
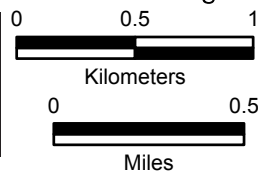
**LEGEND**

- ◆ ESP Observation Well
- ESP Surface Water/Sediment Sample
- Federal/State Owned Land
- Site Boundary

United States Nuclear Regulatory Commission Official Hearing Exhibit			
In the Matter of: PSEG POWER, LLC AND PSEG NUCLEAR, LLC (Early Site Permit Application)			
	ASLBP #:	15-943-01-ESP-BD01	Identified: 03/24/2016
	Docket #:	0520043	Withdrawn:
	Exhibit #:	PSEG004V-MA-BD01	Stricken:
	Admitted:	03/24/2016	
	Rejected:		
	Other:		

Reference: 2.3-80 and 2.3-97



PSEG Power, LLC

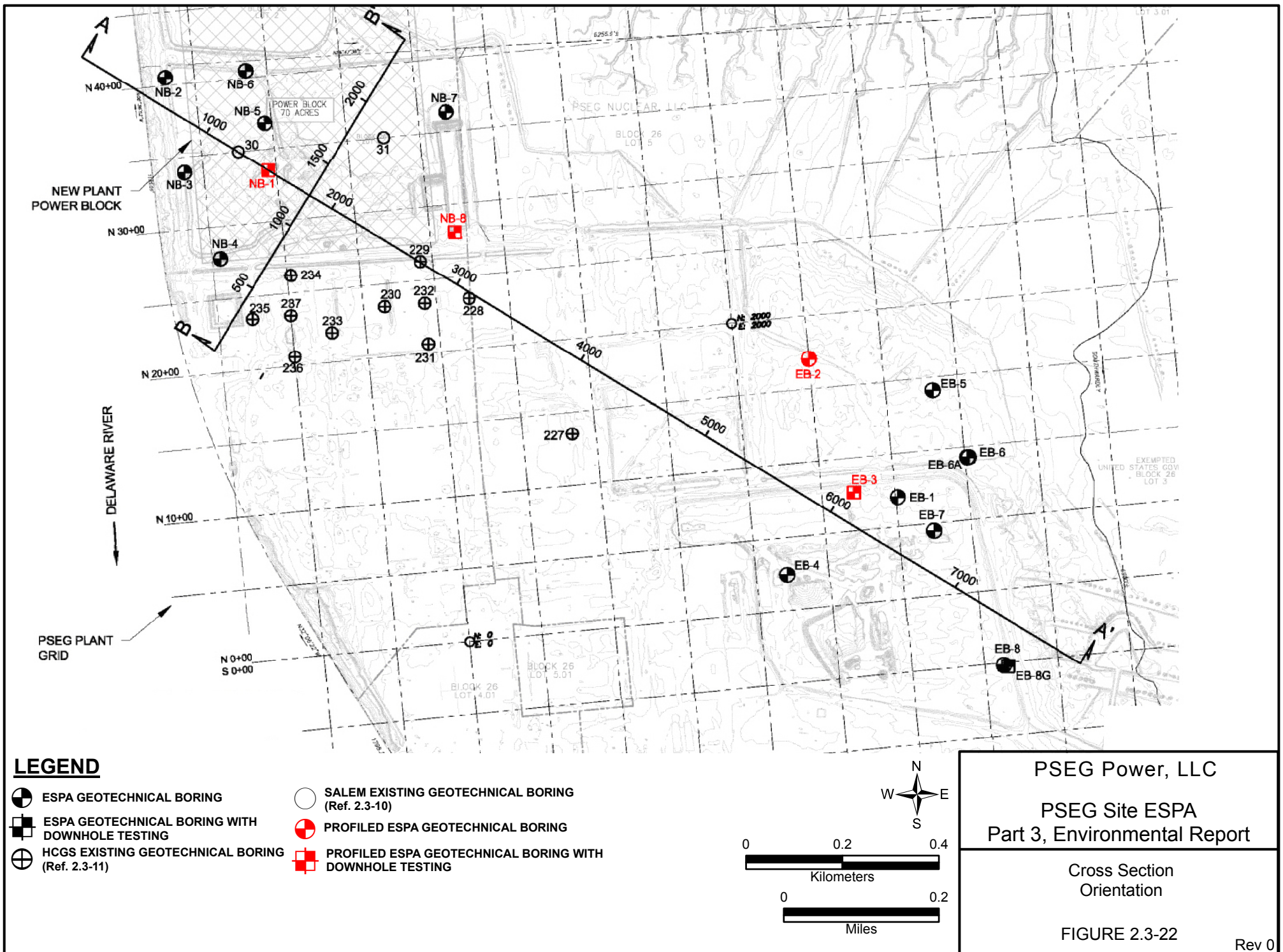
PSEG Site ESPA  
Part 3, Environmental Report

