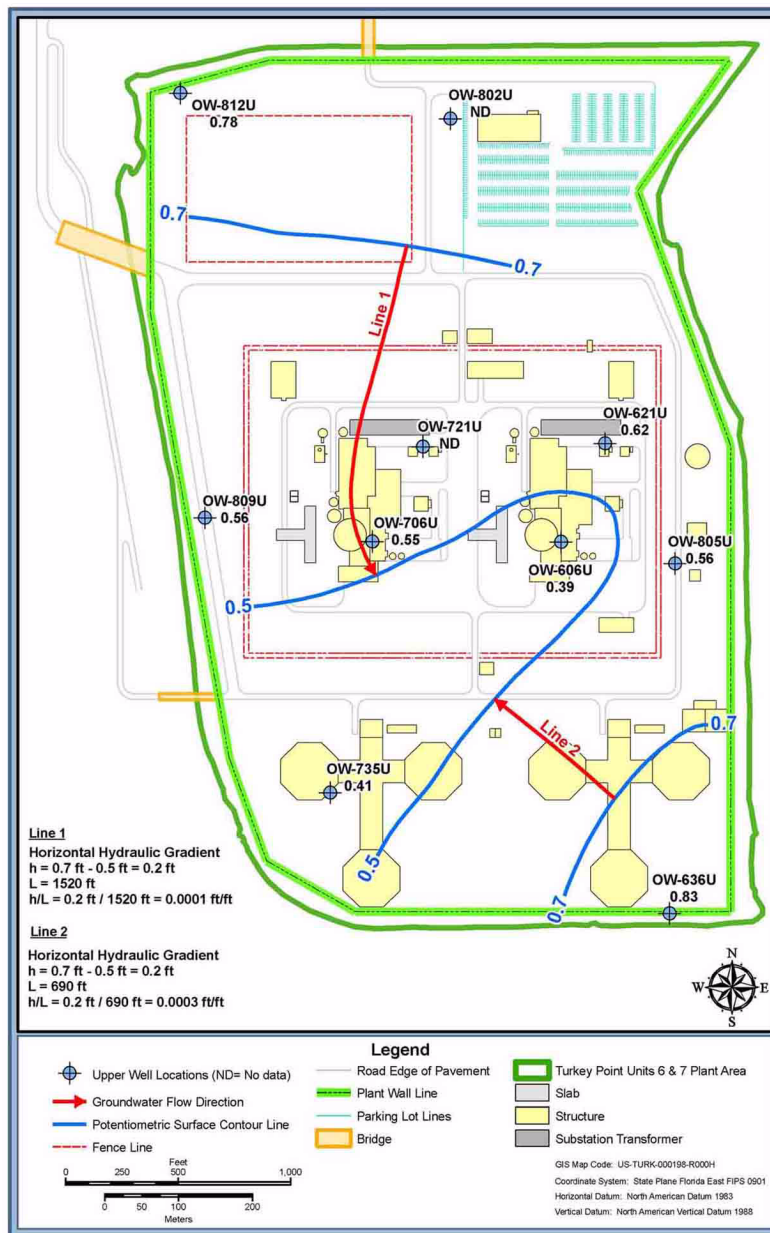


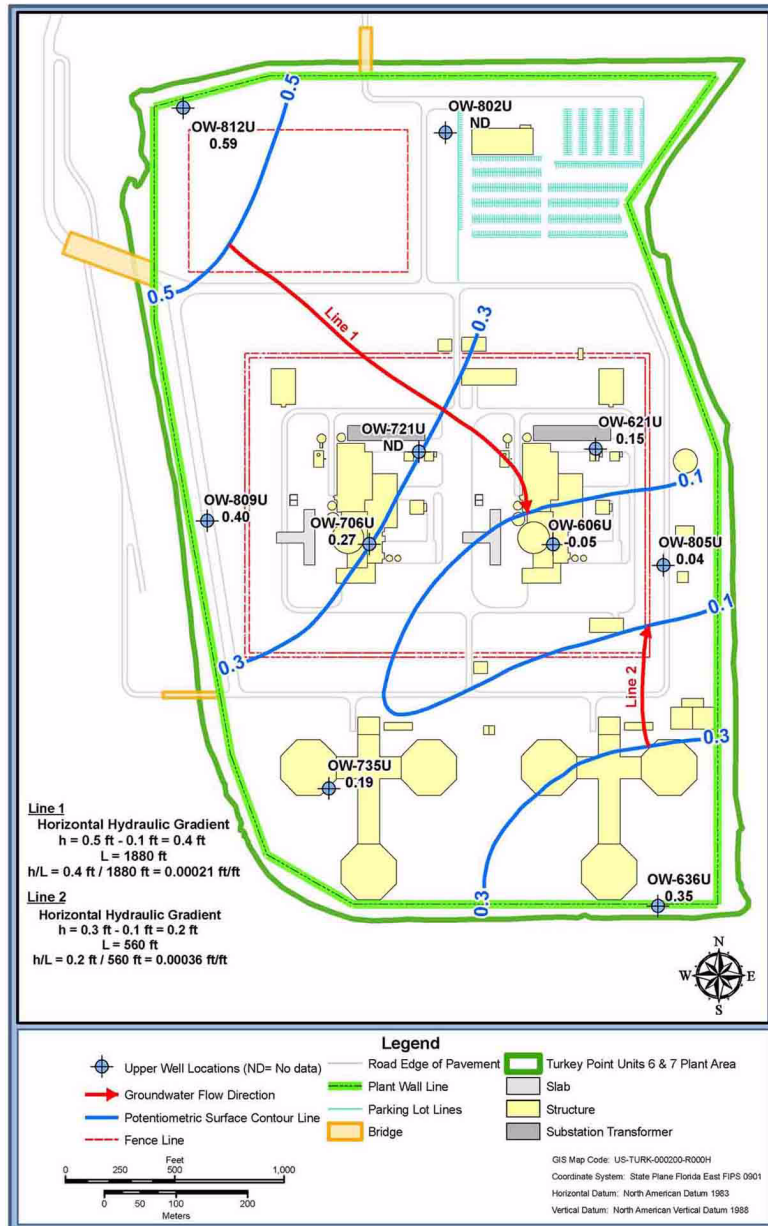
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-32 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 1 of 2) High Tide**



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**Figure 2.3-32 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 2 of 2) Low Tide**





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COL Application  
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**Figure 2.3-33 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, October 5, 2008 (Sheet 1 of 2) High Tide**



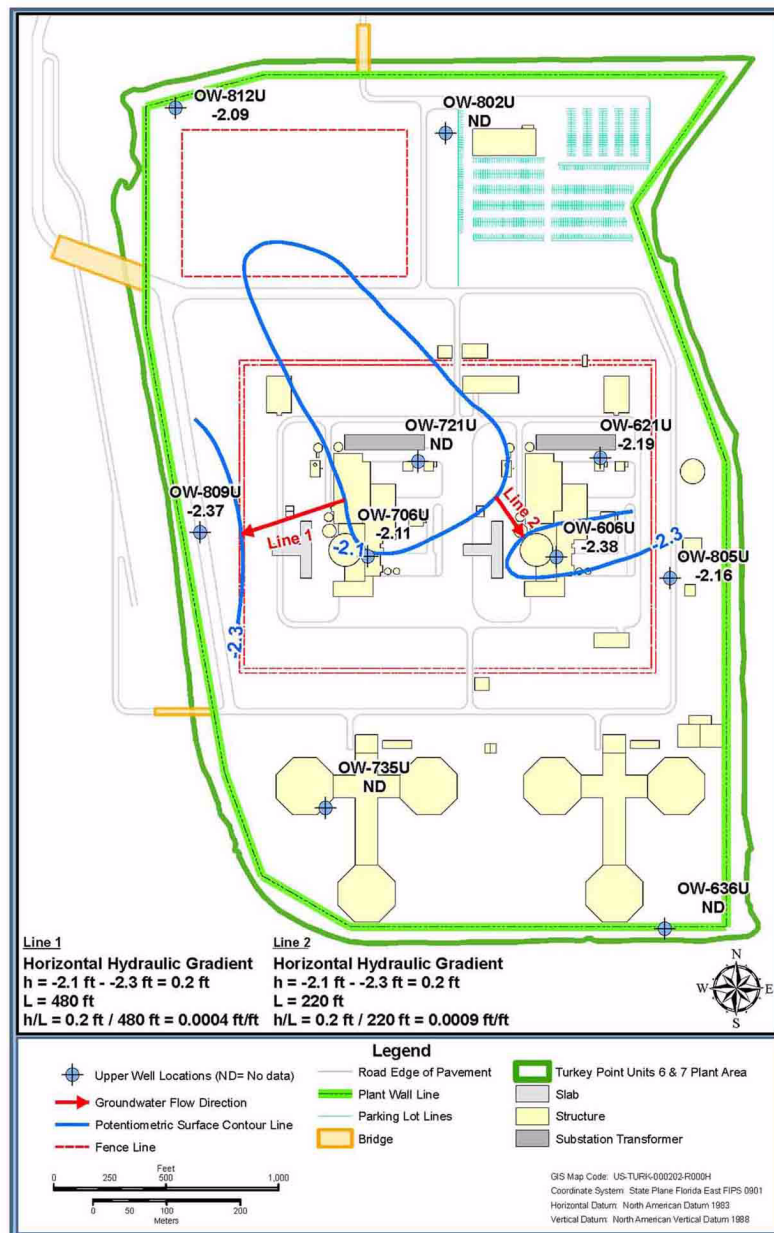
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

**Figure 2.3-33 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, October 5, 2008 (Sheet 2 of 2) Low Tide**



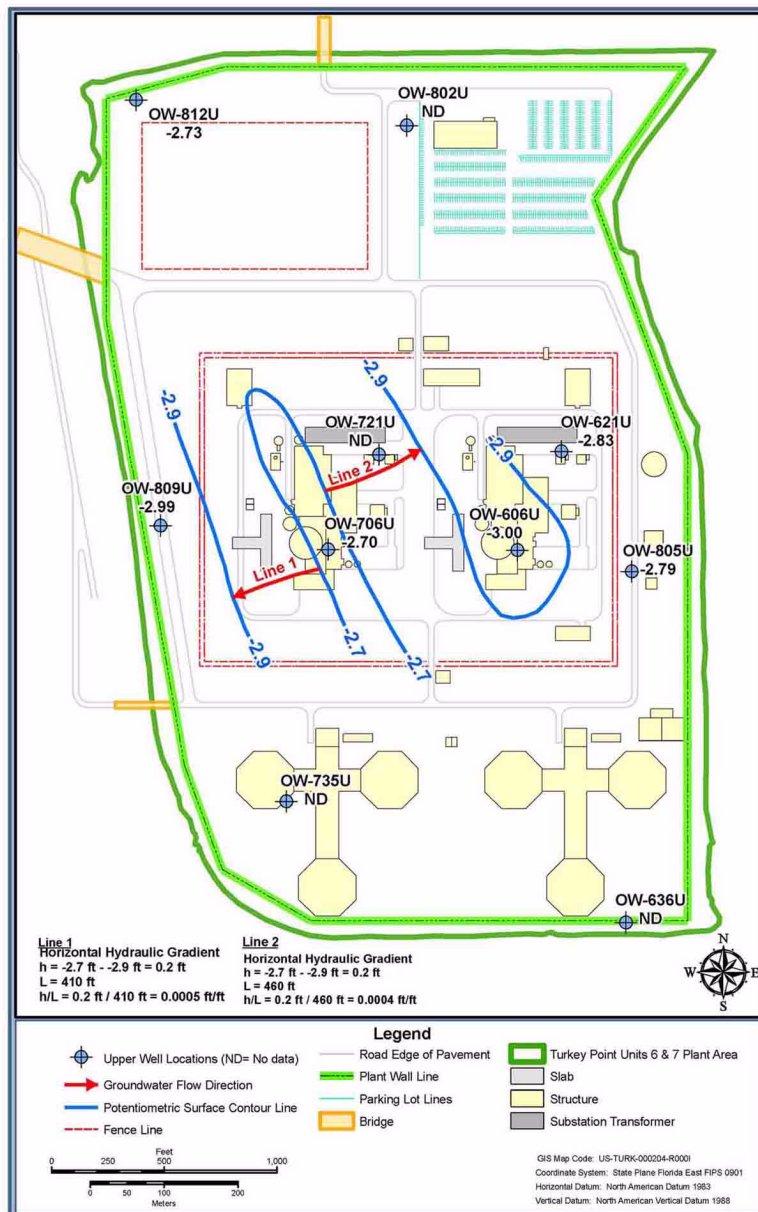
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-34 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 20-21, 2009 (Sheet 1 of 2) High Tide**



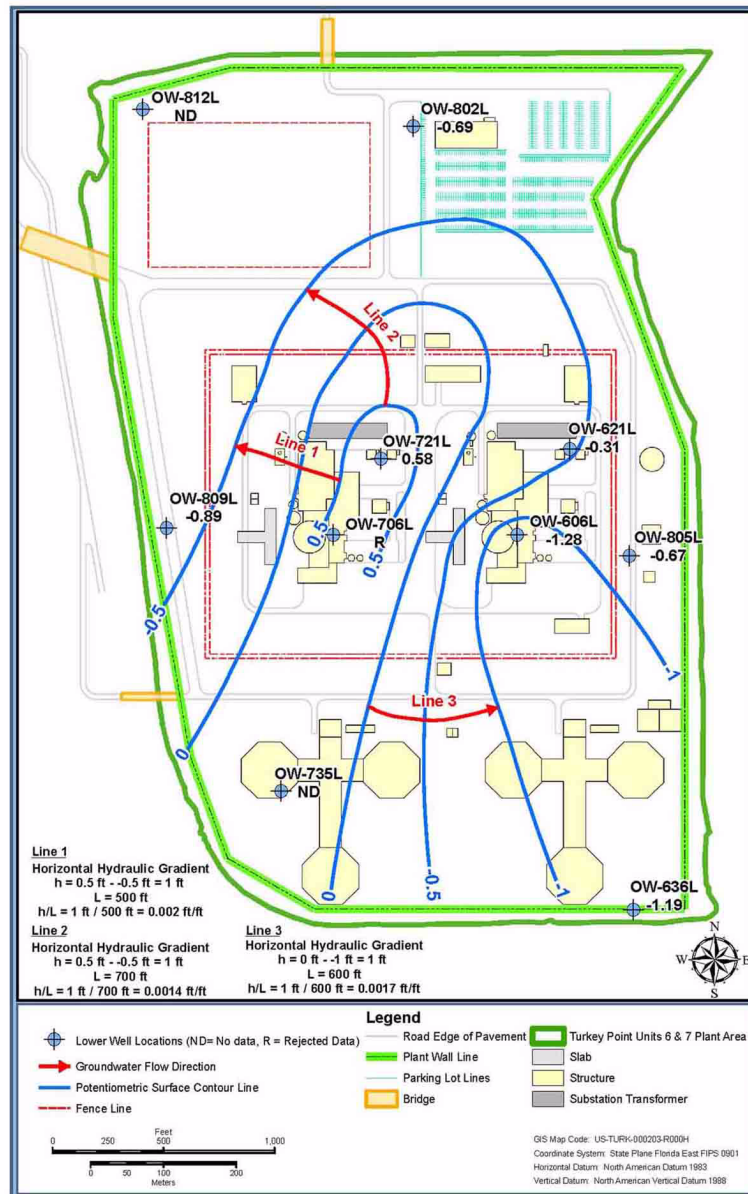
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-34 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 20-21, 2009 (Sheet 2 of 2) Low Tide**



Turkey Point Units 6 & 7  
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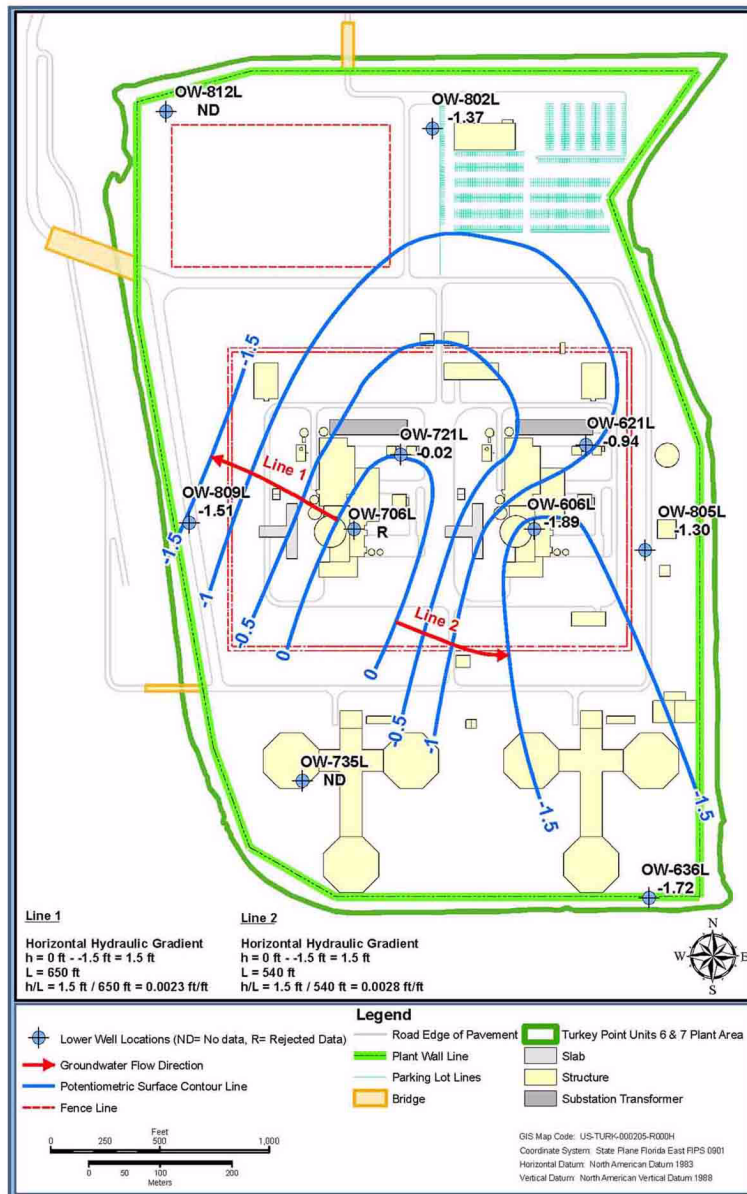
**Figure 2.3-35 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 20-21, 2009 (Sheet 1 of 2) High Tide**





