

APPENDIX 10.7.7

GEOLOGY AND SUBSURFACE HYDROLOGY DATA

NOTE: The data presented in this appendix supports the discussions in SCA Sections 3.3.1 Geology and 3.3.2 Subsurface Hydrology.

10.7.7 Geology and Subsurface Hydrology Data	
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TABLE 1
SUMMARY OF WELL CONSTRUCTION DATA

Well Number	Borehole Depth (feet bgs)	Well Depth (feet bgs)	Coordinates (Florida East State Plane) in feet		Screened Interval (feet bgs)	Top of Casing Elevation (feet NAVD 88)	Height of casing (feet ags)	Pad Elevation (feet NAVD 88)
			Northing	Easting				
OW-606D	137	136	396962.8	876712.9	125 - 135	1.6	3.2	-1.6
OW-606L	110	108	396979.9	876732.6	97 - 107	1.3	2.8	-1.5
OW-606U	30.2	29	396938	876734.8	18 - 28	1.4	3.2	-1.8
OW-621L	110	109.6	397364.5	876970	98.6 - 108.6	3.1	3	0.1
OW-621U	30	28.4	397375.8	876930	17.4 - 27.4	3.9	3.3	0.6
OW-636L	111	108.1	395290.8	877257.2	97.1 - 107.1	3	3.4	-0.4
OW-636U	29.8	28	396960.1	875864.4	17 - 27	2.8	3.4	-0.6
OW-706D	138.4	135.1	396960.1	875864.4	123.8 - 133.8	2.2	3.3	-1.1
OW-706L	112	111	396978.2	875904.6	100 - 110	2.2	3.2	-1
OW-706U	29	28	396940.1	875895.7	17 - 27	1.7	3.2	-1.5
OW-721L	109	107	397321.5	876120.3	96 - 106	2	3.2	-1.2
OW-721U	26	25	397361.2	876121.4	14 - 24	2	3.1	-1.1
OW-735L	110	107.9	395824.3	875669.5	96.9 - 106.9	2.7	3.4	-0.7
OW-735U	28	27	395823.3	875709.2	16 - 26	2.8	3.3	-0.5
OW-802L	110	109	398817.1	876255.7	98 - 108	2.1	3.3	-1.2
OW-802U	27	26	398820.2	876243.7	15 - 25	2.2	3.4	-1.2
OW-805L	97	96	396883	877239.5	85 - 95	2.2	3.7	-1.5
OW-805U	30	29	396842.8	877240.9	18 - 28	1.2	2.8	-1.6
OW-809L	110	106.5	397007.9	875152.3	95.5 - 105.5	2.4	3.3	-0.9
OW-809U	27	26	397045.8	875152.4	15 - 25	2.5	3.2	-0.7
OW-812L	109	108	368892.8	875045.5	97 - 107	2.1	3.3	-1.2
OW-812U	27	26	398933.9	875043.5	15 - 25	2.2	3	-0.8

bgs = below ground surface

ags = above ground surface

NAVD 88 = North American Vertical Datum of 1988

Source: MACTEC, Volume 1, 2008.

TABLE 2
MAXIMUM AND MINIMUM WATER LEVEL ELEVATIONS
AT TURKEY POINT UNITS 6 & 7

Well ID	Maximum Elevation (ft NAVD 88)	Minimum Elevation (ft NAVD 88)
OW-606L	N/A	N/A
OW-606U	0.27	-3.24
OW-621L	1.05	-2.31
OW-621U	0.56	-3.00
OW-636L	1.52	-1.75
OW-636U	0.62	-1.97
OW-706L	N/A	N/A
OW-706U	0.25	-3.09
OW-721L	2.09	-1.31
OW-721U	N/A	N/A
OW-735L	2.15	-0.26
OW-735U	0.12	-2.55
OW-802L	1.91	-1.67
OW-802U	N/A	N/A
OW-805L	0.99	-2.45
OW-805U	0.48	-2.99
OW-809L	1.7	-2.01
OW-809U	0.24	-3.42
OW-812L	1.17	-0.88
OW-812U	0.51	-3.12
SW-1	N/A	N/A
SW-2	-0.26	-3.90

Notes:

OW = Observation well (groundwater)

SW = Surface water location

N/A = Not Applicable

The maximum and minimum water level elevations recorded in these 20 wells and 2 surface water locations were from June 2008 through January 2009.



