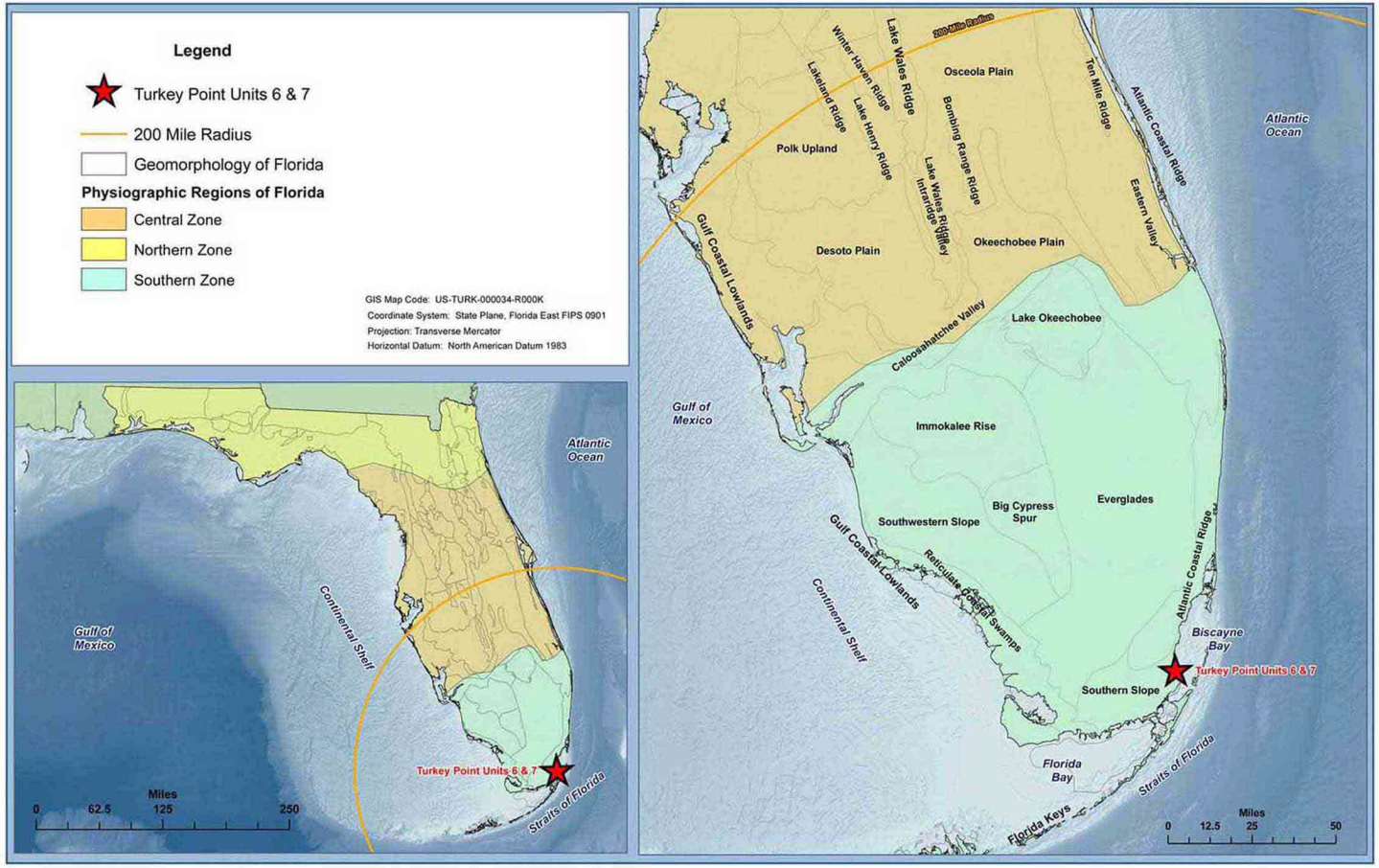
PTN COL 2.4-4

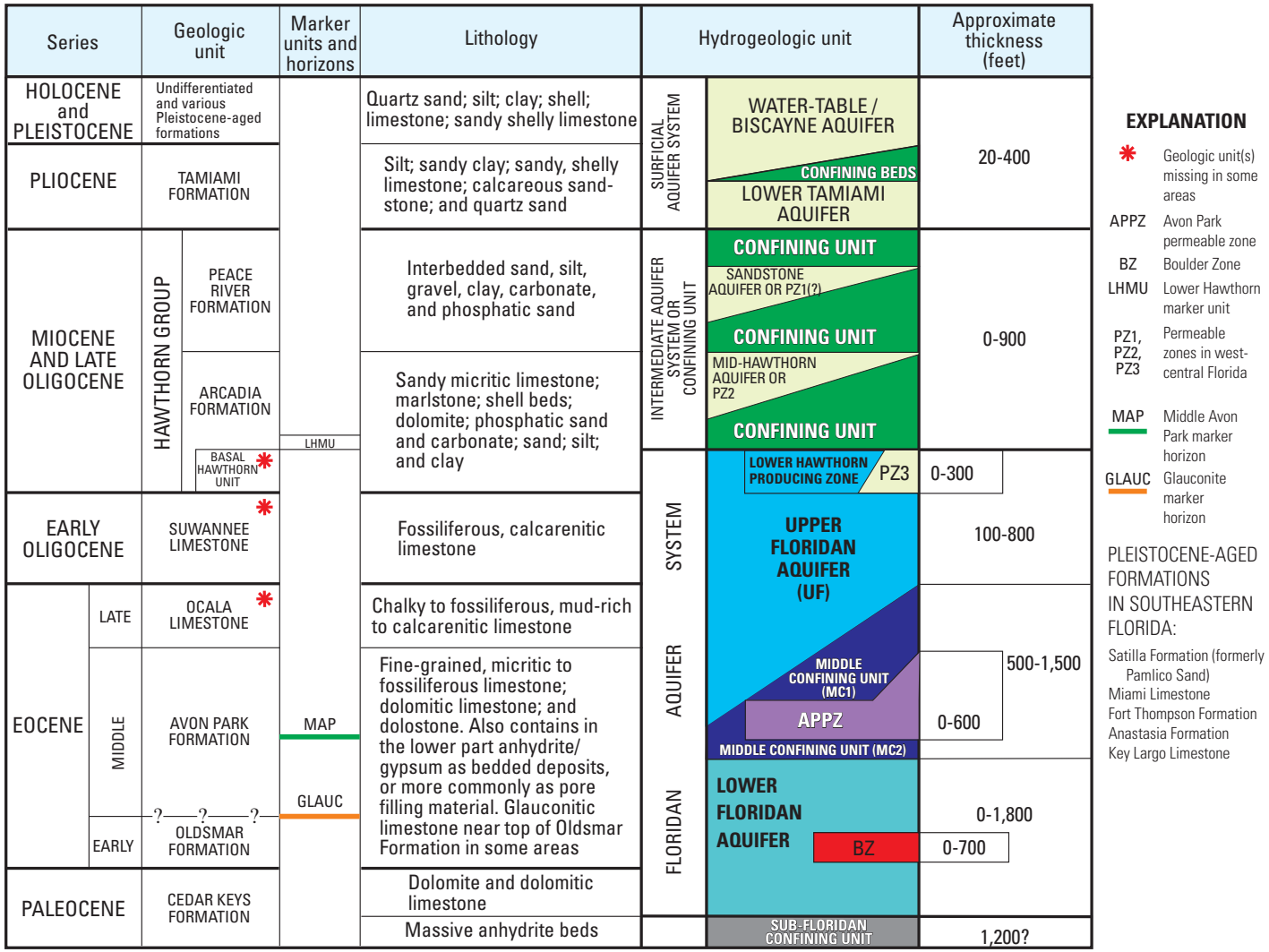
Figure 2.4.12-201 Physiographic Features



Modified from References 201 and 202
Note: Florida is within the Atlantic Coastal Plan physiographic province.

PTN COL 2.4-4

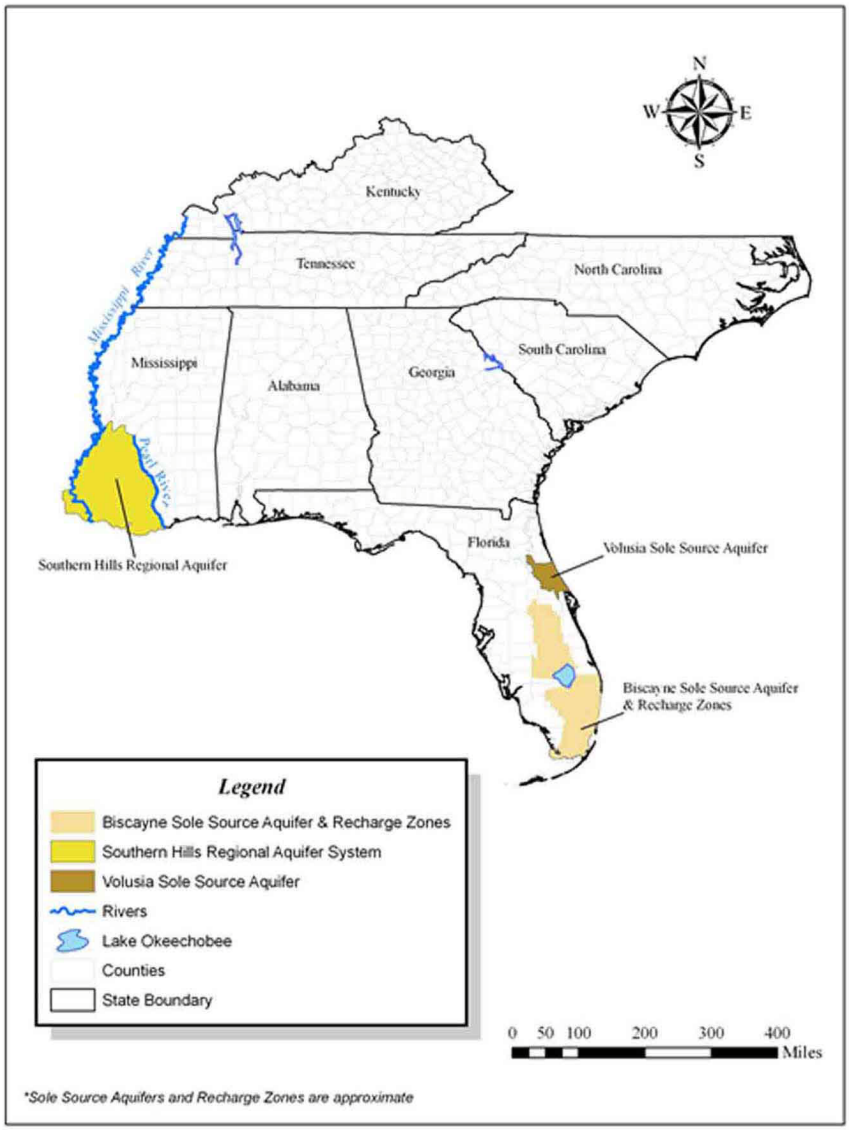
Figure 2.4.12-202 Regional Generalized Hydrostatigraphic Column



Source: Reference 206

PTN COL 2.4-4

Figure 2.4.12-203 Approximate Boundaries of EPA Region 4 Sole Source Aquifers



Source: Reference 205

PTN COL 2.4-4

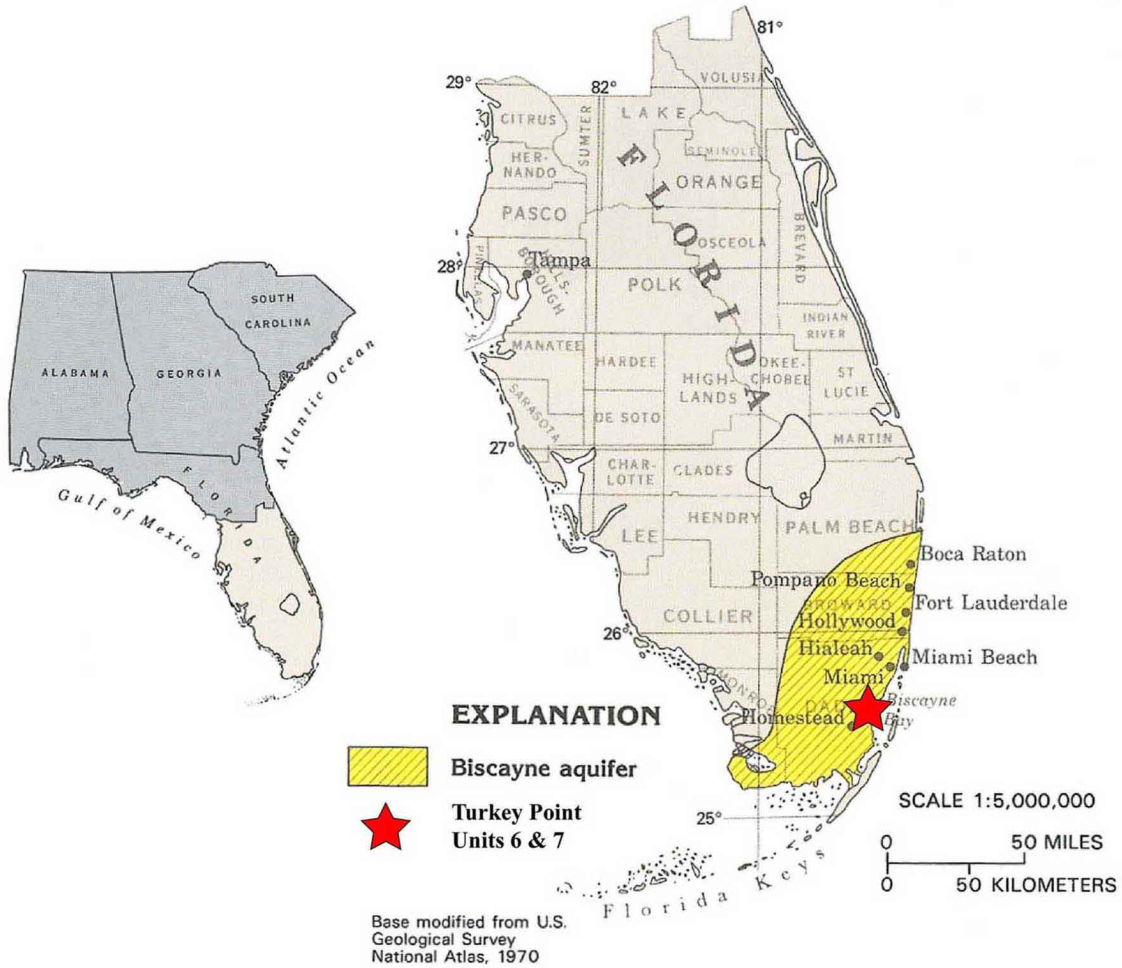
Figure 2.4.12-204 Site Hydrostatigraphic Column

