5 626 | 7.0 | 290 | 201 | 89 | 17.0 | 18.0 | 6.0 | 39.0 | 2.3 | 0.3 | 44 | 0.01 | <0.01 | 307 | 0.12 | 2.24 | 0.62 | 0.36 | 0.80 |
| EA. | G-034779 | 22-04-00 | 12 | 1 547 | 7.25 | 250 | 204 | 07 | 17.6 | 18.0 | 2.3 | 40.0 | 2.0 | 0.5 | 22 | 20.05 | <0.01 | 307 | 1.1 | 2 22 | 0.56 | 0.78 | 0.65 |
| RA | 6-034779 | 31-Jul-01 | 12 | 3 600 | 7.22 | 325 | 238 | 99 | 18.6 | 22.2 | 5.2 | 44.0 | 4.0 | 0.3 | 22 | <0.05 | <0.01 | 380 | 1.2 | 2.37 | 0.72 | 0.83 | 0.65 |
| RA. | G-034779 | 28-Jun-02 | 32 | 634 | 7.1 | 301 | 273 | 94.7 | 15.7 | 18.9 | 5.0 | 45.0 | 3.4 | 0.2 | 40.7 | <0.05 | <0.01 | 404 | 0.6 | 2.47 | 0.77 | 0.97 | 0.76 |
| RA. | G-034779 | 04-Aug-03 | 12 | 612 | 7.13 | 331 | 286 | 101 | 18.6 | 20.4 | 4.9 | 55.0 | 3.0 | NA. | Z2 | 0.03 | <0.01 | 404 | 1 | 2.36 | 0.65 | 0.82 | 0.67 |
| RA | G-034779 | 18-Jul-97 | 12 | 3 551 | 7.4 | 250 | 280 | 160 | 17.0 | 8.5 | 5.2 | 38.0 | 2.0 | 0.3 | 0.5 | 0.3 | <0.01 | 400 | 0.6 | 2.52 | 0.77 | 0.89 | 0.69 |
| RA | G-041721 | 19-Jul-04 | 31 | 5 664 | 6.8 | 304 | 277 | 93.2 | 17.2 | 20.4 | 5.0 | 51.7 | 3.1 | 0.3 | 45 | <0.05 | <0.01 | 384 | 0.5 | 3.99 | 0.70 | 0.37 | 0.24 |
| RA | G-041721 | 06-141-05 | 11 | 5 591 | 7.49 | 295 | 240 | 91 | 16.6 | 22.9 | 8.9 | 41.0 | 3.0 | 0.2 | 22 | <0.05 | <0.01 | 318 | 2.1 | 2.33 | 0.71 | 0.89 | 0.72 |
| 84 | G-041721 | 22-Juni 06 | 11 | 5 606 | 1.09 | 310 | 271 | 70.51 | 14.4 | 19.6 | 4.5 | 40.0 | 3.0 | 0.2 | 50.75 | 0.02 | <0.01 | 358 | 3.7 | 7.45 | 0.57 | 0.87 | 0.62 |
| RA | G-041721 | 07-141-09 | 11 | 563 | 7.37 | 262 | 253 | 81.11 | 14.5 | 20.9 | 4.2 | 45.0 | 3.0 | 0.2 | 19.32 | +0.05 | <0.01 | 378 | 2.0 | 1.98 | 0.59 | 0.85 | 0.75 |
| RA | G-041721 | 01-Aug-00 | 11 | 5 577 | 7.45 | 301 | 269 | 92 | 17.0 | 22.4 | 4.0 | 43.0 | 3.0 | 0.2 | 21 | +0.05 | <0.01 | 332 | 2.3 | 2.02 | 0.60 | 0.91 | 0.79 |
| RA. | G-041721 | 31-Jul-01 | 11 | 5 584 | 7.3 | 319 | 238 | 97 | 18.2 | 26.5 | 6.4 | 43.0 | 6.0 | 0.3 | 22 | <0.05 | <0.01 | 387 | 2.2 | 2.30 | 0.70 | 0.97 | 0.80 |
| RA | G-041721 | 28-Jun-02 | 11 | 5 643 | 7.2 | 301 | 257 | 95.1 | 15.3 | 23.4 | 4.0 | 45.8 | 3.8 | 0.2 | 40.5 | <0.05 | <0.01 | 428 | 2.1 | 2.42 | 0.75 | 1.15 | 0.92 |
| RA, | G-041721 | 08-Jul-03 | 11 | 5 585 | 7.22 | 320 | 260 | 99 | 17.2 | 23.4 | 4.6 | 43.0 | 4.0 | NA. | 23 | <0.05 | <0.01 | 338 | 2.5 | 2.37 | 0.63 | 1.02 | 0.83 |
| RA. | G-041721 | 18-lui-97 | 11 | 550 | 7.3 | 250 | 260 | 440 | 17.0 | 10.0 | 5.3 | 48.0 | 2.6 | 0.3 | 1.7 | 0.9 | 0.02 | 410 | 1.7 | 2.47 | 0.71 | 1.02 | 0.81 |
| HA DA | G-041721 | 21-Jul-98 | 11 | 5 521 | 7.3 | 2/0 | 234 | 80 | 16.0 | 5.0 | 3.4 | 54.0 | 2.4 | 0.4 | 23 | -0.05 | <0.01 | 445 | 200 | 20.98 | 0.70 | 0,46 | 0.18 |
| 84 | 6.043300 | 18.8-0.84 | 24 | 5 000 5 NA | 7.7 | 368 | 308 | 108 | NA | 20.0 | 5.0 | 25.0 | 18.0 | 0.33 | NA | 3.6 | 0.4 | 413 | 11.4 | 2.00 | 0.72 | 0.22 | 0.22 |
| RA | G-055408 | 19-Jui-04 | 10 | 1 795 | 6.8 | 351 | 312 | 105 | 21.6 | 29.9 | 8.0 | 77.7 | 8.7 | 0.3 | 39.4 | 0.553 | 0.418 | 464 | <0.2 | 2.69 | #MALUE! | 1.13 | #VALUE! |
| RA. | G-055408 | 26-Jun-06 | 10 | 677 | 7.53 | 338 | 334 | 104 | 19.0 | 31.7 | 8.1 | 57.0 | 8.0 | 0.3 | 17 | <0.05 | 0.17 | 446 | <0.2 | 2.62 | 0.89 | 1.30 | 0.98 |
| RA, | G-065265 | 19-Jul-04 | 8 | 775 | 6.7 | 363 | 318 | 108 | 22.8 | 21.2 | 5.0 | 49.2 | 6.6 | 0.4 | 41.8 | <0.05 | 0.019 | 428 | 3.2 | 2.59 | 0.78 | 1.36 | 1.05 |
| RA, | G-065265 | 22-Jul-05 | 8 | 733 | 7,48 | 398 | 328 | 121 | 23.3 | 20,3 | 5.1 | 49.0 | 7.0 | 0.3 | 20 | <0.05 | 0.02 | 402 | 3.8 | 2.69 | 0.94 | 0,92 | 0.68 |
| RA. | G-065265 | 19-Jul-06 | | 2 745 | 8.39 | 380 | 325 | 114 | 23.2 | 20.6 | 5.4 | 50.0 | 7.0 | 0.5 | 20 | <0.05 | 0.02 | 550 | 5 | 3.02 | 0.96 | 0.88 | 0.63 |
| 15.0 | G-065255 | 26-10-07 | 8 | 2 /64 | 8.02 | 342 | 348 | 102.64 | 20.6 | 1/.9 | 5.3 | 59.0 | 0.8 | 0.4 | 17.89 | 40.05 | 0.02 | 442 | 4.5 | 2.84 | 0.95 | 0.90 | 0.65 |
| RA | G-065265 | 15-hd-09 | 8 | 670 | 7.31 | 381 | 312 | 100.15 | 19.8 | 22.5 | 4.8 | 48.0 | 6.0 | 0.3 | 17.17 | -0.05 | 0.02 | 432 | 4.7 | 2.80 | 0.84 | 0.90 | 0.67 |
| RA | G-065265 | 15-Aug-95 | 8 | 737 | 7.4 | 370 | 295 | 110 | 22.0 | 18.0 | 4.8 | 46.0 | 6.9 | 0.3 | 39 | 0.011 | 0.02 | 445 | 4.8 | 2.50 | 0.82 | 0.96 | 0.75 |
| RA | G-005265 | 29-Aug-94 | 8 | 771 | 7.8 | 370 | 347 | 110 | 22.0 | 18.0 | 5.9 | 58.0 | 8.2 | 0.3 | 63 | 0.16 | 0.033 | 479 | 1.2 | 2.74 | 0.91 | 0.78 | 0.58 |
| RA. | G-065265 | 01-Aug-00 | 8 | 696 | 7.47 | 389 | 328 | 116 | 23.6 | 21.9 | 4.5 | 47.0 | 8.0 | 0.3 | 19 | <0.05 | 0.02 | 435 | 4.5 | 2.74 | 0.91 | 0.78 | 0.58 |
| RA | G-065265 | 24-Jul-01 | 8 | 734 | 7.62 | 374 | 294 | 110 | 23.7 | 24.0 | 51 | 46.0 | 9.0 | 0.3 | 19 | 0.03 | 0.08 | 477 | 4.8 | 2.89 | 0.97 | 0.95 | 0.69 |
| RA | G-065265 | 28-Jun-02 | 8 | 784 | 7 | 375 | 536 | 115 | 21.2 | 20.1 | 5.0 | 45.3 | 8.1 | 0.3 | 37.9 | <0.05 | 0.018 | 472 | 3.1 | 2.74 | 0.98 | 1.04 | 0.77 |
| RA RA | G-065765 | 11-101-03 | 8 | //25 | 7.12 | 409 | 551 | 122 | 24.0 | 21.6 | 5.2 | 45.0 | 20 | 0.2 | 10 | 40.05 | 0.02 | 4/8 | 5.6 | 2.8/ | 1.02 | 0.88 | 0.65 |
| 8A | 6-074837 | 21-10-04 | 36 | 5 NG | 6.6 | 240 | 108 | 72.3 | 14.8 | 19.9 | 5.0 | 30.5 | 4.6 | 0.3 | 52.1 | +0.05 | <0.02 | 364 | 8.4 | 2.69 | 0.96 | 0.90 | 0.65 |
| RA | G-074837 | 06/01/05 | 25 | 5 538 | 7.35 | 257 | 203 | 78 | 15.0 | 20.5 | 4.3 | 31.0 | 5.0 | 0.3 | 25 | +0.05 | <0.01 | 308 | 8.9 | 1.80 | 0.61 | 0.87 | 0.79 |
| RA. | G-074837 | 12-lui-06 | 25 | 540 | 7.85 | 271 | 210 | 83 | 15.6 | 20.5 | 4.7 | 31.0 | 4.0 | 0.1 | 23 | <0.05 | <0.01 | 310 | 10.6 | 1.95 | 0.62 | 0.89 | 0.79 |
| RA | G-074837 | 02-141-07 | 25 | 5 533 | 7.9 | 220 | 201 | 67.1 | 12.9 | 16.8 | 4.9 | 31.0 | 4.0 | 0.3 | 23.5 | <0.05 | <0.01 | 332 | 10.9 | 2.07 | 0.64 | 0.89 | 0.77 |
| RA. | G-074837 | 30-Jul-08 | 25 | 5 525 | 7.16 | 238 | 204 | 73.46 | 13.2 | 20.4 | 4.6 | 33.0 | 5.0 | 0.3 | 22.65 | 0.01 | <0.01 | 346 | 9.3 | 1.67 | 0.53 | 0.73 | 0.70 |
| RA. | G-074837 | 07-Jul-09 | 25 | 5 505 | 7.12 | 229 | 206 | 68.92 | 13.7 | 20.6 | 5.0 | 32.0 | 4.0 | 0.3 | 22.8 | <0.05 | <0.01 | 170 | 9.1 | 1.83 | 0.54 | 0.89 | 0.81 |
| HA CA | G-084063 | 13-Sep-04 | N | 644 | 6.8 | 265 | 260 | 78.1 | 17.0 | 30.0 | 5.0 | 27.6 | 10.2 | 0.4 | 47.9 | <0.05 | <0.01 | 372 | 4.5 | 1.72 | 0.56 | 0.89 | 0.84 |
| RA. | 0-084063 | 11.bul 09 | N | 625 | 9.94 | 292 | 526 | 80 03 | 18.7 | 35.5 | 5.1 | 28.0 | 10.0 | 0.2 | 20.48 | 40.05 | <0.01 | 3/0 | 4.8 | 2.95 | 0.70 | 1.31 | 1.1.3 |
| RA | G-054063 | 11-00-08 | N | 540 | 6.91 | 257 | 268 | 76.93 | 15.1 | 29.1 | 47 | 30.0 | 9.0 | 0.3 | 19.24 | 0.05 | <0.01 | 386 | 41 | 2.02 | 0.64 | 1.12 | 0.97 |
| RA | G-084061 | 05-Aug-12 | 14 | 577 | 7.82 | 238.8 | 254 | 71.64 | 14.5 | 26.1 | 4.5 | 26.2 | 8.0 | 0.3 | 20.78 | <0.05 | <0.01 | 352 | 4.1 | 1.92 | 0.62 | 1.28 | 1.13 |
| RA | G-084063 | 04-Jun-13 | N | 650 | 7.18 | 291.7 | 278 | 87.65 | 17.7 | 83.3 | 5.4 | 32.2 | 11.4 | 0.3 | 20.69 | <0.05 | <0.01 | 404 | 4.1 | 1.79 | 0.60 | 1.54 | 1.05 |
| RA, | G-084063 | 27-Aug-03 | N | NA NA | NA. | NA | 282 | 89 | 18.4 | 32.9 | 5.0 | 31.0 | 9.0 | 0.3 | 19 | <0,05 | <0.01 | NA | 5 | 2.19 | 0.73 | 1.45 | 1.20 |
| RA. | G-084064 | 13-Sep-04 | N | 700 | 6.8 | 287 | 278 | 86.6 | 17.1 | 32.9 | 5.0 | 34.8 | 13.0 | 0.3 | 46.4 | <0.05 | <0.01 | 180 | 5.5 | 2.22 | 0.76 | 1.43 | 1.17 |
| RA. | G-084064 | 17-Aug-05 | N | 721 | 7.13 | 330 | 305 | 99 | 20.1 | 37.1 | 5.4 | 43.0 | 15.0 | 0.2 | 20 | <0.05 | <0.01 | 420 | 6 | 2.16 | 0.70 | 1.43 | 1.20 |
| RA, | G-084064 | 23-Aug-06 | N | 673 | 7.39 | 310 | 295 | 93 | 19.0 | 34.2 | 4.1 | 33.0 | 12.0 | 0.1 | 22 | <0.05 | <0.01 | 408 | 4.4 | 2.47 | 0.63 | 1.61 | 1.26 |
| | the second se | 17.101.0R | - N | - 26.73 | 7.34 | 1011 | 2018 | 01.0 | 17.7 | 34.4 | 6.0 | 57.0 | 13.0 | 0.5 | 20.03 | 433.075 | 10.01 | 412 | 0.4 | 2.92 | 12.72 | 1.40 | 1 1 9 |