Surface and Groundwater  
Sampling Locations

FIGURE 2.3-21

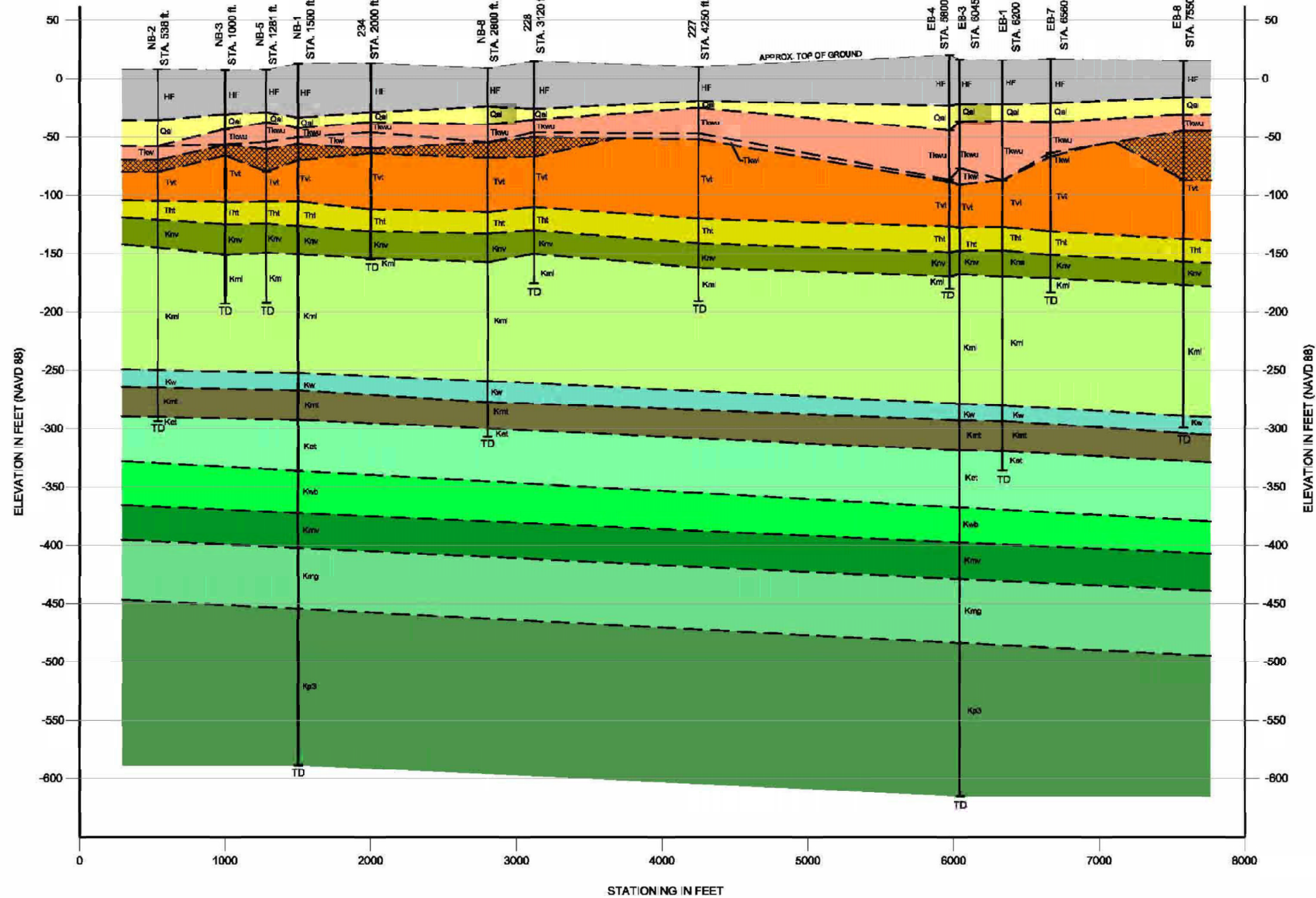
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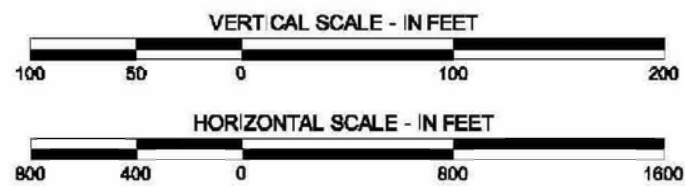




NW A INTERSECTION B B' A' SE



- LEGEND:**
- HF - Artificial and Hydraulic Fill
  - Qa - Alluvium
  - TkU - Kirkwood Formation (Upper)
  - TkL - Kirkwood Formation (Lower)
  - TvO - Vincentown Formation (Oxidized)
  - Tv - Vincentown Formation
  - Thl - Homerstown Formation
  - Krv - Navesink Formation
  - Kml - Mount Laurel Formation
  - Kw - Wenonah Formation
  - Kmt - Marshalltown Formation
  - Ket - Englishtown Formation
  - Kwb - Woodbury Formation
  - Kmv - Merchantville Formation
  - Kmg - Magothy Formation
  - Kp3 - Potomac Formation



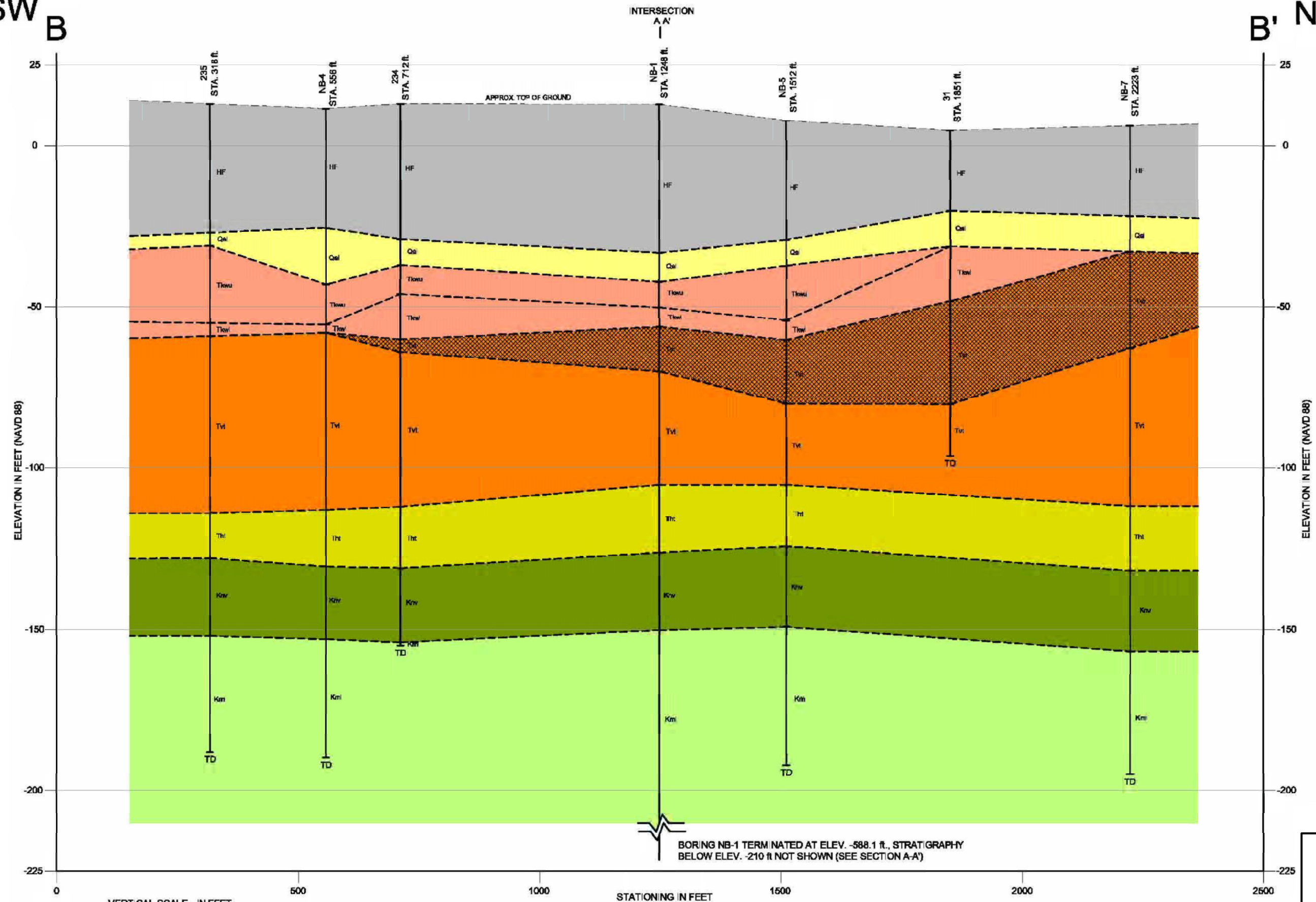
**NOTES:**

- BORINGS 227, 228, AND 234 (Reference 2.6.2)
- EB AND NB SERIES BORINGS COMPLETED FOR ESPA (Reference 2.6.8)
- TD = TERMINATION DEPTH
- SEE FIGURE 2.6-6 FOR SECTION LOCATION.
- BORINGS PROJECTED ORTHOGONALLY TO SECTION LINE.
- SOME BORINGS SHOWN ON FIG 2.6-6 NOT INCLUDED DUE TO SHALLOW DEPTH OR PROXIMITY TO OTHER BORINGS.