ERATHEM	SYSTEM	SERIES	HYDRO-GEOLOGIC UNIT		STRATIGRAPHIC UNIT		LITHOLOGY	APPROXIMATE TOP ELEVATION (ft NAVD 88)	APPROXIMATE THICKNESS (ft)
CENEZOIC	QUATERNARY	HOLOCENE			organic muck		organic soil and silt	0	3
		PLEISTOCENE	Surficial aquifer system	Biscayne aquifer	Miami Limestone		sandy, oolitic limestone	-3	25
					Key Largo Limestone		well indurated, vuggy, coralline limestone	-28	22
					Fort Thompson Formation		poor/well indurated fossiliferous limestone	-50	65
	TERTIARY	PLIOCENE		Semi-confining unit	Tamiami Formation		sand and silt with calcarenitic limestone	-115	105
		MIOCENE	Intermediate confining unit		Hawthorn Group	Peace River Formation	silty calcareous sand and silt	*formation contact based on natural gamma signature* -220	235
						Arcadia Formation	calcareous wackestone with indurated limestones, sandstone, and sand	-455	>160
								drilling ended at -616.5 ft NAVD 88	

Color represents similar composition (carbonate, clastics, and organics).

PTN COL 2.4-4

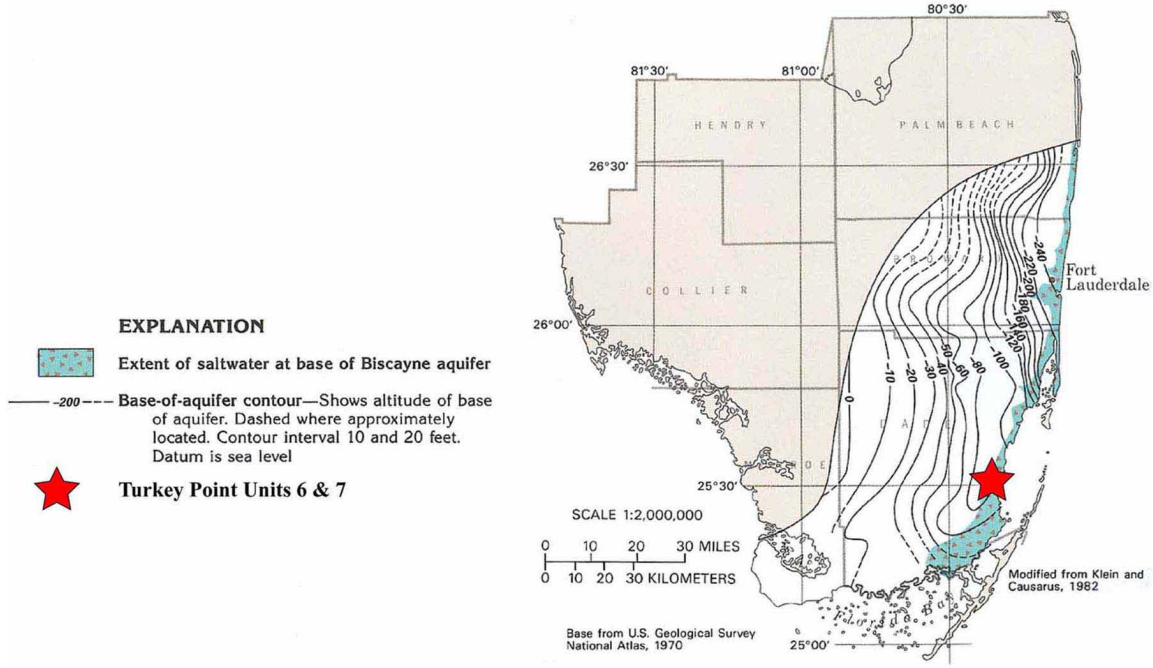
Figure 2.4.12-205 Location of the Biscayne Aquifer in Southeast Florida



Modified from Reference 210

PTN COL 2.4-4

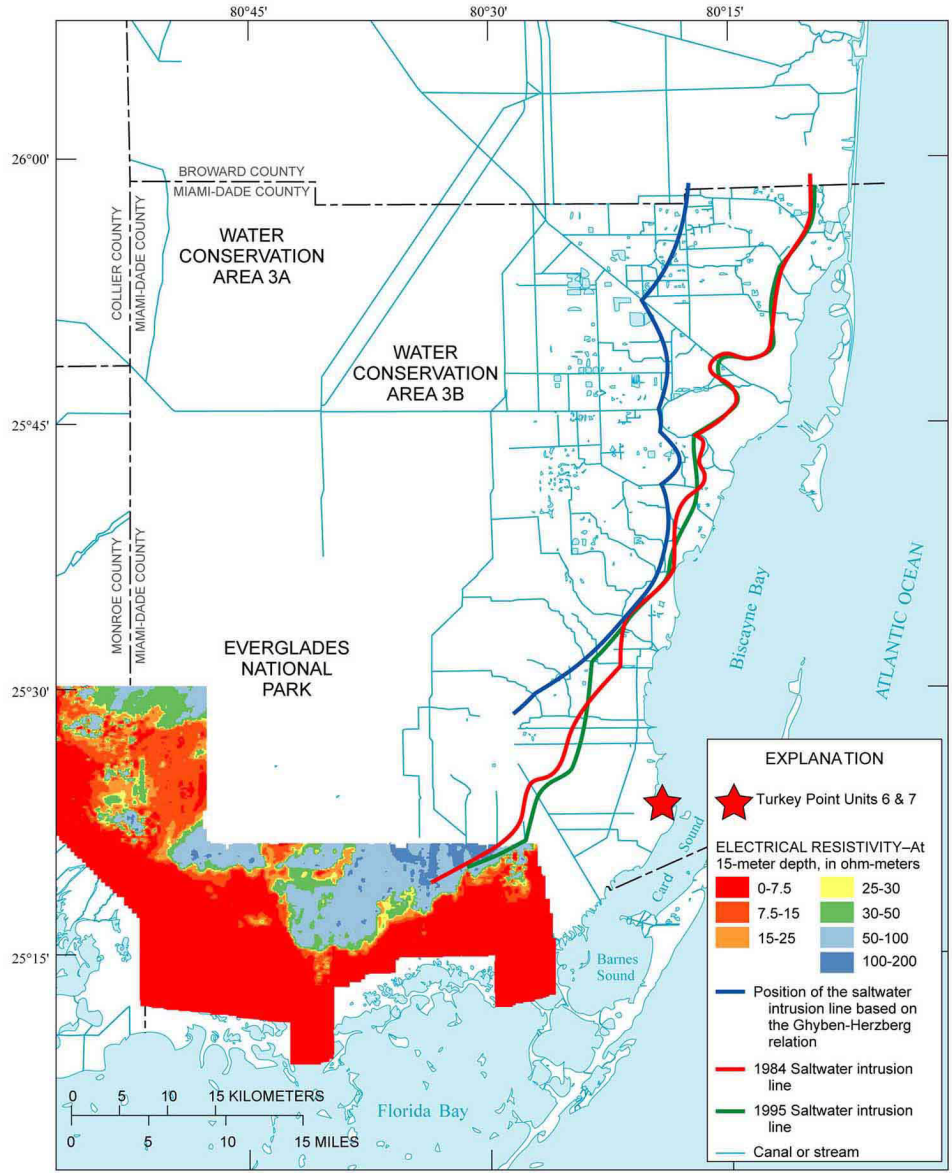
Figure 2.4.12-206 Base of the Biscayne Aquifer



Modified from Reference 210

PTN COL 2.4-4

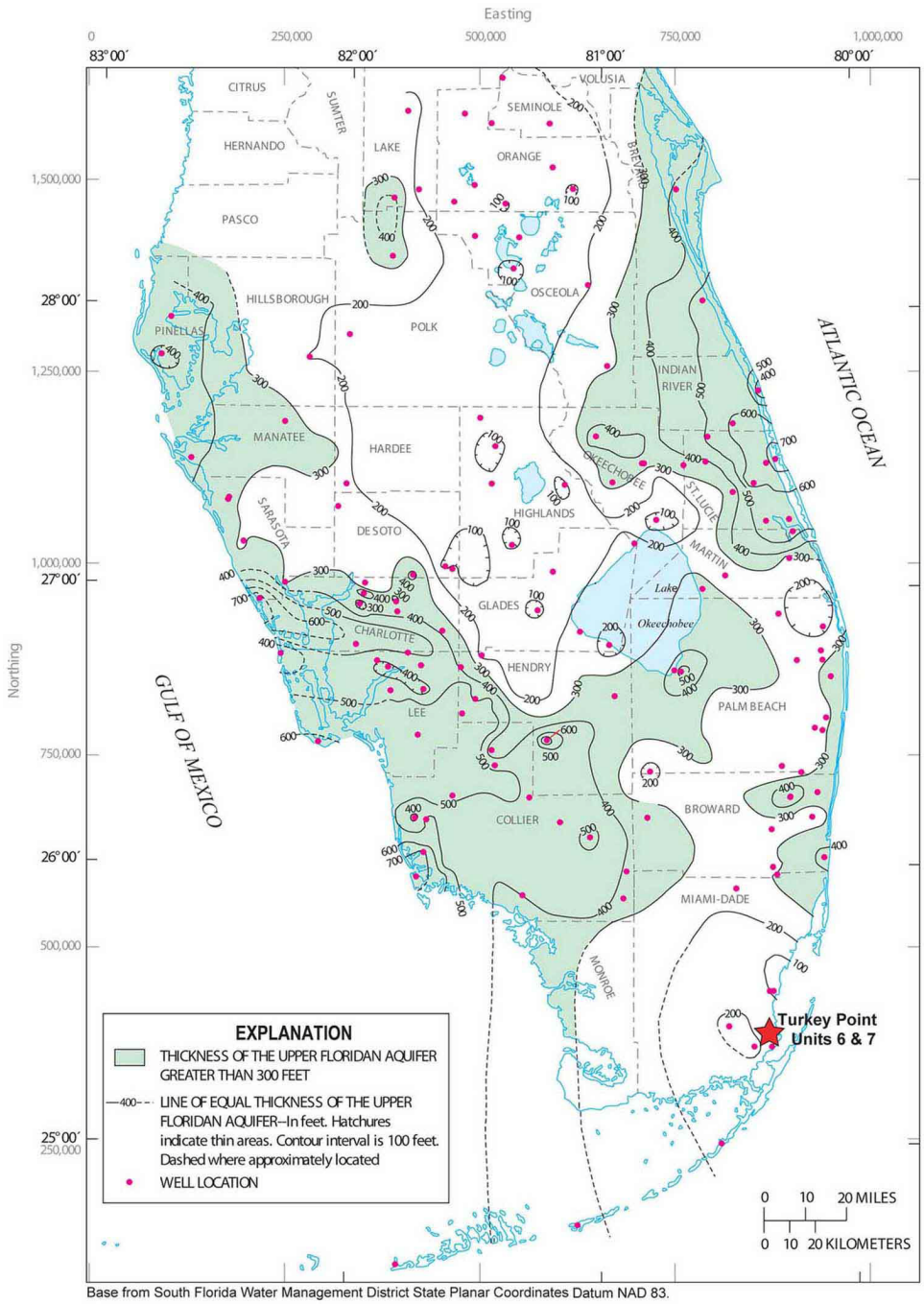
Figure 2.4.12-207 Location of the Freshwater-Saltwater Interface