| | | | | | | | | | | | | | | | | | | | | | Magnesium, | | |
|--------|------------------|-------------|------------|-------------|--------|----------|---------------|---------|-----------|--------|-----------|---------|----------|----------|--------|--------|-----------|-----------|-------------|--------------|--------------|--------------|------------|
| | | | | | | | | | | | | | | | | | | Total | | Calcium, in | in | Sodium, in | Sodium |
| | | | Depth, in | Specific | | | Alkalinity as | | | | | | | | | | | dissolved | | millequivale | millequivale | millequivale | Adsorption |
| Source | Site | Date | feet | conductance | pH, in | Hardness | CaCO3 | Calcium | Magnesium | Sodium | Potassium | Sulfate | Chloride | Fluoride | Silica | Iron | Manganese | solids | Nirate as N | nts | mts | nts | Ratio |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 6.084064 | 11.Jun.00 | NA | 736 | 6.93 | 100 | 784 | 88.10 | 17.1 | 24.0 | 6.7 | 40.0 | 10.0 | 0.7 | 10.01 | 10.00 | +0.01 | 444 | | 2 20 | 0.71 | 1.50 | 1.21 |
| | 0.084064 | 08 100 13 | | 649 | 2.05 | 100 | 224 | 96.75 | 47.4 | 20.0 | 5.0 | 20.0 | 19.0 | 0.2 | 20.01 | -0.06 | -0.01 | 303 | | 2.2.2 | 0.00 | 1.60 | 1.04 |
| 10.0 | C-0840C4 | 05-408-32 | NA NA | 640 | 7.05 | 283.3 | 271 | 45.71 | 17.6 | 30.9 | 5.5 | 30.8 | 13.9 | 0.2 | 20.17 | 00.00 | -0.01 | 384 | 4.75 | 2.20 | 0.70 | 4.32 | 1.00 |
| MA. | G-084064 | 04 Jun 13 | nie Nie | 660 | 7.04 | 287.3 | 278 | 86.12 | 17.6 | 53.1 | 5.4 | 32.5 | 11.2 | 0.3 | 20.65 | 40.05 | <0.01 | 406 | 4.55 | 2.14 | 0.71 | 1.35 | 1.13 |
| RA | G-084064 | 11-V08-03 | NO | N/A | NA | PAA . | 290 | 98 | 18.2 | 33.2 | 5.1 | 38.0 | 13.0 | 0.2 | 19 | 40.05 | <0.01 | nL6 | 5.9 | 2.15 | 0.72 | 1/44 | 1.20 |
| RA | G-094905 | 02-Aug-07 | 215 | 570 | 7.83 | 233 | 266 | 70.28 | 14.3 | 25.9 | 5.6 | 22.0 | 5.0 | 0.3 | 18,49 | 0.01 | 0.23 | 366 | <0.2 | 2.45 | 0.75 | 1.44 | 1.14 |
| RA. | G-094905 | 30-Jun-08 | 215 | 556 | 7,7 | 223 | 270 | 67.59 | 12.9 | 24.3 | 5.2 | 23.0 | 5.0 | 0.2 | 16.51 | <0.05 | 0.21 | 402 | <0.2 | 1.75 | 0.59 | 1.13 | 1.04 |
| RA | G-094905 | 01-Jul-09 | 215 | 492 | 7.36 | 244 | 269 | 73.88 | 14.4 | 31.3 | 6.7 | 23.0 | 5.0 | 0.4 | 17.99 | <0.05 | 0.22 | 324 | <0.2 | 1.69 | 0.53 | 1.06 | 1.00 |
| RA | G-107747 | 27-Jul-04 | 160 | 860 | 7.1 | 399 | 383 | 116 | 26.6 | 17.6 | 6.0 | 27.1 | 3.8 | 0.3 | 53.9 | 0.117 | 0.011 | 488 | <0.2 | 1.84 | 0.59 | 1.36 | 1.24 |
| BA. | G-107747 | 19-Aug-05 | 160 | 850 | 7.52 | 474 | 452 | 138 | 31.4 | 18.3 | 6.9 | 28.0 | 3.0 | 0.2 | 24 | <0.05 | 0.01 | 466 | <0.2 | 2.89 | 1.09 | 0,77 | 0.54 |
| RA. | G-107747 | 21-Aug-06 | 160 | 834 | 7.45 | 475 | 440 | 138 | 31.6 | 18.0 | 7.4 | 25.0 | 2.0 | NA | 24 | <0.05 | 0.01 | 516 | <0.2 | 3.44 | 1.29 | 0.80 | 0.52 |
| RA. | G-107747 | 20-Jun-07 | 160 | 775 | 7.99 | 400 | 427 | 116.59 | 26.2 | 15.5 | 5.7 | 25.0 | 4.0 | 0.3 | 25.07 | +0.05 | 0.01 | 464 | <0.2 | 3.44 | 1.30 | 0.78 | 0.51 |
| RA | G-107747 | 10-lun-06 | 160 | 744 | 7.88 | 356 | 380 | 103 | 23.9 | 16.6 | 6.1 | 25.0 | 8.0 | 0.3 | 22 | <0.05 | 0.04 | 452 | <0.2 | 2.91 | 1.08 | 0.68 | 0.48 |
| RA | G-107747 | 15-Sep-09 | 160 | 830 | 7.21 | 402 | 416 | 117.37 | 26.5 | 17.0 | 6.8 | 22.0 | 4.0 | 0.2 | 22.02 | +0.05 | 0.03 | 462 | <0.2 | 2.57 | 0.98 | 0.72 | 0.54 |
| BA. | G-107747 | 10-May-11 | 160 | 823 | 7.73 | 433 | \$67 | 127.14 | 28.2 | 17.1 | 6.8 | 20.0 | 4.0 | 0.5 | 22.02 | 0.02 | 0.03 | 516 | <0.2 | 2.93 | 1.09 | 0.74 | 0.52 |
| TA . | 6-107747 | 05-Nou-01 | 160 | 264 | 6.47 | 468 | 150 | 125 | 31.7 | 70.6 | 6.2 | 37.0 | 6.0 | 0.2 | 2.4 | 10.05 | 0.03 | 535 | 0.7 | 3.17 | 1.16 | 0.74 | 0.50 |
| D.A. | 6 107787 | 11.04.01 | 100 | 202 | 7.35 | 207 | 200 | 414 | 36.6 | 24.0 | EQ | 29.0 | 8.0 | 0.7 | 33 | -0.05 | 0.04 | 405 | 0.2 | 2 37 | 3.30 | 0.90 | 0.00 |
| 2.5 | C 107747 | 10 100 02 | 100 | 732 | 7.22 | 441 | 430 | 114 | 20.0 | 34.0 | 2.5 | 30.0 | 5.0 | 0.2 | | -0.05 | 0.04 | 455 | 0.5 | 3.3/ | 1.20 | 1.40 | 1.05 |
| 100 | 0-107747 | 10-389-02 | 160 | 113 | 1.29 | 443 | 639 | 1.09 | 90.4 | 21.1 | 1.5 | 33.0 | 5.0 | 0,3 | 24 | 0000 | 0.05 | 307 | 0.5 | 2.84 | 1.09 | 1,48 | 1.05 |
| INA: | G-107747 | 10-401-01 | 100 | 701 | 1.02 | 452 | 531 | 325 | 28.7 | 18.9 | 6.6 | 38.0 | 3.0 | 0.2 | 30 | <0.05 | 0.02 | 513 | 0.3 | 5.14 | 3.25 | 0.92 | 0.62 |
| RA | G-107747 | 23-Jul-02 | 160 | 814 | 7.2 | 403 | 106 | 120 | 24.9 | 16.5 | 6.0 | 31.1 | 4.5 | 0.2 | 51.7 | 0.797 | 0.013 | 520 | -0.2 | 3.12 | 1.18 | 0.82 | 0.56 |
| RA | G-107747 | 22-Oct-02 | 160 | 844 | 7 | 347 | 394 | 102 | 22.3 | 14,9 | 6.0 | 31.8 | 4.3 | 0.2 | 46.4 | 0.037 | <0.01 | 492 | <0.Z | 2.99 | 1.02 | 0.72 | 0.51 |
| RA | G-107747 | 08-Jan-03 | 160 | 786 | 7.2 | 424 | 396 | 127 | 25.8 | 15.9 | 6.0 | 31.3 | 4.0 | 0.2 | 50.7 | 0.159 | <0.01 | 396 | <0.2 | 2.54 | 0.92 | 0.65 | 0.49 |
| RA. | G-107747 | 01-May-03 | 160 | 850 | 7.2 | 418 | 410 | 123 | 26.8 | 17.1 | 7.0 | 30.2 | 4.6 | 0.3 | 53.8 | 0.77 | 0.02 | 476 | <0.2 | 3.17 | 1.06 | 0.69 | 0.48 |
| RA | G-107747 | 30-jul-03 | 160 | 725 | 7.24 | 388 | 374 | 112 | 25.6 | 17.0 | 6.6 | 32.0 | 4.0 | 0.2 | 25 | <0.05 | < 0.01 | 416 | 0.3 | 3.07 | 1.10 | 0.74 | 0.52 |
| BA | G-107747 | 09-0ct-03 | 160 | 764 | 7.17 | 417 | 380 | 122 | 26.9 | 17.4 | 6.8 | 32.0 | 4.0 | 0.2 | 22 | <0.05 | <0.01 | 482 | 0.5 | 2.79 | 1.05 | 0.74 | 0.53 |
| RA | G-110389 | 05-Aug-04 | NA | 655 | 7.3 | 316 | 299 | 97.2 | 17.8 | 22.3 | 5.0 | 45.8 | 3.3 | 0.2 | 42.3 | <0.05 | <0.01 | 396 | 2.1 | 3.04 | 1.11 | 0.76 | 0.53 |
| RA . | G-110389 | 19-Jul-05 | NA | 651 | 7.64 | 355 | 316 | 104 | 18.2 | 32.4 | 4.6 | 42.0 | 3.0 | 0.2 | 18 | <0.05 | <0.01 | 364 | <0.2 | 2.43 | 0.73 | 0.97 | 0.77 |
| RA | G-111121 | 13-Sep 04 | NA | 674 | 7 | 279 | 290 | 86.5 | 15.2 | 31.5 | 5.0 | 26.9 | 8.7 | 0.4 | 43.2 | <0.05 | <0.01 | 376 | 3.3 | 2.59 | 0.75 | 0.97 | 0.75 |
| HA. | G-111121 | 17-Aup-05 | NA | 644 | 7.74 | 305 | 292 | 95 | 16.4 | 17.9 | 5.4 | 28.0 | 8.0 | 0.2 | 19 | <0.05 | -<0.01 | 405 | 3.7 | 2.16 | 0.63 | 1.37 | 1.16 |
| RA. | 6.111121 | 28. Aug. 66 | NA | 665 | 7 43 | 310 | 874 | 97 | 16.5 | 81.3 | 4.0 | 30.0 | 10.0 | 0.1 | 21 | +0.05 | +0.01 | 808 | 4.8 | 2.97 | 0.67 | 1.48 | 1.16 |
| 84 | 6.111121 | 11-14-08 | NA | 644 | 7.38 | 200 | 280 | 95.02 | 15.1 | 20.2 | 4.6 | 21.0 | 12.0 | 0.2 | 10.22 | -0.05 | <0.01 | 47.4 | 2.5 | 2.62 | 0.68 | 1.36 | 1.09 |
| 100 | 0.111101 | 11.00.00 | | 634 | 6.07 | 202 | 280 | 01.53 | 18.1 | 11.7 | | 32.0 | 10.0 | 0.3 | 10.91 | -0.05 | 0.07 | 307 | | 2.92 | 0.00 | 1.35 | 1.03 |