SW  
B

B' NE



## LEGEND:

HF	- Artificial and Hydraulic Fill
Qal	- Alluvium
Tlau	- Kirkwood Formation (Upper)
Tlow	- Kirkwood Formation (Lower)
Tvi	- Vincetown Formation (Oxidized)
Tvt	- Vincetown Formation
Thl	- Homerstown Formation
Krv	- Navesink Formation
Kml	- Mount Laurel Formation

## NOTES:

- BORING 31 (DAMES & MOORE, 2.6-3)
- BORINGS 234 AND 235 (2.6-2)
- EB AND NB SERIES BORINGS COMPLETED FOR ESPA (2.6-8)
- TD = TERMINATION DEPTH

## NOTES (continued):

- SEE FIGURE 2.6-6 FOR SECTION LOCATION
- BORINGS PROJECTED ORTHOGONALLY TO SECTION LINE.
- SOME BORINGS SHOWN ON FIG-2.6-6 NOT INCLUDED DUE TO SHALLOW DEPTH OR PROXIMITY TO OTHER BORINGS.

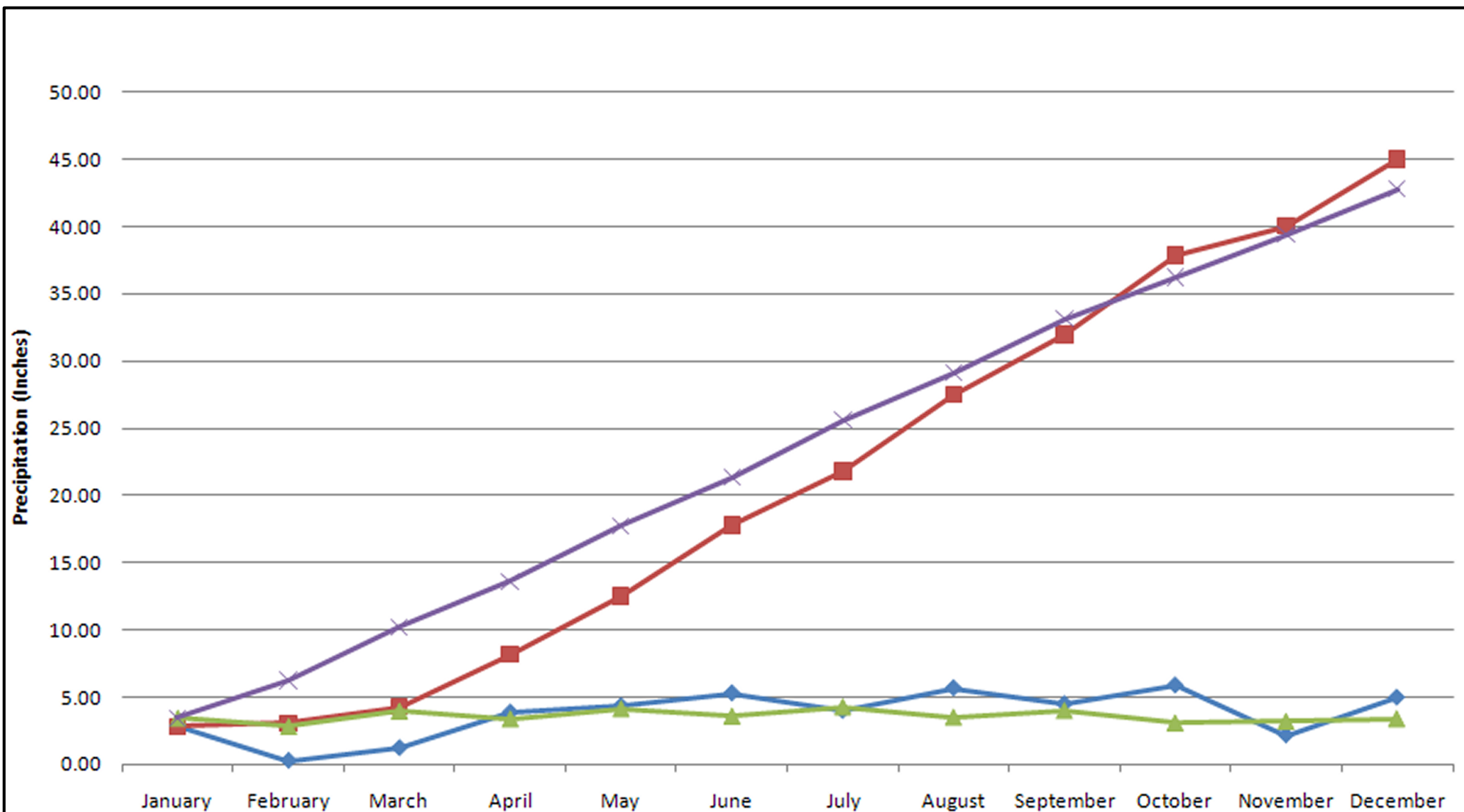
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PSEG Site ESPA  
Part 3, Environmental ReportCross Section B-B'  
Orientation

FIGURE 2.3-24

Rev 0





### LEGEND

- ◆ Monthly Total (2009)
- Cumulative Year to Date (2009)
- ▲ Historical Average Monthly Total (1971-2000)
- ✕ Historical Cumulative Average Year to Date (1971-2000)

Precipitation Data Collected from the Delaware Environmental Observing System (DEOS),  
 "Monthly Station Statistics", Wilmington, DE-NSWMC Station, 2009.