Modified from Reference 212

PTN COL 2.4-4

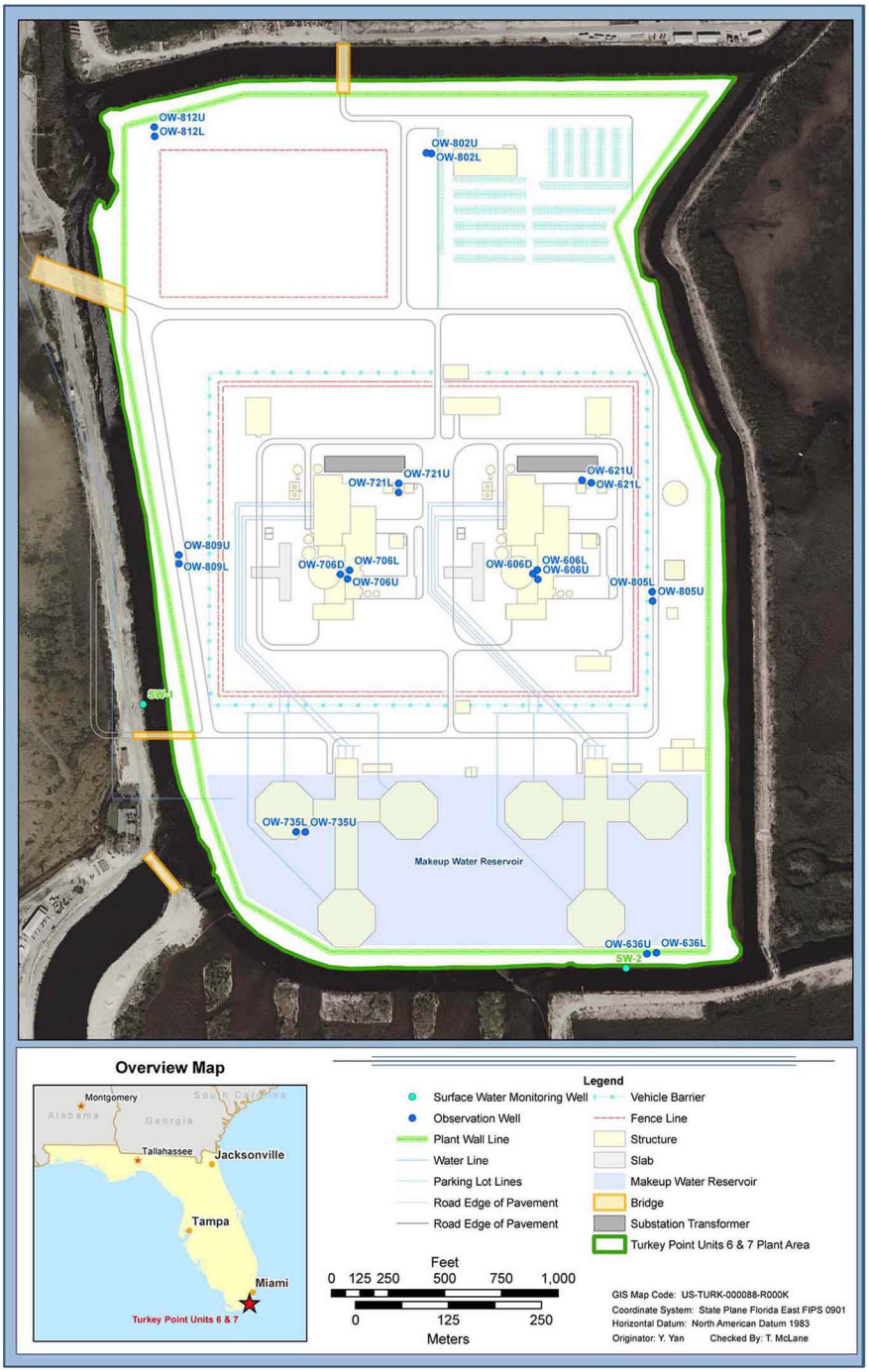
Figure 2.4.12-208 Thickness of the Upper Floridan Aquifer