| 2.4 | G-101020 | 08 400 13 | 844 | 667 | 7.18 | 306.4 | 200 | 03.61 | +5.0 | 24.5 | 5.4 | 23.5 | 11.2 | 0.2 | 20.05 | 00.00 | -0.02 | 394 | | 3.39 | 0.02 | 1.42 | 1.10 |
| 10.0 | 6-111121 | 00-408-12 | 100 | 007 | 7.10 | 200.6 | 230 | 24.01 | 15.5 | 21.3 | 2.1 | 32.2 | 31.0 | 0.5 | 20.92 | 10.05 | +0.01 | 304 | 7.1 | 2.40 | 0.02 | 1.02 | 1.10 |
| RA. | G-111121 | 04-107-13 | NA | 682 | 7.11 | 304.9 | 298 | 94.79 | 16.6 | 52.2 | 5.5 | 33.1 | 11.8 | 0.2 | 19.92 | <0.05 | -0.01 | 416 | 3,45 | 2.31 | 0,66 | 1.37 | 1.12 |
| IRA. | G-111121 | 27-Aug-03 | nie. | 684 | NA. | 164 | 290 | 94 | 15.0 | 32.4 | 4.0 | 24.0 | 2.0 | 0.3 | 17 | <0.05 | <0.01 | nia. | 3.9 | 2.37 | 0.58 | 1.40 | 1.14 |
| RA | G-150519 | 18-May-10 | NA | 973 | 7.08 | 500 | 329 | 138.11 | 37,7 | 21,3 | 5.9 | 213.0 | 2.0 | 0.3 | 21.15 | <0.05 | 0.7 | 668 | 2.8 | 2.35 | 0.66 | 1.41 | 1.15 |
| RA | G-150519 | 06-Jun-12 | NA | 958 | 7.13 | 523.6 | 338 | 138.8 | 43.0 | 22.1 | 6.7 | 204.0 | 2.3 | 0.3 | 26.42 | <0.05 | 0.78 | 690 | 2.6 | 3.45 | 1.55 | 0.93 | 0.59 |
| BA | G-155601 | 01-Dct-07 | 177 | 771 | 8.09 | 358 | 285 | 102.7B | 24.6 | 27.1 | 41 | 117.0 | NA | 0.4 | 15.28 | 0.01 | 0.09 | 465 | <0.2 | 3.46 | 1.77 | 0.96 | 0.50 |
| RA | G-155601 | 07-Mar 08 | 177 | 753 | 8.02 | 374 | 288 | 108.57 | 24.8 | 24.6 | 4.3 | 121.0 | 3.0 | 0.2 | 15.79 | 0.01 | 0.36 | 504 | <0.2 | 2.56 | 1.01 | 1.18 | 0,88 |
| RA | G-155601 | 26-Jun-08 | 177 | 731 | 7.28 | 336 | 280 | 97.99 | 22.1 | 25.2 | 4.3 | 107.0 | 3.0 | 0.3 | 15.64 | <0.05 | 0.03 | 458 | <0.2 | 2.71 | 3.02 | 1.07 | 0.78 |
| RA | G-155601 | 15-Sep-09 | 177 | 794 | 7.38 | 356 | 295 | 104.68 | 23.1 | 26.5 | 4.7 | 124.0 | 4.0 | 0.3 | 14.73 | 40.05 | 0.06 | 468 | <0.2 | 2.44 | 0.91 | 1.10 | 0.85 |
| RA | G-155630 | 30-Jun-11 | 361 | 841 | 7.04 | 413 | 314 | 121.43 | 26.9 | 22.1 | 6.1 | 165.0 | 5.0 | 0.2 | 23.86 | 0.01 | 0.13 | 606 | <0.2 | 2.61 | 0.95 | 1.15 | 0.85 |
| DK | G-049390 | 7/27/1984 | 280 | NA | 7.7 | 364 | 332 | 80 | NA | 16.0 | NA | 29.0 | 12.0 | 0.4 | NA. | 0.1 | 0.2 | 512 | 1.1 | 3.03 | 1.11 | 0.96 | 0.67 |
| DK | 12N GEBSADA | 3/19/1974 | 53 | 1180 | 7.1 | 450 | 344 | 130 | 30.0 | 54.0 | 9.5 | 49.0 | 44.0 | 0.5 | 58 | 1400 | < 10 | 772 | NA. | 3.24 | 1.23 | 2.35 | 1.57 |
| DK | 12N 7E17CB88 | 8/15/1995 | 195 | 525 | 6.9 | 181 | NA | 50 | 13.0 | 43.0 | 3.5 | 21.0 | 3.4 | 0.3 | 38 | 5 | < 1.00 | 346 | NA. | 1.77 | 0.53 | 1.87 | 1.97 |
| DK | 12N 7E22DA 1 | 3/21/1969 | 160 | 2570 | 2.2 | 880 | 296 | 208 | 89.0 | 330.0 | 16.0 | 1240.0 | 37.0 | 3.5 | 6.9 | 7200 | 250 | 2090 | 0.023 | 5.19 | 3.66 | 14.36 | 6.82 |
| DK. | 13N SE 288 1 | 6/6/1969 | 395 | 538 | 7.8 | 360 | 228 | 5.9 | 28.0 | 15.0 | RG | 66.0 | 17 | 0.4 | 23 | 60 | NA | 341 | 0.136 | 1.07 | 1.15 | 0.65 | 0.57 |
| EVAL N | No Dak Cr Nr U | 9/9/1077 | NA | 548 | 7.8 | 200 | 251 | 74 | 25.0 | 15.0 | 0.3 | 51.0 | 14.0 | 0.5 | NA | 10 | 20.0 | 303 | NA | 1.85 | 1.03 | 1 52 | 1.27 |
| 5341 | No. Oak Co Ne U | 11/13/1071 | NA | 250 | 7.0 | 380 | 430 | 110 | 36.0 | 20.0 | 83 | 53.0 | 0.0 | 0.6 | NA | 30 | 120 | 440 | bell. | 3.24 | 1.03 | 0.97 | 0.63 |
| 214 | No. Oak Critteri | 1/22/2022 | | 133 | 7.0 | 300 | 247 | | 22.0 | 14.0 | 2.2 | 53.0 | 0.2 | | | 10 | 8.50 | 363 | FUR. | 2.05 | 0.03 | 0.35 | 0.02 |
| 399 | ND. OAK O'NY V | -3/23/19/2 | PLA | 000 | 13 | 290 | 547 | 82 | 20.0 | 18,0 | 1.3 | 52.0 | 3.7 | 0.4 | 1944 | 20 | 600 | 302 | ren. | 2.05 | 0.82 | 0.76 | 0.65 |
| 200 | NO. Dak Cr Nr V | 5/3/1972 | nus | 550 | 7.3 | 250 | 284 | | 17.0 | 15.0 | 15.0 | 53.0 | 1.0 | 0.6 | DLA. | 10 | 600 | 320 | TVA . | 1.85 | 0.70 | 0.65 | 0.58 |
| SW | Oak Cr Mr Agne | 11/17/1967 | NA | 726 | 7.6 | 370 | 397 | 101 | 28.0 | 22.0 | 6.8 | 75.0 | 4,4 | 0.3 | 21 | 50 | 610 | 457 | NA | 2.52 | 1.15 | 0.96 | 0.71 |
| SW | Oak Cr Nr Agne | 7/18/1968 | NA | 648 | 7.8 | 300 | 362 | 80 | 26.0 | 23.0 | 10.0 | 56.0 | 6.1 | 0.5 | 16 | 20 | 510 | 396 | 0.045 | 2.00 | 1.07 | 1.00 | 0.81 |
| SW | Oak Cr Nr Raym | 5/5/1964 | NA | 790 | 8.3 | 400 | 434 | 115 | 27.0 | 24.0 | 8.6 | 71.0 | 8.4 | 0.4 | 21 | 80 | 250 | 499 | 0.181 | 2.87 | 1.11 | 1.04 | 0.74 |
| SW | Oak Cr Nr Raym | 5/24/1964 | NA | 238 | 7.4 | 120 | 138 | 35 | 6.7 | 3.8 | 5.9 | 8.0 | 1.5 | 0.5 | 9.4 | 70 | 0 | 140 | 0.361 | 0.87 | 0.28 | 0.17 | 0.22 |
| 5W | Oak Cr Nr Raym | 6/8/1964 | NA | 743 | 8.1 | 370 | 425 | 107 | 25.0 | 22.0 | 8.8 | 62.0 | 8,0 | 0.4 | 15 | 170 | 60 | 458 | 0.045 | 2.67 | 1,03 | 0.96 | 0.70 |
| SW | Oak Cr Nr Raym | 6/13/1964 | NA | 241 | . 7 | 120 | 138 | 36 | 6.1 | 3.1 | 6.0 | 5.8 | 1.0 | 0.4 | 9.7 | 730 | 120 | 138 | 0.361 | 0.90 | 0.25 | 0.13 | 0.18 |
| SW | Oak Cr Nr Raynt | 6/15/1964 | NA | 196 | 7.2 | 91 | 112 | 30 | 3.9 | 2.9 | 5.2 | 6.0 | 1.0 | 0.5 | 7.9 | 310 | 0 | 114 | 0.248 | 0.75 | 0.16 | 0.13 | 0.19 |
| SW | Branched Oak # | 11/17/1967 | NA | 456 | 7.4 | 210 | 249 | 61 | 15.0 | 11.0 | 12.0 | 33.0 | 4.1 | 0.4 | 5.6 | 80 | 110 | 267 | 0.073 | 1.52 | 0.62 | 0.48 | 0.46 |
| SW | Branched Oak F | 7/18/1968 | NA | 503 | 7.9 | 210 | 271 | 44 | 24.0 | 21.0 | 12.0 | 43.0 | 6.0 | 0.4 | 0 | 130 | 0 | 284 | 0.045 | 1.10 | 0.99 | 0.91 | 0.89 |
| SW | Middle Oak Cr.L | 11/17/1967 | NA | 712 | 7.5 | 360 | 395 | 103 | 25.0 | 21.0 | 63 | 77.0 | 0.0 | 0.3 | 24 | 50 | 450 | 454 | NA | 2.57 | 1.07 | 0.91 | 0.65 |
| 500 | Middle Oak Col | 7/18/1958 | NA | 200 | 2.8 | 365 | 402 | 200 | 24.0 | 21.0 | 0.9 | 54.0 | 9.4 | 0.5 | 34 | 60 | 720 | 450 | 0.181 | 2.90 | 0.99 | 0.91 | 0.69 |
| SW | Rock Cr Aby Car | 2/14/1974 | ALA. | 632 | | 360 | 221 | 27 | 17.0 | 20.0 | 6.0 | 53.0 | 17.0 | 0.6 | 30 | 614 | MA | 404 | 80.0 | 1.97 | 0.70 | 1.53 | 1.23 |
| 530 | Rock Co Also Con | Alling | 14.4 | 670 | 10 | 200 | 100 | | 16.0 | 53.0 | 0.0 | 45.0 | 10.0 | 20.0 | | Page 1 | | 1.24 | ALC: NO | 1 72 | 0.00 | 1.32 | 1.32 |
| 244 | Rock of Mov Cel | 4/8/19/6 | nun | 970 | 1.00 | 240 | 200 | 70 | 10.0 | 51.0 | 2.7 | 40.0 | 8.9 | - | Park. | 164 | | 340 | mA. | 1.15 | 0.00 | 4.35 | 1.23 |
| SIV | ROCE OF ADV CON | 4/29/19/4 | NA. | 602 | 8.1 | 250 | 527 | 74 | 17.0 | 51.0 | 27 | 40.0 | 11.0 | NA. | PLA. | niA. | nA. | 341 | NA. | 1.85 | 0.76 | 1.35 | 1.20 |
| SW | HOCK OF ADV CEI | 3/30/19/4 | NA | 380 | 1.6 | 160 | 200 | 45 | 12.0 | 20.0 | 8.9 | ,21,0 | 7.3 | NA | PLA. | NA | NA | 240 | rw4. | 1.12 | 0,49 | 0.87 | 0.97 |
| 5W | Rock Cr Aby Cer | 6/14/1974 | NA | 616 | 8.1 | 250 | 307 | 73 | 16.0 | 54.0 | 5.7 | 42.0 | 25.0 | NA | NA | N/A | NA | 352 | NA | 1.82 | 0.66 | 1.48 | 1.33 |