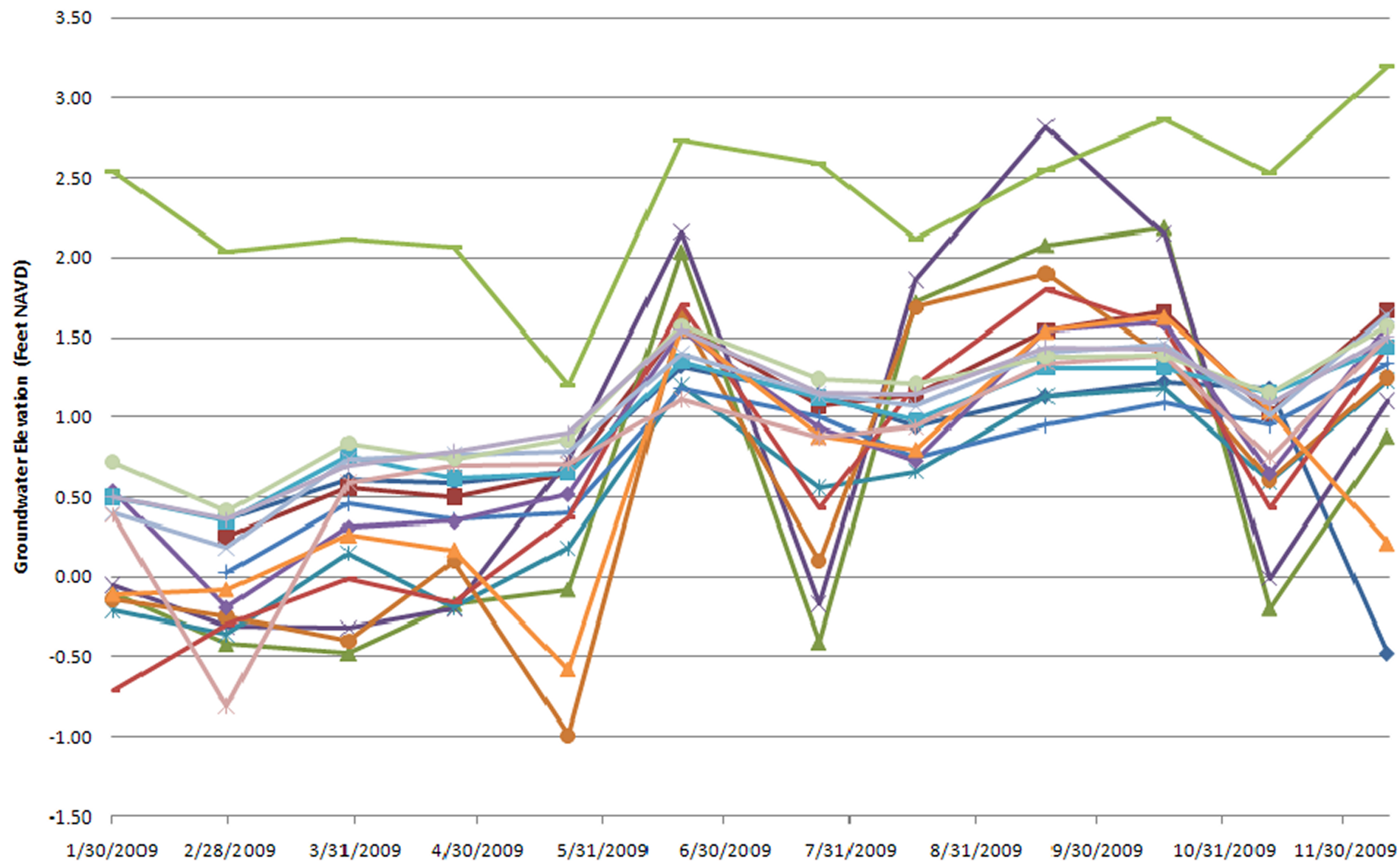
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 Part 3, Environmental Report

2009 Precipitation Data

FIGURE 2.3-25

Rev 0





# LEGEND

- NOW-1U
- NOW-1L
- NOW-2U
- NOW-2L
- NOW-3U
- NOW-3L
- NOW-4UB
- NOW-4L
- NOW-5U\*
- NOW-5L
- NOW-6U
- NOW-6L
- NOW-7U
- NOW-7L
- NOW-8U
- NOW-8L

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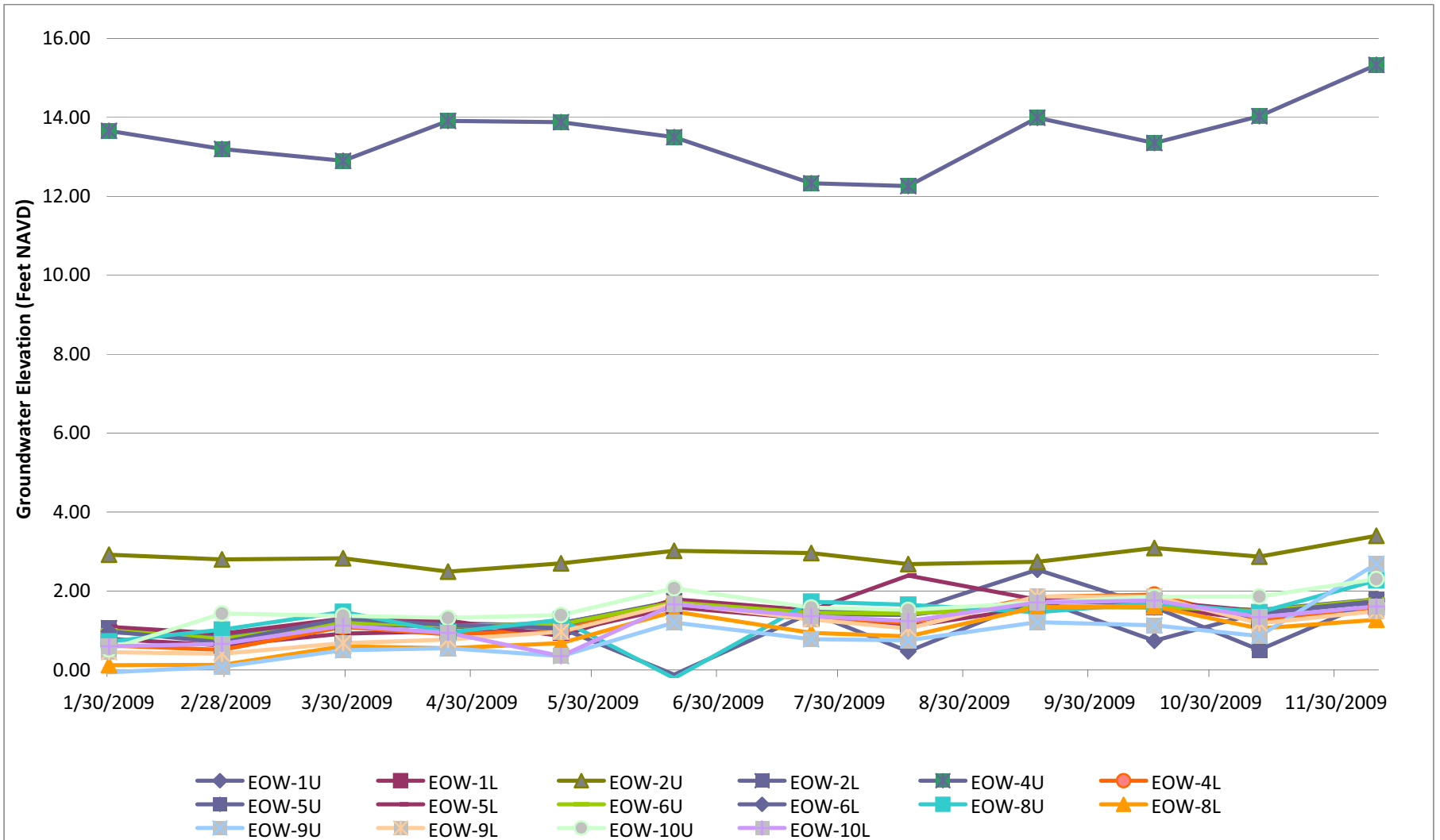
Groundwater Elevations:  
New Plant Location

FIGURE 2.3-26

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\*Note: Plots include all data, including identified outliers. (See Figures 2.3-28 and 2.3-38 for detailed presentation of water levels at New Plant Location.)