Modified from Reference 206

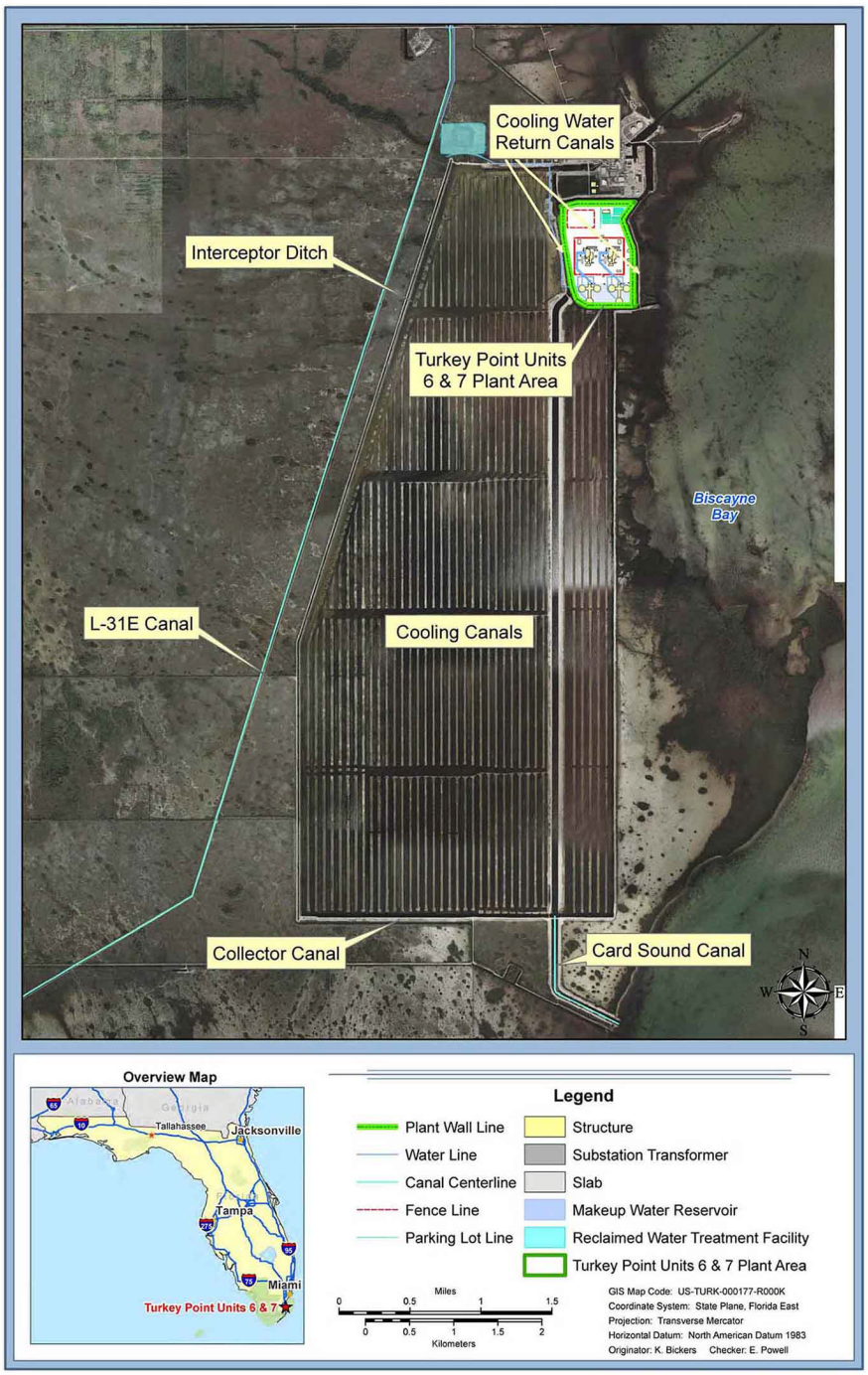
PTN COL 2.4-4

Figure 2.4.12-209 Units 6 & 7 Observation Well Locations

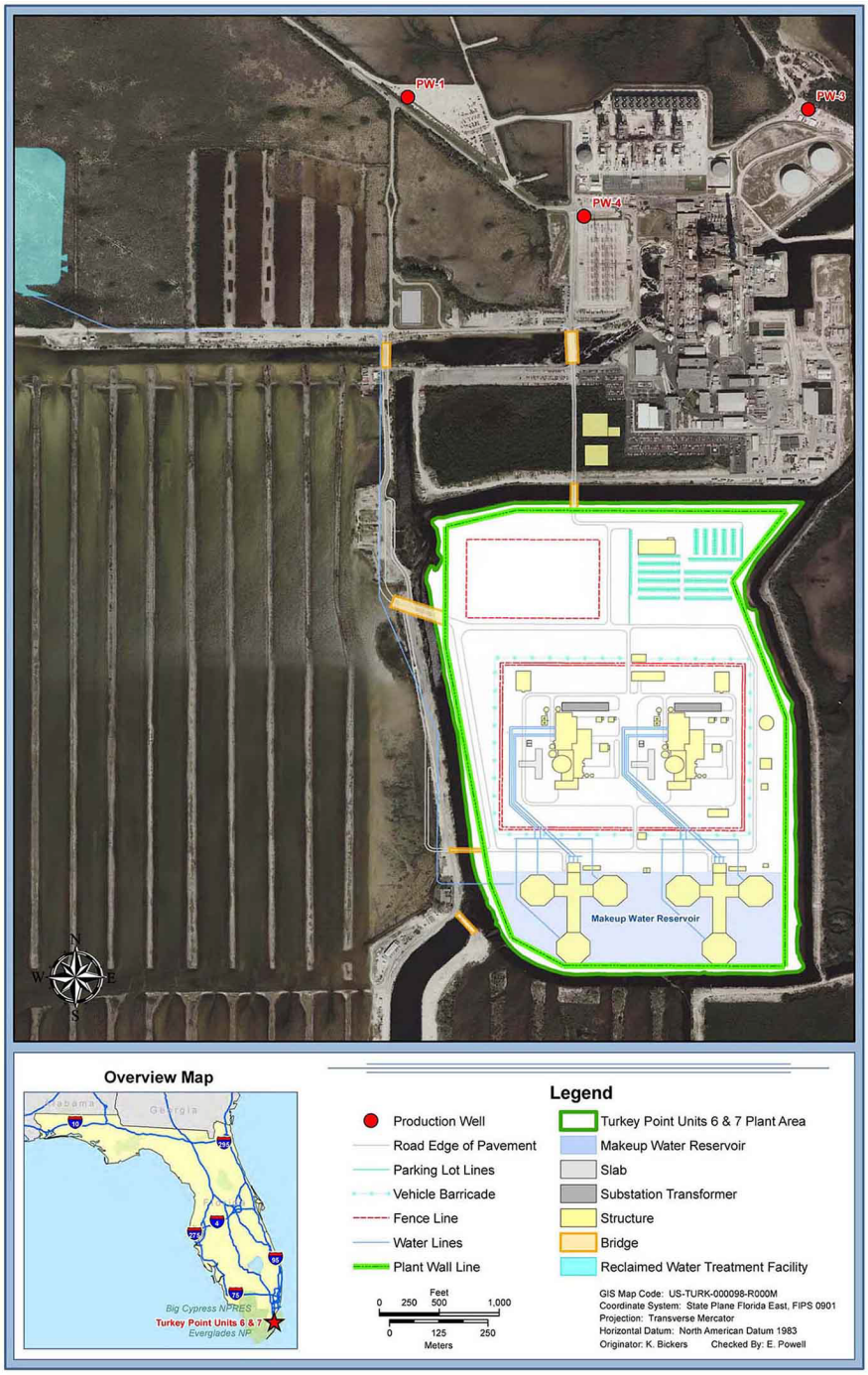


PTN COL 2.4-4

Figure 2.4.12-210 Industrial Wastewater Facility

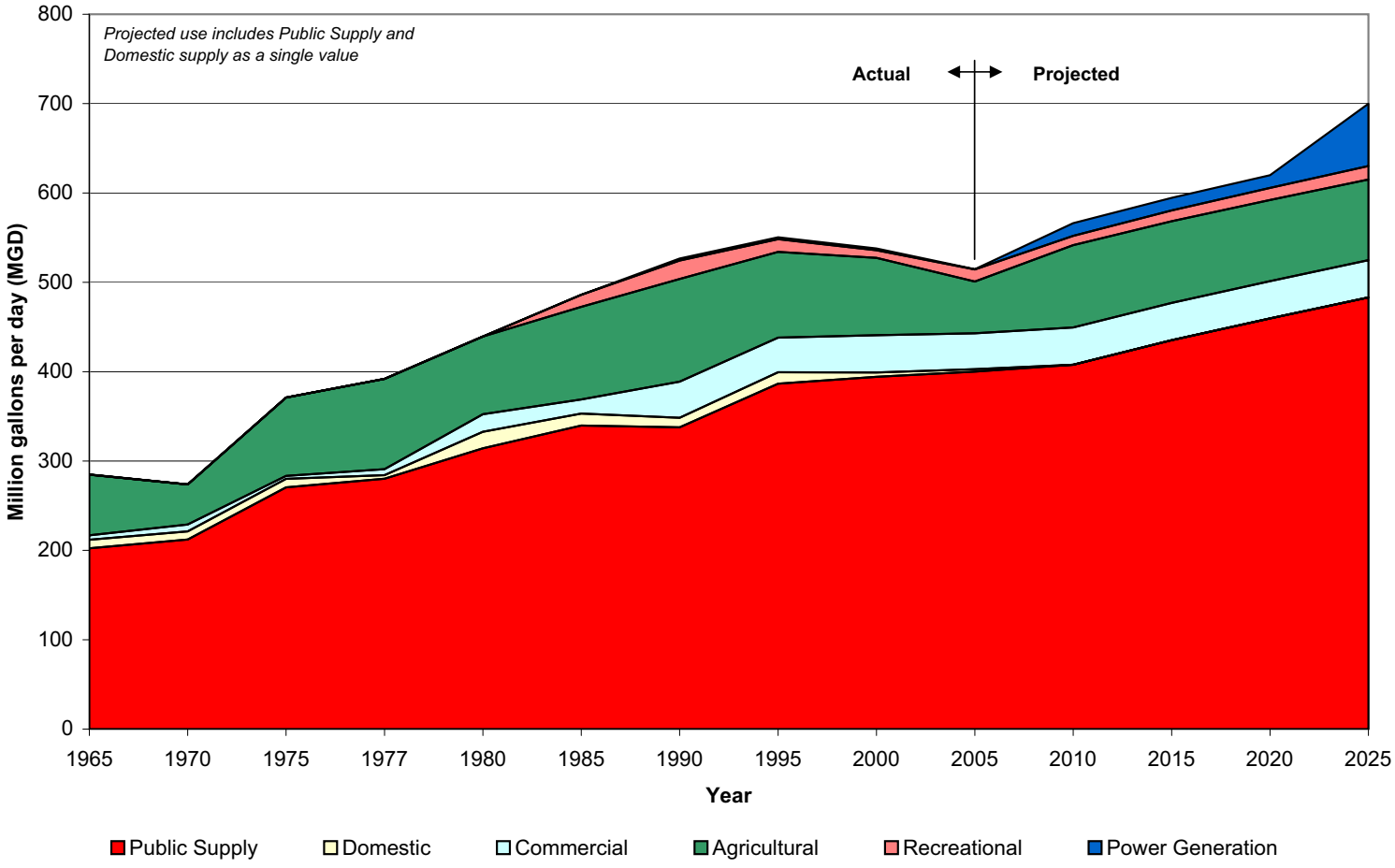


PTN COL 2.4-4 **Figure 2.4.12-211 Upper Floridan Aquifer Production Wells for Unit 5**



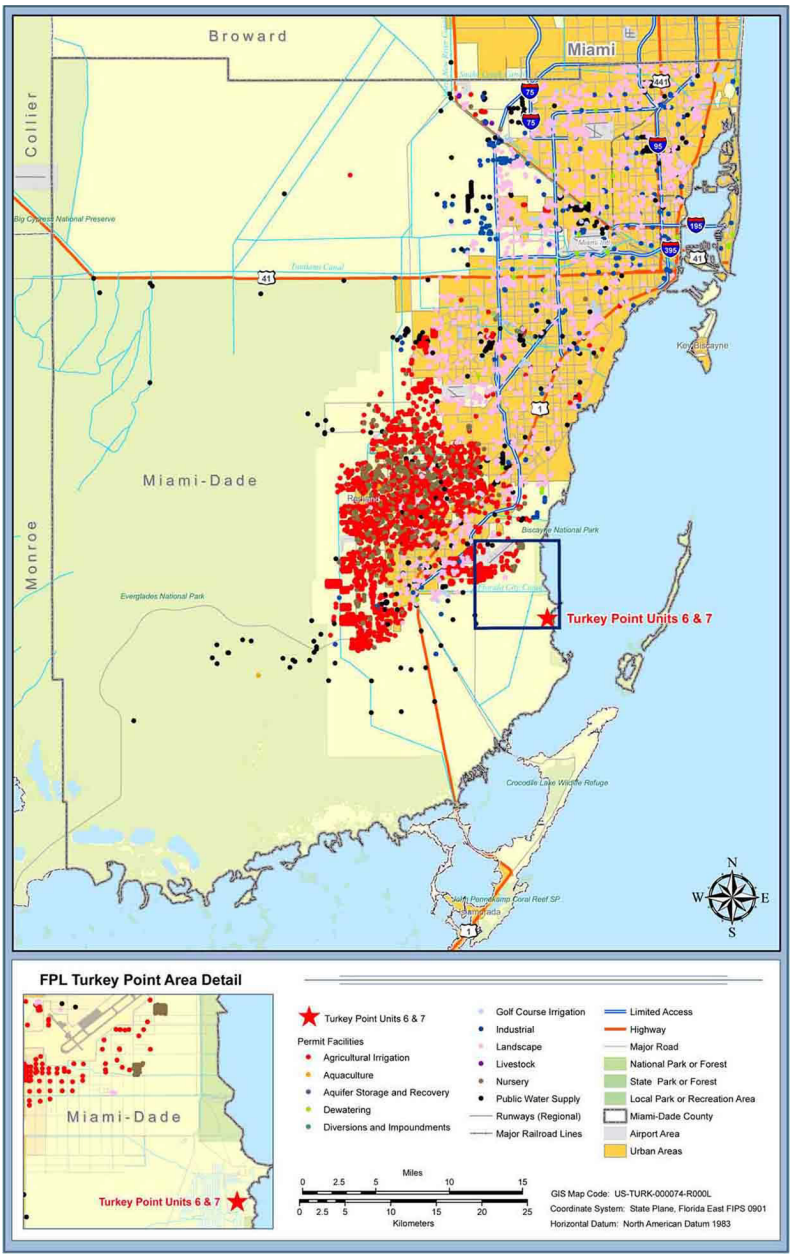
PTN COL 2.4-4

Figure 2.4.12-212 Withdrawals of Groundwater in Miami-Dade County



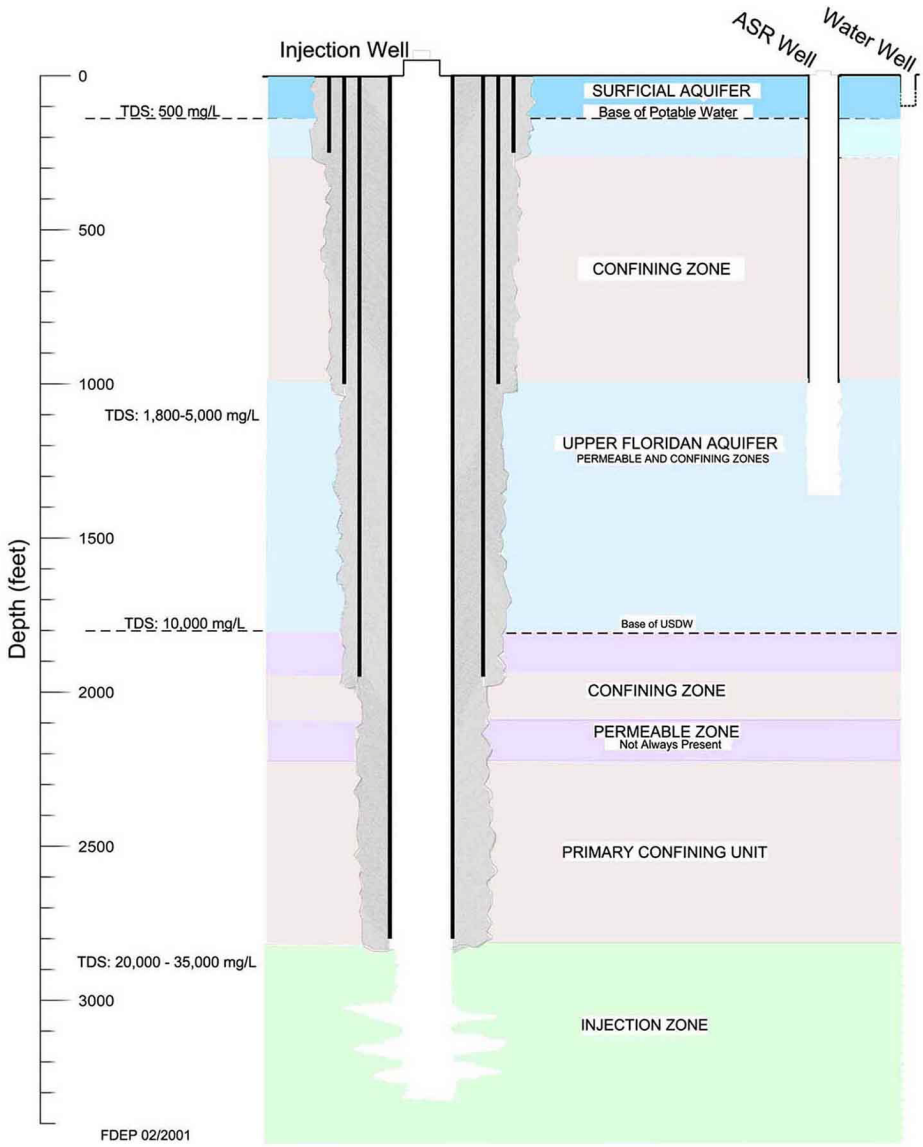
Source: Table 2.4.12-202

PTN COL 2.4-4 **Figure 2.4.12-213 SFWMD Freshwater Well Permits in Miami-Dade County**



Source: Reference 227

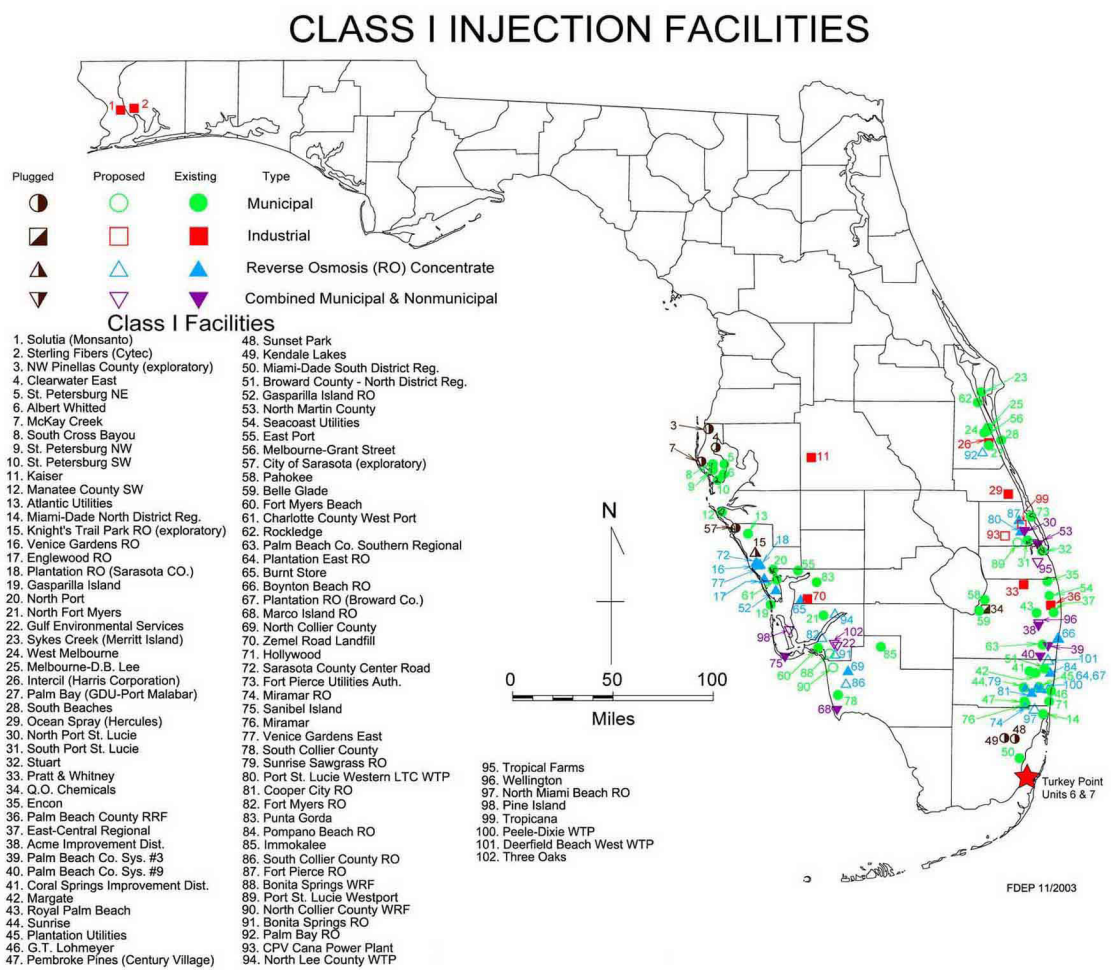
PTN COL 2.4-4 **Figure 2.4.12-214 Typical Municipal Class 1 Injection Well, ASR Well and Water Well in Southeast Florida**