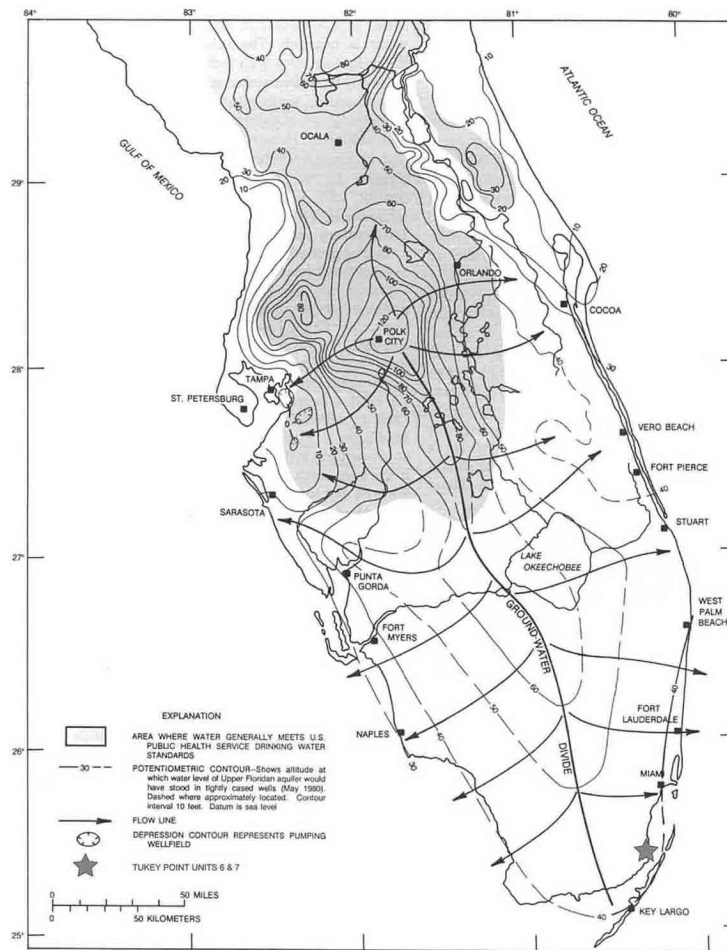
Turkey Point Units 6 & 7  
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**Figure 2.3-35 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 20-21, 2009 (Sheet 2 of 2) Low Tide**



Turkey Point Units 6 & 7  
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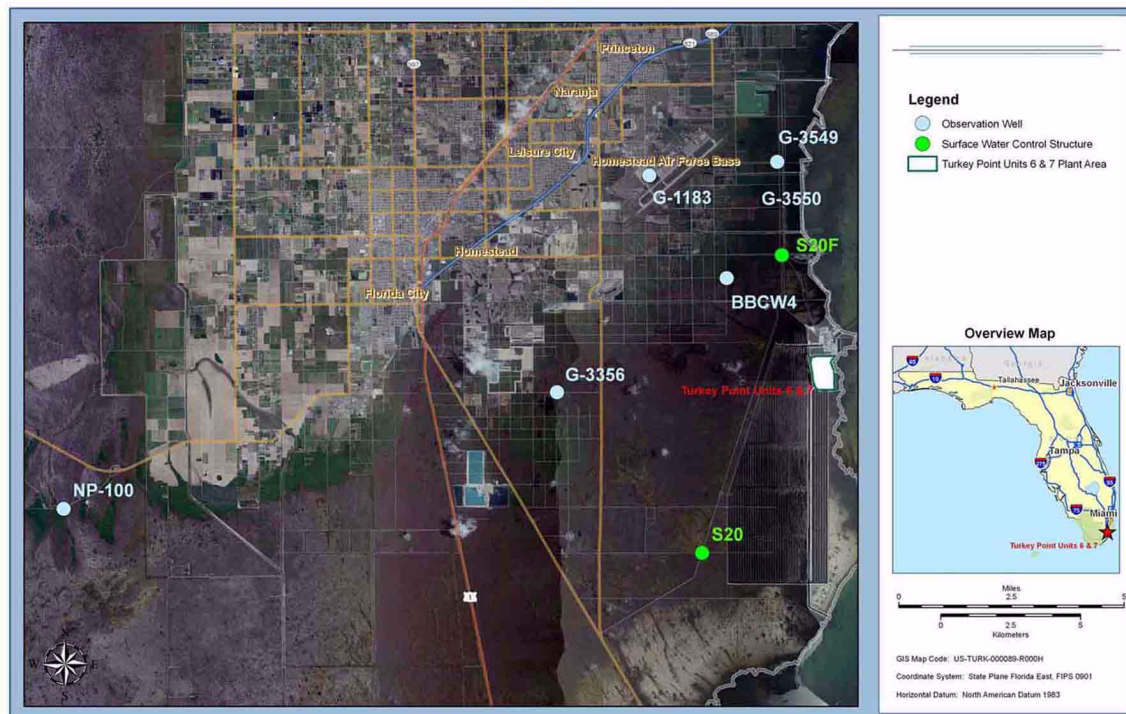
**Figure 2.3-36 May 1980 Upper Floridan Aquifer Potentiometric Surface Map**



Modified from Meyer 1989

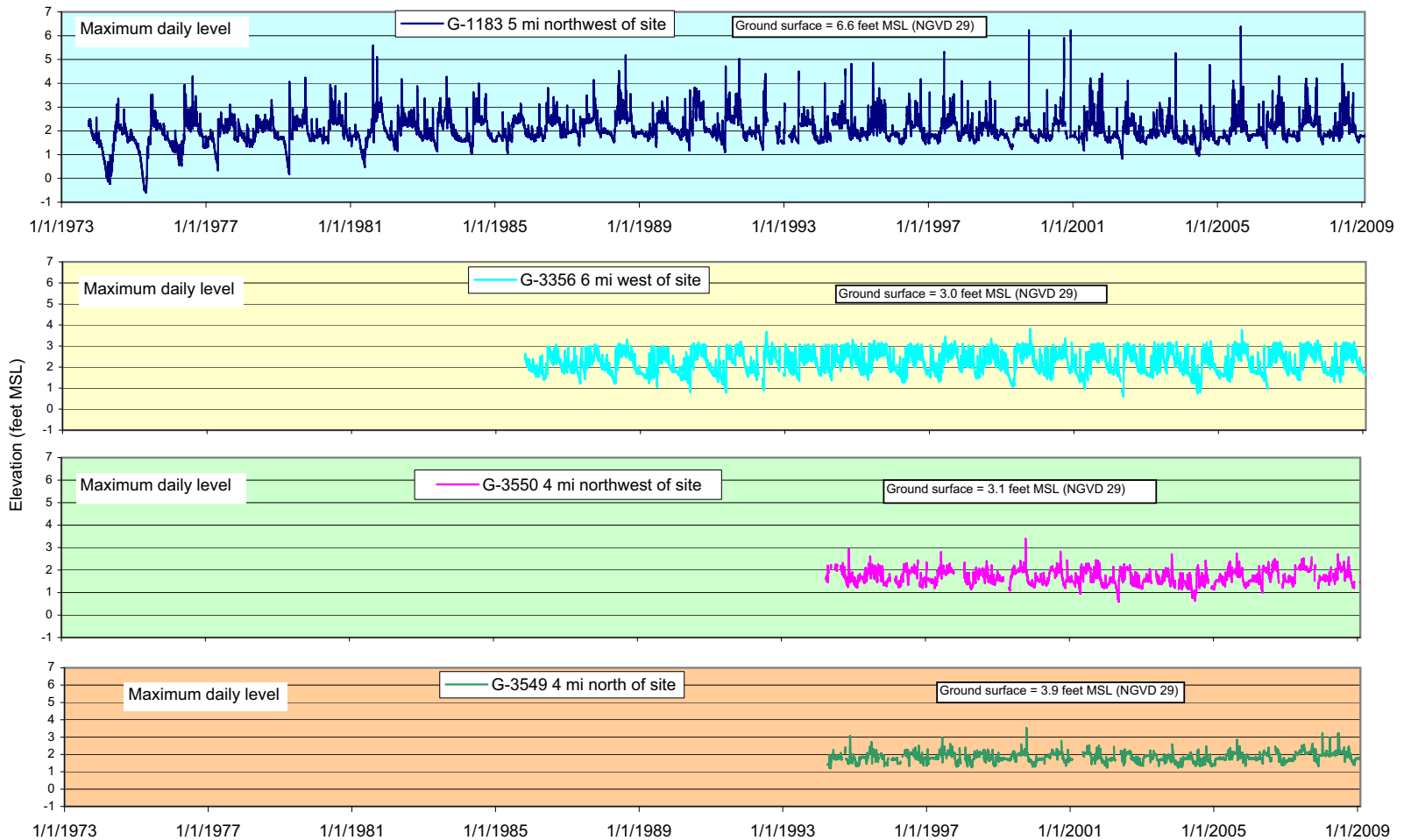
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-37 Observation Wells and Surface Water Monitoring Locations in the Vicinity of the Turkey Point Plant Property**



Turkey Point Units 6 & 7  
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**Figure 2.3-38 Hydrographs of U.S. Geological Survey Wells in the Biscayne Aquifer**

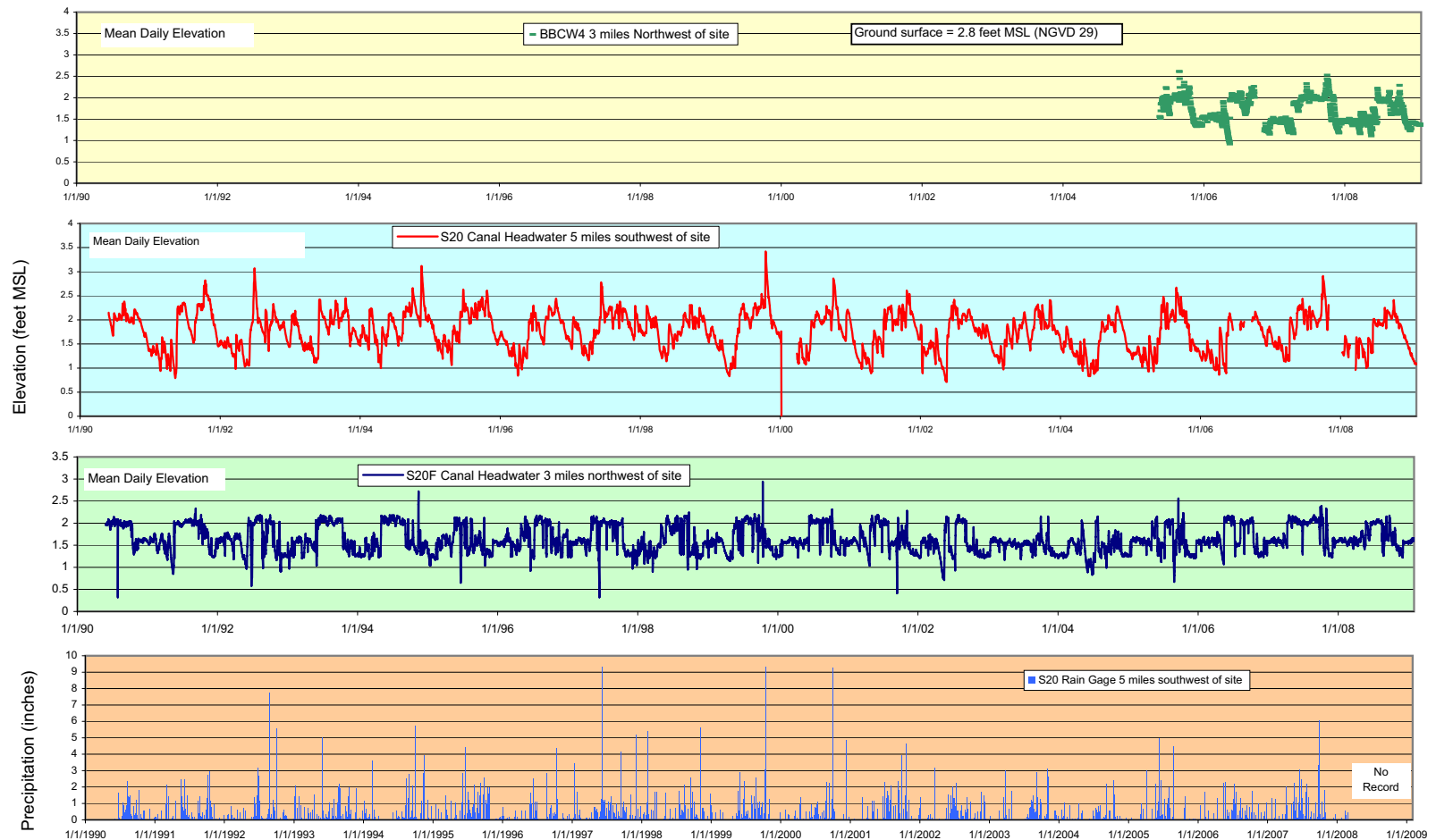


Reference USGS 2009

Hydrographs include data through 1/31/2009, additional data is available through USGS 2009.

Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-39 Hydrographs of South Florida Water Management District Well and Canal Levels and Precipitation**



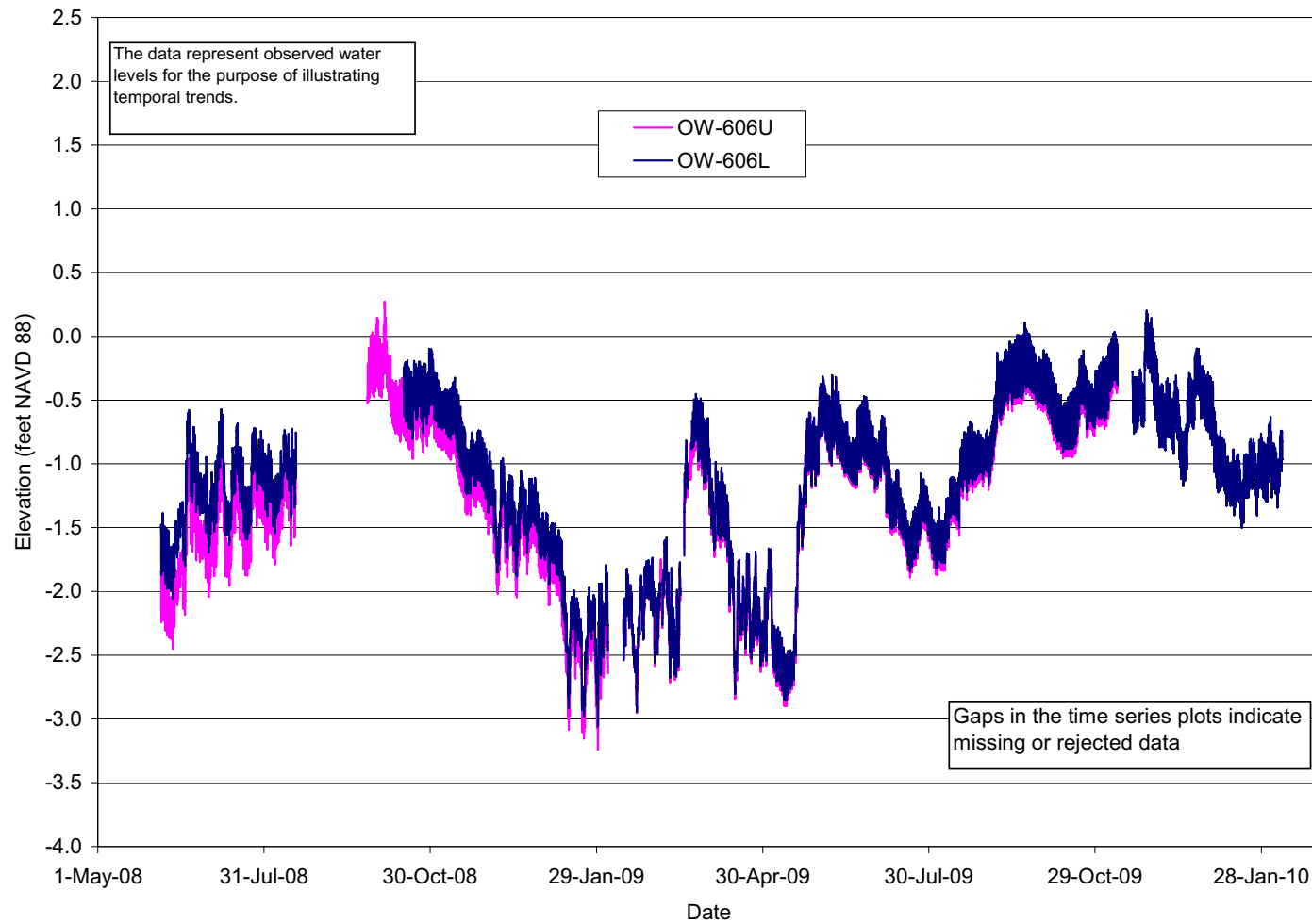
Reference SFWMD 2009

Hydrographs include data through 1/31/2009 (3/17/2008 for S20 Rain gage), additional data is available through SFWMD 2009.