| | | | | | | | | | | | | | | | | | | | | | Magneslum, | | |
|----------|---------------|-----------|-----------|-------------|--------|----------|---------------|---------|-----------|--------|-----------|---------|----------|----------|--------|------|-----------|--------------------|-------------|-----------------------------|--------------------|-------------------------|---------------------|
| | | | Depth, in | Specific | | | Alkalinity as | | | | | | | | | | | Total dissolved | | Calcium, in milleguluate | in millequivale | Sodium, in millequivale | Sodium Adsorptio |
| Source | Site | Date | feet | zonductance | pH, hr | Hardwess | CaCO3 | Calcium | Magnesium | Sodium | Potassium | Sullate | Chloride | Fluoride | Silica | Iron | Mangamese | solids | Nirabe as N | mes. | ints i | eta | Ratio |
| ×. | G-049390 | 7/27/1984 | 280 | NA | 17 | 364 | 332 | 80 | NA | 16.0 | NA | 29.0 | 12.0 | 0.4 | NA | 0.1 | 0.2 | 512 | 1.1 | 3.03 | 1.11 | 0.96 | 0.6 |
| K | 12N 6635ADA 1 | 3/19/1974 | 53 | 3180 | 7.1 | 450 | 346 | 130 | 30.0 | 54.0 | 9.5 | 49.0 | 44.0 | 0.5 | 58 | 1400 | < 10 | 772 | NA | 1.24 | 1.23 | 2.85 | 13 |
| ik: | 12N 7E17C6881 | 8/15/1995 | 195 | 525 | 6.9 | 181 | NA. | 51 | 13.0 | 45.0 | 3.5 | 21.0 | 3.4 | 0.3 | 38 | 5 | <1.00 | 346 | NA | 1.27 | 0.58 | 1.87 | C (11 |
| 16 | 12N 7E22DA 1 | 3/21/1960 | 160 | 2570 | 2.2 | 880 | 296 | 208 | 89.0 | 130.0 | 16.0 | 1240.0 | 17.0 | 3.5 | 6.9 | 7200 | 250 | 2090 | 0.023 | 5.19 | 3.66 | 14.35 | 6.8 |
| 8 | 13N 55 288 1 | 6/6/1969 | 295 | 528 | 7.8 | 260 | 279 | 59 | 28.0 | 15.0 | 8.5 | 65.0 | 1.7 | 0.4 | 22 | 60 | NA. | 343 | 0.136 | 1.47 | 1.15 | 0.65 | 0.5 |