Source: Reference 229

PTN COL 2.4-4

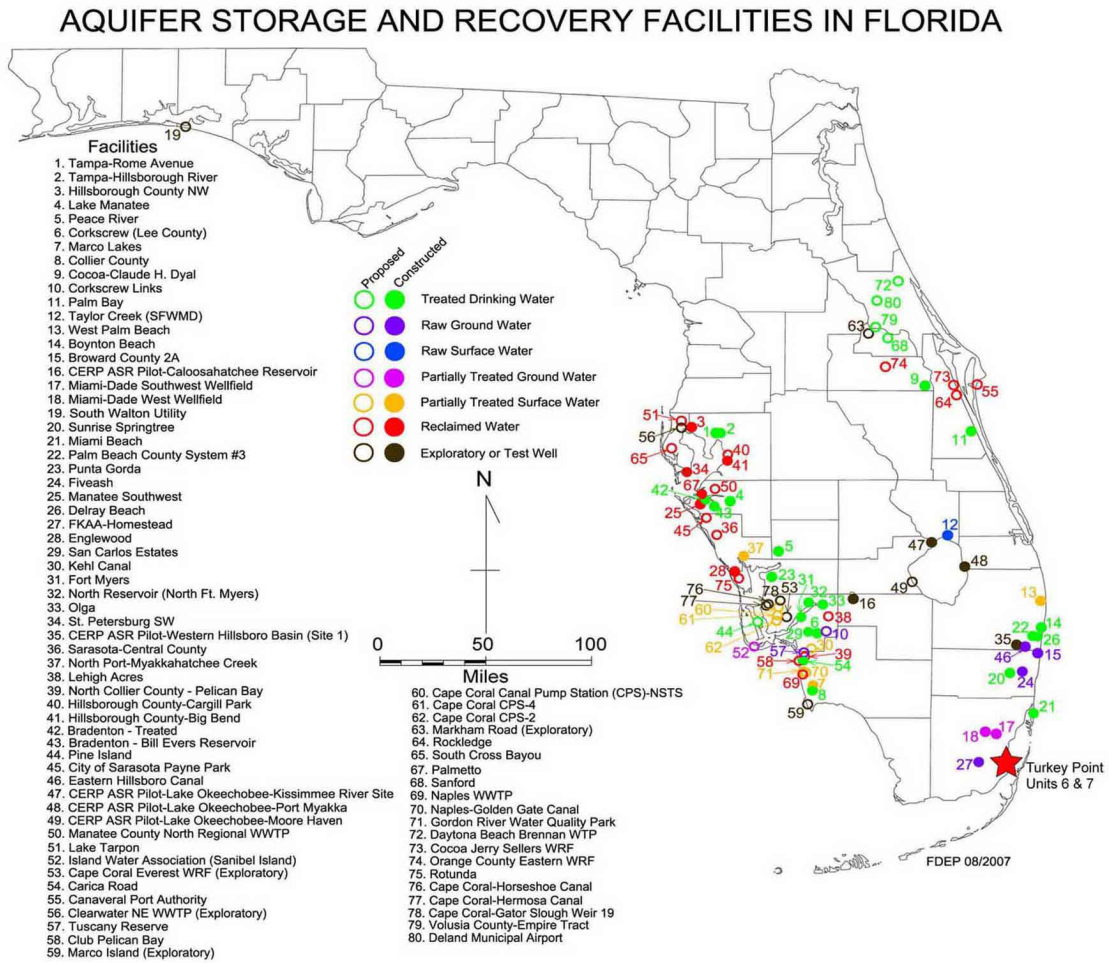
Figure 2.4.12-215 Locations of Class I Injection Facilities in Florida



Modified from Reference 229

PTN COL 2.4-4

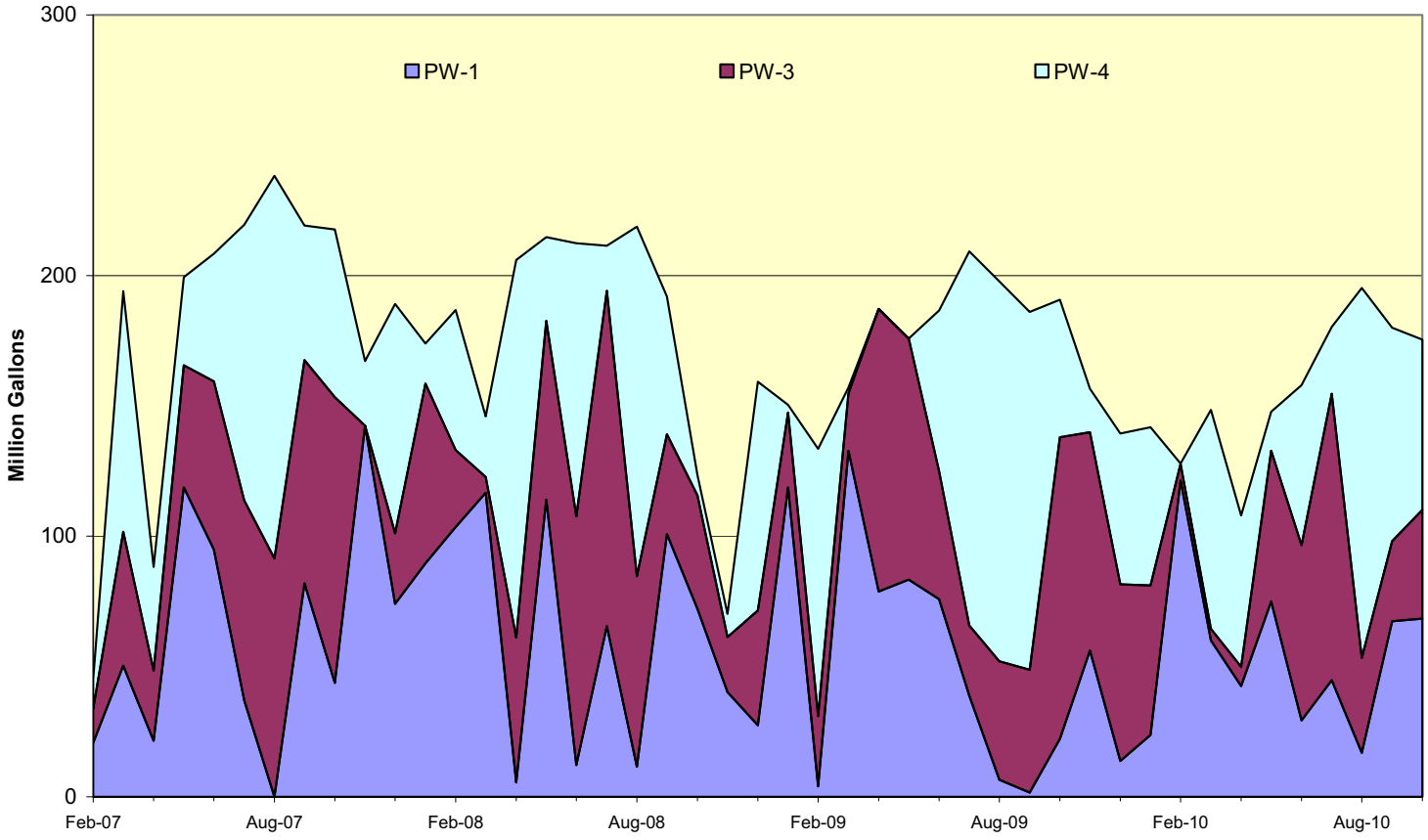
Figure 2.4.12-216 Location of Aquifer Storage and Recovery Facilities in Florida



Modified from Reference 229

PTN COL 2.4-4

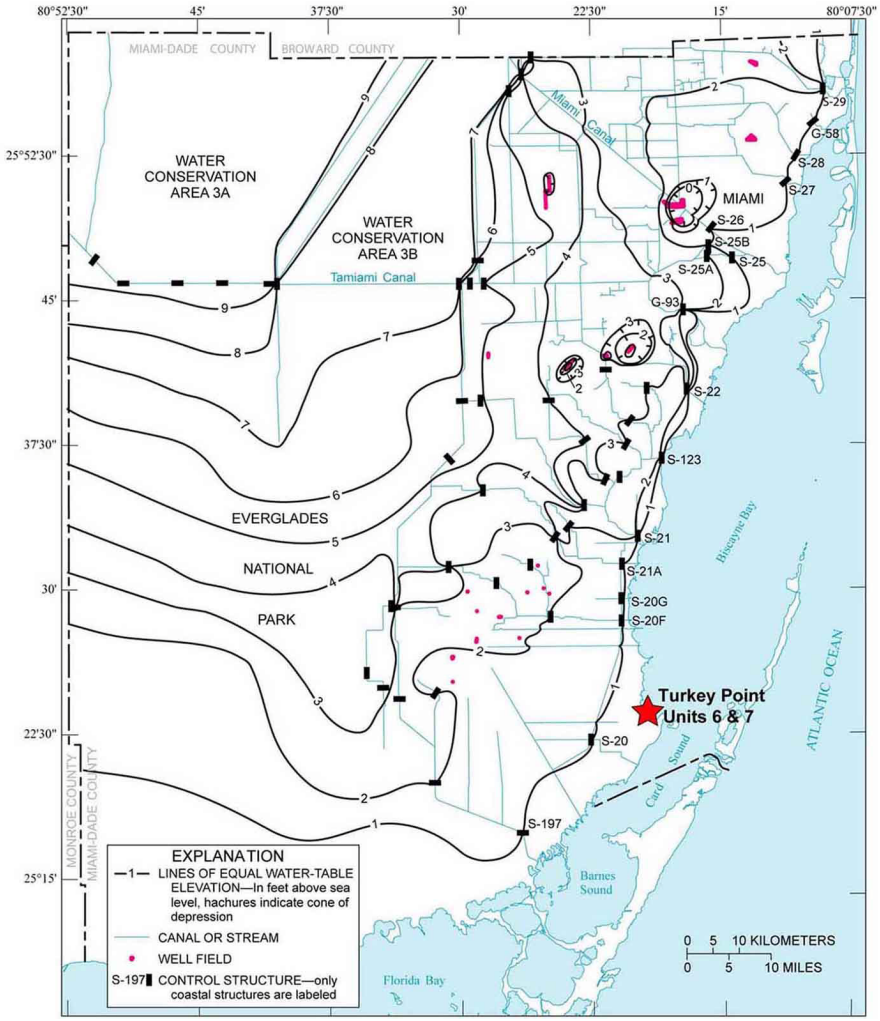
Figure 2.4.12-217 Turkey Point Upper Floridan Aquifer Saline Groundwater Use



PTN COL 2.4-4

Figure 2.4.12-218 Location of Radial Collector Wells

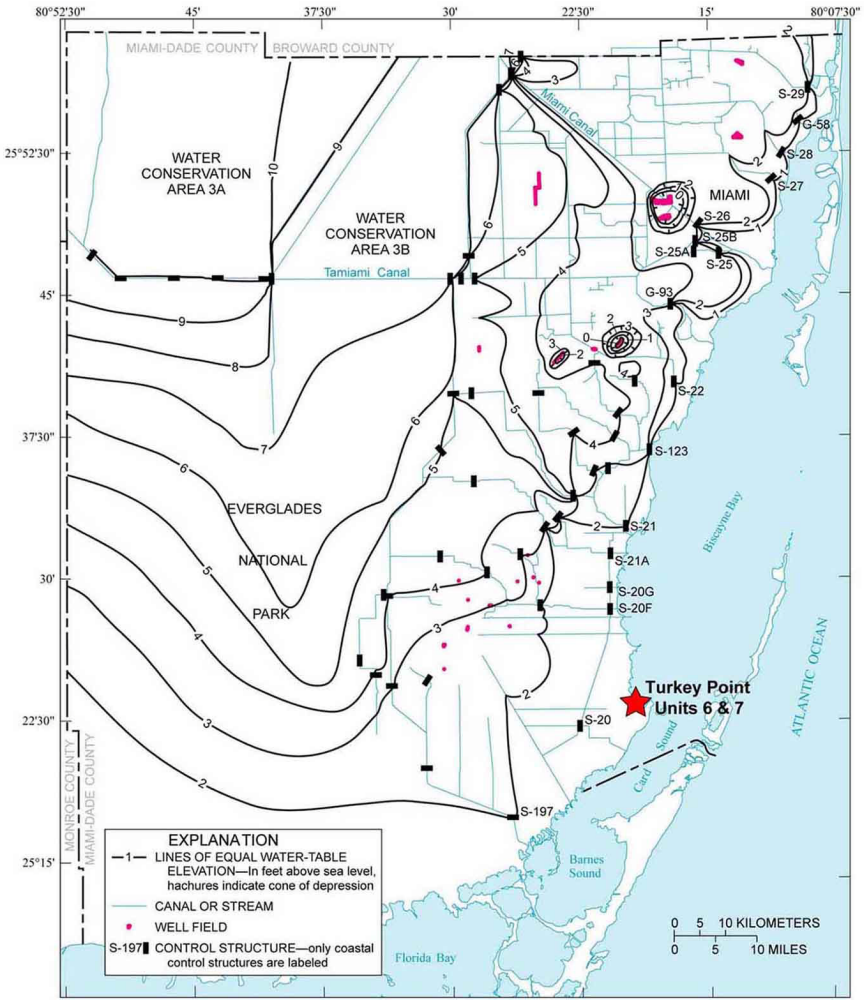
PTN COL 2.4-4 **Figure 2.4.12-219 May 1993 Biscayne Aquifer Potentiometric Surface Map**