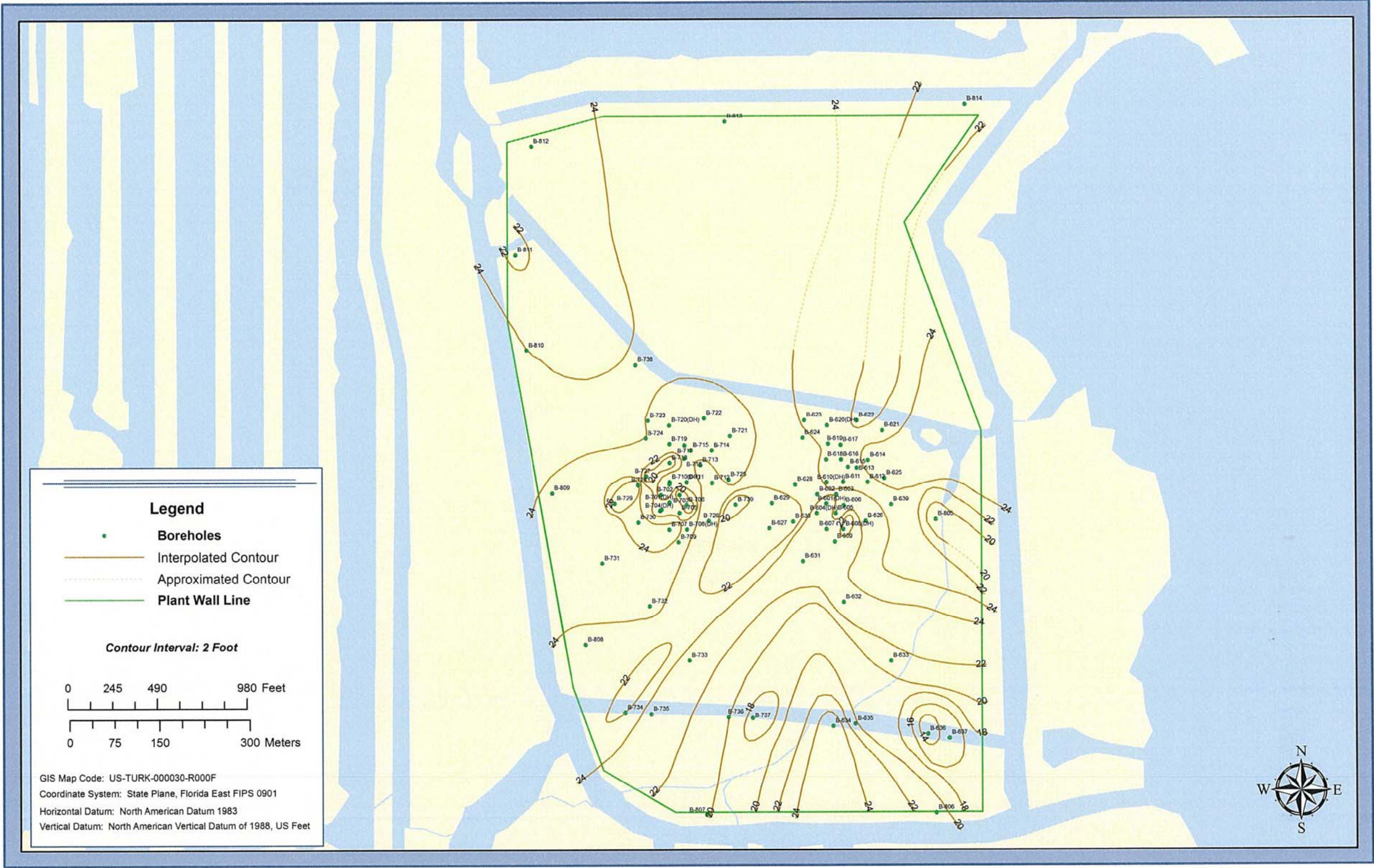


Figure 2
Isopach Map of the Key Largo Limestone
Rev. 0