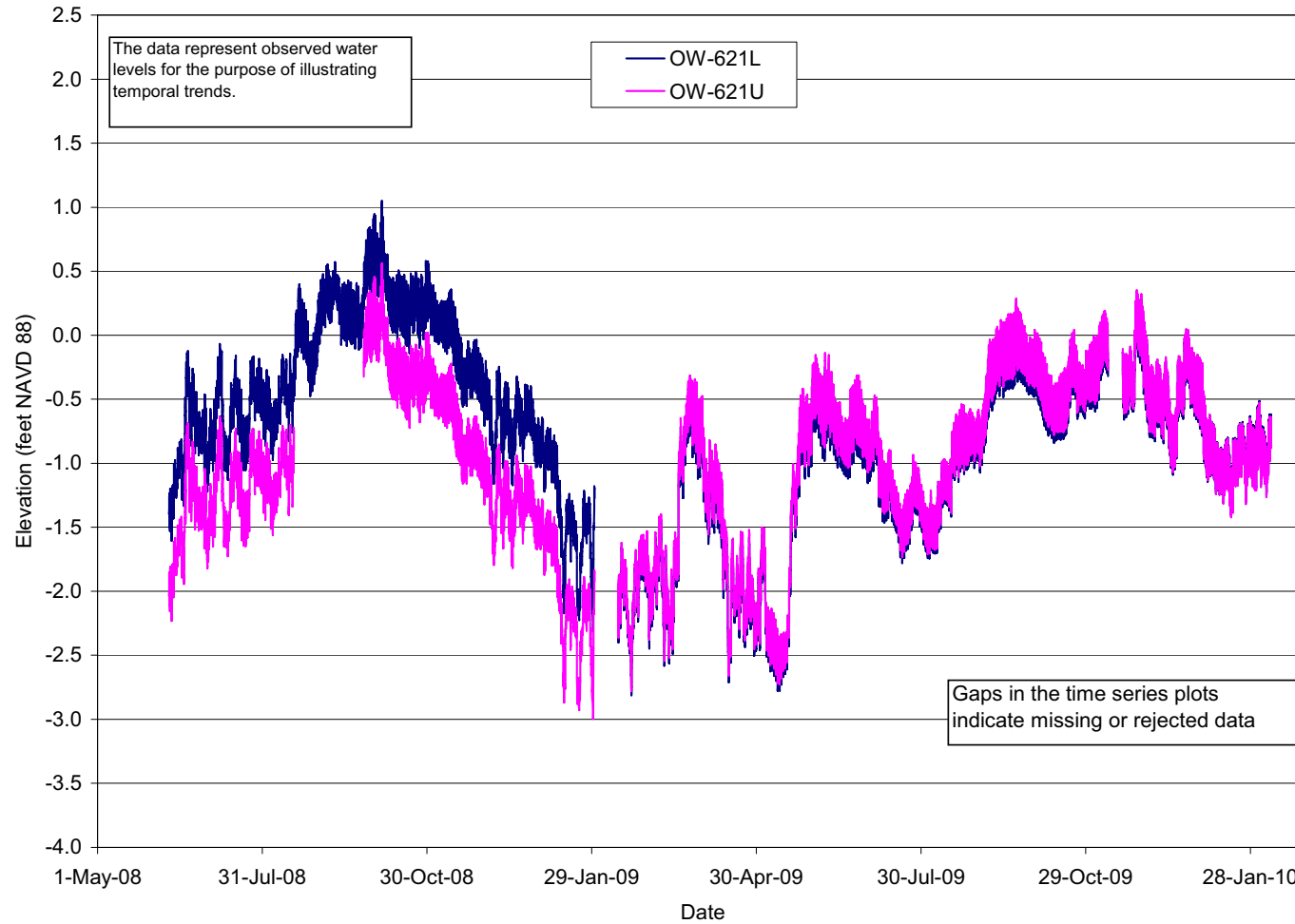
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 1 of 11)**



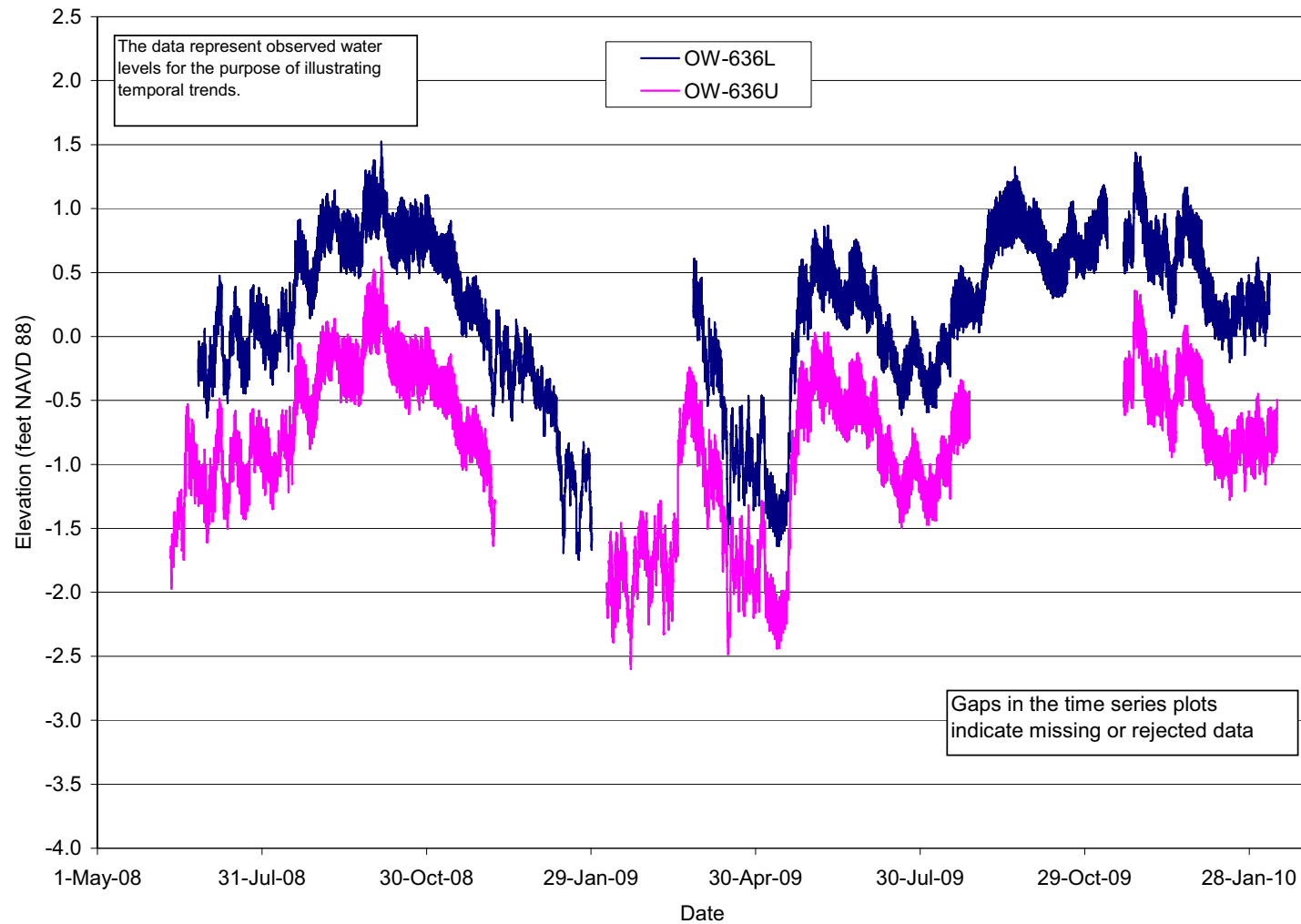
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 2 of 11)**



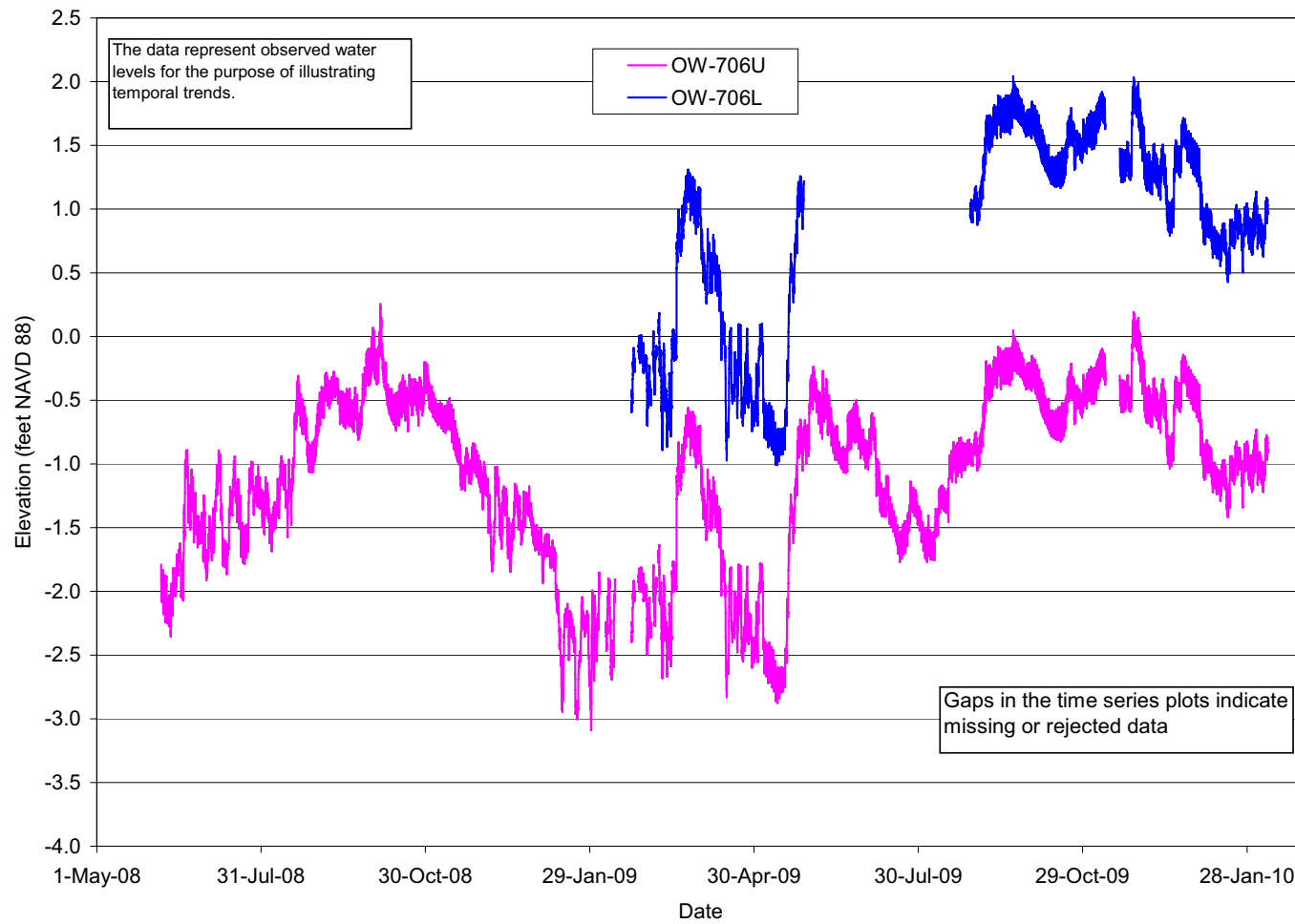
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 3 of 11)**



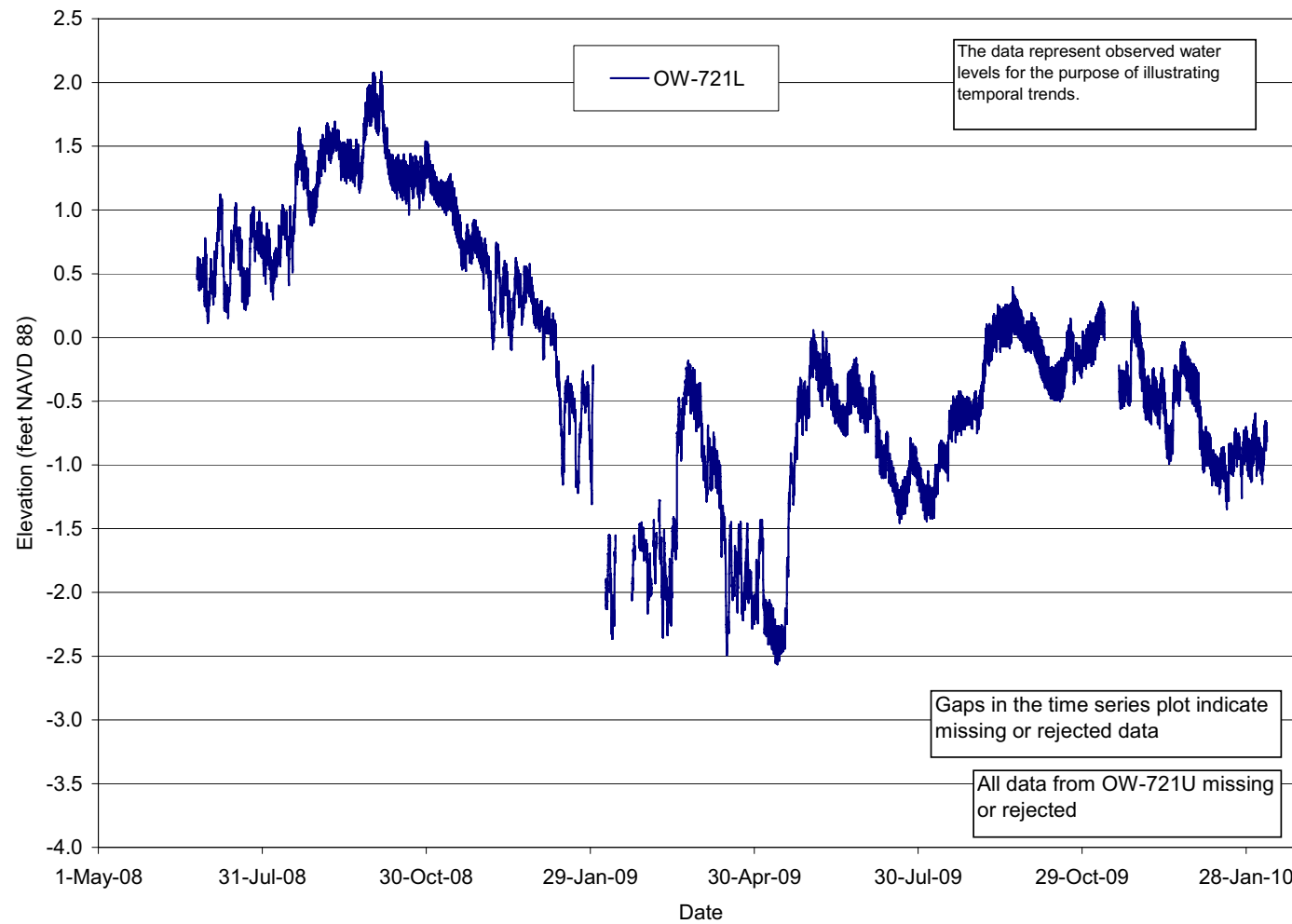
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 4 of 11)**



Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

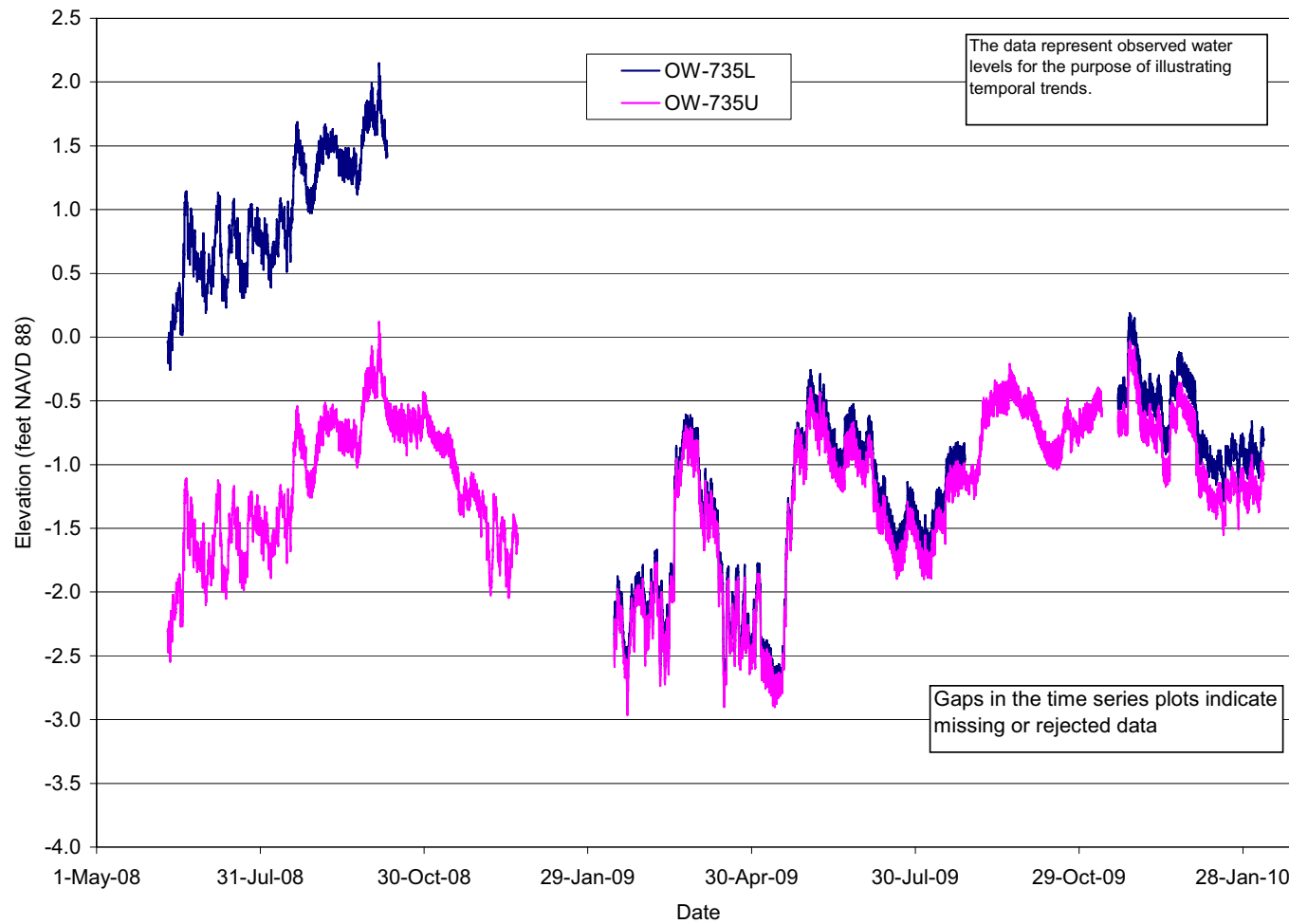
**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 5 of 11)**