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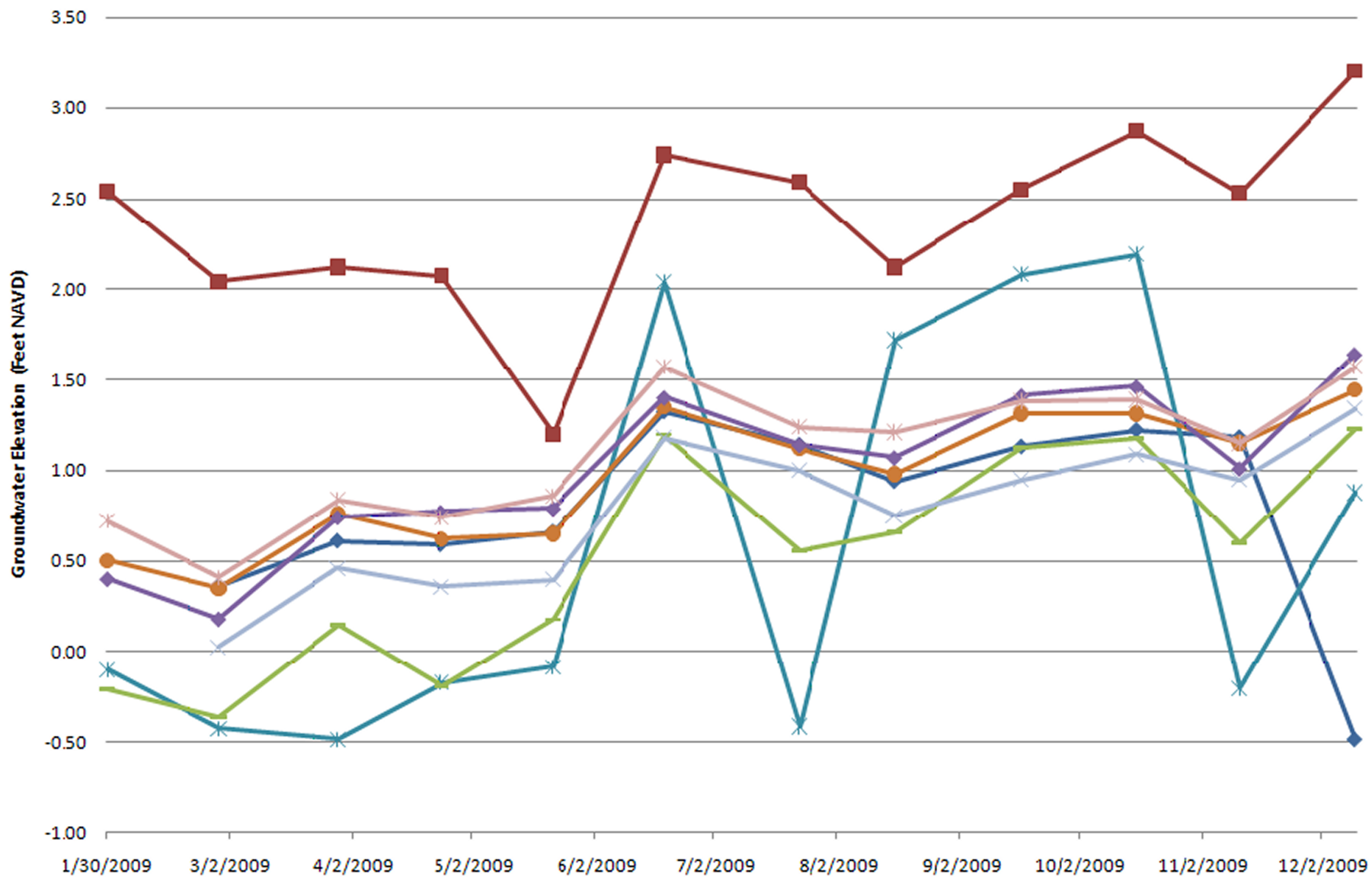
Groundwater Elevations:  
Eastern Location

FIGURE 2.3-27

Rev 0

(See Figures 2.3-33 and 2.3-43 for detailed presentation of water levels at Eastern Location.)





# **LEGEND**

◆ NOW-1U    ■ NOW-5U\*  
 \* NOW-2U    ◆ NOW-6U  
 ◆ NOW-3U    ◆ NOW-7U  
 \* NOW-4UB    \* NOW-8U

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Groundwater Elevations: Upper  
Wells in New Plant Location





FIGURE 2.3-28

Rev 0

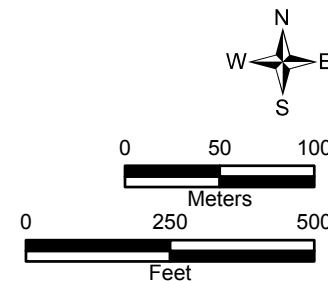
\*Note: Plots include all data, including identified outliers.



## LEGEND

-  Observation Well
-  Groundwater Contour
-  Estimated Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well NOW-5U is screened within the hydraulic fill and has not been included in estimating groundwater contours.



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Potentiometric Contour Map  
 New Plant Location - Alluvium  
 February, 2009




FIGURE 2.3-29

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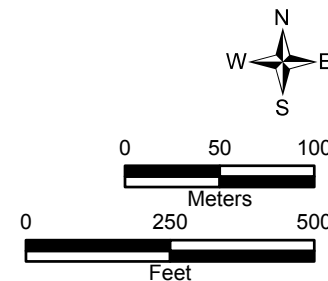




## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well NOW-5U is screened within the hydraulic fill and has not been included in estimating groundwater contours.



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Potentiometric Contour Map  
 New Plant Location - Alluvium  
 April, 2009




FIGURE 2.3-30

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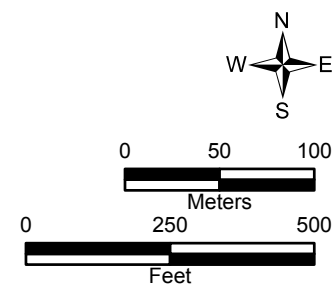




## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well NOW-5U is screened within the hydraulic fill and has not been included in estimating groundwater contours.