Appendix 3 Metadata

Data Delivery File Structure

The acquired and processed data are provided digitally with this report. The file structure on the included disk follows the flow chart in Figure A3.1 below.



Figure A3-1 - Flow Chart of file structure for delivery of metadata.

AEM Database

The final processed AEM data (spatially constrained inversion results) for the project area is provided in a comma separated file (LPSNRD_fial_sci.csv). Parameters for the processed data file are listed in Table A3-1.

| Table A3-1: Parameters for processed AE | M data file. Null value | = -9999.99 (Occurs | where data were |
|---|-------------------------|--------------------|-----------------|
| removed). | | | |

| Parameter | Description | Unit | | | |
|---------------|---|-----------------|--|--|--|
| Line | Flight Line Number | N/A | | | |
| ChordLength | Distance between points | Feet [ft] | | | |
| X_ft | Easting NAD83 UTM Zone 14 North | Feet [ft] | | | |
| X_m | Easting NAD83 UTM Zone 14 North | Meters [m] | | | |
| Y_ft | Northing NAD83 UTM Zone 14 North | Feet [ft] | | | |
| Y_m | Northing NAD83 UTM Zone 14 North | Meters [m] | | | |
| DEM_ft | Digital Elevation Model, NAVD88 | Feet [ft] | | | |
| TOPO_m | Helicopter recorded topography, NAVD88 | Meter [m] | | | |
| ALT | Recorded altitude | Meter [m] | | | |
| INVALT | Inverted altitude | Meter [m] | | | |
| INVALTSTD | Standard deviation of inverted altitude | Meter [m] | | | |
| DELTAALT | Difference between recorded and inverted altitude | Meter [m] | | | |
| | A numerical lower estimate of the depth of | Foot [ft] | | | |
| | investigation | | | | |
| | A numerical upper estimate of the depth of | Foot [ft] | | | |
| | investigation | | | | |
| NUMDATA | Number of time gates utilized in inversion | N/A | | | |
| RECORD | Unique field identification number assigned to each | N/A | | | |
| | inverted AEM sounding | | | | |
| | Identifies if low moment, high moment, or both were used in | N/A | | | |
| SEGMENTS | the inversion | N1/A | | | |
| RESDATA | Residual of individual sounding | N/A | | | |
| RESIDIAL | Residual of SCI section | N/A | | | |
| TOP_ft[xx*] | Inverted layer top (bgl) | Feet [ft] | | | |
| BOI_ft[xx^] | Inverted layer bottom (bgl) | Feet [ft] | | | |
| RES_[xx*] | Inverted layer resistivity value | ohm-meter [-m] | | | |
| RES_SID_[XX*] | Standard deviation of resistivity for inverted layer | Ohm-meter [-m] | | | |
| SIGMA_I[xx*] | Inverted layer conductivity value | Siemens/meter | | | |
| Podrool | | | | | |
| Bedrock | Interpreted bedrock surface (asi) | | | | |
| VV I | Interpreted subsurface water level (asl) | ⊢eet [ft] | | | |

* A TOTAL OF 30 INVERTED LAYERS.

MAG Database

The final processed magnetic data for the project area is provided in a comma separated file (LPSNRD_MAG.csv). Parameters for the processed data file are listed in table A3-2.

All recorded data are time stamped in order to correlate independent data sets. The time stamps are in Coordinated Universal Time/Greenwich Mean Time (UTC/GMT) which is a +6 hour difference from Central Standard Time. Time stamps are one of the two following formats.

- Date and time defined as: yyyy/mm/dd hh:mm:ss.sss
- Date and time values defined as the number of days since 1900/01/01 and seconds of the day: ddddd.ssssssss (decimal days).

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Table A3-2: Parameters for processed MAG data file.

| Parameter | Description | Unit |
|-----------------|--|----------------|
| R_BmagInterp | Interpolated base mag data | nanotesla [nT] |
| R_BmagInterp_nl | Interpolated base mag data with a nonlinear filter applied | nanotesla [nT] |
| R_Dec | Declination | Degrees |
| R_Inc | Inclination | Degrees |
| R_Magraw_int_nl | Raw magnetic data, interpolated with a nonlinear | nanotesla [nT] |
| | filter applied | |
| R_Magraw_Interp | Raw magnetic data, interpolated | nanotesla [nT] |
| R_TotalField | Regional magnetic field | nanotesla [nT] |
| RMF | Residual Magnetic Field . IGRF removed . final corrected and leveled magnetic data | nanotesla [nT] |
| Time | Time | hhmmss.sss |
| TMI | Total Magnetic Intensity . final corrected and | nanotesla [nT] |
| | leveled magnetic data; IGRF recalculated | |

*High and low moment measurement channels correspond with the time gate numbers listed in Table A3-3.

Time gates

There are a total of 38 time gates, table A3-3 presents the gate number, the gate center, gate width and a comment concerning time gate usage.

| Gate No. | Gate Center (μs) | Gate Width (μs) | Comment | Gate No. | Gate Center (µs) | Gate Width (µs) | Comment |
|-------------|------------------------|-----------------------|------------------------|-------------|------------------------|-----------------------|------------------------|
| 0 | -0.385 | 1.57 | Not Used | 19 | 172.115 | 38.57 | Low and High Moment |
| 1 | 1.615 | 1.57 | Not Used | 20 | 216.115 | 48.57 | Low and High Moment |
| 2 | 3.615 | 1.57 | Not Used | 21 | 271.615 | 61.57 | Low and High Moment |
| 3 | 5.615 | 1.57 | Not Used | 22 | 342.115 | 78.57 | Low and High Moment |
| 4 | 7.615 | 1.57 | Not Used | 23 | 431.615 | 99.57 | Low and High Moment |
| 5 | 9.615 | 1.57 | Low Moment Only | 24 | 544.615 | 125.57 | Low and High Moment |
| 6 | 11.615 | 1.57 | Low Moment Only | 25 | 687.115 | 158.57 | Low and High Moment |
| 7 | 13.615 | 1.57 | Low Moment Only | 26 | 867.115 | 200.57 | Low and High Moment |
| 8 | 16.115 | 2.57 | Low Moment Only | 27 | 1094.615 | 253.57 | Low and High Moment |
| 9 | 19.615 | 3.57 | Low Moment Only | 28 | 1382.115 | 320.57 | Low and High Moment |
| 10 | 24.115 | 4.57 | Low Moment Only | 29 | 1745.115 | 404.57 | High Moment Only |
| 11 | 29.615 | 5.57 | Low Moment Only | 30 | 2203.115 | 510.57 | High Moment Only |
| 12 | 36.615 | 5.57 | Low Moment Only | 31 | 2781.615 | 645.57 | High Moment Only |
| 13 | 45.615 | 9.57 | Low Moment Only | 32 | 3512.615 | 815.57 | High Moment Only |
| 14 | 56.615 | 11.57 | Low and High Moment | 33 | 4436.115 | 1030.57 | High Moment Only |
| 15 | 70.115 | 14.57 | Low and High Moment | 34 | 5602.615 | 1301.57 | High Moment Only |
| 16 | 87.115 | 18.57 | Low and High Moment | 35 | 7075.615 | 1643.57 | High Moment Only |
| 17 | 109.115 | 24.57 | Low and High Moment | 36 | 8936.115 | 2076.57 | High Moment Only |
| 18 | 137.115 | 30.57 | Low and High Moment | 37 | 11286.11 5 | 2622.57 | High Moment Only |

Table A3-3: Time gate information.