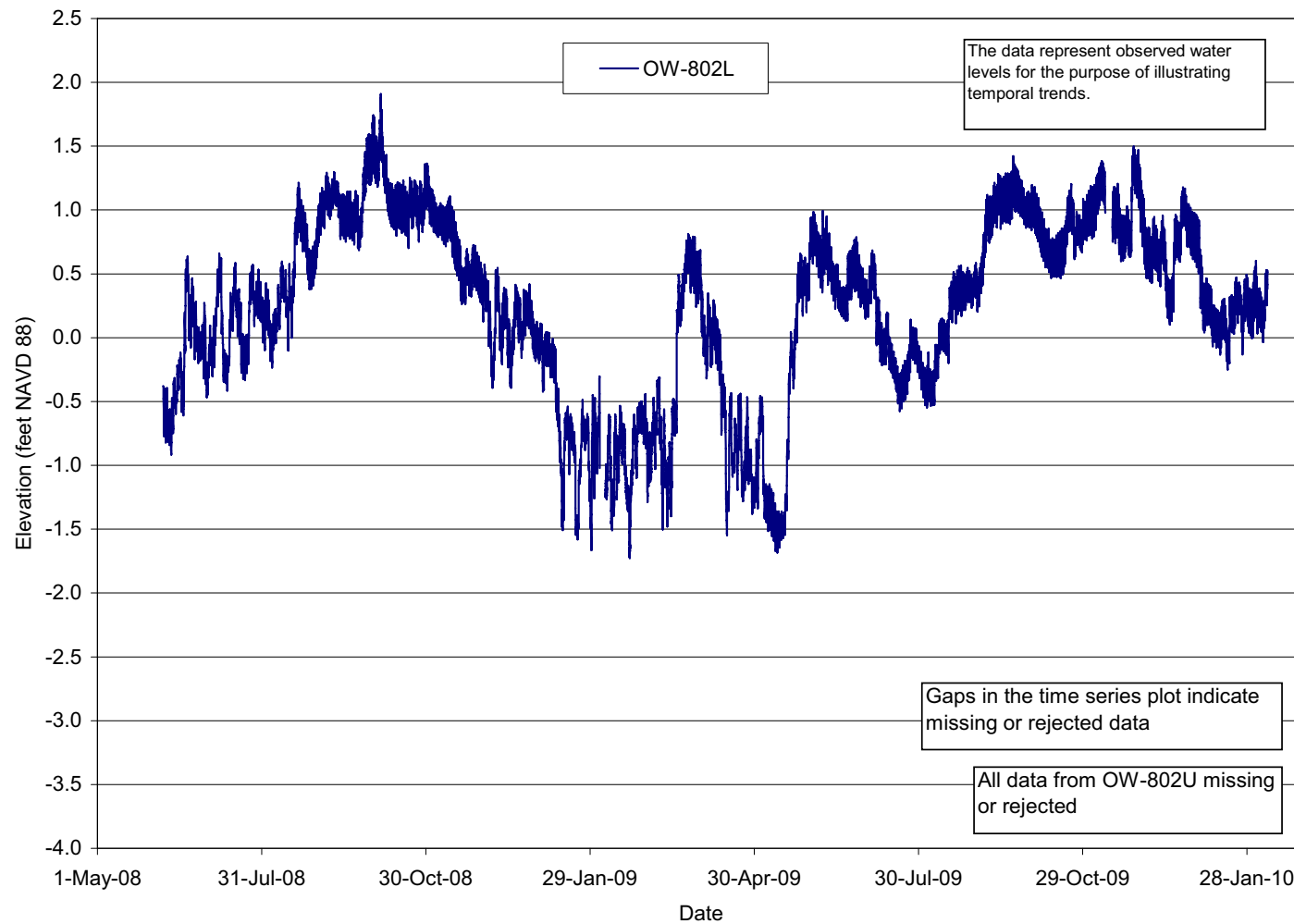
Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 6 of 11)**



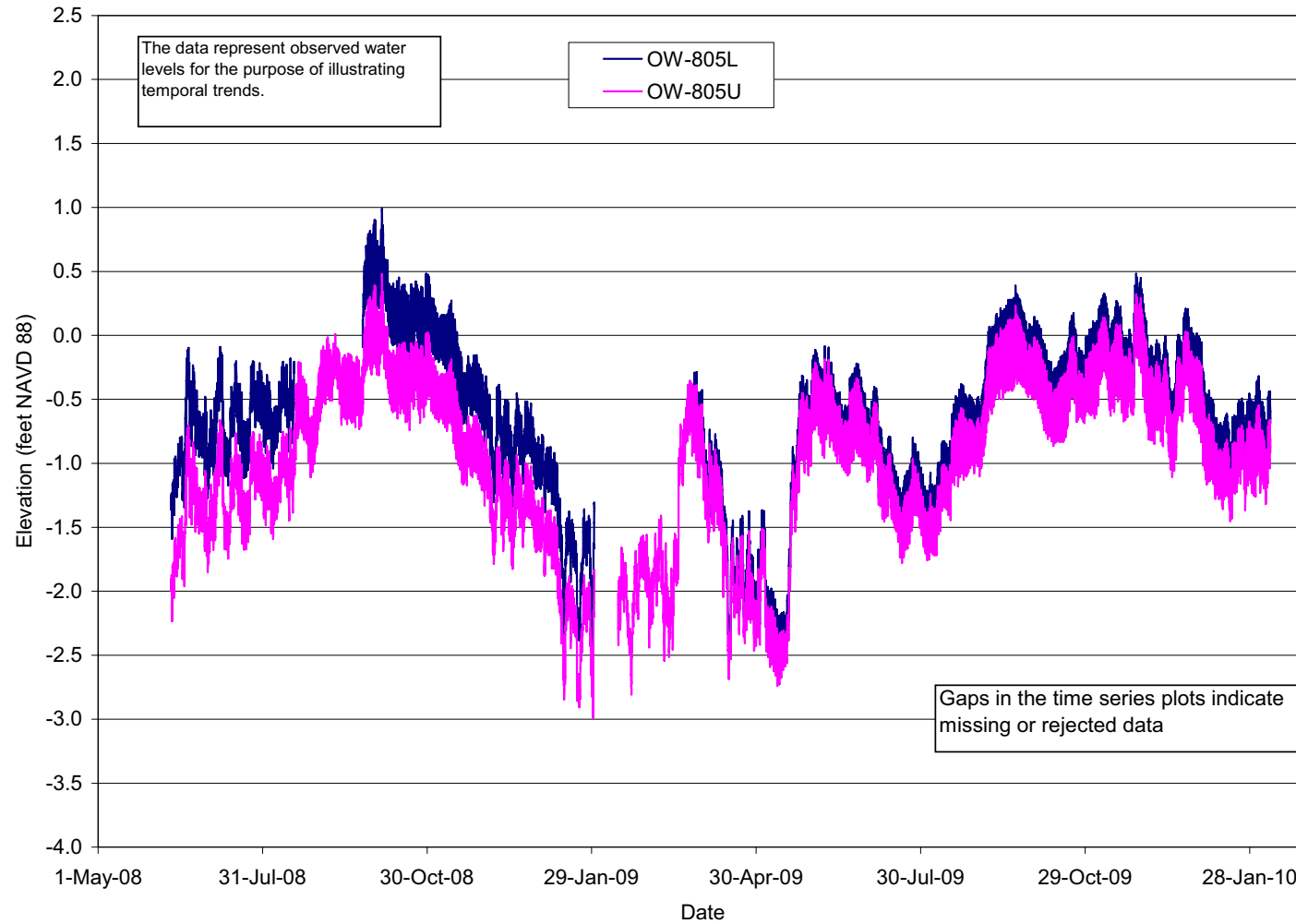
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 7 of 11)**



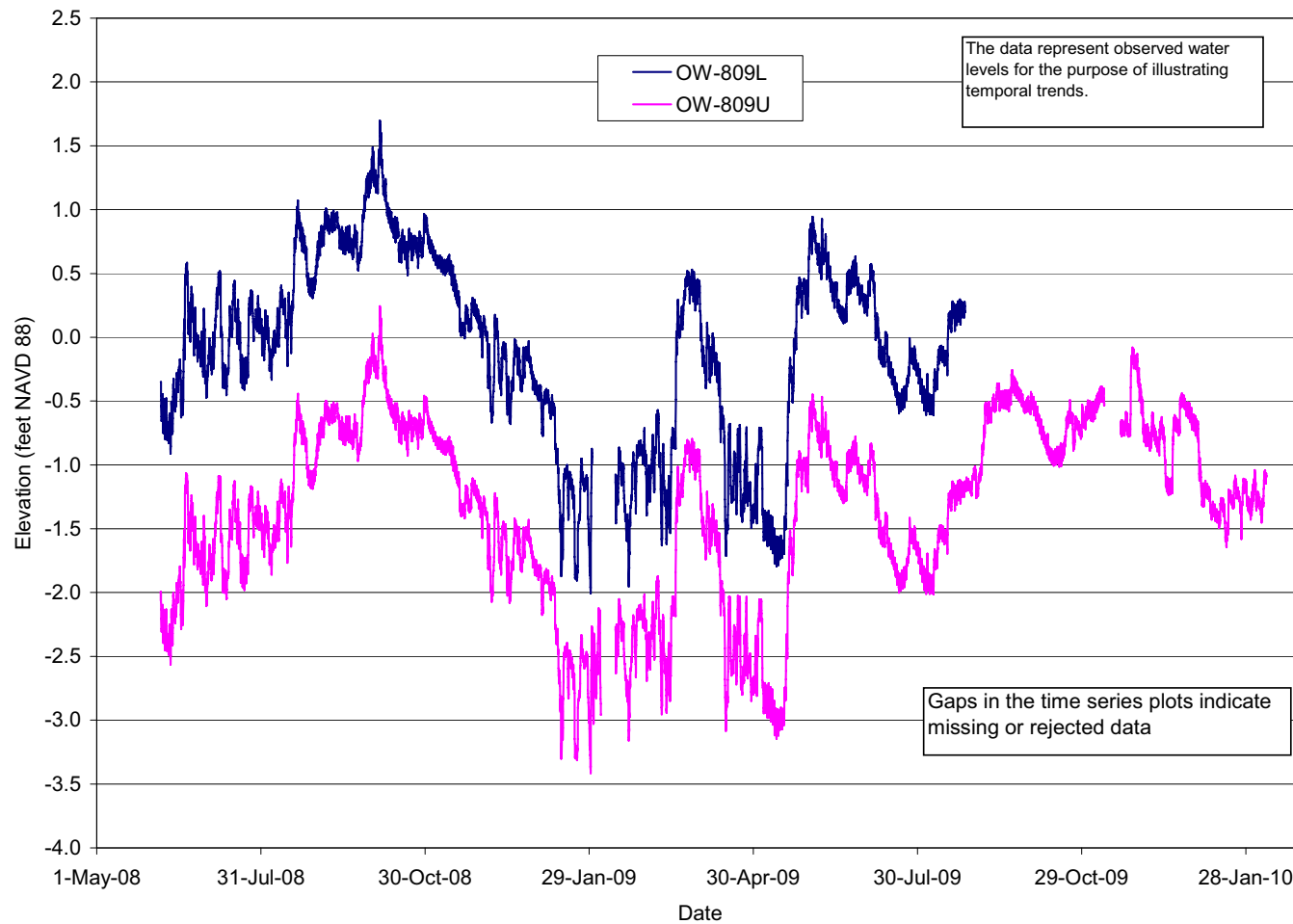
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 8 of 11)**



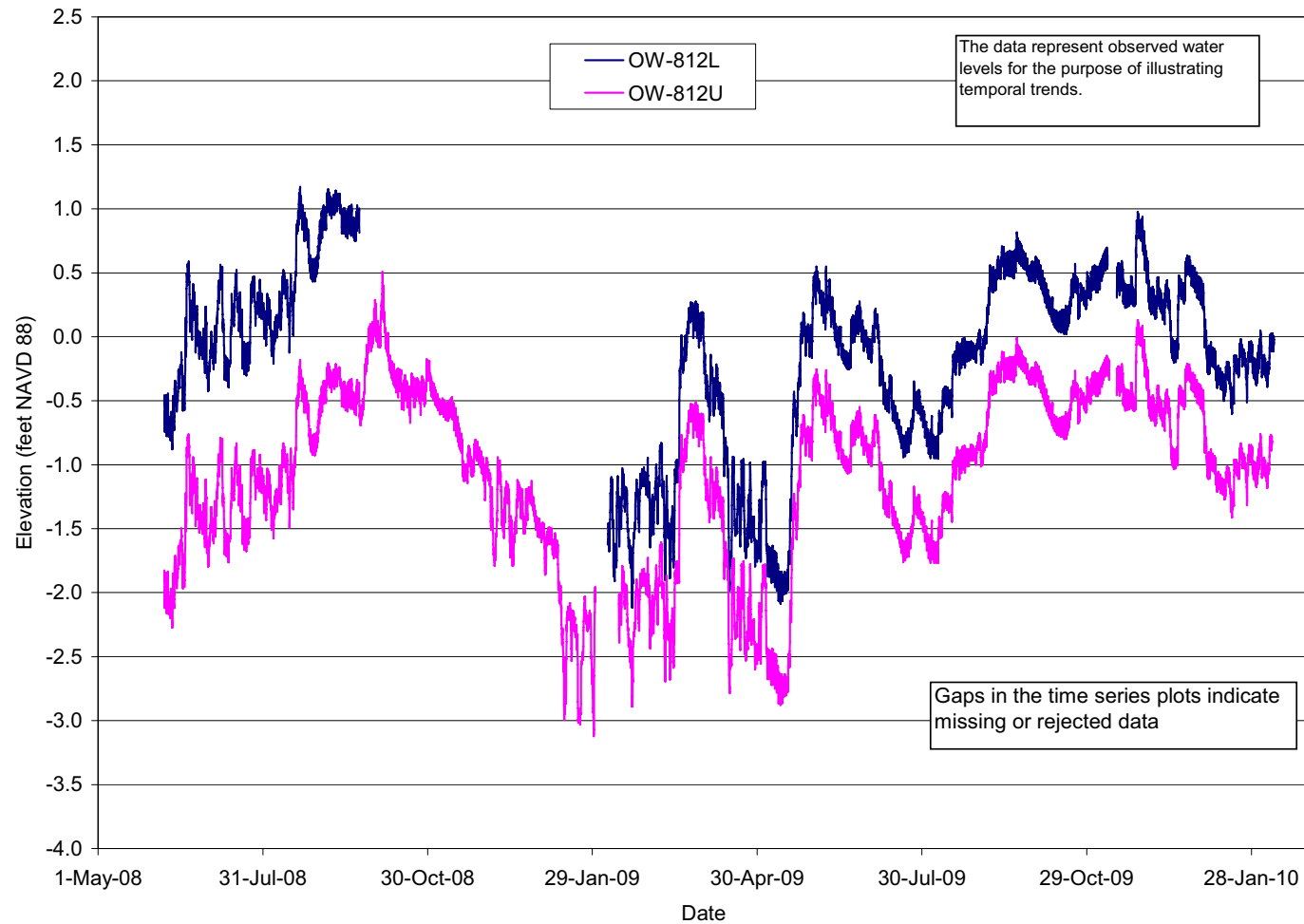
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 9 of 11)**



Turkey Point Units 6 & 7  
COL Application  
Part 3 — Environmental Report

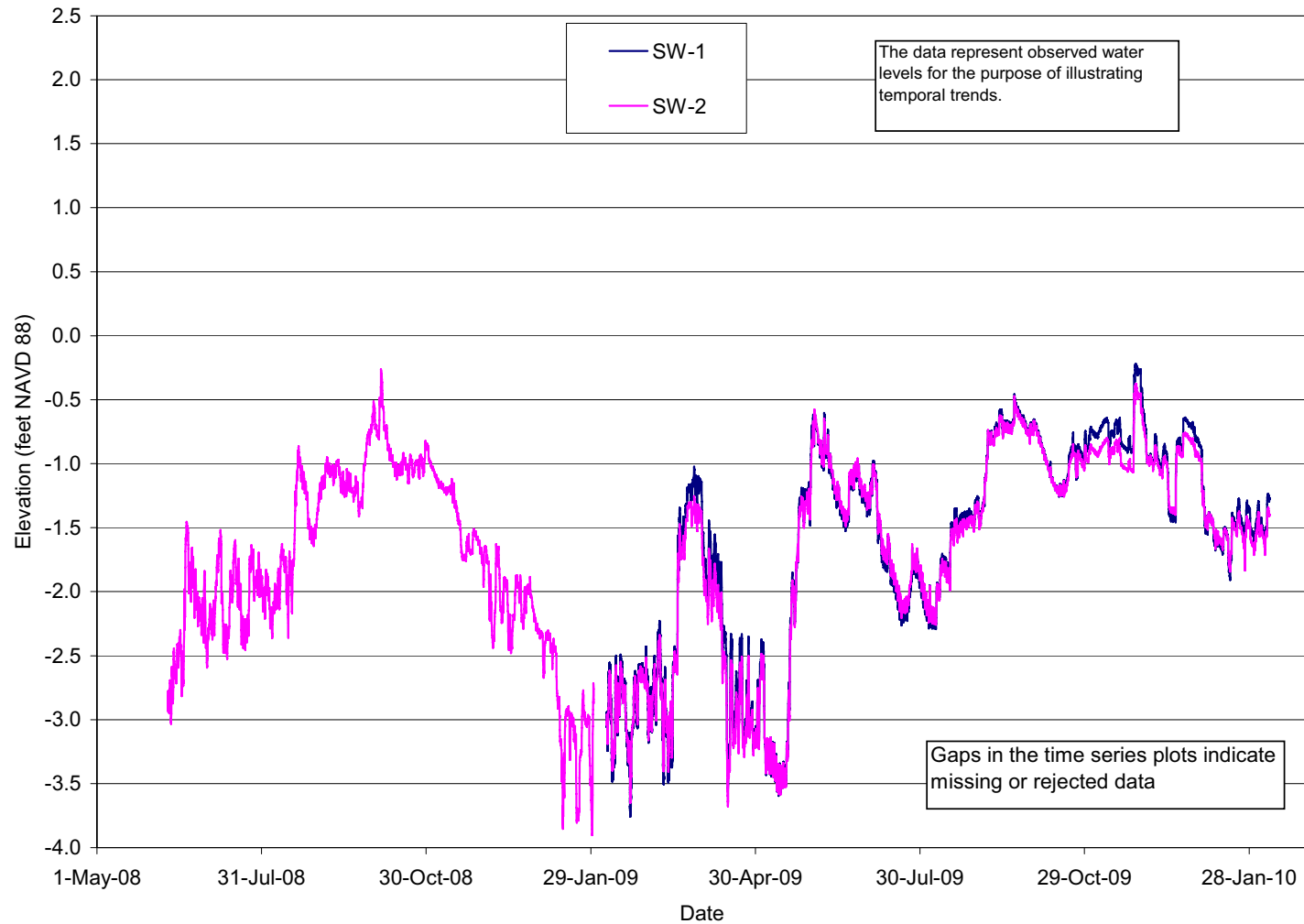
**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 10 of 11)**