Modified from Reference 212

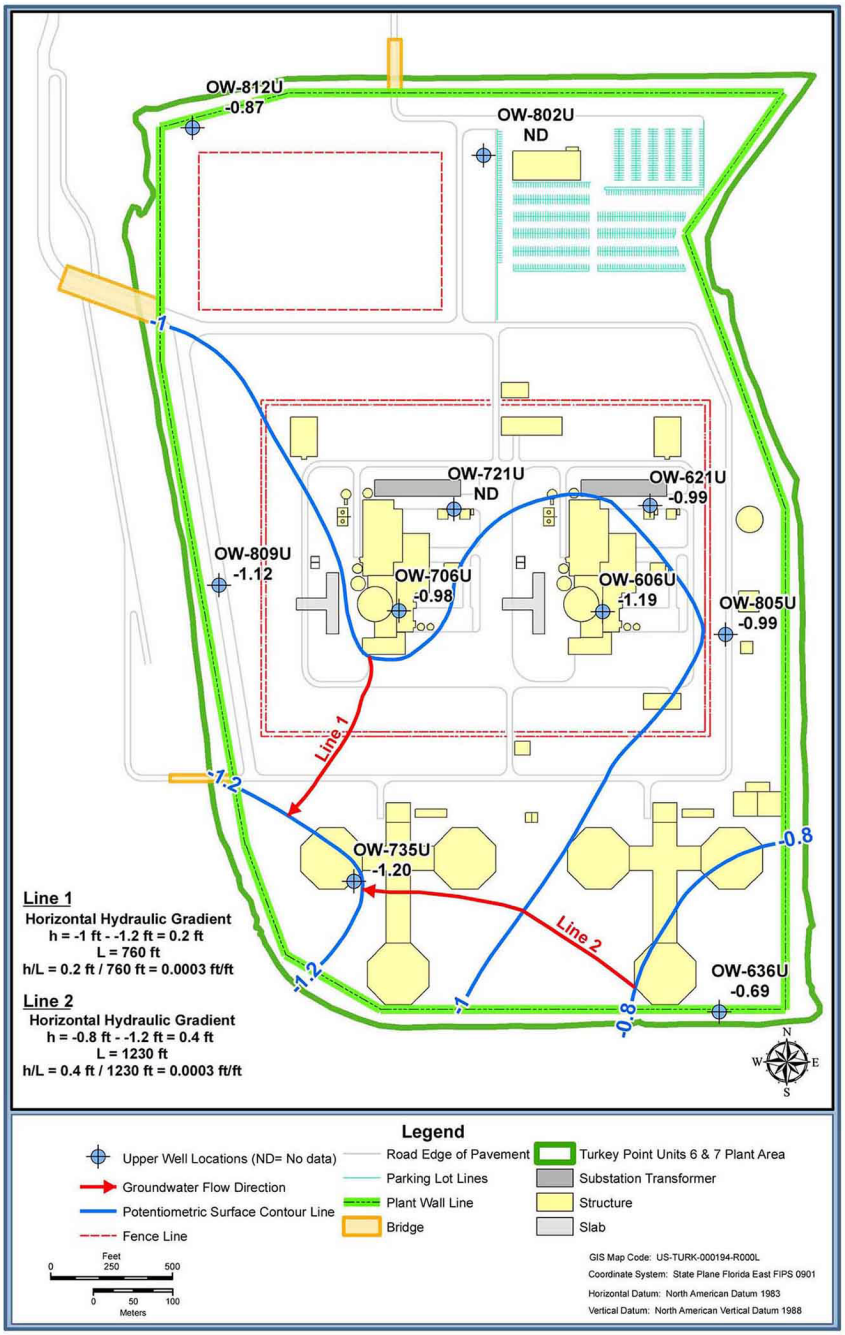
PTN COL 2.4-4

Figure 2.4.12-220 November 1993 Biscayne Aquifer Potentiometric Surface Map

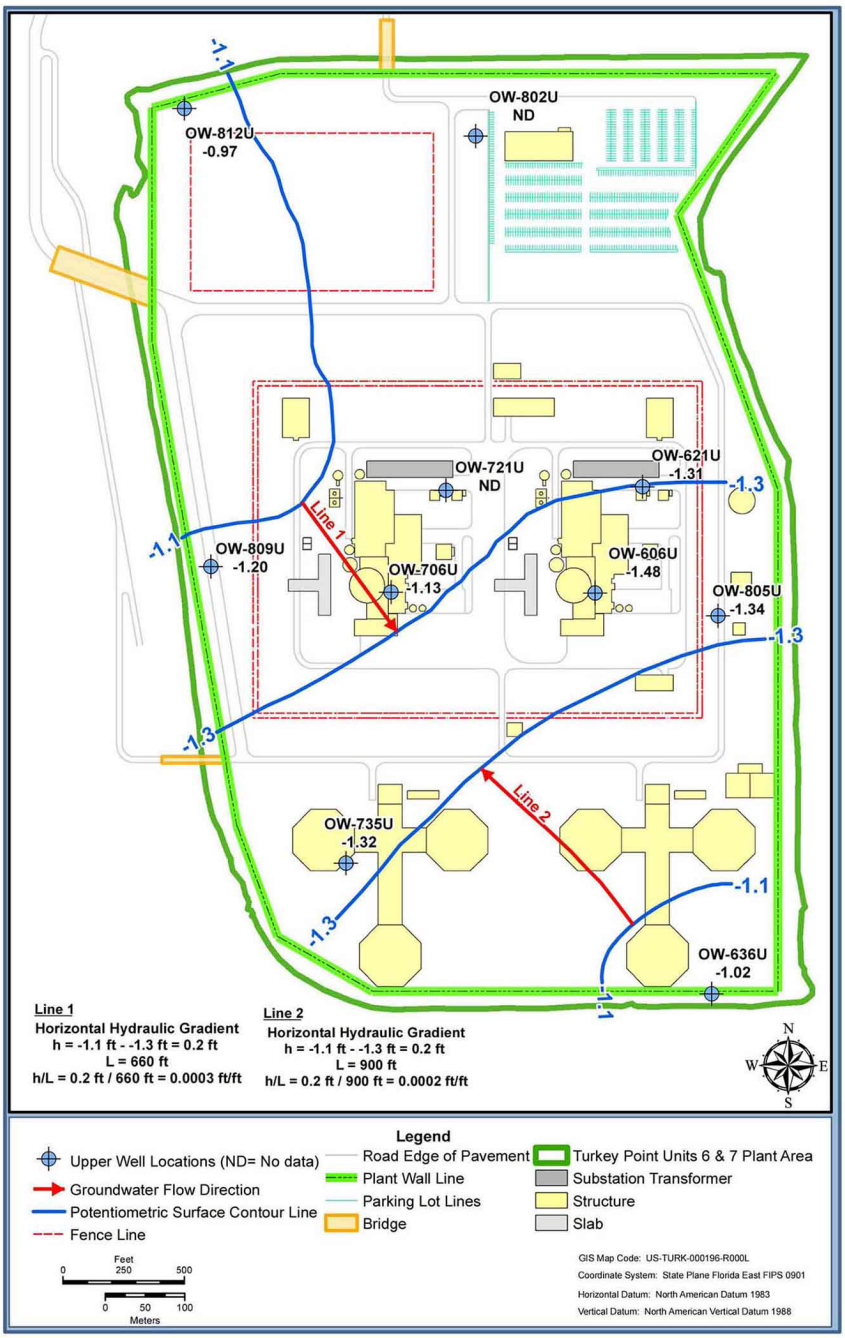


Modified from Reference 212

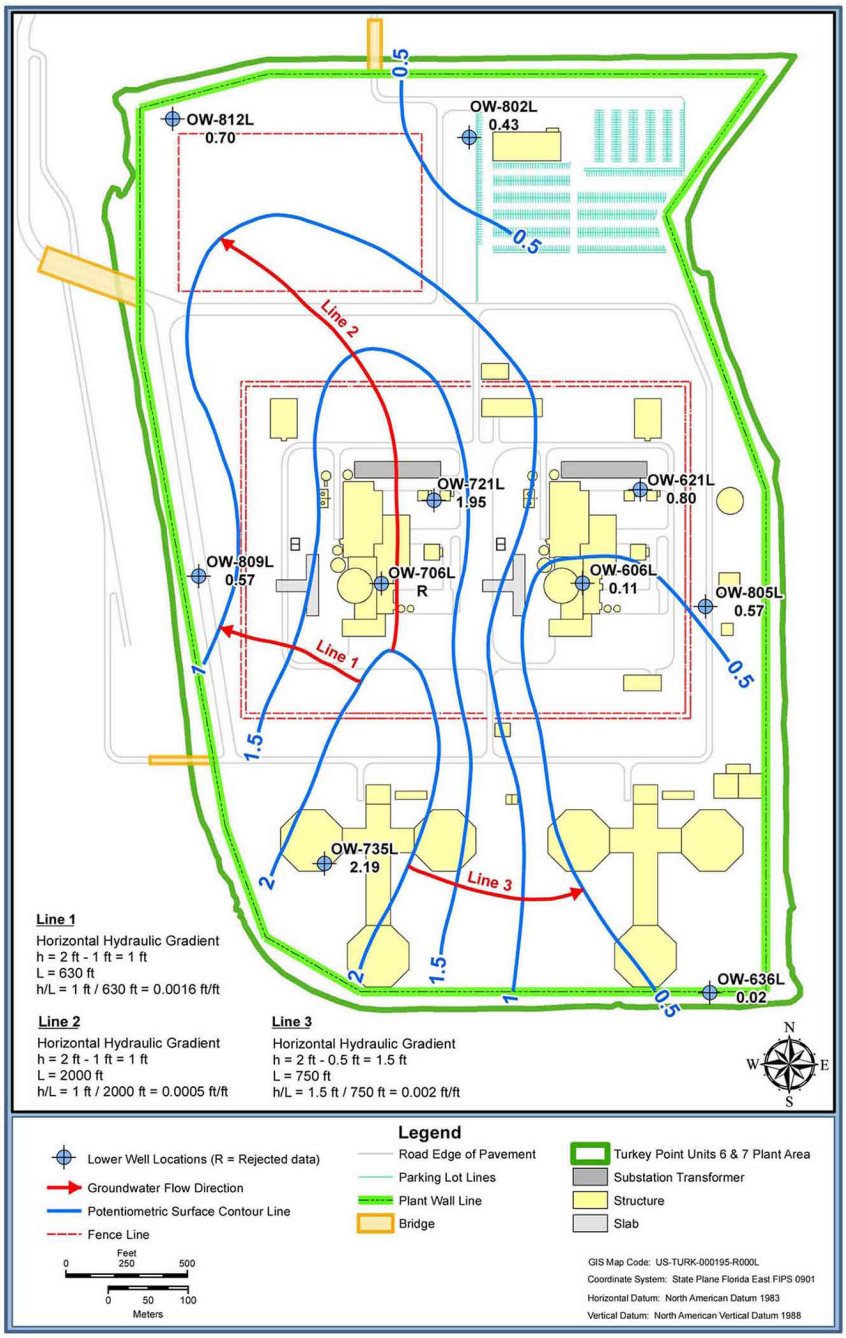
PTN COL 2.4-4 **Figure 2.4.12-221 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, June 29, 2008 (Sheet 1 of 2) High Tide**