Ground-Based TDEM

The final processed ground-based TDEM data for the project are provided in series of .emo files that may be read with any text editor. The .emo file is the inversion output file, it contains model parameters, model parameter analyses, forward responses, inversion settings, etc. Parameters for the .emo inversion files are listed in table A3-4.

| Table A3.4. Parameters for | processed TDEM inversion file. |
|----------------------------|--------------------------------|
|----------------------------|--------------------------------|

| Line Number(s) | | Description | | | | | | | | |
|-----------------------|-----------------------|---|-------------------------------|-------------------------------|--------------------------|-------------|----------------|---------------------------------|--|--|
| 1-42 | Inversion | setup informa | ation, contai | ns informati | ion abou | it whic | h data a | ind model | | |
| | The lines | <u>been usea.</u> followina line | 43 contain | information | on the i | nversi | on resul | t with | | |
| 43+ | respect to | models and | data. | | | | | | | |
| | The norm | (residual) pre | ogress throu | igh the itera | tion step | os. | | | | |
| Norm's | Ite_# | Data | Vcon | Hcon | Dep | oth | Apri | Total | | |
| (0Nlte) | Iteration number | Residuals for data | Vertical con- straints | Horizonta con- straints | I Dept con- strair | h nts | Model prior | Total residual | | |
| Parameters (0Nlte) | Model Pa The parar | Model Parameters (layer resistivity and thickness) through the iteration steps. The parameters listed for the last iteration are the final inversion result. | | | | | | | | |
| Analysis: | Paramete | r analysis on | prior values | 6. | | | | | | |
| Apriori parameters | Prior mod | el parameter | s (starting m | nodel) | | | | | | |
| Constraints: | Constrain | ts (with respe | ect to the sta | rting model |) | | | | | |
| | Forward D | Data | | | | | | | | |
| Data type | Time | Inp_Data | STD | WaveID | FltID | DSet | t# Ite# | ŧ | | |
| ID | Micro- second | Input data | Data standard deviation | Wave form ID | Filter ID | Data set | for iter | ward data each ation step | | |

Water Table

The last column of data in the AEM database (LPSNRD_fial_sci.csv) is an interpreted water table surface. This data is obtained from the United States Geological Survey National Water Information System Web Interface: <u>http://waterdata.usgs.gov/nwis/gw</u>.

Lithological Logs

A total of two hundred thirty-six (236) lithological logs were obtained from three different sources for this project. The majority of lithological logs, two hundred twenty-five (225), were obtained from the Nebraska Department of Natural Resources Registered Groundwater Wells Data Retrieval website. Seven (7) lithological logs were obtained from the Nebraska Statewide Testhole Database. The remaining four (4) lithological logs were from deeper wells, obtained from the Nebraska Oil and Gas Conservation Commission.

The lithologies listed in the various databases reports were assigned a pre-defined lithologic category for representation in various data processing and visualization software used for this project. All lithological logs are reported in English depth units, and the locations for all logs have been converted from their original format to Eastings and Northings (ft.) in UTM zone 14N. The two hundred twenty-five (225) lithological logs obtained from the Nebraska Department of Natural Resources Registered Groundwater Wells Data Retrieval website can be located through the following link: <u>http://data.dnr.nebraska.gov/wells/Menu.aspx</u>

An individual well log can be located by following the steps outlined in Figure A3-3. Table A3-4 lists all Nebraska Department of Natural Resources well registration numbers used for this project along with their positional information in Easting and Northings (UTM) and elevation (NAVD 88) in ft. Table A3-4 is also provided with the Meta data as a comma separated file with the following na me: LPSNRD_GWD.csv.

| Step 1: Submit | Well ID Owner's Name Owner's Address County Natural Resources District Section Township Range Ø Registration Number Well Type Status Code Well Completion Date Well Decommission Date NRD Well Permit Number Submit | | | | | | Step 2 Enter the Registra | Submit the complete re tion Numbe | well registration number for the lith gistration number with six digits. (E r: | ological log be xample G-058 | <u>eing obtained</u> 784) |
|--|---|---|---|--|--|--|--|--|---|---------------------------------|--|
| Step 3: Click the Return to Sea Nebraska Dep Database Thr Processed: 11 REGISTERE Note: Information on P (Data Bank) at 40 January 1, 1969, Due to possibility | "Log artm ough: /6/20 D GR ablic V (2-471 except of a v | s" link in the first col age ent of Natural Re 11/5/2014 14 2:23:46 PM OUNDWATER Vater Supply Wells in 2363 for more infor Public Water Supply rell being in more that | umn. esources WELLS DATA F s not available through mation. All registratio s wells, are now avail an one series, an indiv | EETRIEVAL a this interface. O n documentation able. idual well might | Contact the Dep for water wells be listed more | artment of Natural Resources registered after than once. | Step 4 Return Nebrasi Databa Process Registr Geo Logy FromDe 0 3 8 58 | The next we to Search ka Depart se Throug ed: 11/6/2 ation Nun s pth ToDept 3 8 58 62 | b page to appear will be the log of Page ment of Natural Resources h: 11/5/2014 2014 2:24:55 PM aber G-021155, Well ID 27441 b Description TOP SOIL SILTY CLAY YELLOW CLAY GRAVEL AND PEBBLES | Color Density | Composition Other Other Other Other |
| Registration# Well ID Permit Number Well Log | Use Statu | County Name NRD Name Well Location Footage Latitude Longitude | Completion Date Filing Date Deconumission Date Times Replaced | Acres Irrig Gallons/Min Static Level Pumping Level Series | Pump Col Di Pump Depth Well Depth | Owner's Name and Address Owner ID | 62 86 130 137 150 168 | 86 130 137 150 168 170 | FINE SULTY SAND VERY FINE SAND STRIP CLAY GRAVEL STREAKS AND CLAY SAND AND GRAVEL CLAY | | Other Other Other Other Other Other |
| G-021155 WellID: 27441 Other Inf Logs View as PD7 | I A | Saunders Lower Platte South 13N 6E 19 SESE 570 S 990 E Map 1 | 4/12/1960 2/2/1961 | 50 500 gpm 83 ft 153 ft PRO | 6 in 170 ft | Max Hakel OwnerID: 21874 Valparaiso ,NE 68065 | | | | | |
| Data copy of requ Data copy of Geo Data copy of Cas Data copy of Gro | Logs Logs mg Sci ut Gra | wells, for requested wells, een for sequested we vel for sequested wel | dh. Is | | | | | | | | |

Figure A3-3: Instructions for obtaining lithological logs from the Nebraska Department of Natural Resources registered groundwater wells used for this project.