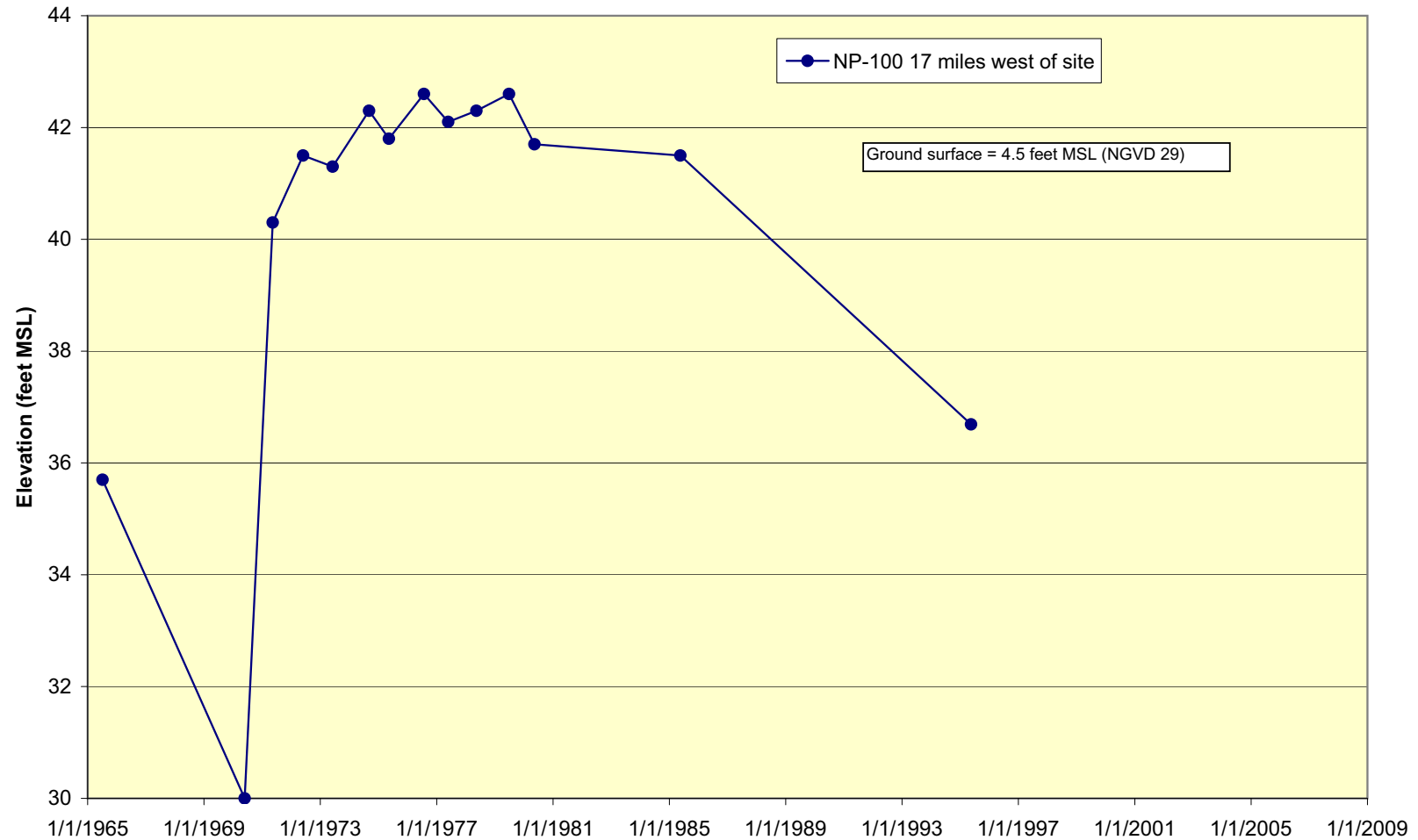


Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-40 Hydrographs of Units 6 & 7 Biscayne Aquifer Observation Wells (Sheet 11 of 11)**



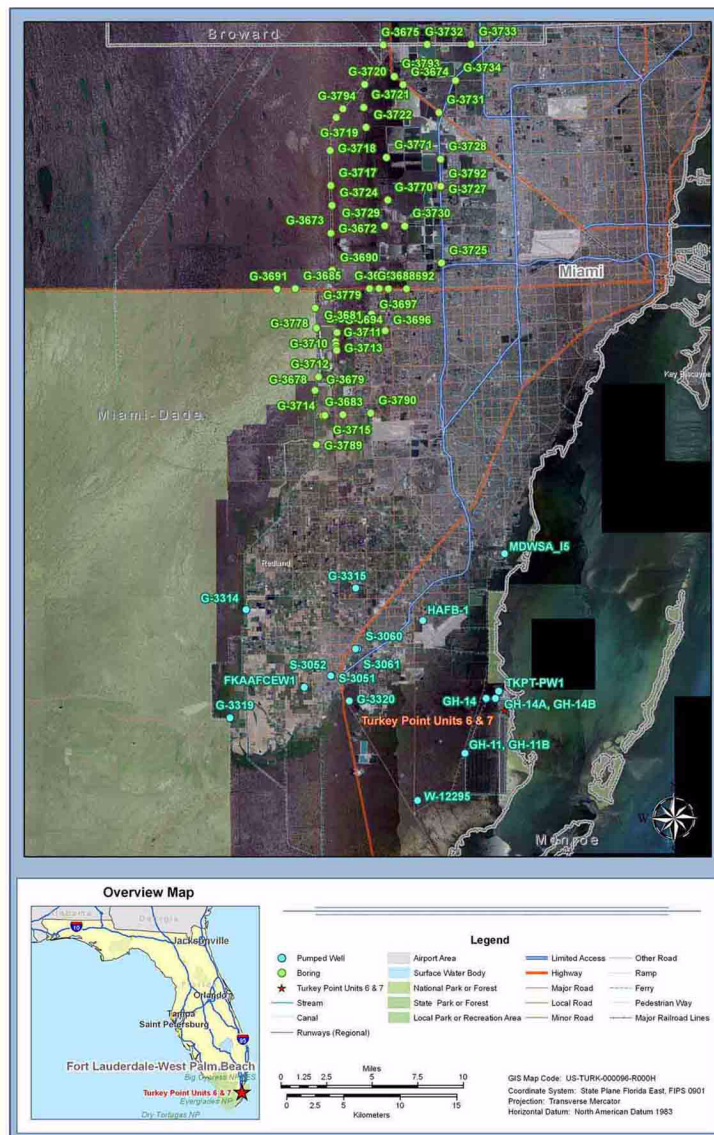
**Figure 2.3-41 Hydrograph of US Geological Survey Well in the Upper Floridan Aquifer**



Reference USGS 2008

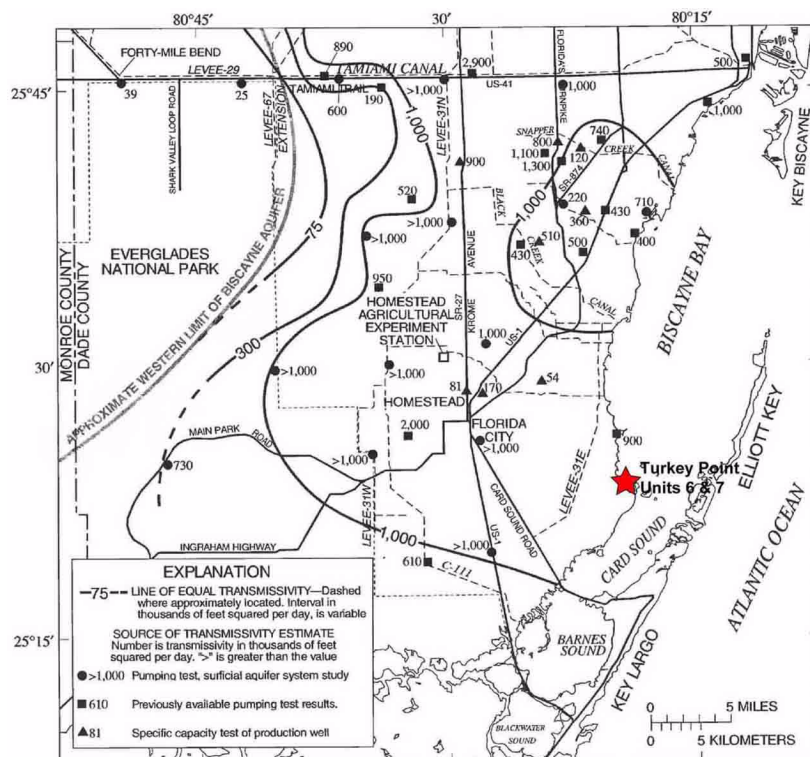
Turkey Point Units 6 & 7  
COL Application  
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**Figure 2.3-42 Regional Aquifer Test Locations**



Turkey Point Units 6 & 7  
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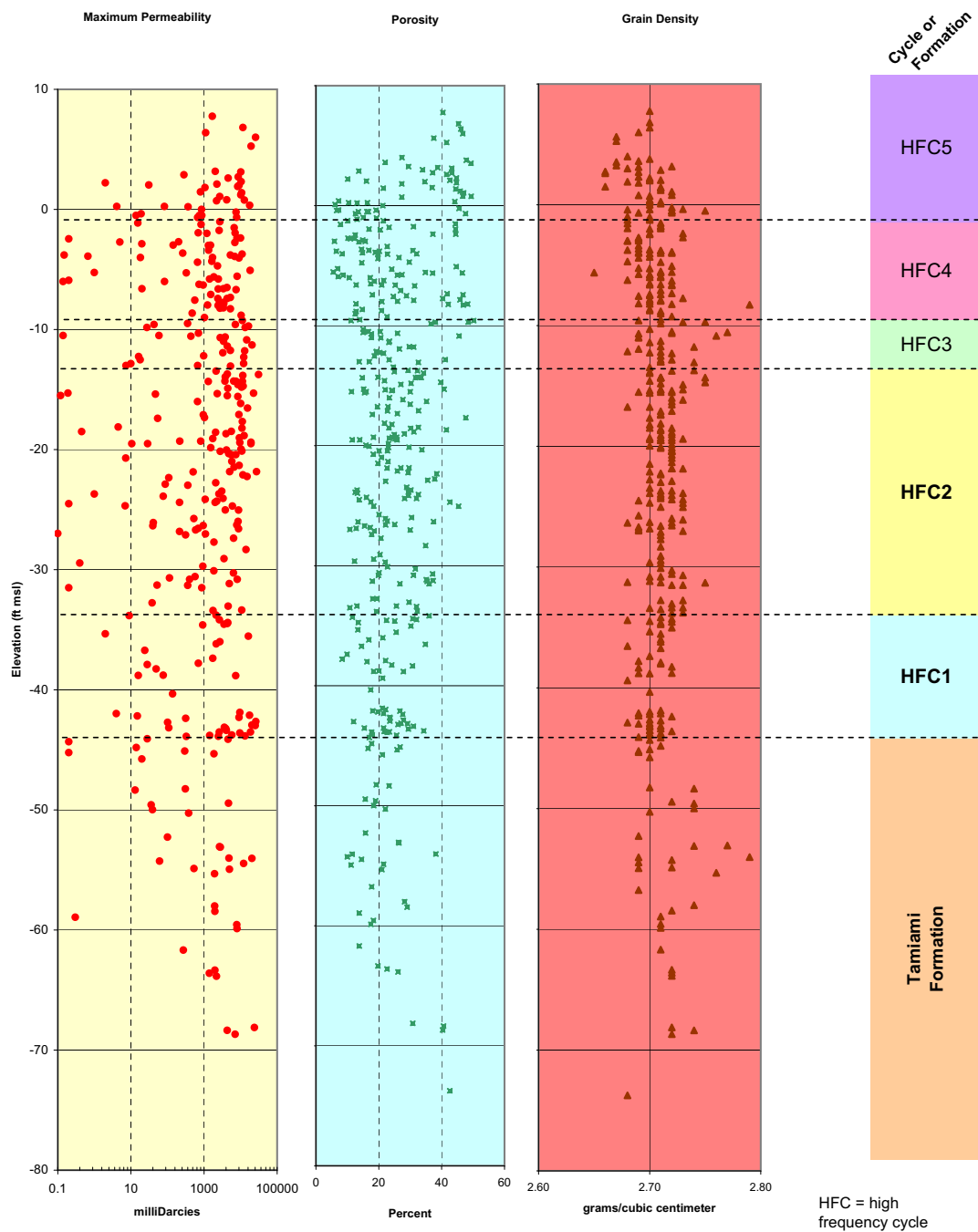
**Figure 2.3-43 Biscayne Aquifer Regional Transmissivity**



Modified from Merritt 1976

Turkey Point Units 6 & 7  
COL Application  
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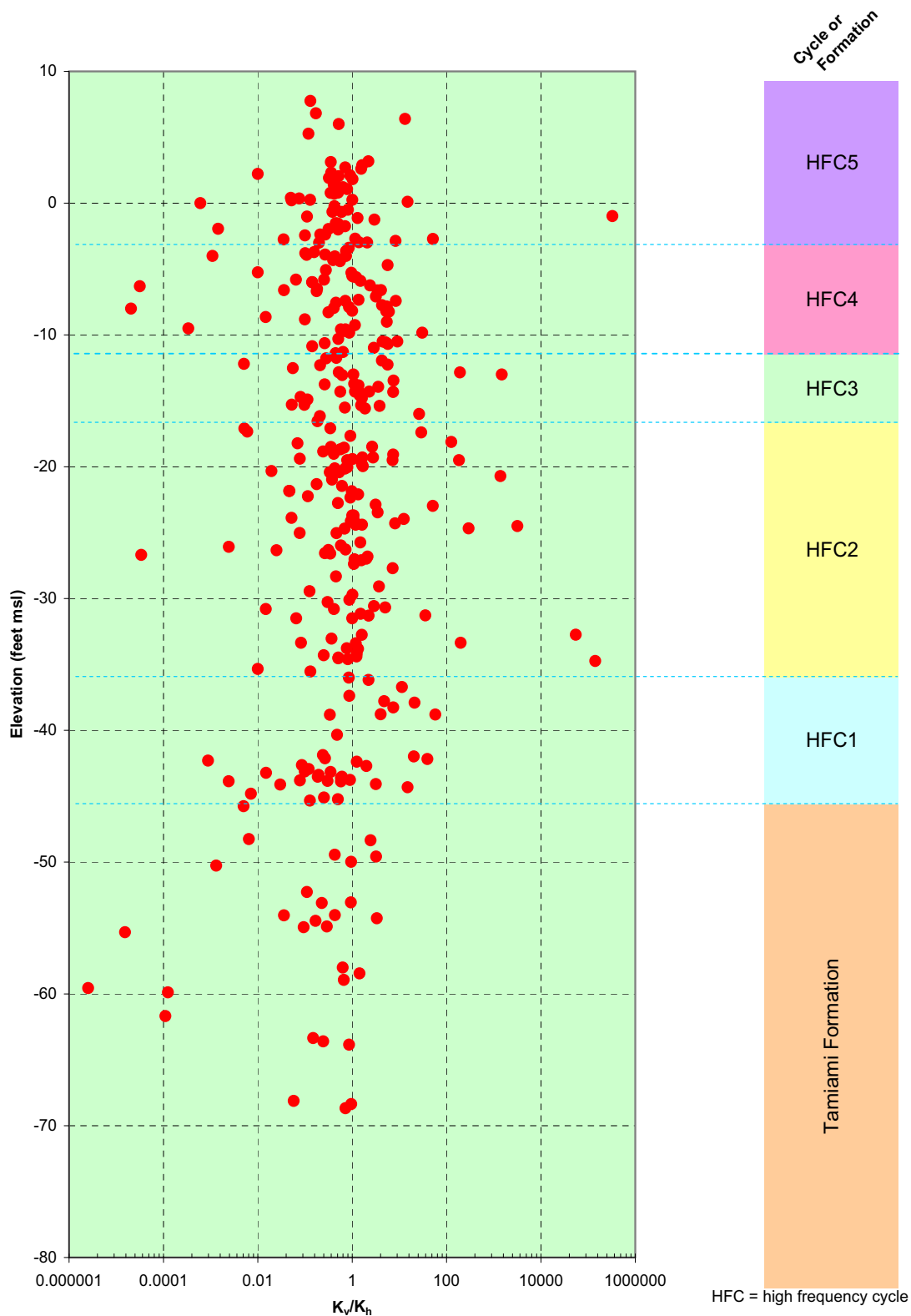
**Figure 2.3-44 Formation Properties from Rock Core Testing**



Data Source Table 2.3-18

Turkey Point Units 6 & 7  
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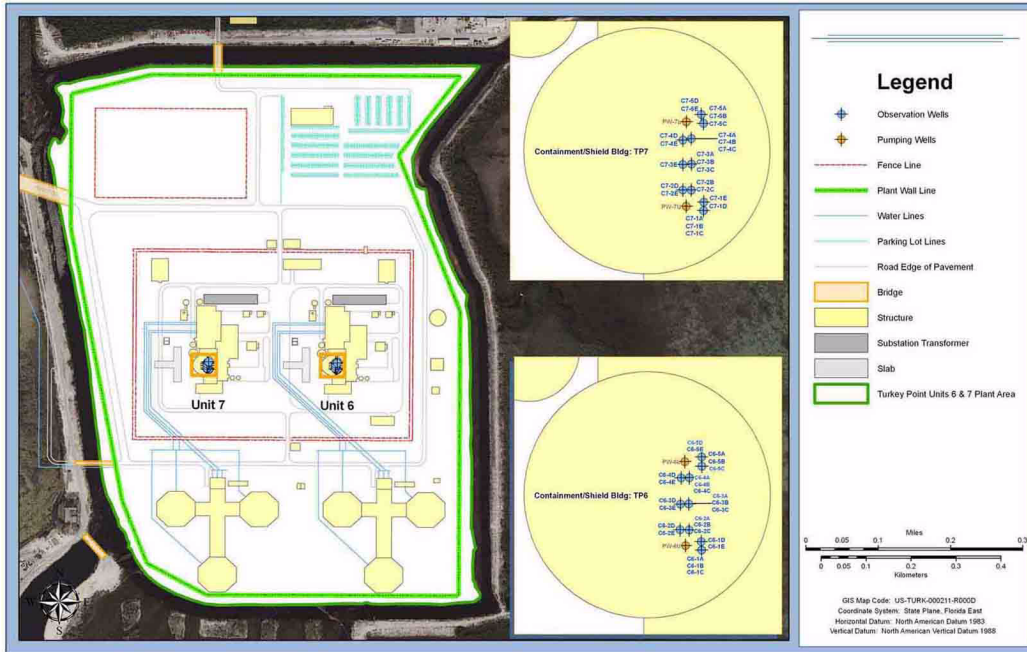
**Figure 2.3-45 Vertical Anisotropy Ratio from Rock Core Testing**