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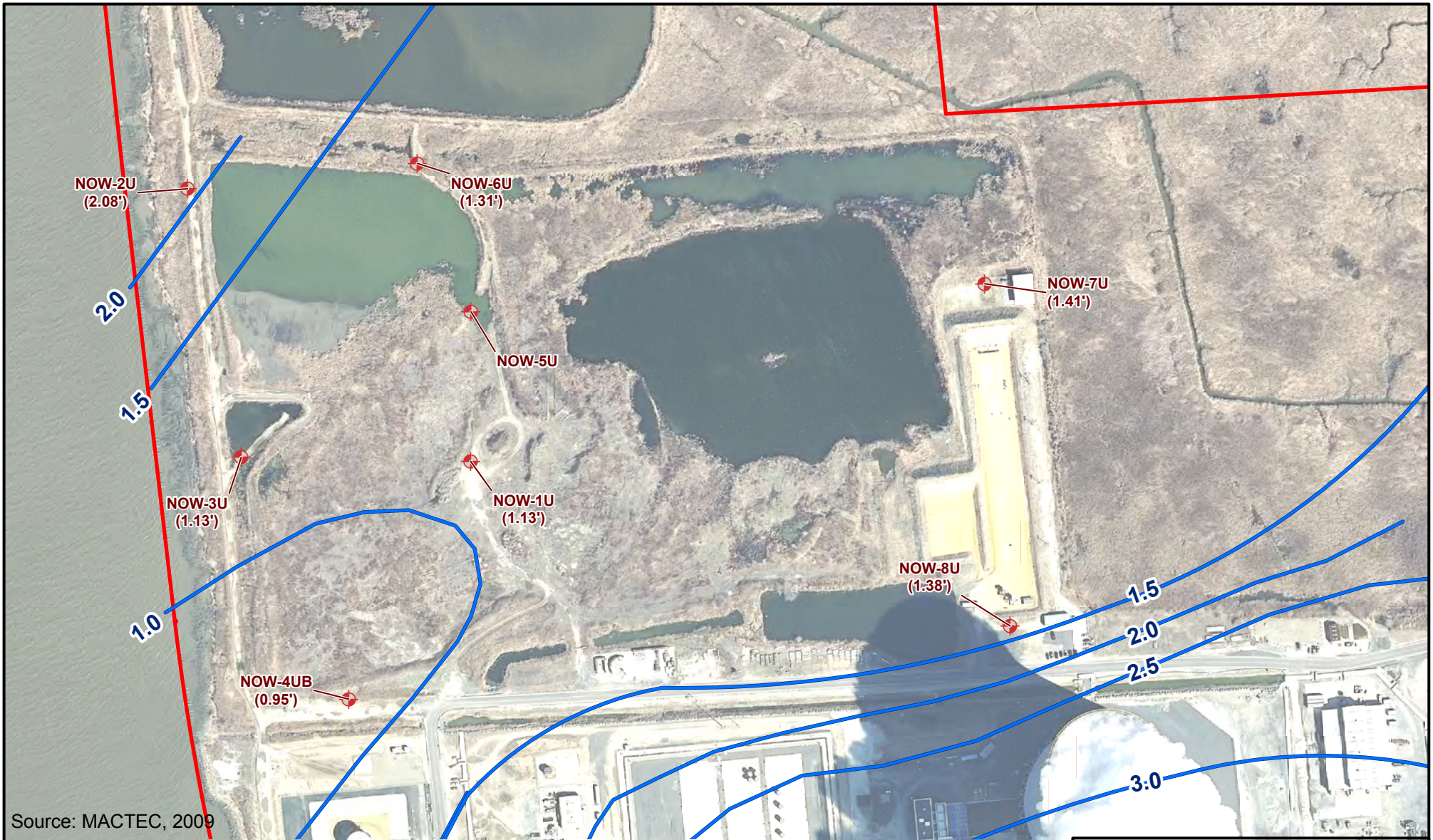
PSEG Site ESPA  
 Part 3, Environmental Report

Potentiometric Contour Map  
 New Plant Location - Alluvium  
 July 2009




FIGURE 2.3-31

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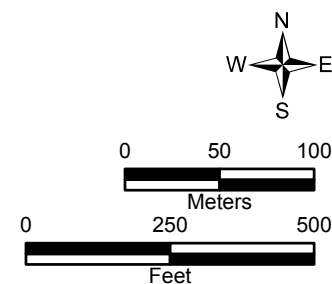




## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well NOW-5U is screened within the hydraulic fill and has not been included in estimating groundwater contours.  
 \*Supplement data from Salem and Hope Creek used to assess contours.



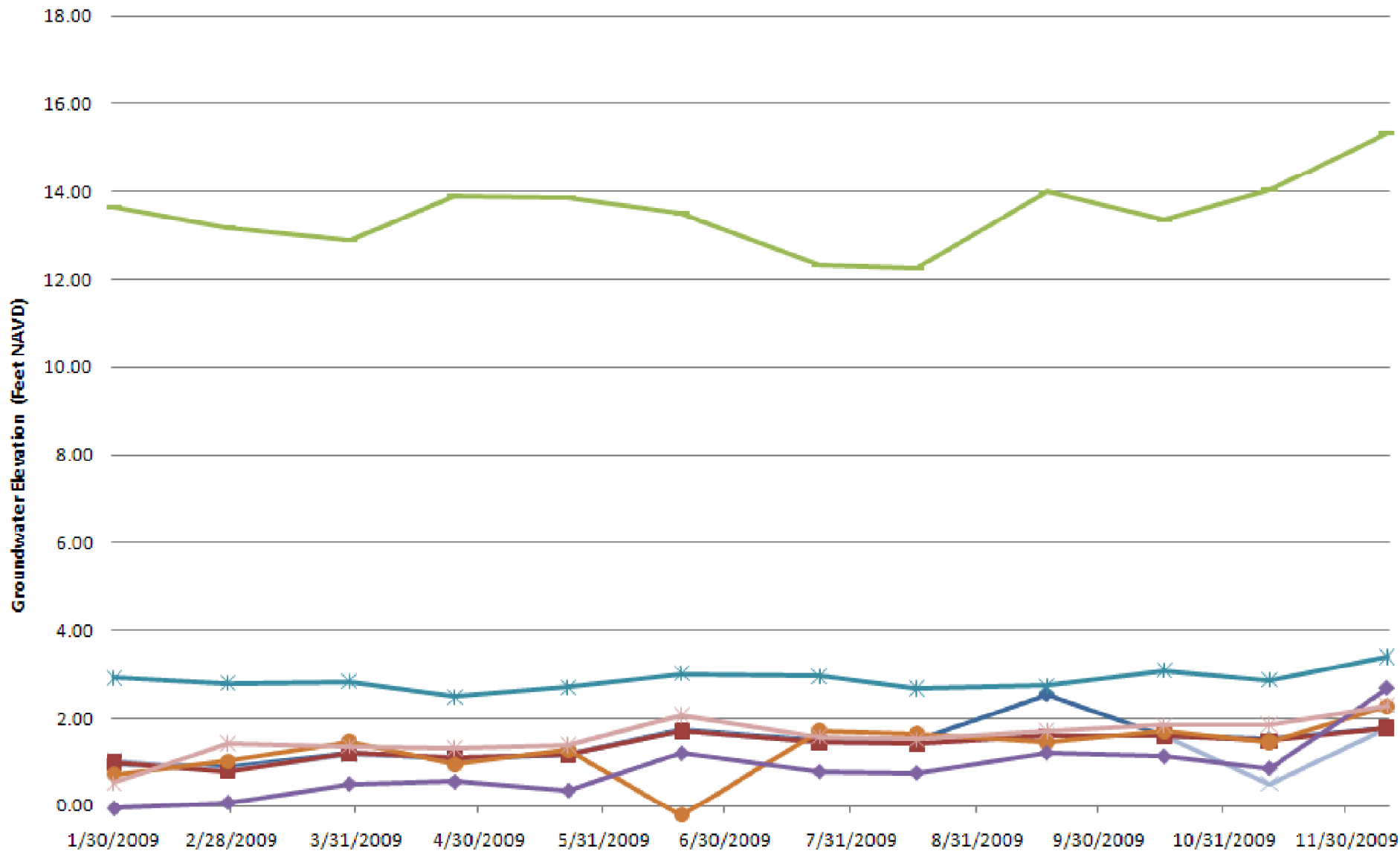
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Potentiometric Contour Map  
 New Plant Location - Alluvium  
 September 2009