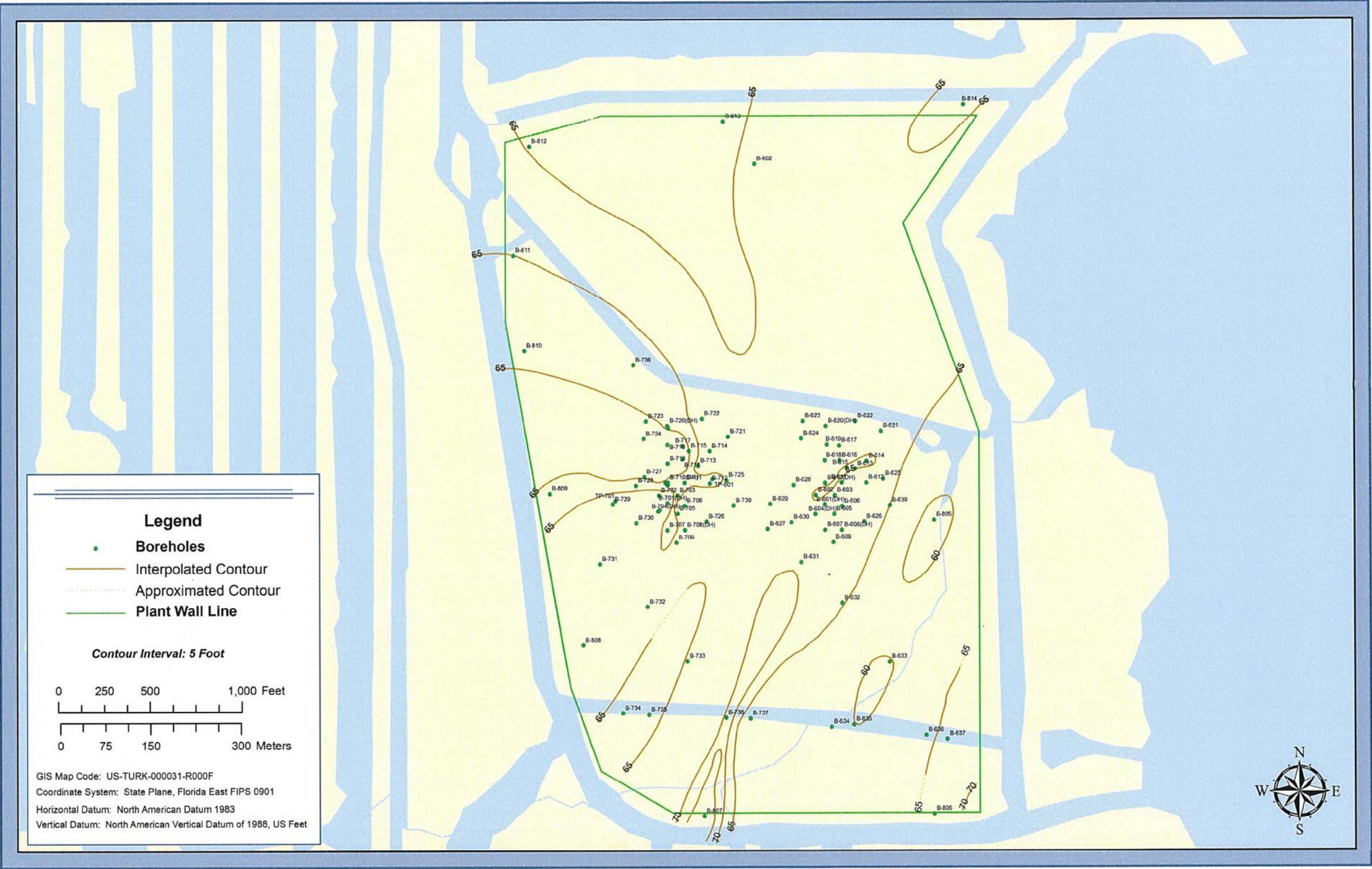


Figure 3
Isopach Map of the Fort Thompson Formation
Rev. 0