Data Source [Table 2.3-18](#)

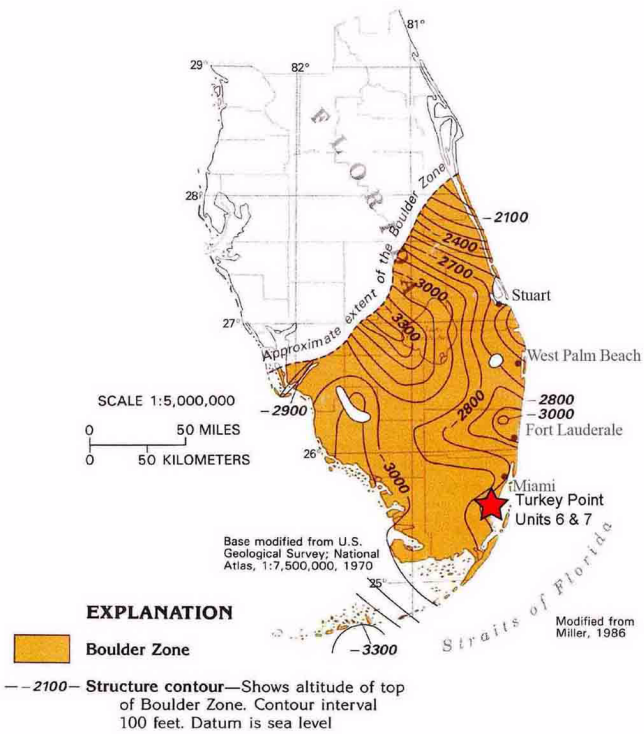
## Part 3 — Environmental Report

**Figure 2.3-46 Aquifer Pumping Test Location Plan**



Turkey Point Units 6 & 7  
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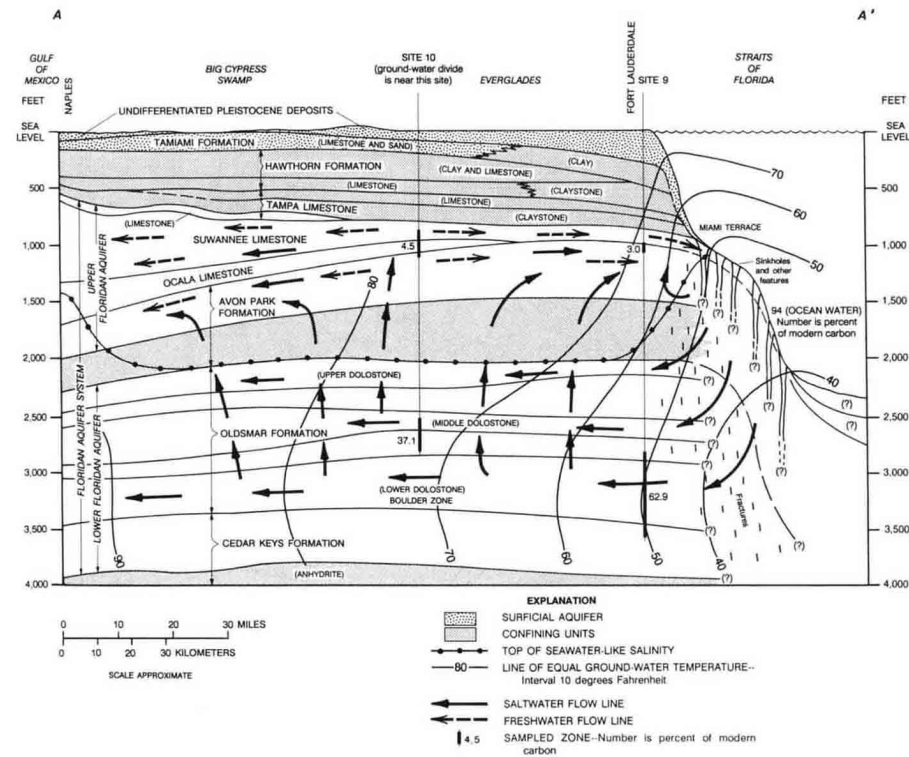
**Figure 2.3-47 The Boulder Zone in Southern Florida**





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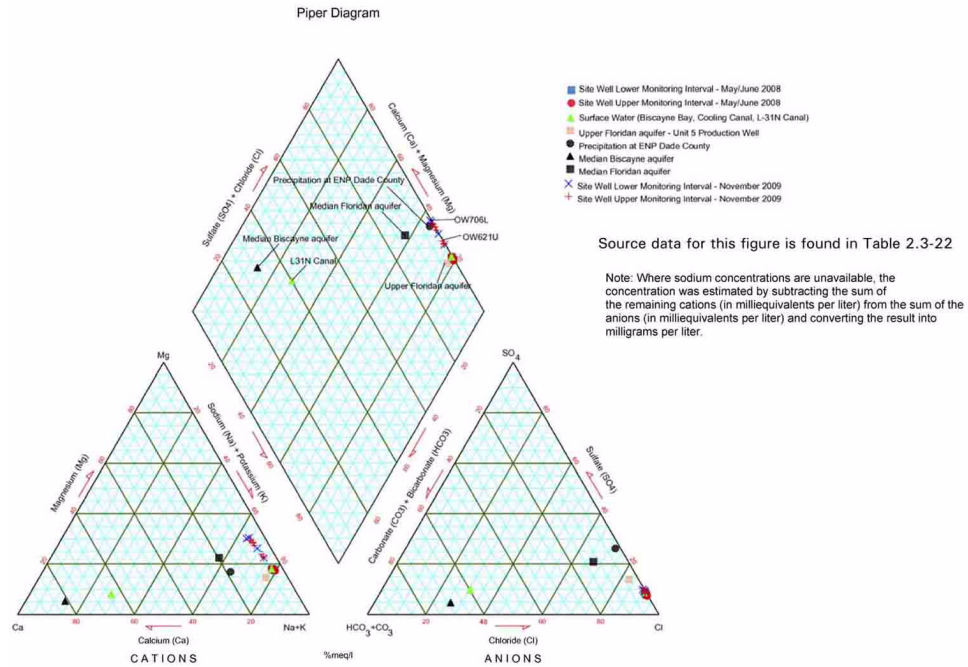
**Figure 2.3-48 Generalized Hydrogeologic Section**



Source: Meyer 1989

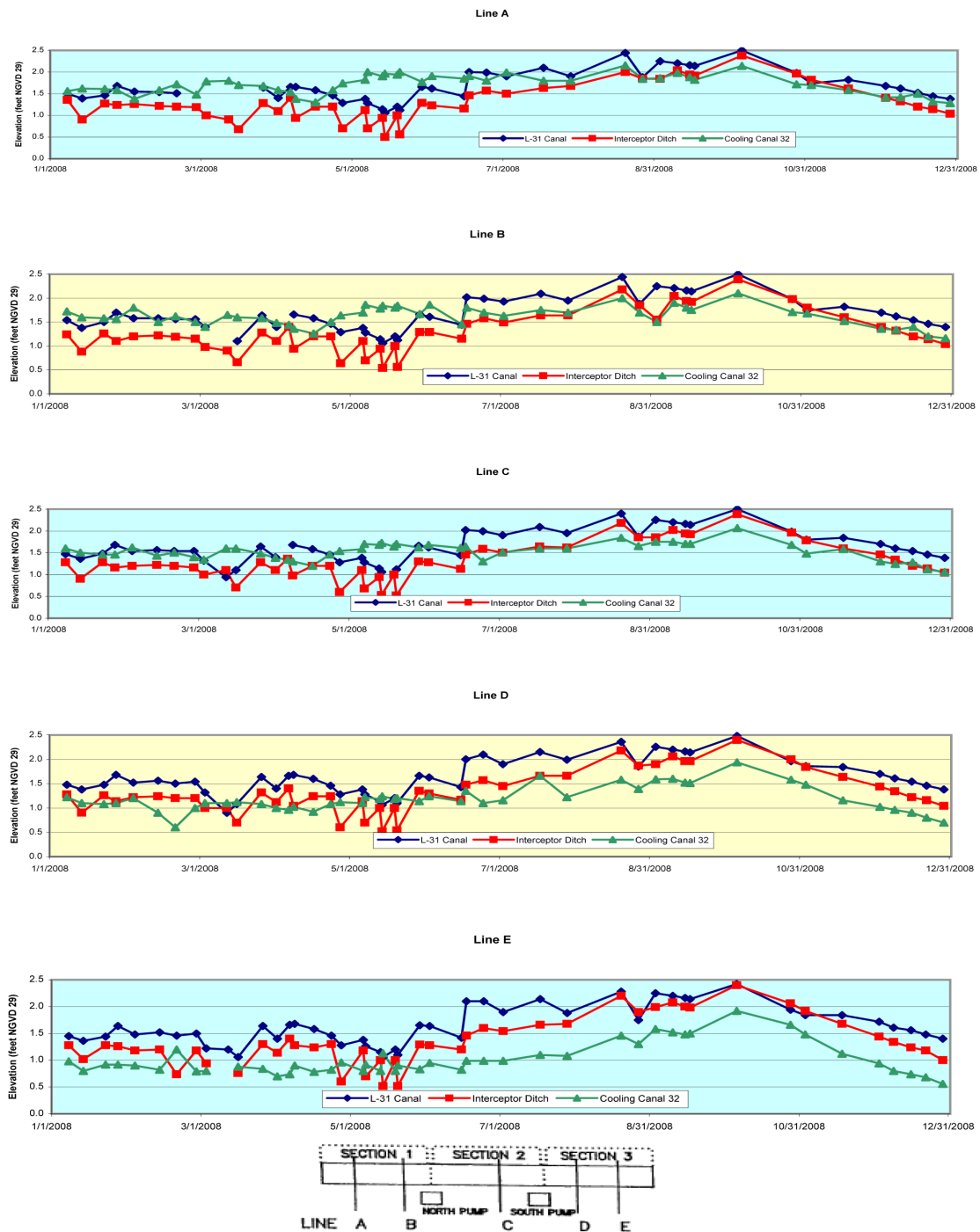
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**Figure 2.3-49 Piper Trilinear Diagram of Hydrogeochemical Samples**



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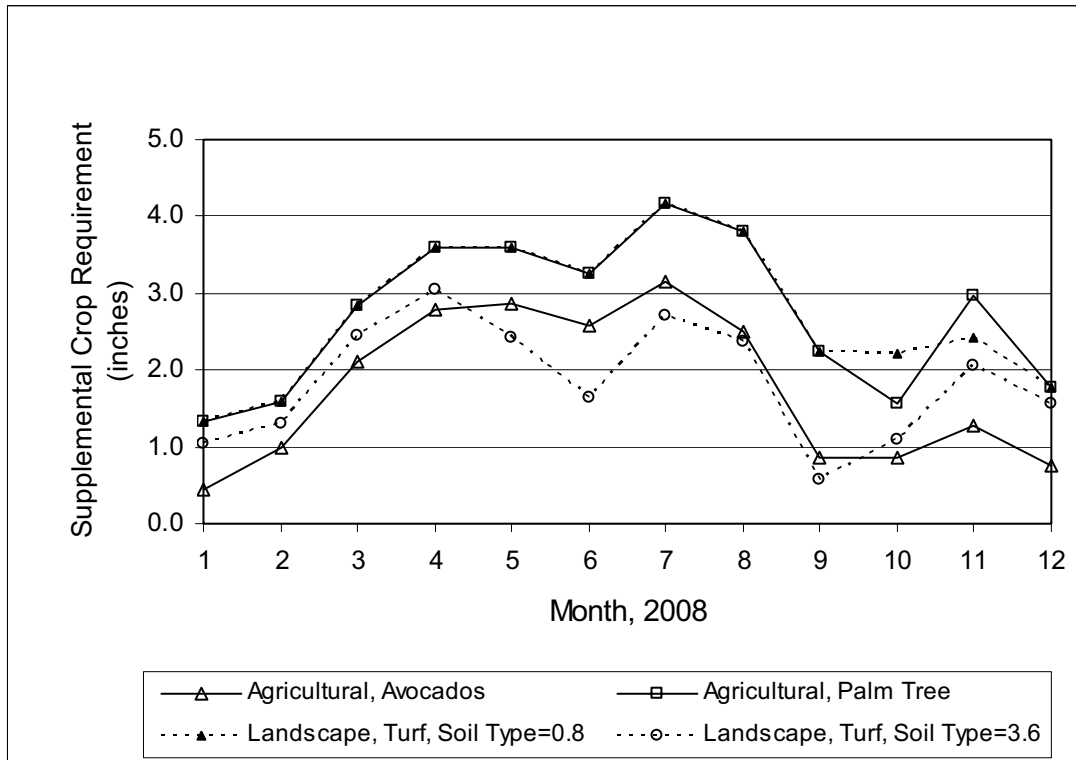
**Figure 2.3-50 Hydrographs of L-31E Canal, Interceptor Ditch, and Industrial Wastewater Facility Canal 32**





Turkey Point Units 6 & 7  
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**Figure 2.3-52 Estimated Monthly Surface Water Withdrawal for Agricultural and Landscape Irrigation**



Source: SFWMD 2008c (Permit Nos. 13-04030-W, 13-03793-W, 13-04416-W, 13-04010-W)

Turkey Point Units 6 & 7  
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**Figure 2.3-53 Location of Nonconsumptive Surface Water Users within a 6-Mile Radius**

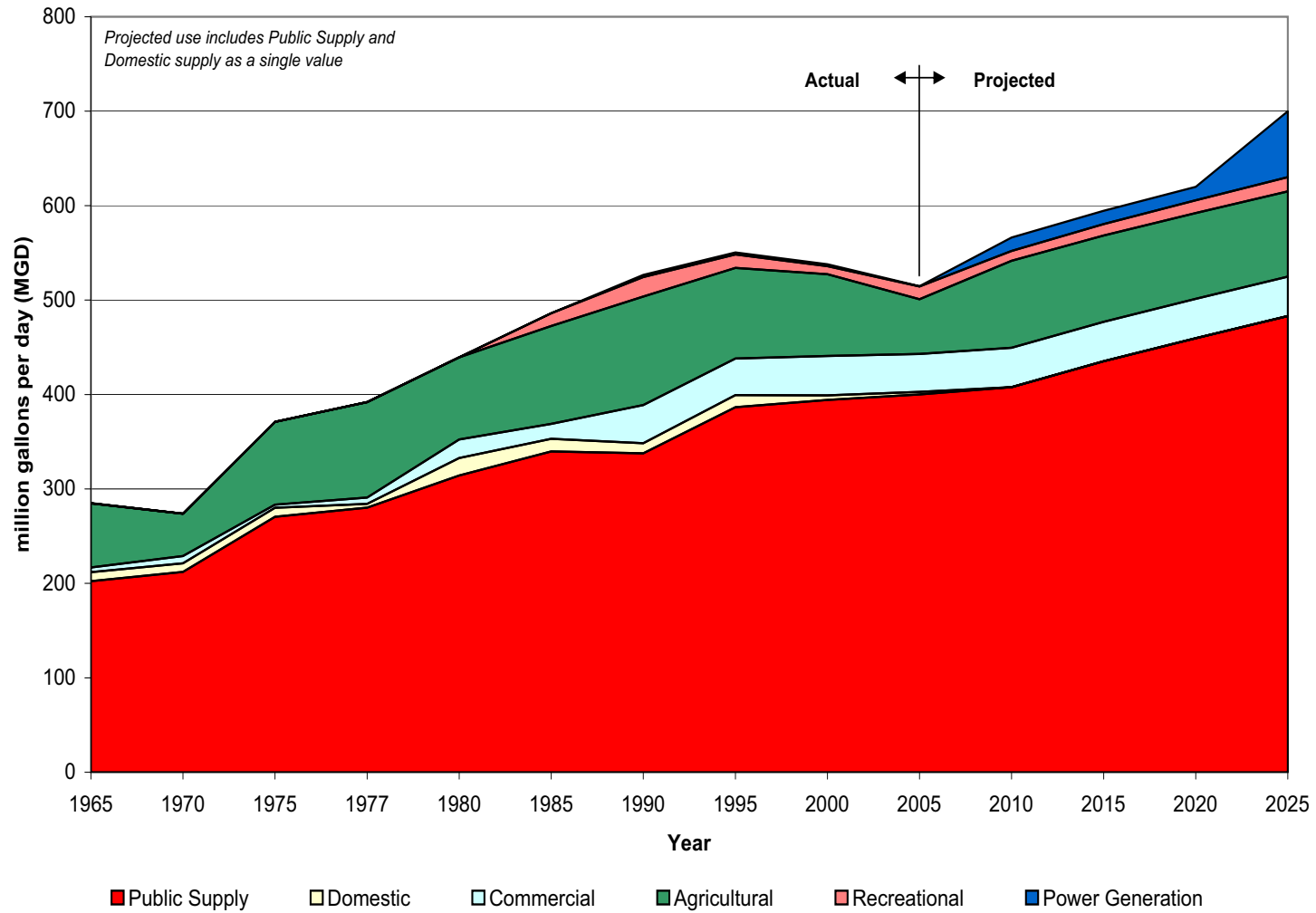


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**Figure 2.3-54 Not Used**

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**Figure 2.3-55 Withdrawals of Groundwater in Miami-Dade County**

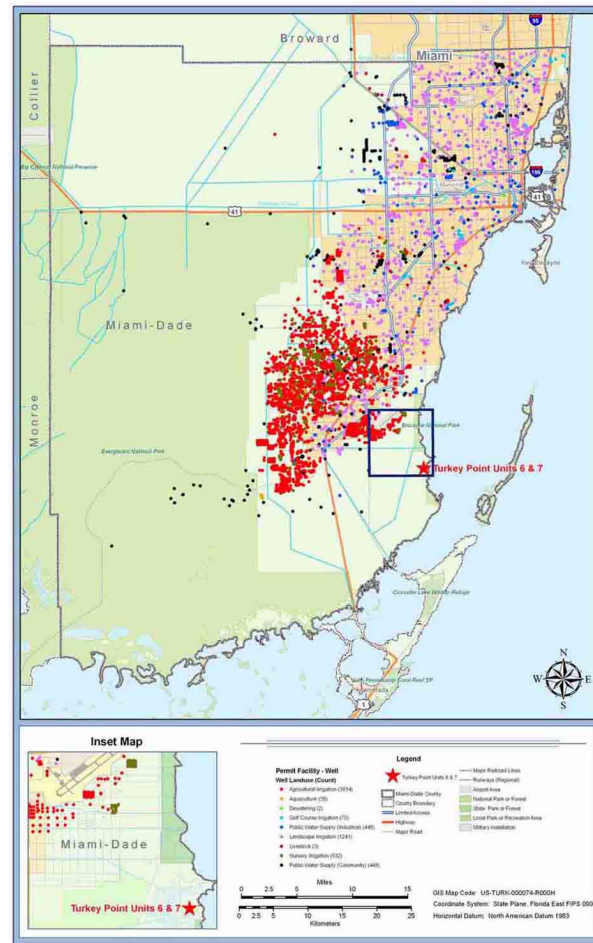


Sources:  
1965-2000 Appendix 1 of Marella 2005  
2005 Marella 2008  
2010-2025 SFWMD 2006b