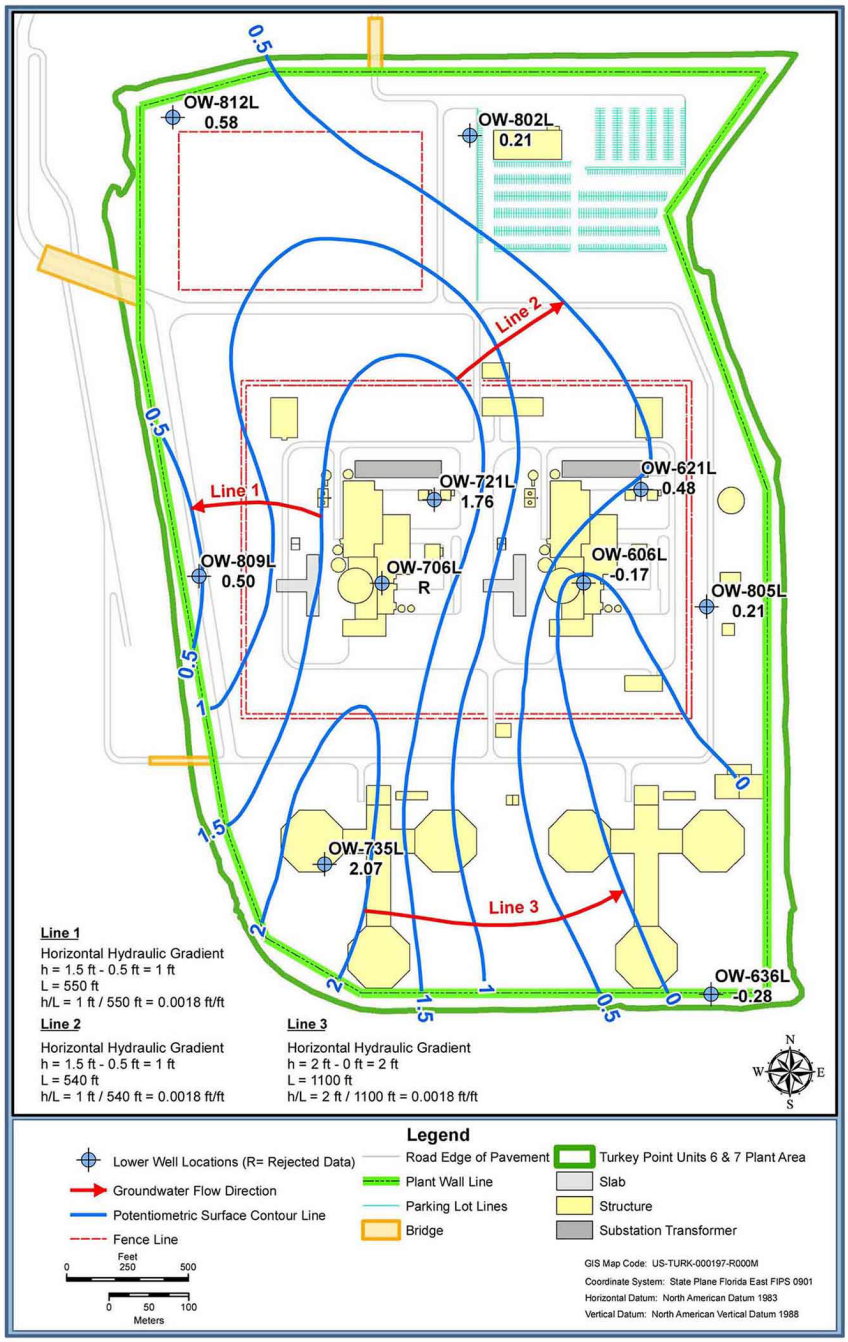
PTN COL 2.4-4 **Figure 2.4.12-221 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, June 29, 2008 (Sheet 2 of 2) Low Tide**



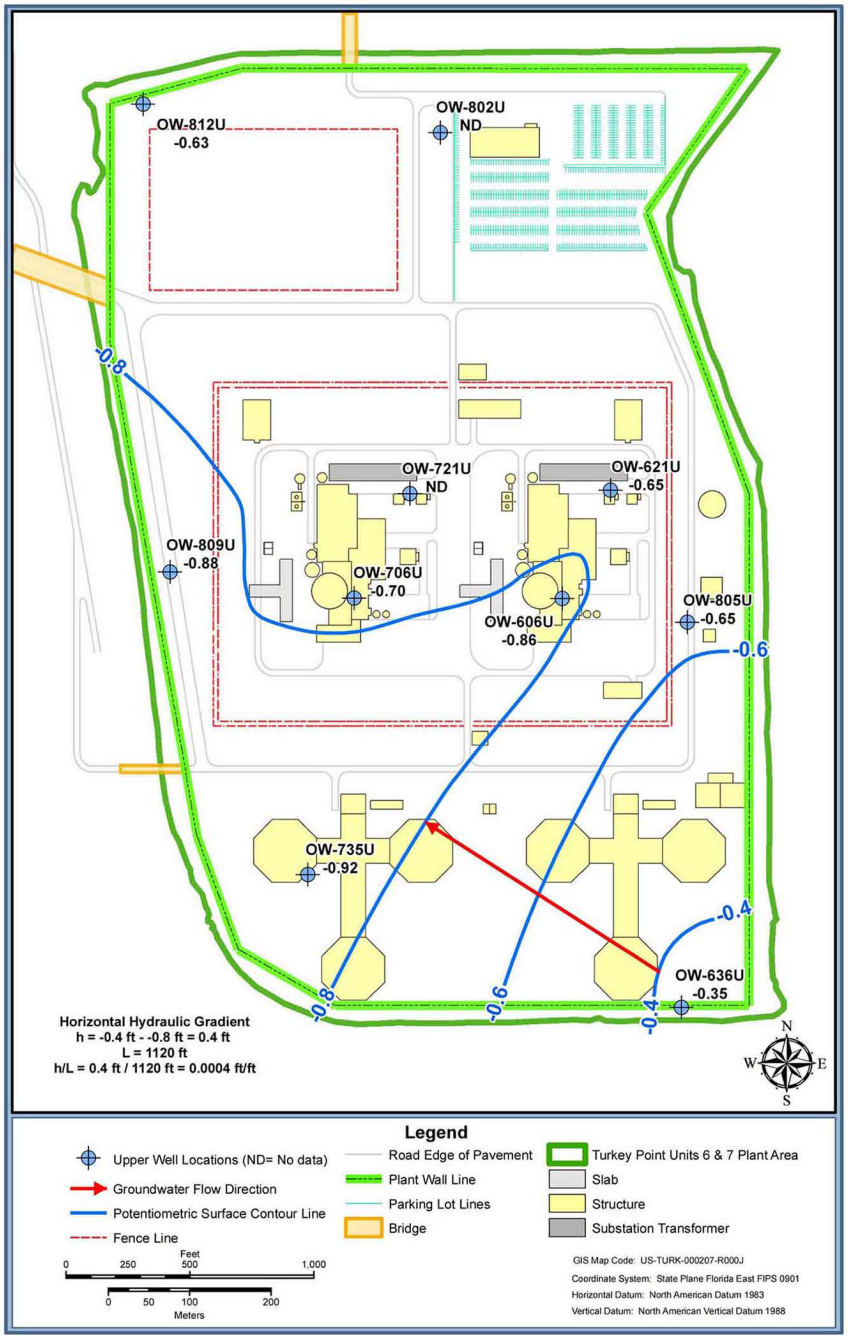
PTN COL 2.4-4 **Figure 2.4.12-222 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, June 29, 2008 (Sheet 1 of 2) High Tide**



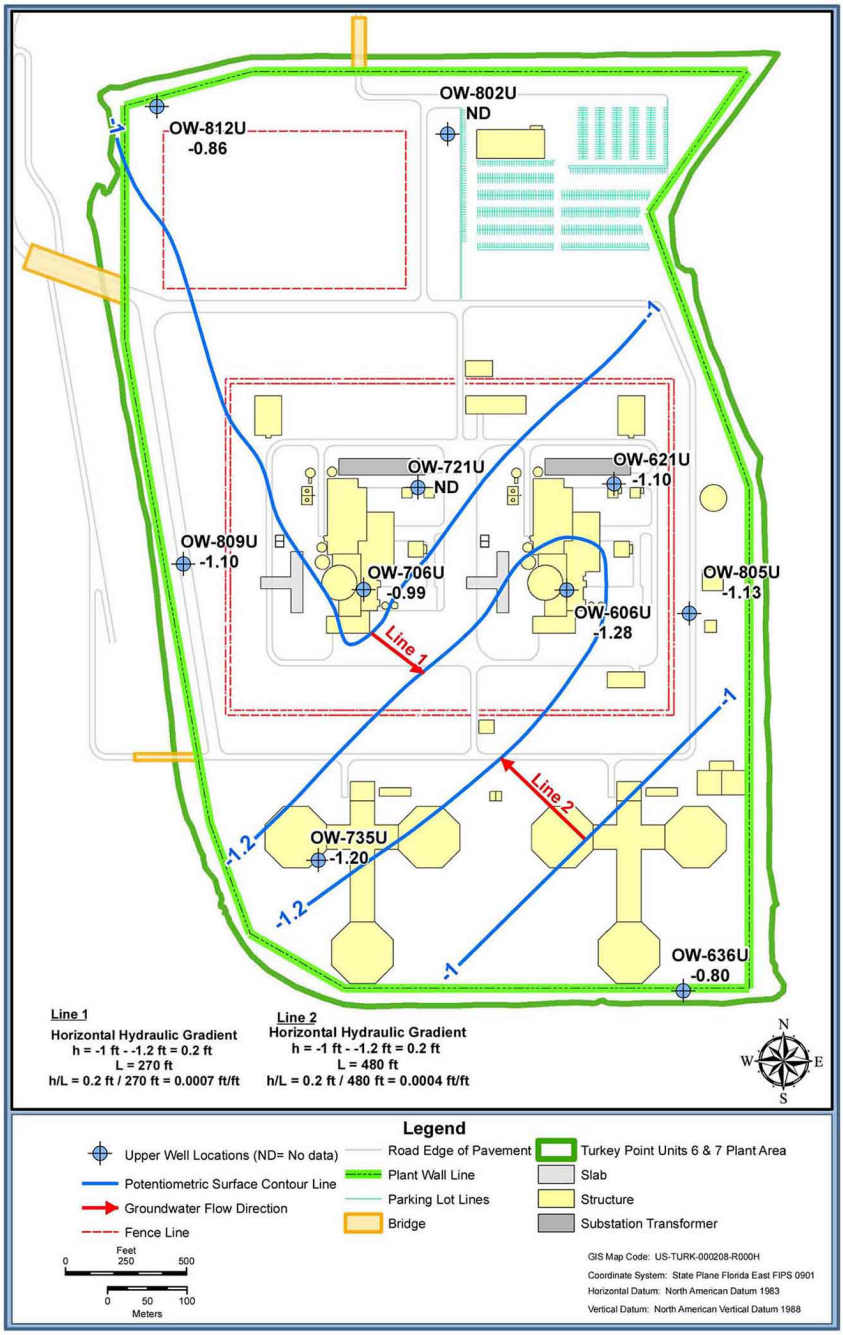
PTN COL 2.4-4 **Figure 2.4.12-222 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, June 29, 2008 (Sheet 2 of 2) Low Tide**



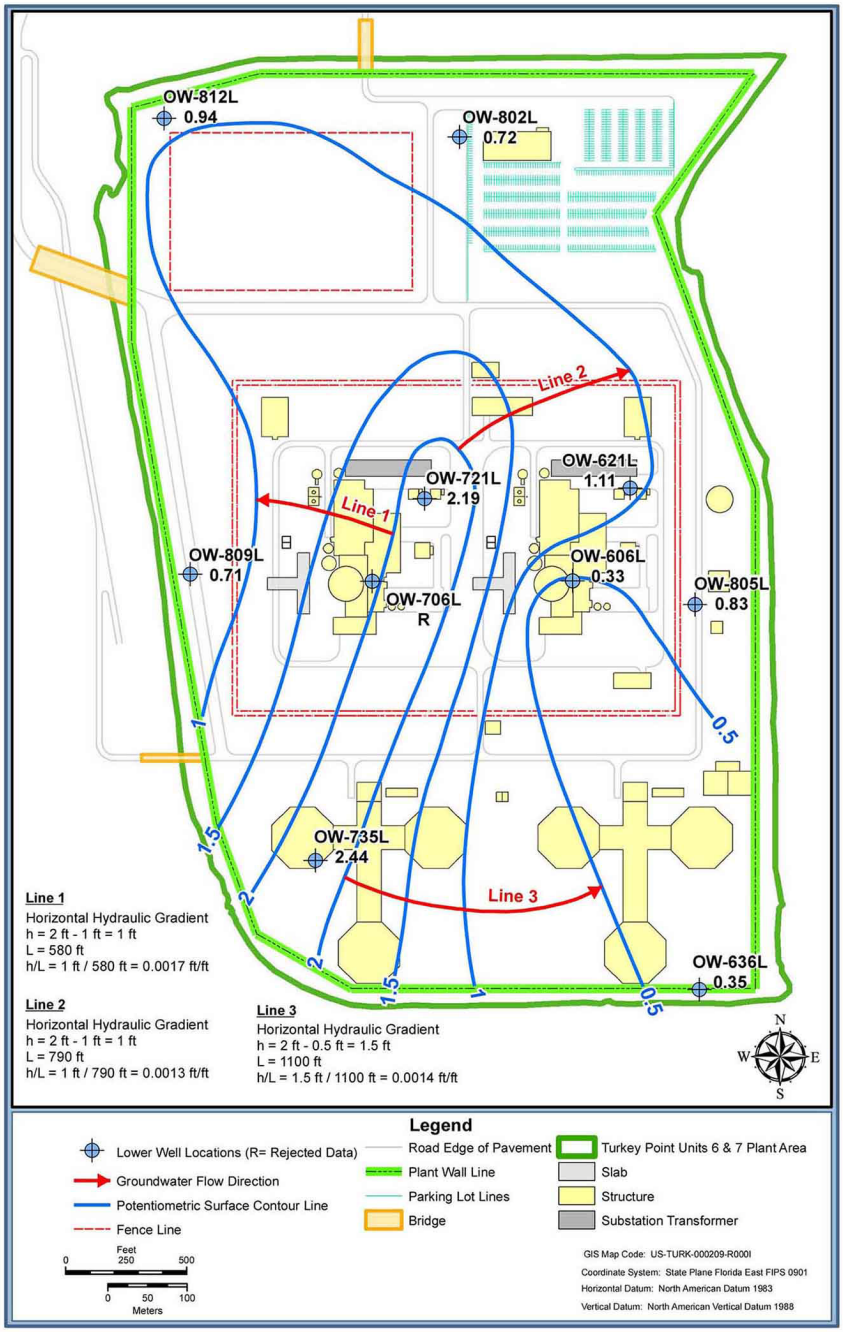
PTN COL 2.4-4 **Figure 2.4.12-223 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, August 15, 2008 (Sheet 1 of 2) High Tide**