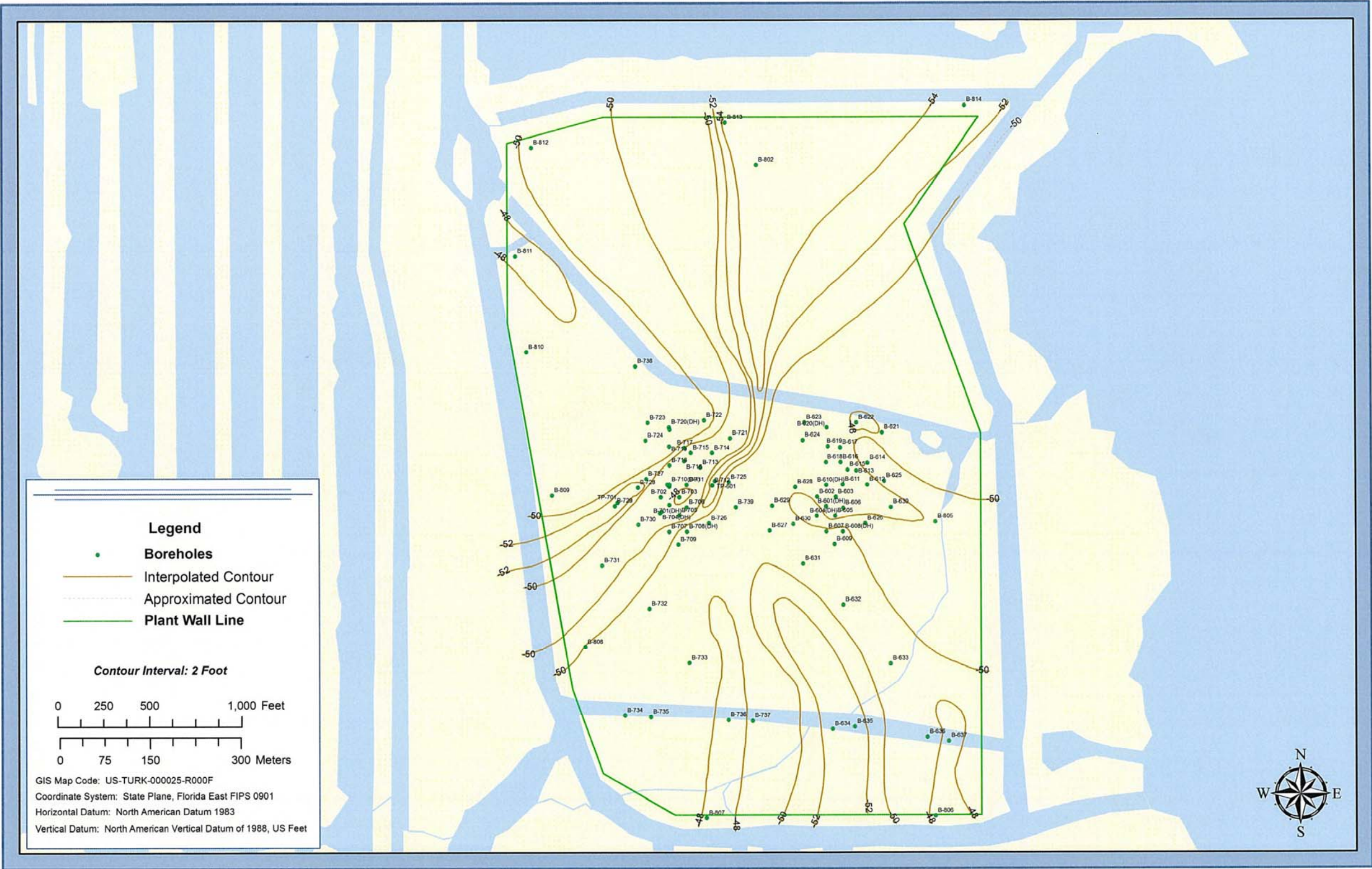


Figure 4
Structural Contour Map of Top of Fort Thompson Formation