APPENDIX 3

| Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. |
|----------------------|---------|----------|-------|----------------------|---------|----------|-------|----------------------|---------|----------|-------|
| G-007355 | 2237301 | 14926307 | 1302 | G-069699 | 2236009 | 14924951 | 1293 | G-104867 | 2238800 | 14928016 | 1317 |
| G-021155 | 2252794 | 14926626 | 1341 | G-069885 | 2222772 | 14923355 | 1509 | G-105160 | 2232060 | 14916570 | 1404 |
| G-021357 | 2235464 | 14919360 | 1307 | G-069886 | 2218897 | 14924579 | 1545 | G-105218 | 2264997 | 14925957 | 1259 |
| G-028454 | 2235824 | 14920322 | 1298 | G-070473 | 2193742 | 14935158 | 1601 | G-105567 | 2225851 | 14977816 | 1513 |
| G-032248 | 2219988 | 14918666 | 1464 | G-070766 | 2216939 | 14919846 | 1475 | G-106044 | 2250682 | 14925856 | 1417 |
| G-033528 | 2236968 | 14925090 | 1300 | G-071040 | 2220705 | 14926665 | 1533 | G-106052 | 2186089 | 14972295 | 1665 |
| G-033782 | 2190102 | 14938155 | 1652 | G-072482 | 2241391 | 14936290 | 1462 | G-108684 | 2226244 | 14916820 | 1400 |
| G-035358 | 2204814 | 14929818 | 1423 | G-074837 | 2252033 | 14943227 | 1387 | G-109481 | 2231639 | 14929117 | 1323 |
| G-035661 | 2235643 | 14918503 | 1316 | G-082143 | 2216412 | 14935656 | 1431 | G-110061 | 2195890 | 14973509 | 1591 |
| G-042048 | 2236946 | 14921908 | 1289 | G-083240 | 2240520 | 14928664 | 1396 | G-110785 | 2254980 | 14932726 | 1410 |
| G-042049 | 2235795 | 14921127 | 1274 | G-084486 | 2239162 | 14931636 | 1393 | G-112493 | 2195387 | 14931414 | 1511 |
| G-047069 | 2255655 | 14930741 | 1362 | G-085138 | 2200617 | 14967224 | 1599 | G-112649 | 2232573 | 14920596 | 1380 |
| G-047651 | 2185339 | 14941022 | 1613 | G-085821 | 2199879 | 14962263 | 1471 | G-112668 | 2192121 | 14931339 | 1538 |
| G-047854 | 2188682 | 14940469 | 1613 | G-087149 | 2190960 | 14929837 | 1505 | G-112919 | 2212233 | 14935436 | 1496 |
| G-047915 | 2233083 | 14935471 | 1331 | G-088469 | 2190327 | 14938144 | 1654 | G-112920 | 2196479 | 14927115 | 1468 |
| G-047916 | 2233117 | 14934151 | 1302 | G-089859 | 2215699 | 14935428 | 1455 | G-112933 | 2211698 | 14934372 | 1444 |
| G-048413 | 2220855 | 14923956 | 1451 | G-090757 | 2242788 | 14931445 | 1414 | G-113393 | 2190031 | 14967087 | 1679 |
| G-048577 | 2263744 | 14925598 | 1269 | G-095325 | 2189049 | 14938197 | 1636 | G-115762 | 2190021 | 14940544 | 1637 |
| G-049390 | 2205511 | 14928245 | 1475 | G-095615 | 2203493 | 14963889 | 1571 | G-116505 | 2232423 | 14916210 | 1400 |
| G-049648 | 2239840 | 14929009 | 1349 | G-096538 | 2265694 | 14921331 | 1327 | G-116653 | 2196598 | 14913605 | 1576 |
| G-050570 | 2252126 | 14940614 | 1405 | G-097146 | 2236950 | 14930320 | 1355 | G-117213 | 2250183 | 14946288 | 1370 |
| G-051627 | 2241419 | 14917160 | 1285 | G-097147 | 2236672 | 14930717 | 1343 | G-117599 | 2202830 | 14936610 | 1517 |
| G-051628 | 2242767 | 14915873 | 1287 | G-097148 | 2236736 | 14931721 | 1408 | G-117711 | 2198803 | 14922735 | 1501 |
| G-052451 | 2211156 | 14916503 | 1481 | G-098344 | 2203795 | 14962249 | 1523 | G-118090 | 2204959 | 14964203 | 1596 |
| G-052489 | 2188691 | 14939147 | 1641 | G-099151 | 2190431 | 14966258 | 1672 | G-119544 | 2204499 | 14962299 | 1563 |
| G-054173 | 2259674 | 14932181 | 1356 | G-099694 | 2227138 | 14927926 | 1430 | G-120167 | 2204331 | 14967488 | 1530 |
| G-054174 | 2259761 | 14926861 | 1289 | G-100177 | 2264331 | 14921200 | 1326 | G-120320 | 2227013 | 14932164 | 1430 |
| G-054588 | 2241363 | 14919800 | 1321 | G-100522 | 2190240 | 14966350 | 1681 | G-121737 | 2240252 | 14928927 | 1392 |
| G-054589 | 2239441 | 14920296 | 1292 | G-100534 | 2249677 | 14920871 | 1473 | G-122734 | 2237475 | 14930043 | 1394 |
| G-054591 | 2268084 | 14934787 | 1257 | G-100989 | 2258895 | 14931520 | 1397 | G-123074 | 2220066 | 14966644 | 1486 |

Table A3-4: List of Nebraska Department of Natural Resources registered groundwater wells used for lithological logs for this project with positional information.

| Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. |
|----------------------|---------|----------|-------|----------------------|---------|----------|-------|----------------------|---------|----------|-------|
| G-054967 | 2223482 | 14921387 | 1494 | G-102475 | 2224010 | 14915343 | 1442 | G-123369 | 2194842 | 14931076 | 1561 |
| G-055048 | 2257652 | 14930125 | 1354 | G-103369 | 2186340 | 14940589 | 1624 | G-123538 | 2220702 | 14970281 | 1480 |
| G-055125 | 2249568 | 14937903 | 1437 | G-103802 | 2258490 | 14923541 | 1347 | G-123935 | 2197570 | 14930349 | 1549 |
| G-055487 | 2210278 | 14923719 | 1448 | G-104587 | 2240583 | 14925526 | 1341 | G-124639 | 2223134 | 14915244 | 1466 |
| G-055678 | 2256751 | 14938760 | 1354 | G-155273 | 2204989 | 14963575 | 1602 | G-125450 | 2191748 | 14966000 | 1599 |
| G-056921 | 2257304 | 14946054 | 1322 | G-155290 | 2264559 | 14933607 | 1308 | G-125504 | 2189138 | 14961748 | 1667 |
| G-060001 | 2214147 | 14930537 | 1480 | G-155302 | 2229322 | 14978316 | 1417 | G-126351 | 2258825 | 14928801 | 1341 |
| G-061980 | 2213130 | 14915885 | 1411 | G-155600 | 2205110 | 14975312 | 1627 | G-126382 | 2216056 | 14935543 | 1427 |
| G-065496 | 2234113 | 14918974 | 1366 | G-156071 | 2217130 | 14929558 | 1494 | G-127247 | 2257787 | 14924168 | 1326 |
| G-127387 | 2213422 | 14920143 | 1429 | G-156828 | 2234846 | 14917908 | 1382 | G-141415 | 2232153 | 14970580 | 1516 |
| G-127997 | 2193103 | 14940369 | 1620 | G-157122 | 2190897 | 14912968 | 1533 | G-055773 | 2217557 | 14978845 | 1513 |
| G-128237 | 2237553 | 14932359 | 1427 | G-157559 | 2208564 | 14909097 | 1356 | G-074246 | 2211584 | 14979343 | 1527 |
| G-129041 | 2204854 | 14962833 | 1570 | G-159138 | 2206456 | 14925186 | 1445 | G-064385 | 2208964 | 14979204 | 1585 |
| G-129886 | 2195218 | 14945581 | 1567 | G-159454 | 2254496 | 14941984 | 1345 | G-153579 | 2206314 | 14979105 | 1592 |
| G-130072 | 2219467 | 14976890 | 1581 | G-159534 | 2195882 | 14976270 | 1652 | G-167713 | 2203891 | 14979343 | 1553 |
| G-131905 | 2209625 | 14935188 | 1483 | G-161117 | 2190248 | 14942691 | 1636 | G-063719 | 2195803 | 14979025 | 1602 |
| G-133411 | 2216998 | 14925037 | 1542 | G-163962 | 2185527 | 14910270 | 1519 | G-091285 | 2204540 | 14954087 | 1436 |
| G-135140 | 2232100 | 14915615 | 1372 | G-165496 | 2266901 | 14922865 | 1303 | G-150959 | 2204819 | 14955882 | 1458 |
| G-137469 | 2239013 | 14923014 | 1313 | G-165842 | 2216213 | 14962570 | 1488 | G-146759 | 2206510 | 14950170 | 1536 |
| G-137703 | 2200971 | 14929989 | 1528 | G-166091 | 2216352 | 14969435 | 1540 | G-129835 | 2207299 | 14944776 | 1631 |
| G-137713 | 2206242 | 14923091 | 1466 | G-166099 | 2192374 | 14967444 | 1644 | G-080726 | 2232744 | 14939547 | 1394 |
| G-137714 | 2227582 | 14919219 | 1434 | G-166125 | 2213200 | 14919528 | 1441 | G-054996 | 2229865 | 14937515 | 1344 |
| G-137715 | 2205460 | 14935464 | 1543 | G-166326 | 2252334 | 14937909 | 1387 | G-163720 | 2184775 | 14934965 | 1603 |
| G-139814 | 2222474 | 14963903 | 1455 | G-166327 | 2263025 | 14927533 | 1333 | G-118089 | 2231707 | 14978978 | 1420 |
| G-141209 | 2204956 | 14963372 | 1594 | G-166999 | 2220708 | 14970158 | 1480 | G-054459 | 2232987 | 14963931 | 1531 |
| G-142635 | 2189489 | 14913592 | 1564 | G-167390 | 2222059 | 14970271 | 1500 | G-139348 | 2243428 | 14929362 | 1433 |
| G-143103 | 2210309 | 14970161 | 1579 | G-167391 | 2219659 | 14970856 | 1504 | G-155630 | 2247151 | 14928443 | 1504 |
| G-144382 | 2239167 | 14932211 | 1406 | G-167593 | 2221100 | 14966614 | 1486 | G-116997 | 2247301 | 14920701 | 1427 |
| G-145154 | 2189506 | 14913521 | 1563 | G-167617 | 2266962 | 14930227 | 1285 | G-094537 | 2254154 | 14919584 | 1420 |
| G-146308 | 2188675 | 14910971 | 1548 | G-167675 | 2215964 | 14921186 | 1513 | G-094905 | 2255888 | 14920312 | 1340 |
| G-146685 | 2204895 | 14964313 | 1591 | G-167966 | 2224939 | 14969107 | 1563 | G-086117 | 2269287 | 14948369 | 1409 |
| G-148041 | 2219447 | 14919050 | 1469 | G-168833 | 2200261 | 14972444 | 1628 | G-129039 | 2248332 | 14921143 | 1440 |
| G-149729 | 2264001 | 14923285 | 1314 | G-169366 | 2198595 | 14971778 | 1566 | G-032969 | 2237163 | 14910016 | 1297 |