FIGURE 2.3-32

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#### LEGEND

◆ EOW-1U	■ EOW-6U
* EOW-2U	● EOW-8U
— EOW-4U	◆ EOW-9U
* EOW-5U	* EOW-10U

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Groundwater Elevations: Upper  
Wells in Eastern Location

FIGURE 2.3-33

Rev 0

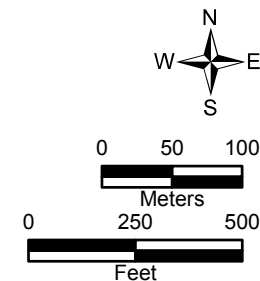




## LEGEND

- Observation Well
- Groundwater Contour
- Estimated Groundwater Contour
- Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well EOW-4U is screened within the hydraulic fill and has not been included in estimating groundwater contours.



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Potentiometric Contour Map  
 Eastern Location - Alluvium  
 February, 2009




FIGURE 2.3-34

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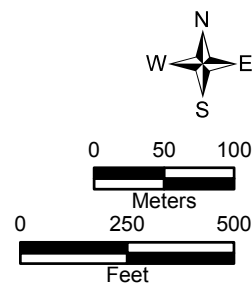




## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well EOW-4U is screened within the hydraulic fill and has not been included in estimating groundwater contours.



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Potentiometric Contour Map  
 Eastern Location - Alluvium  
 April, 2009




FIGURE 2.3-35

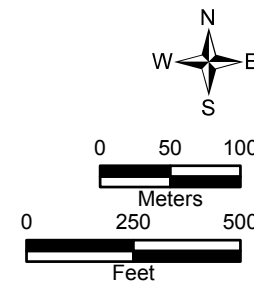
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## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary



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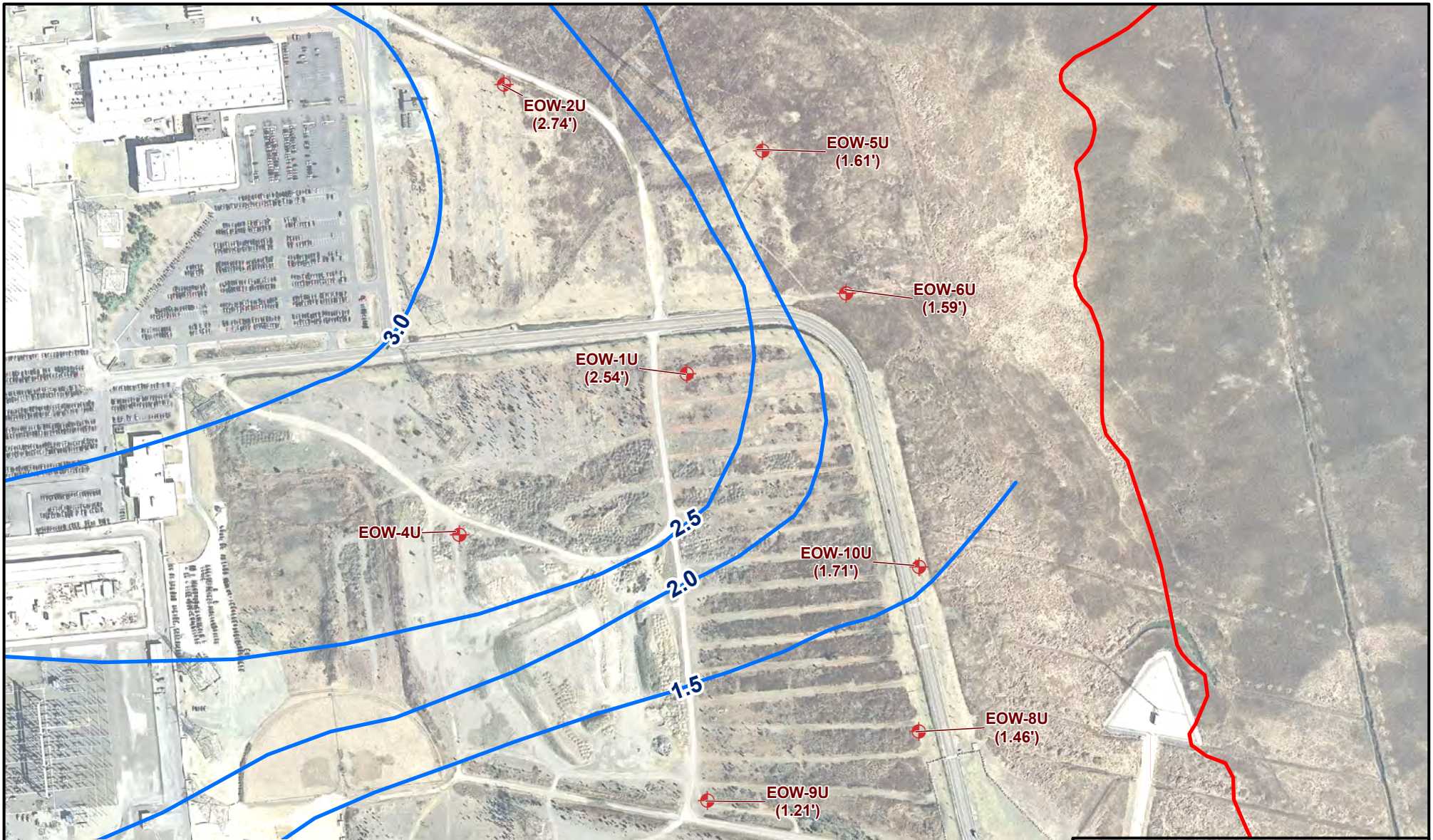
Potentiometric Contour Map  
Eastern Location - Alluvium  
July, 2009

FIGURE 2.3-36




Rev 0

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
\* well EOW-4U is screened within the hydraulic fill and has not been included in estimating groundwater contours.