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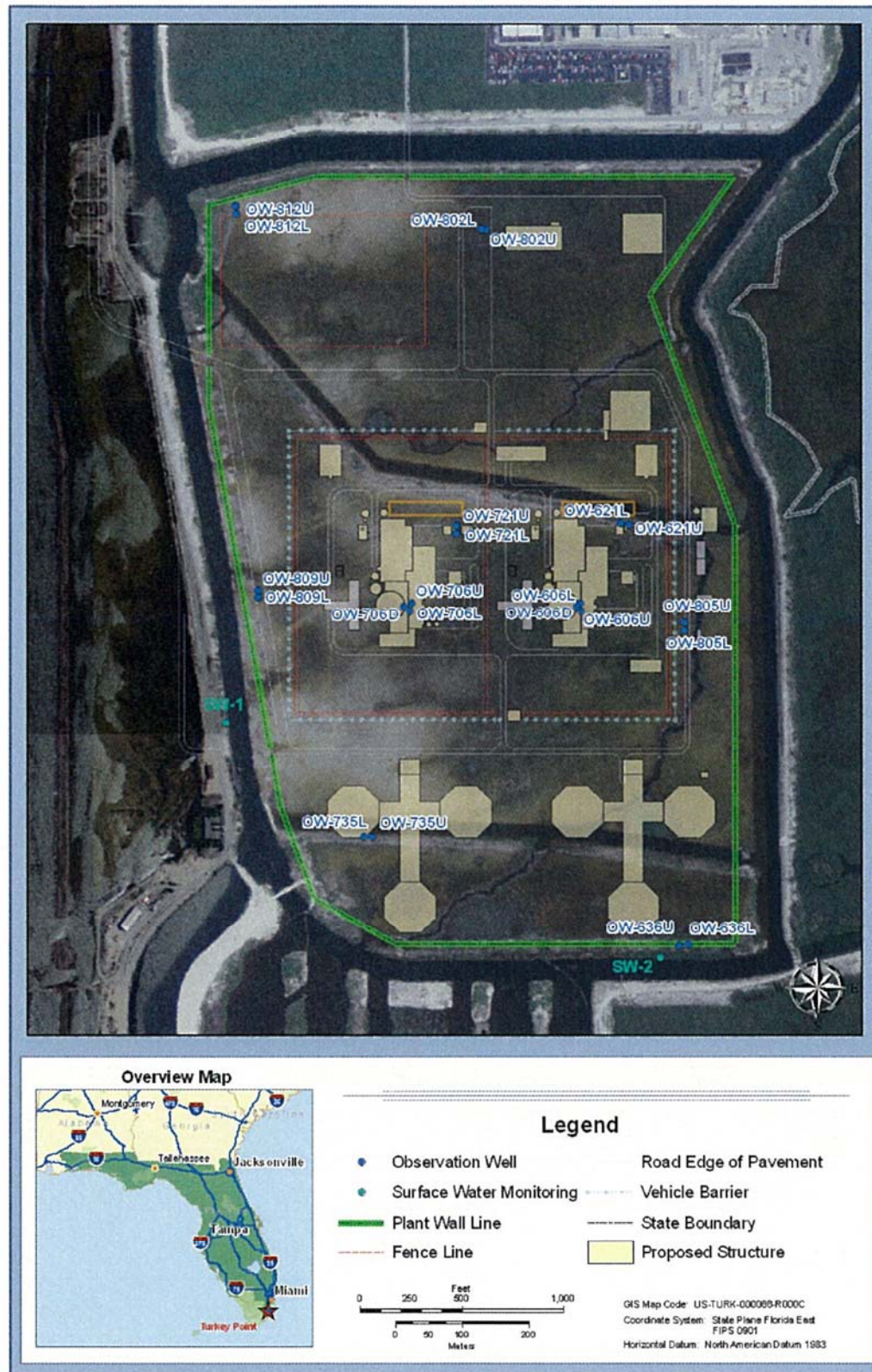