EXPLORATION RESOURCES INTERNATIONAL

| Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. | Well Registration | Easting | Northing | Elev. |
|----------------------|---------|----------|-------|----------------------|---------|----------|-------|----------------------|---------|----------|-------|
| G-151199 | 2222288 | 14925904 | 1509 | G-169418 | 2262001 | 14936922 | 1287 | G-101688 | 2236172 | 14914540 | 1372 |
| G-151760 | 2216751 | 14925446 | 1543 | G-169681 | 2242978 | 14931387 | 1417 | G-129845 | 2224776 | 14914472 | 1389 |
| G-151816 | 2201147 | 14972129 | 1652 | G-170027 | 2254147 | 14934371 | 1360 | G-053578 | 2221182 | 14913992 | 1455 |
| G-152858 | 2198425 | 14962986 | 1490 | G-170067 | 2258677 | 14931551 | 1394 | G-096640 | 2191072 | 14923959 | 1579 |
| G-153462 | 2190031 | 14967155 | 1678 | G-170073 | 2213200 | 14919533 | 1441 | G-150519 | 2189131 | 14961739 | 1667 |
| G-155144 | 2224555 | 14931906 | 1413 | G-170560 | 2218517 | 14977596 | 1536 | G-058478 | 2184826 | 14932003 | 1609 |
| G-155269 | 2223788 | 14928745 | 1418 | G-171541 | 2186234 | 14940475 | 1623 | G-127358 | 2237486 | 14929891 | 1386 |
| G-065497 | 2260136 | 14935539 | 1344 | G-132205 | 2192487 | 14960745 | 1672 | G-154245 | 2201705 | 14947117 | 1581 |
| G-066283 | 2205273 | 14936165 | 1555 | G-126705 | 2202276 | 14960556 | 1460 | G-063179 | 2195803 | 14979025 | 1602 |
| G-067257 | 2212492 | 14915211 | 1409 | G-118208 | 2206351 | 14960996 | 1582 | G-057853 | 2199032 | 14978935 | 1630 |
| G-067893 | 2235789 | 14932882 | 1362 | G-146949 | 2220336 | 14958482 | 1425 | G-172586 | 2205418 | 14912448 | 1398 |
| G-068240 | 2263634 | 14932218 | 1345 | G-119472 | 2231772 | 14967686 | 1513 | G-146579 | 2206510 | 14950170 | 1536 |

The seven (7) lithological logs that were obtained from the Nebraska Statewide Test-hole Database can be located through the following link: http://snr.unl.edu/data/geologysoils/NebraskaTestHole/NebraskaTestHoleIntro.asp

Table A3-5 lists all Nebraska Statewide Test-hole Database wells used for this project along with their positional information in Easting and Northings (UTM) and elevation (NAVD 88) in ft. The detailed lithology logs are also provided with the Meta data as a comma separated file with the following name: LPSNRD_CSD.csv.

| CSD Test Hole | Easting | Northing | Elev. |
|---------------|---------|----------|-------|
| 3-B-76 | 2205103 | 14914560 | 1433 |
| 4-B-76 | 2206210 | 14935231 | 1136 |
| 5-B-76 | 2205075 | 14945835 | 1610 |
| 6-B-48 | 2237342 | 14914883 | 1148 |
| 6-B-77 | 2205549 | 14977885 | 1561 |
| 7-B-48 | 2237798 | 14931852 | 1166 |
| 7-B-77 | 2205310 | 14962168 | 1535 |

 Table A3-5: List of Nebraska Statewide test-hole database wells used for lithological logs for this project with positional information.

The remaining four (4) lithological logs were from deeper wells, obtained from the Nebraska Oil and Gas Conservation Commission which can be obtained through the following link: <u>http://www.nogcc.ne.gov/oINOGCCOnlineGIS/</u>

Table A3-6 lists all Nebraska Oil and Gas Conservation Commission wells used for this project along with their positional information in Easting and Northings (UTM) and elevation (NAVD 88) in ft. Image files of the lithological logs for all of the Nebraska Oil and Gas Conservation Commission wells used for this project are provided with the Meta data as .tif files are named according to Well ID.

| Table A3-6: List of Nebraska Oil and Gas Conservation Commission wells used for lithologica |
|---|
| logs for this project with positional information. |

| Well ID | Easting | Northing | Elev. |
|------------------|---------|----------|-------|
| 2602319000000-1 | 2203408 | 14958450 | 1429 |
| 26023190090000-1 | 2188129 | 14962836 | 1651 |
| 26155000060000-1 | 2234282 | 14947041 | 1486 |
| 26155190020000-1 | 2245137 | 14971040 | 1378 |

Geologic Cross Sections

Two historic geologic cross sections were obtained from the LPSNRD and used in the interpretation of the AEM data. The cross sections were geo-located using the positions of the wells listed in Table A3-10 with Easting and Northings in feet (UTM). The images of the two cross sections are provided with the Meta data as .pdf files with the following file names:

SAU-205_Valparaiso.pdf SAU-216_oak_creek_valley.pdf

| Cross Section | Well ID | Easting | Northing |
|--------------------------|----------|-------------|-------------|
| SAU-205_Valparaiso | 4-A-48 | 2237924.361 | 14946818.87 |
| SAU-205_Valparaiso | 7-B-49 | 2237775.413 | 14931700.02 |
| SAU-205_Valparaiso | 6-B-48 | 2237319.283 | 14914731.59 |
| SAU-205_Valparaiso | 3-A-48 | 2237955.791 | 14898918.17 |
| SAU-216_oak_creek_valley | 9-SE-NW | 2229701.036 | 14938586.75 |
| SAU-216_oak_creek_valley | 15-NW-NW | 2232761.563 | 14935241.61 |
| SAU-216_oak_creek_valley | 15-NW-SW | 2233503.024 | 14933279.7 |
| SAU-216_oak_creek_valley | 15-SE-NW | 2236222.807 | 14932607.13 |
| SAU-216_oak_creek_valley | 84-1 | 2236924.242 | 14930209.1 |
| SAU-216_oak_creek_valley | 81-1 | 2236544.326 | 14927938.55 |
| SAU-216_oak_creek_valley | 81-5 | 2237604.024 | 14926140.67 |
| SAU-216_oak_creek_valley | 27-SE-NE | 2237863.01 | 14923130.8 |
| SAU-216_oak_creek_valley | 35-NE-NW | 2239421.587 | 14920172.9 |

 Table A3-10: List of positional information for historic geologic cross sections.

Appendix 4 Ancillary Geophysical Data

Instrumentation

Instrumentation of the SkyTEM includes a time domain electromagnetic (TDEM) system (one transmitter [Tx] and two receivers [Rx] positioned orthogonally in line with the x and z axes) and a magnetometer as well as data acquisition systems for both of these instruments. The SkyTEM also includes two each of laser altimeters, inclinometers/tilt meters and DGPS receivers. Positional data from the frame mounted DGPS receivers are recorded by the TDEM data acquisition system. The magnetometer includes a third DGPS receiver, this positional data is recorded by the magnetometer data acquisition system. Figure A4-1 gives a simple illustration of the SkyTEM frame and instrument locations, the image is viewed along the +z axis looking at the horizontal x-y plane. The axes for the image are labelled with distance in meters. The square symbols denote the locations of the altimeters, the triangles denote the DGPS positions and the circles denote the inclinometers. The magnetometer is located on a boom off the front of the frame (right side of image, arrow indicates +x direction as well as direction of flight). The TDEM Tx coil is located around the octagonal frame and the Rx Coils (x and z) are located at the back of the frame, left side of image).



SkyTEM 304 System

Figure A4-1: Simple illustration of SkyTEM frame showing instrumentation location.

The coordinate system used defines the +x direction as the direction of flight, the +y direction is defined 90° to the right and the +z direction is downward. The center of the transmitter loop, mounted to the octagonal SkyTEM frame is used as the origin when considering instrumentation positions. Table A4.1 lists the positions of the instruments (in meters) and Table A4.2 lists the corners of the transmitter loop (labeled in red numbers in Figure A4-1).

| Instrument | DGPS 1 | DGPS 2 | Inclinometer 1 | Inclinometer 2 | Altimeter HE1 | Altimeter HE2 | X Rx Coil | Z Rx Coil |
|------------|-----------|-----------|-------------------|-------------------|------------------|------------------|--------------|--------------|
| Х | 9.90 | 9.90 | -11.65 | -11.65 | 5.13 | 5.13 | -13.60 | -12.50 |
| Y | 2.69 | 3.66 | 0.50 | 0.50 | 7.85 | -7.79 | 0.00 | 0.00 |
| Z | -0.28 | -0.28 | -0.37 | -0.37 | -0.13 | -0.13 | -0.02 | -2.21 |

Table A4-1: Instrumentation position on the SkyTEM frame.

Table A4-2: Corner positions of TX loop on the SkyTEM frame.

| ТХ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------|------|-------|-------|-------|-------|--------|--------|-------|
| Corners | | | | | | | | |
| Х | 5.68 | 11.87 | 11.87 | 5.68 | -5.68 | -11.87 | -11.87 | -5.68 |
| Y | 8.22 | 2.03 | -2.03 | -8.22 | -8.22 | -2.03 | 2.03 | 8.22 |

Magnetometer base station locations are listed in Table A4-3. Table A4-3 gives the type of base station and positional information in Easting and Northings (UTM) and elevation (NAVD 88) in ft.

Table A4-3: Locations of magnetometer base stations.

| Instrument | X, Easting | Y, Northing | Elevation |
|-------------------------------------|------------|-------------|-----------|
| Primary Magnetometer Base Station | 2214602 | 14910977 | 1378 |
| Secondary Magnetometer Base Station | 2214579 | 14911065 | 1381 |

Ground-Based TDEM Inversions

The results of the final inversion of the ground-based TDEM data area presented on pages 173-179. Each page contains a plot of the change in the magnetic field with respect to time (dB/dt Plot, upper left), a plot of the apparent resistivity with respect to time (App. Res. Plot, lower left) and a plot of the final inverted earth resistivity model (Model, right).

Ground TDEM Model Results









LPS-TEM4B











LPS-TEM8











Appendix 5 LPSNRD Recorder Well Data













Appendix 6 Historic Cross Sections



Figure A6-1: Cross section SAU-5 represented in Figure 4-15.



Figure A6-2: Cross section SAU-6 represented in Figure 4-15.



Figure A6-3: Cross section at north Oak Creek from SAU-6.