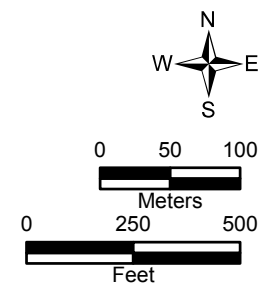




# **LEGEND**

-  Observation Well
-  Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.  
 \* well EOW-4U is screened within the hydraulic fill and has not been included in estimating groundwater contours.  
 \*Supplement data from Salem and Hope Creek used to assess contours.

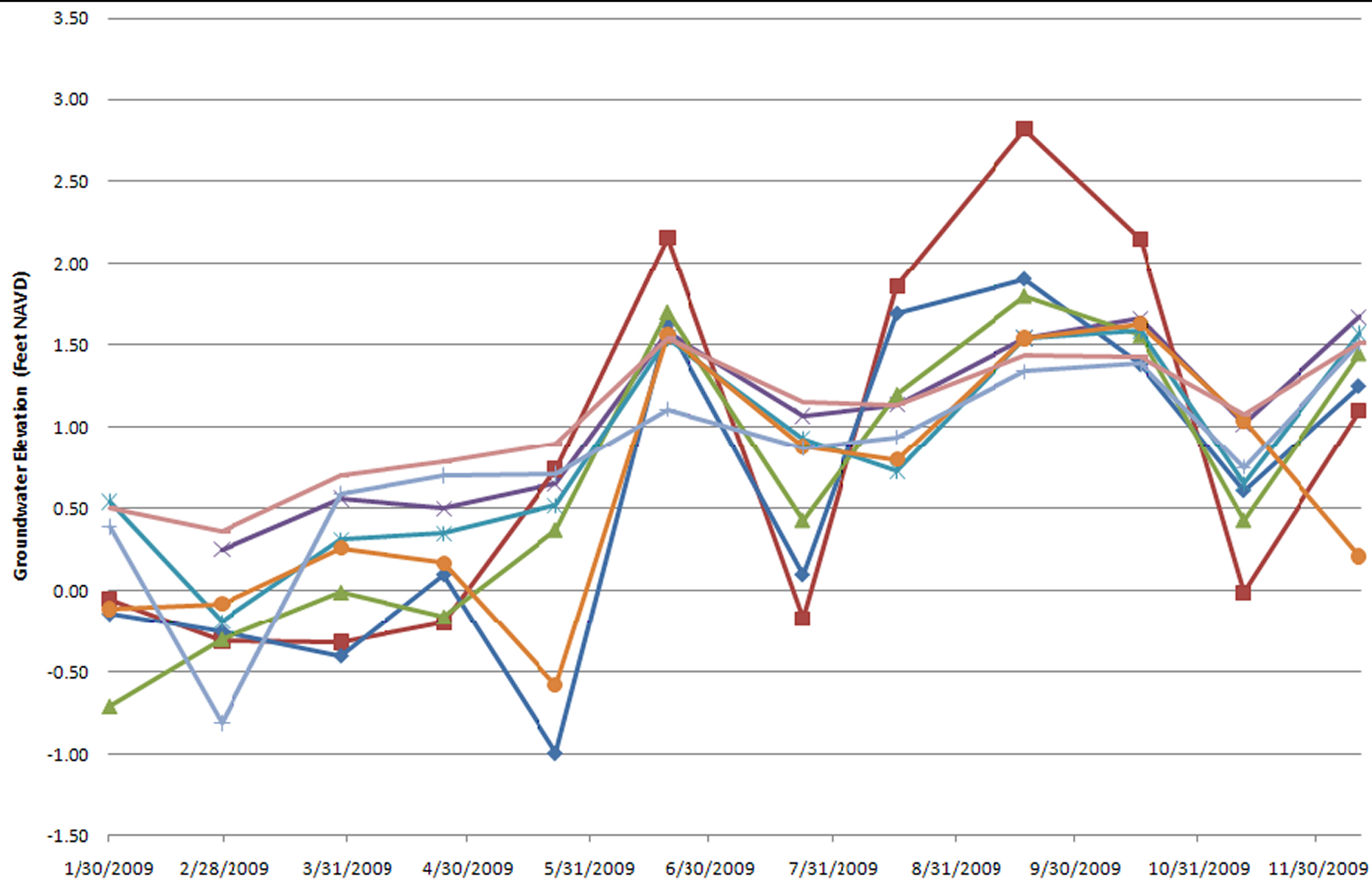


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Potentiometric Contour Map  
 Eastern Location - Alluvium  
 September, 2009

FIGURE 2.3-37





# **LEGEND**

NOW-1L  
 NOW-2L  
 NOW-3L  
 NOW-4L  
 NOW-5L  
 NOW-6L  
 NOW-7L  
 NOW-8L

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PSEG Site ESPA  
Part 3, Environmental Report




Groundwater Elevations: Lower  
Wells in New Plant Location

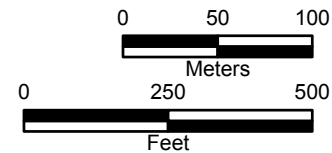
FIGURE 2.3-38

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## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary



Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.

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Potentiometric Contour Map  
New Plant Location -  
Vincetown Formation  
February, 2009  
FIGURE 2.3-39

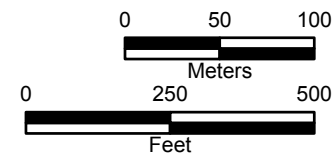
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## LEGEND

-  Observation Well
-  Groundwater Contour
-  Site Boundary



Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.

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Potentiometric Contour Map  
New Plant Location -  
Vincentown Formation  
April, 2009





FIGURE 2.3-40

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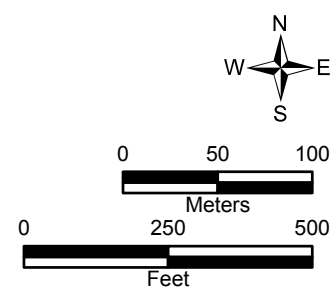




## LEGEND

-  Observation Well
-  Groundwater Contour
-  Estimated Groundwater Contour
-  Site Boundary

Note - presented in feet NAVD88 and water elevation data not adjusted for tidal effects.



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Potentiometric Contour Map  
New Plant Location -  
Vincentown Formation  
July, 2009

FIGURE 2.3-41

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