Figure 6
Well Locations at the Turkey Point Units 6 & 7 Site

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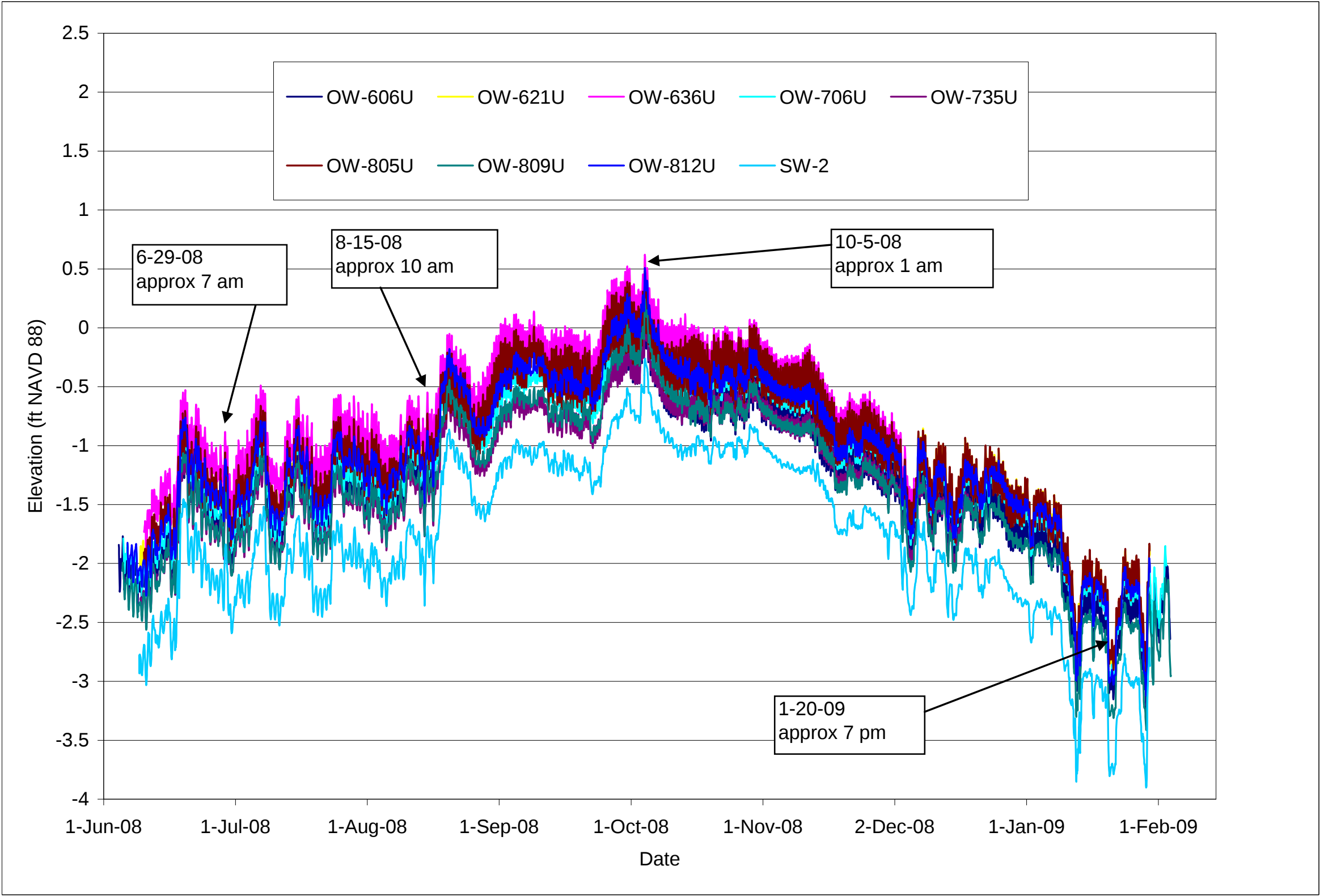