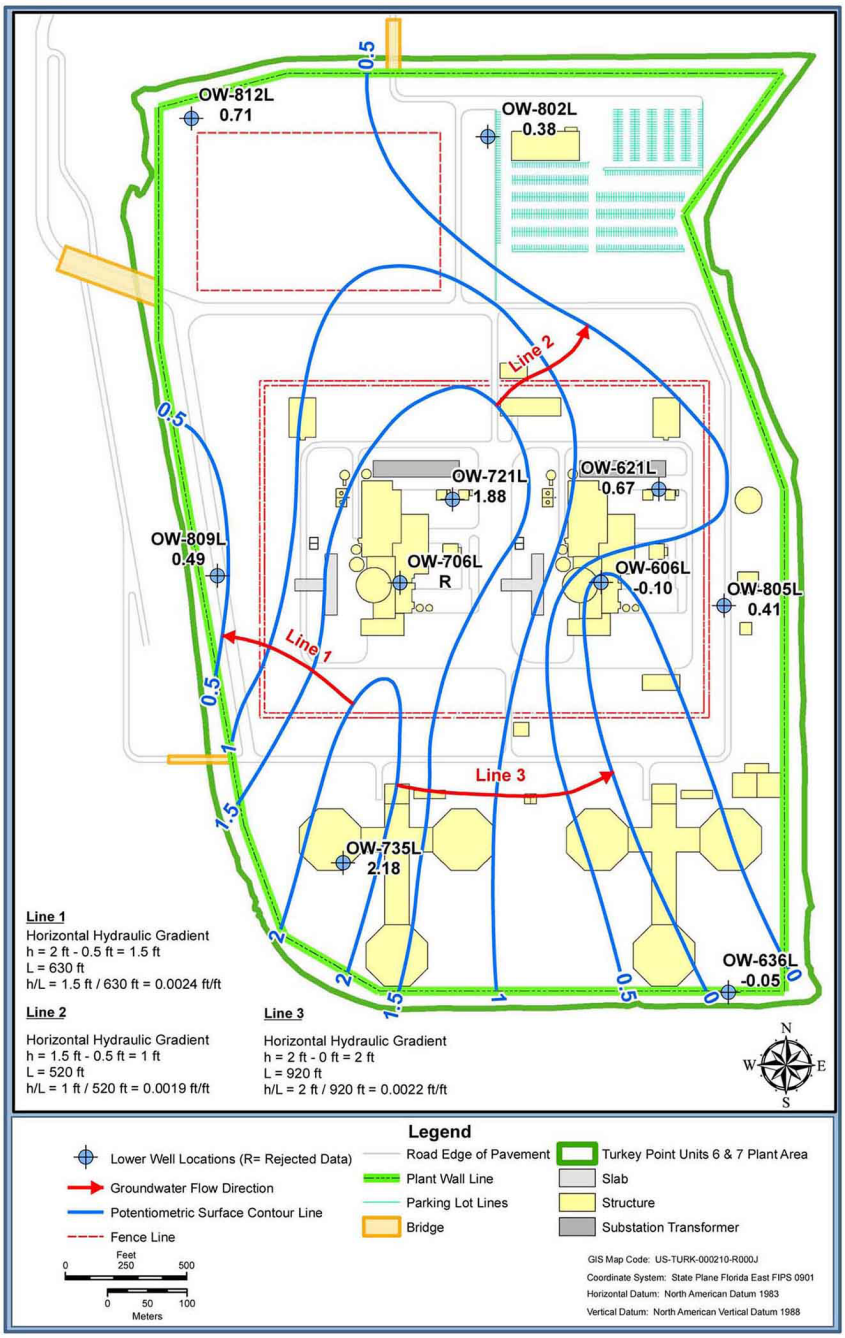
PTN COL 2.4-4 **Figure 2.4.12-223 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, August 15, 2008 (Sheet 2 of 2) Low Tide**



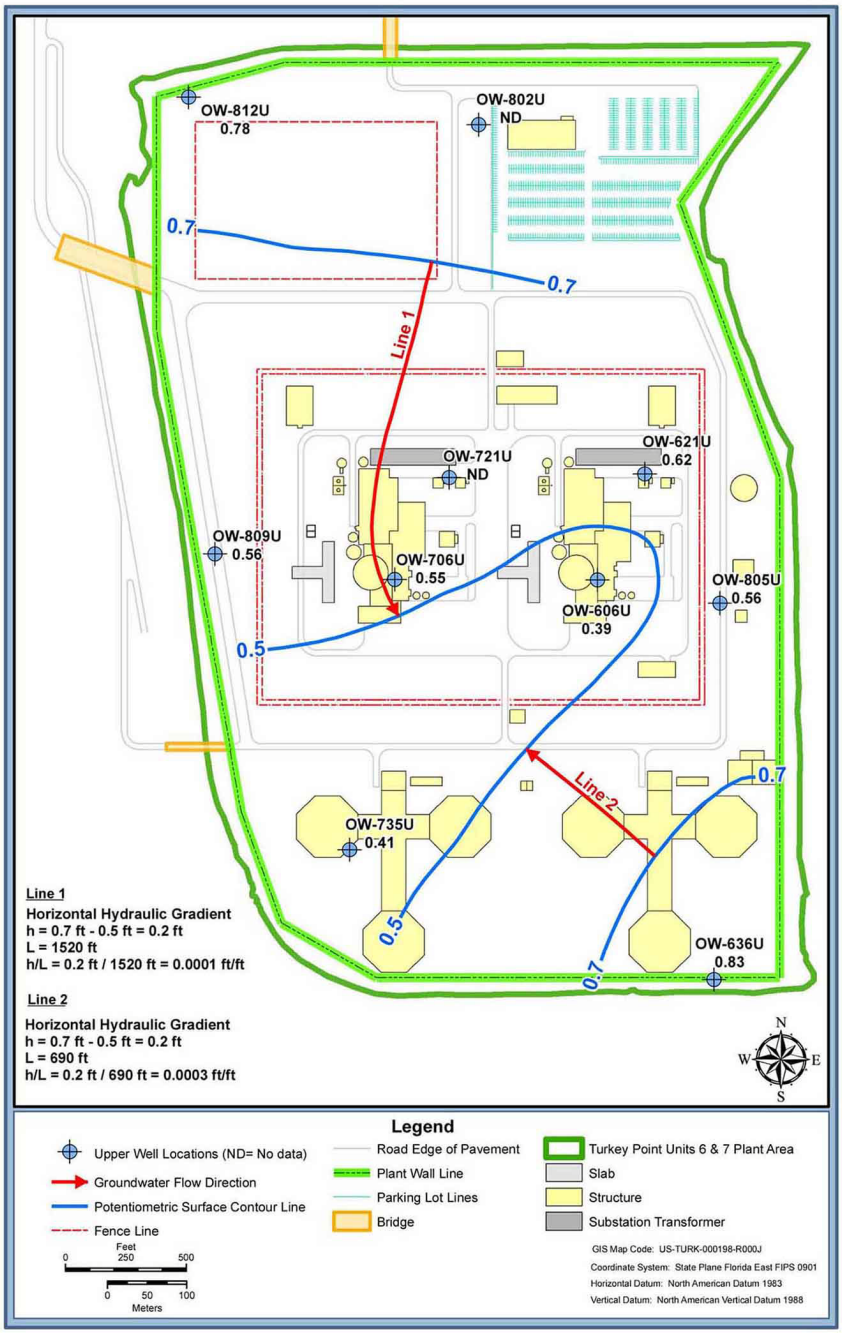
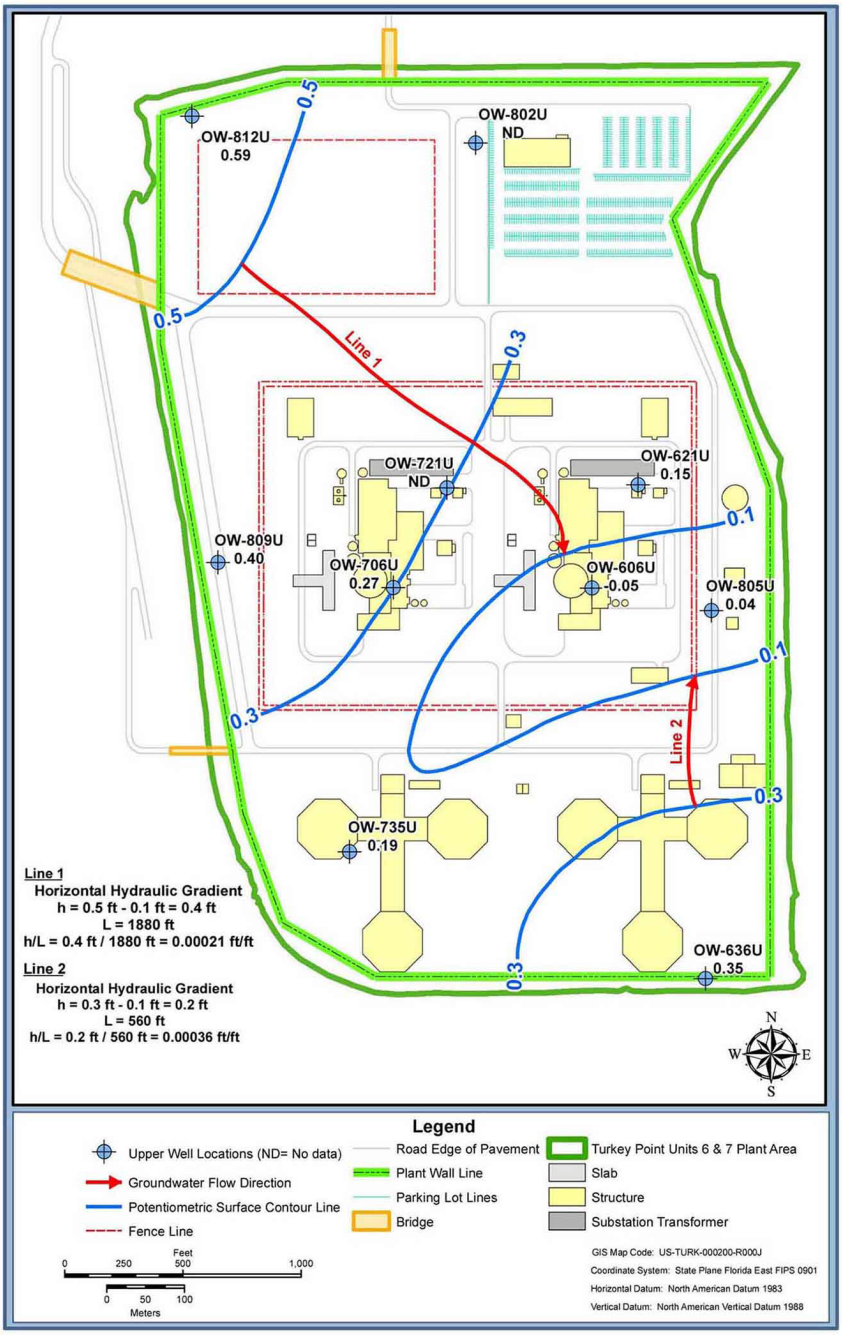
PTN COL 2.4-4 **Figure 2.4.12-224 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, August 15, 2008 (Sheet 1 of 2) High Tide**



PTN COL 2.4-4 **Figure 2.4.12-224 Biscayne Aquifer Potentiometric Surface Map, Lower Monitoring Interval, August 15, 2008 (Sheet 2 of 2) Low Tide**



PTN COL 2.4-4 **Figure 2.4.12-225 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 1 of 2) High Tide**



PTN COL 2.4-4 **Figure 2.4.12-225 Biscayne Aquifer Potentiometric Surface Map, Upper Monitoring Interval, October 5, 2008 (Sheet 2 of 2) Low Tide**