Turkey Point Units 6 & 7  
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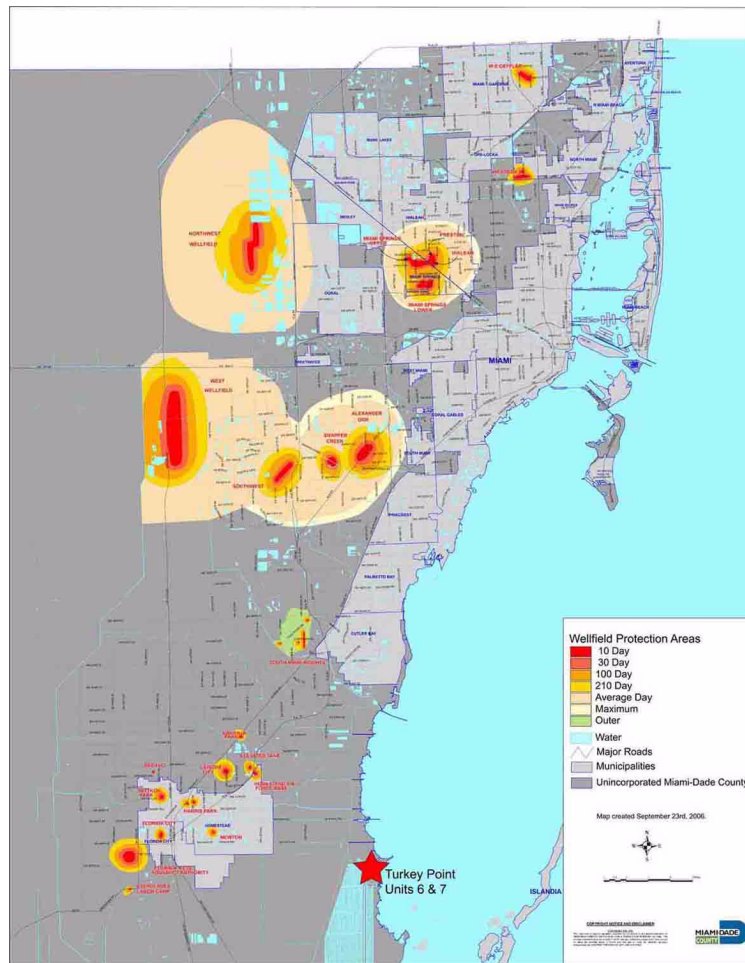
**Figure 2.3-56 Permitted Freshwater Wells in Miami-Dade County**



Data Source: SFWMD 2008a

Turkey Point Units 6 & 7  
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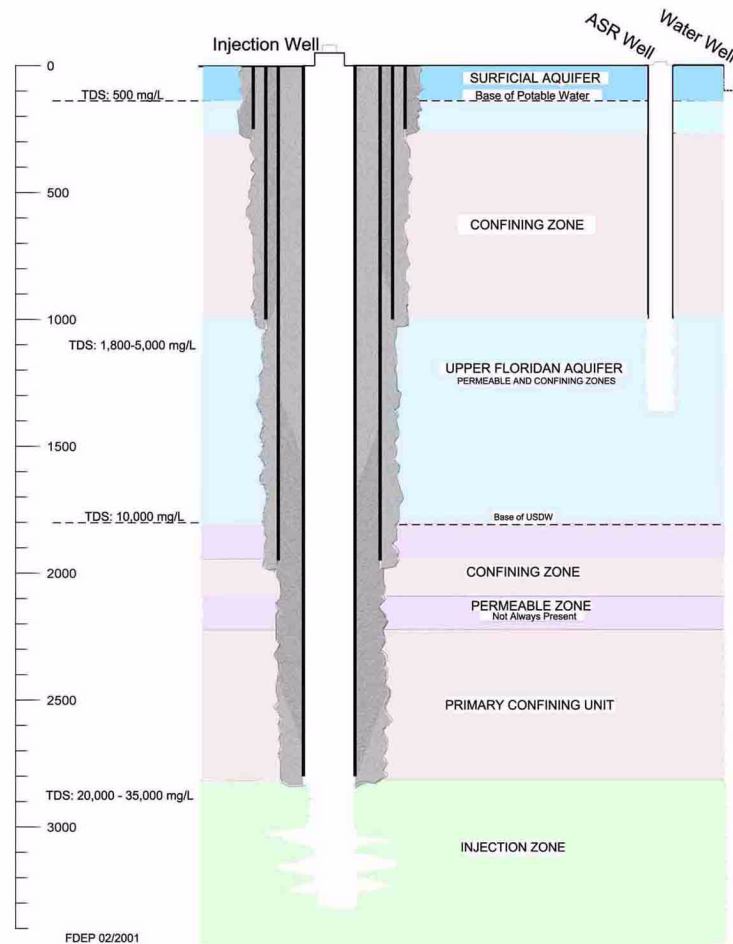
**Figure 2.3-57 Miami-Dade County Wellfields and Wellfield Protection Area**



Modified from FDEP 2008d

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**Figure 2.3-58 Typical Municipal Class I Injection Well, Aquifer Storage and Recovery Well, and Water Well in Southeast Florida**

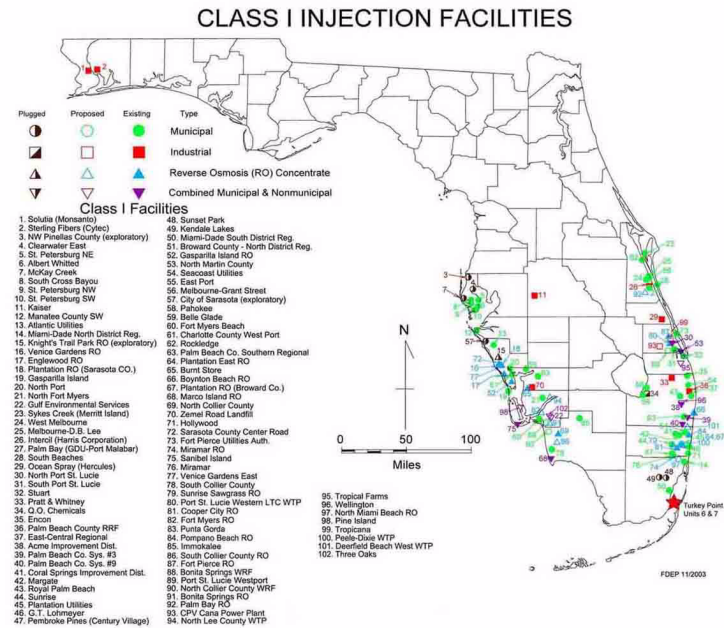


Source: FDEP 2008b

Note: The subsurface conditions and well completions shown in this figure may not represent the conditions beneath Units 6 & 7. This figure is a generalized representation of these types of wells presented in the Underground Injection Control Program website by the FDEP.

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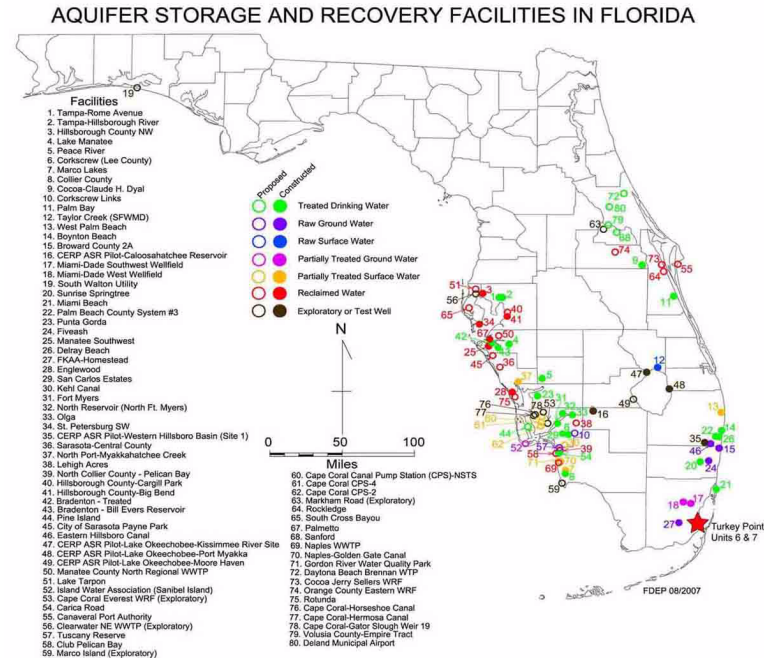
**Figure 2.3-59 Class I Injection Wells**



Modified from FDEP 2008b

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**Figure 2.3-60 Aquifer Storage and Recovery Map**



Modified from FDEP 2008b

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Figure 2.3-61 Industrial Wastewater Facility





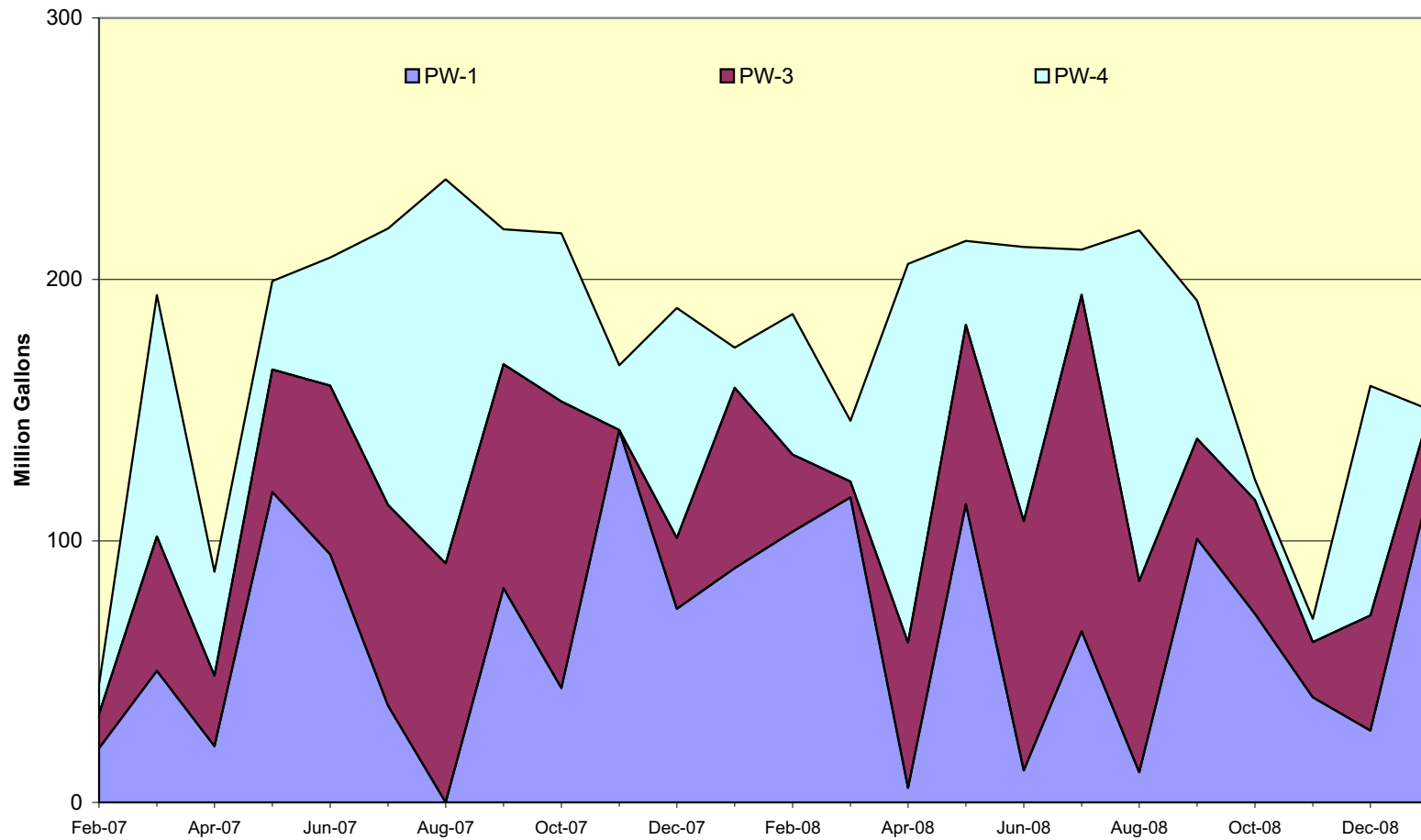
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**Figure 2.3-62 Upper Floridan Production Wells for Units 1, 2, 5**



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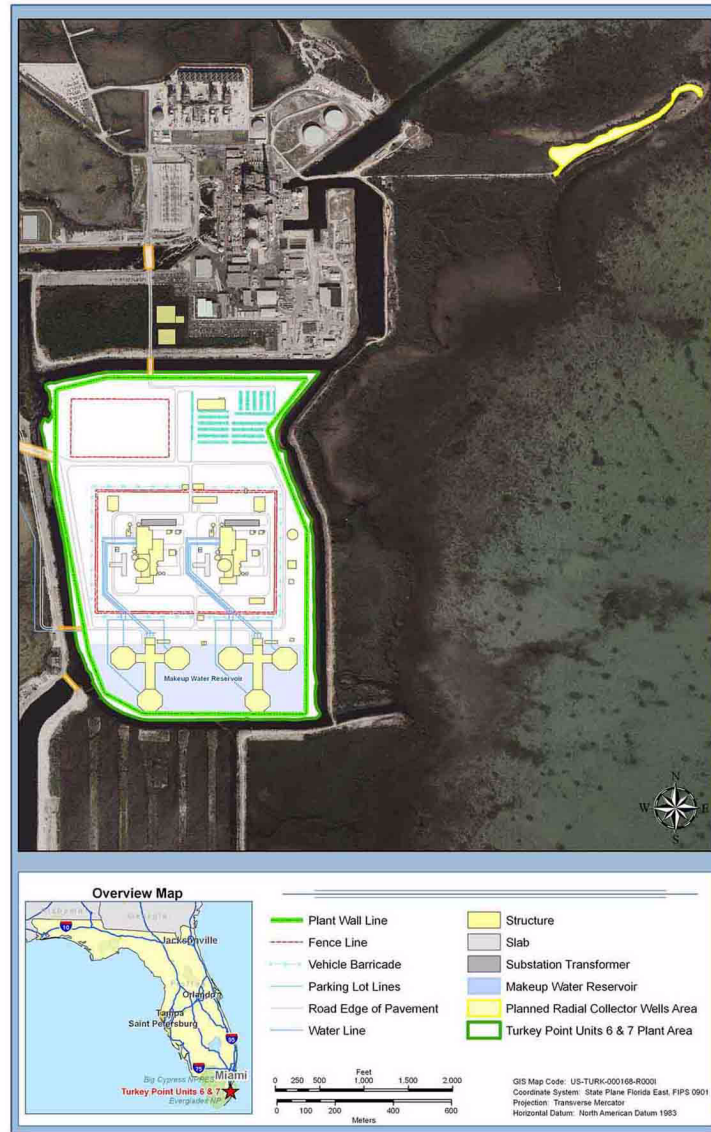
**Figure 2.3-63 Units 1, 2, 5 Monthly Groundwater Use**





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**Figure 2.3-64 Radial Collector Well Area**



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**Figure 2.3-65 Not Used**

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**Figure 2.3-66 Biscayne Bay Water Quality Monitoring Stations Near Turkey Point Plant Property**



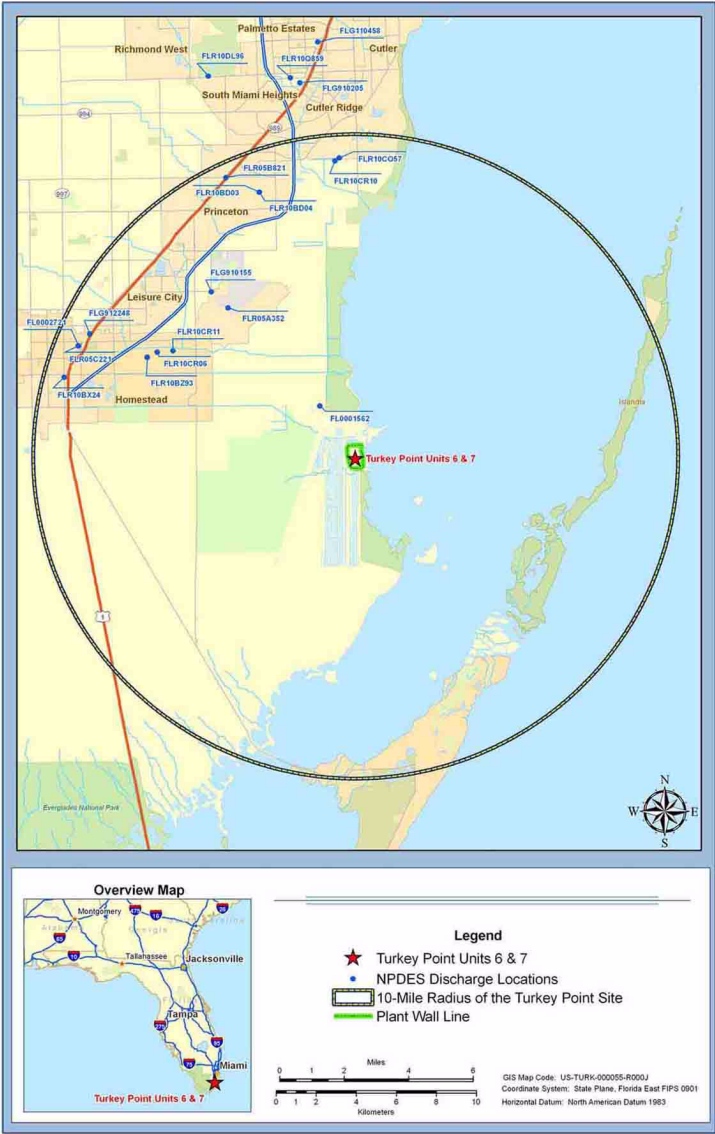
Turkey Point Units 6 & 7  
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**Figure 2.3-67 303(d)-Listed Impaired Water Located Near Turkey Point Plant Property**