Figure 7.
Hydrographs for all Upper Zone Monitoring Locations and SW from June 2008 through January 2009
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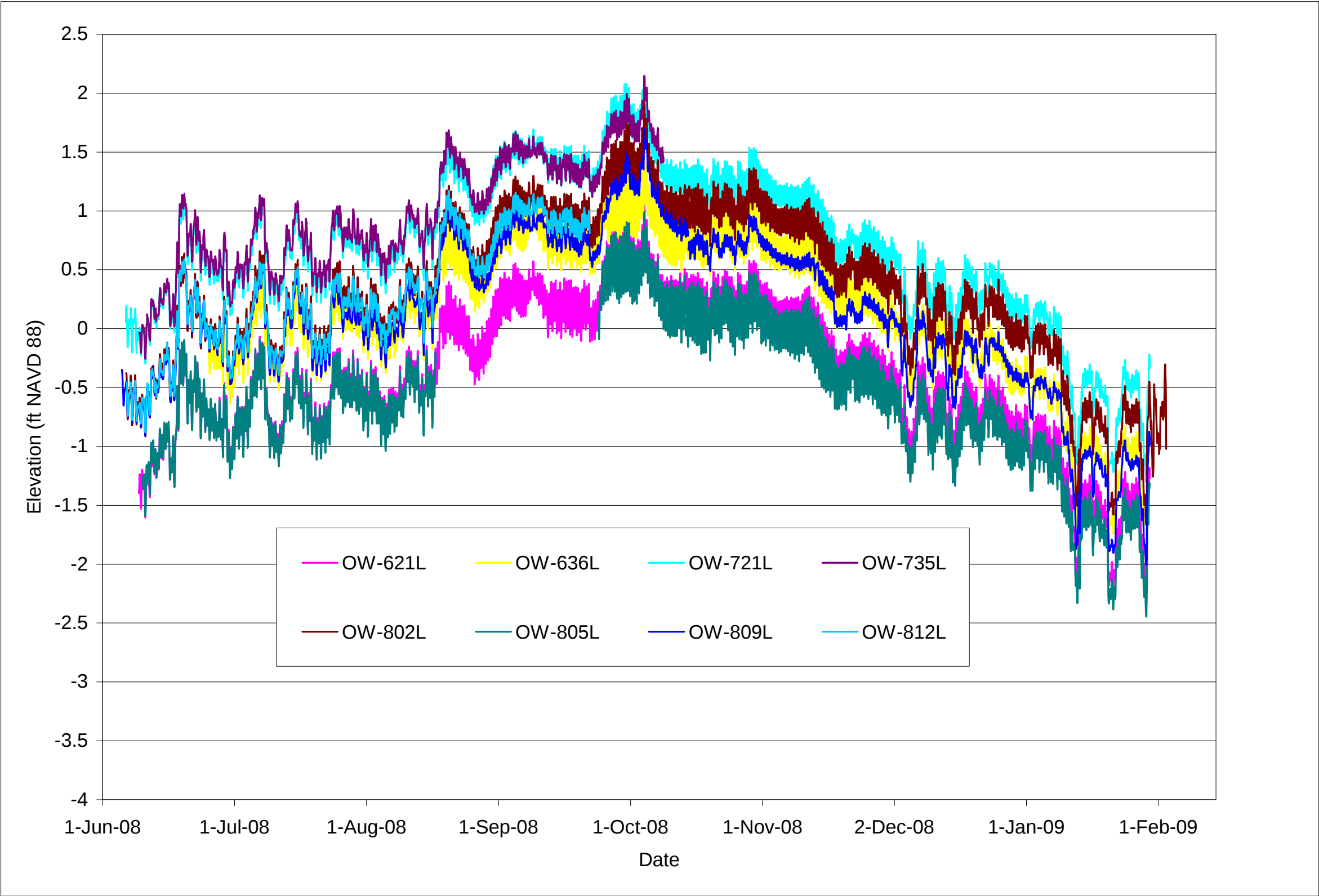


Figure 8
Hydrographs for all Lower Zone Monitoring Locations from June 2008 through January 2009