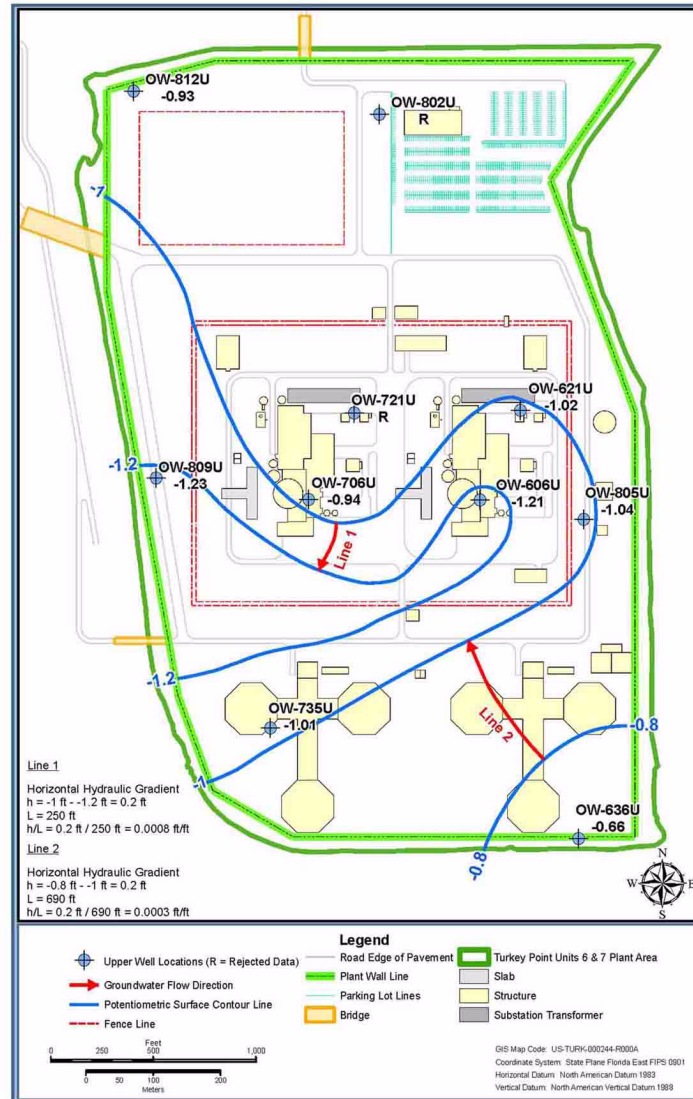
Turkey Point Units 6 & 7  
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**Figure 2.3-68 NPDES Dischargers Located Near Turkey Point Property**



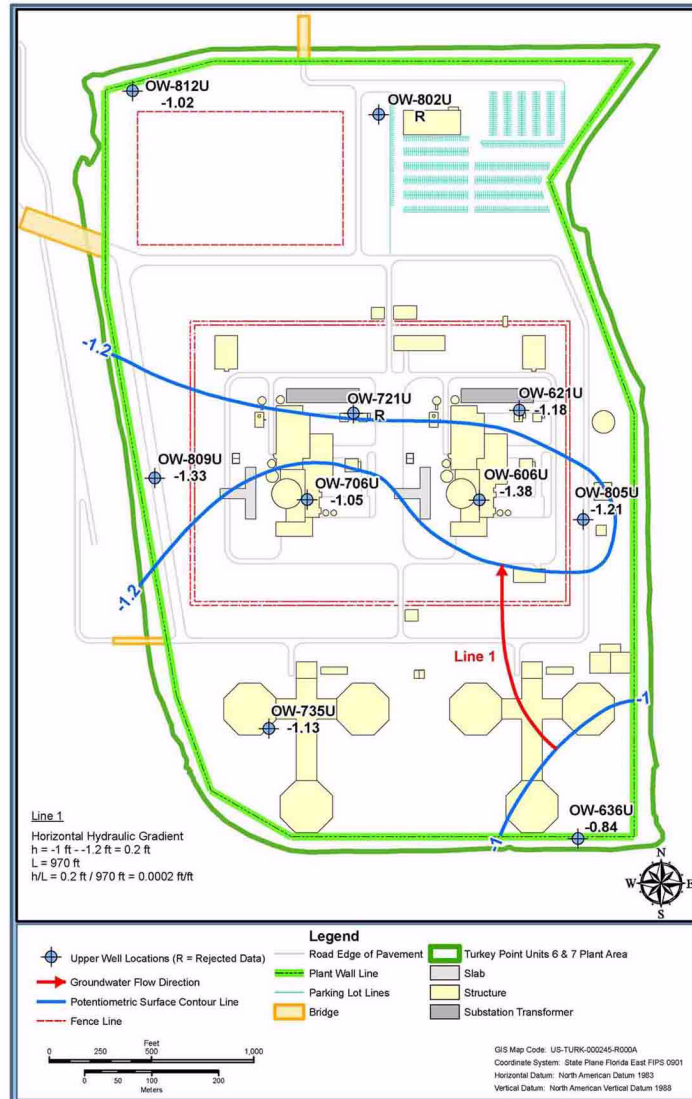
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**Figure 2.3-69 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, July 15, 2009 (Sheet 1 of 2) High Tide**



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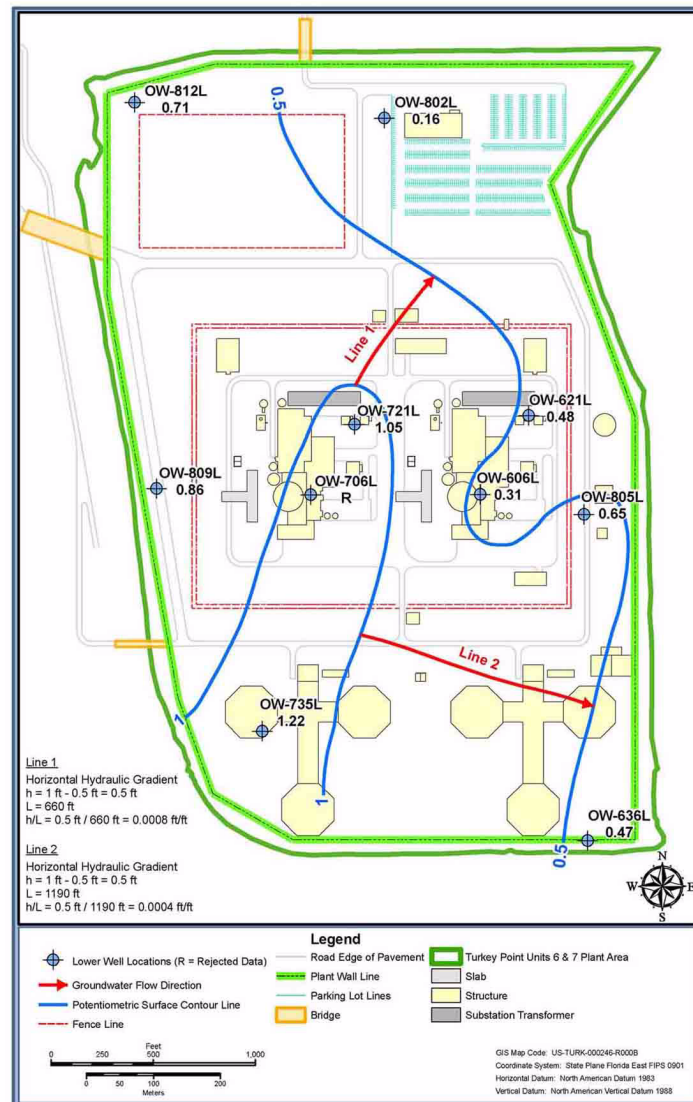
**Figure 2.3-69 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, July 15, 2009 (Sheet 2 of 2) Low Tide**





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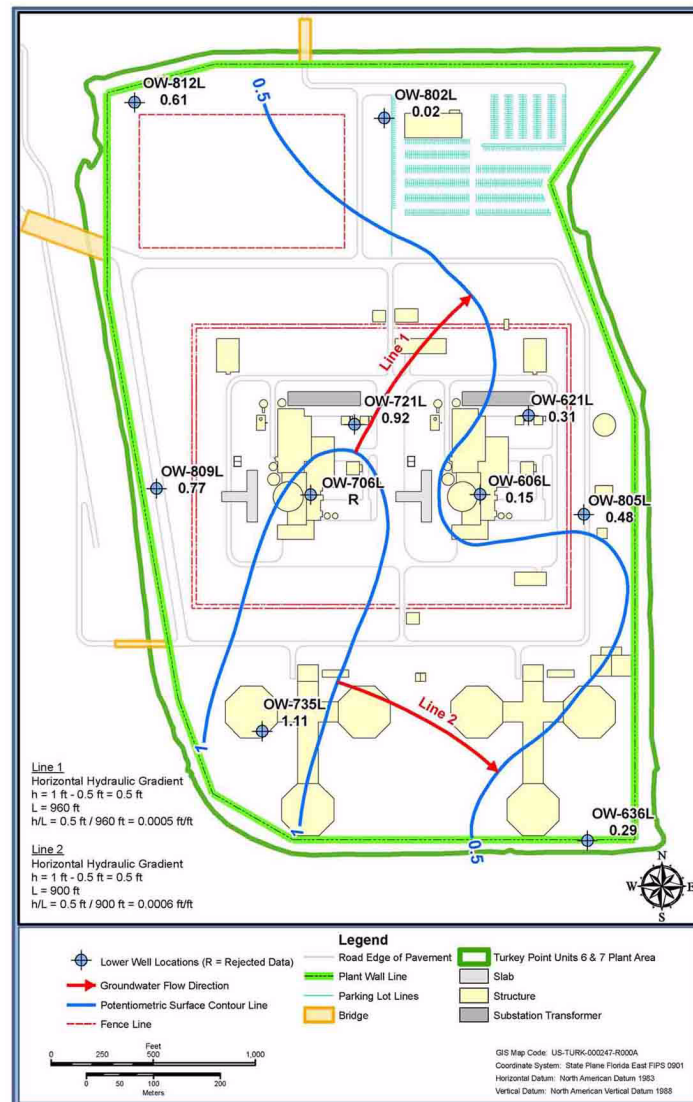
**Figure 2.3-70 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, July 15, 2009 (Sheet 1 of 2) High Tide**





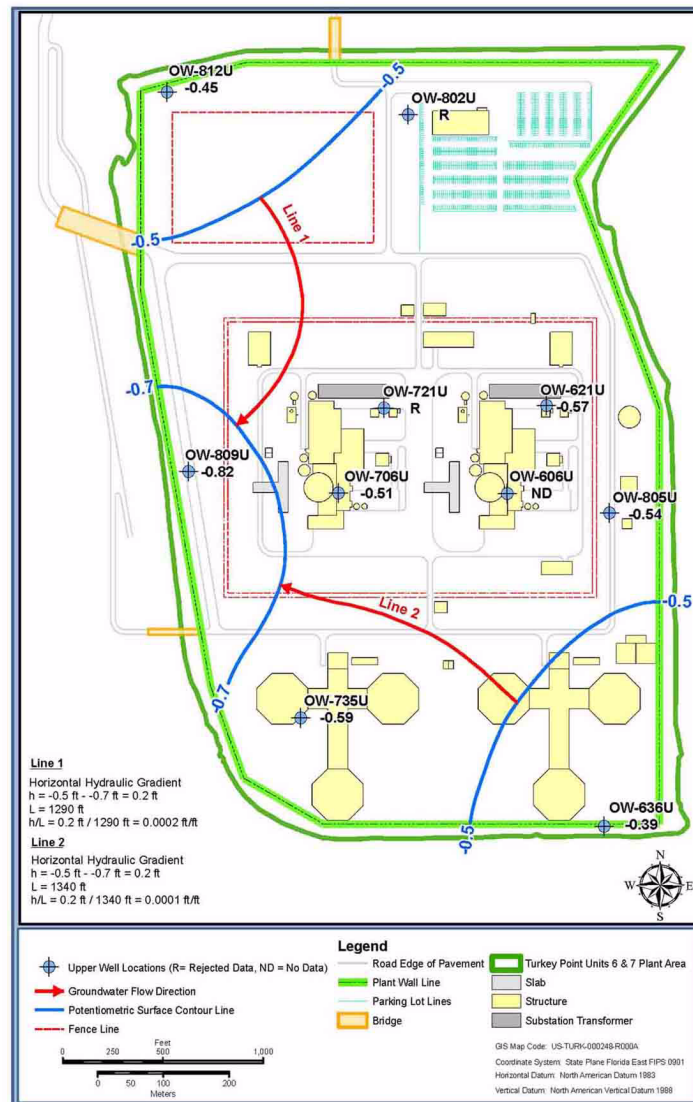
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**Figure 2.3-70 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, July 15, 2009 (Sheet 2 of 2) Low Tide**



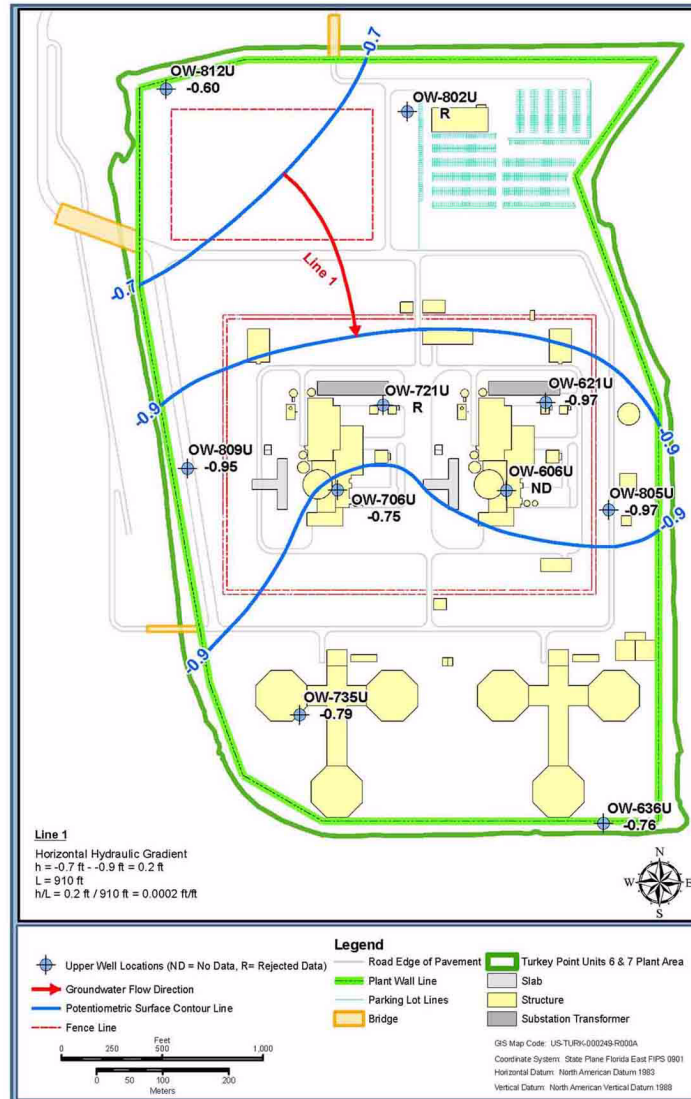
Turkey Point Units 6 & 7  
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**Figure 2.3-71 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 15, 2010 (Sheet 1 of 2) High Tide**



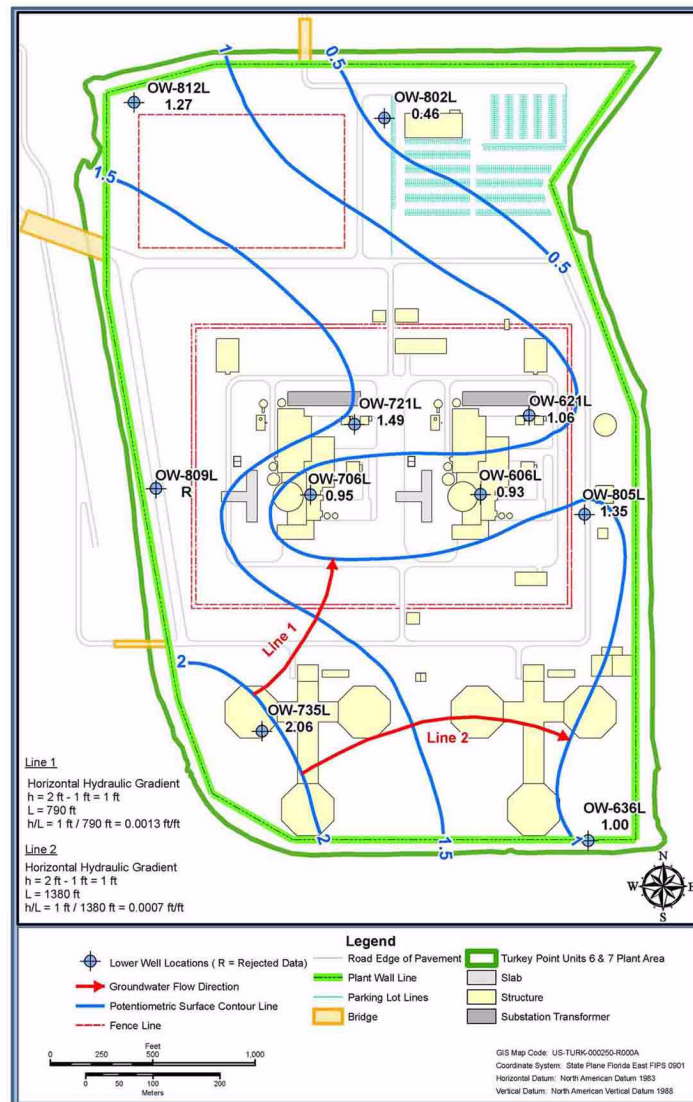
Turkey Point Units 6 & 7  
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**Figure 2.3-71 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, January 15, 2010 (Sheet 2 of 2) Low Tide**



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**Figure 2.3-72 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 15, 2010 (Sheet 1 of 2) High Tide**



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**Figure 2.3-72 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, January 15, 2010 (Sheet 2 of 2) Low Tide**

