

# **TABLES**

**Table 1**  
**Sub-Slab Soil Gas Comparison Levels<sup>(1)</sup>**  
**DuPont Pompton Lakes Works**  
**Pompton Lakes, New Jersey**

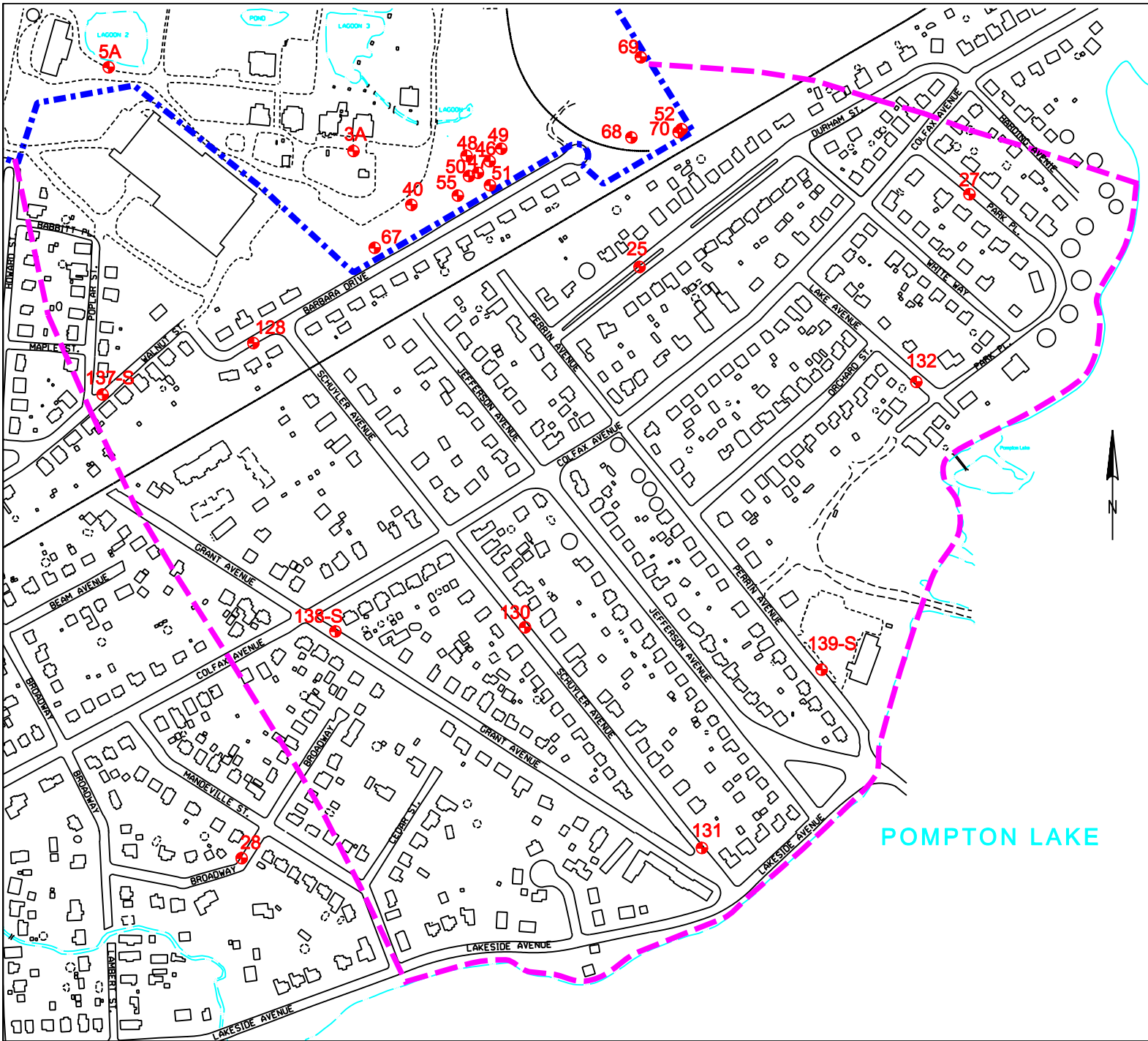
Constituents of Concern	Sub-Slab Soil Gas (ppbv)	Sub-Slab Soil Gas ( $\mu\text{g}/\text{m}^3$ )
PCE <sup>(2)</sup>	2	16
TCE <sup>(2)</sup>	2	11
cis-1,2-DCE <sup>(3)</sup>	88	350
trans-1,2-DCE <sup>(3)</sup>	180	700
1,1-DCE <sup>(3)</sup>	500	2,000
1,1,1-TCA <sup>(3)</sup>	4,000	22,000
1,1-DCA <sup>(3)</sup>	1,200	5,000
1,2-DCA <sup>(2)</sup>	2	8
VC <sup>(2)</sup>	2	5
Carbon Tet <sup>(2)</sup>	2	13

(1) It is important to note that guidance on the evaluation of the vapor intrusion pathway continues to be developed. As discussed in the NJDEP's 2005 VIG, the USEPA draft Subsurface Vapor Intrusion Guidance uses a shallow soil gas-to-indoor air attenuation factor of 0.1 based on the information available in the USEPA Vapor Intrusion Database when the 2002 USEPA guidance was drafted. USEPA's current reevaluation of the database, which includes additional empirical data, suggests that a reduced attenuation factor may be more appropriate in the development of shallow/sub-slab soil screening levels (NJDEP 2005; USEPA 2005, 2006, 2007, 2008). Based on more recent information, the NJDEP selected an attenuation factor of 0.02 in the development of its health-based soil gas screening levels. Since the USEPA 2002 draft guidance has not yet been updated, DuPont proposes to use the USEPA screening levels for five constituents as indicated in the table, because they are more conservative (lower) than the current NJDEP screening levels, recognizing that the NJDEP screening levels are based on more recent information and that the state of the science continues to advance.

(2) NJDEP anticipated residential screening levels for soil gas (NJDEP, 2007).

(3) USEPA draft generic screening level for shallow soil gas (USEPA, 2002)

## **FIGURES**



**LEGEND**

SCALE: 1-inch = 425-feet

- OPEN WATERS
- PLANT BOUNDARY
- RIVER AND CREEK
- ROADS
- RAIL ROAD LINES
- CEA BOUNDARY
- Shallow Well

MAPPER: M.E. Vetter  
 DATE: June 9, 2008  
 DRAWING: Fig1-VI\_wells.dgn

**OFF-SITE SHALLOW WELL LOCATIONS and CEA BOUNDARY**

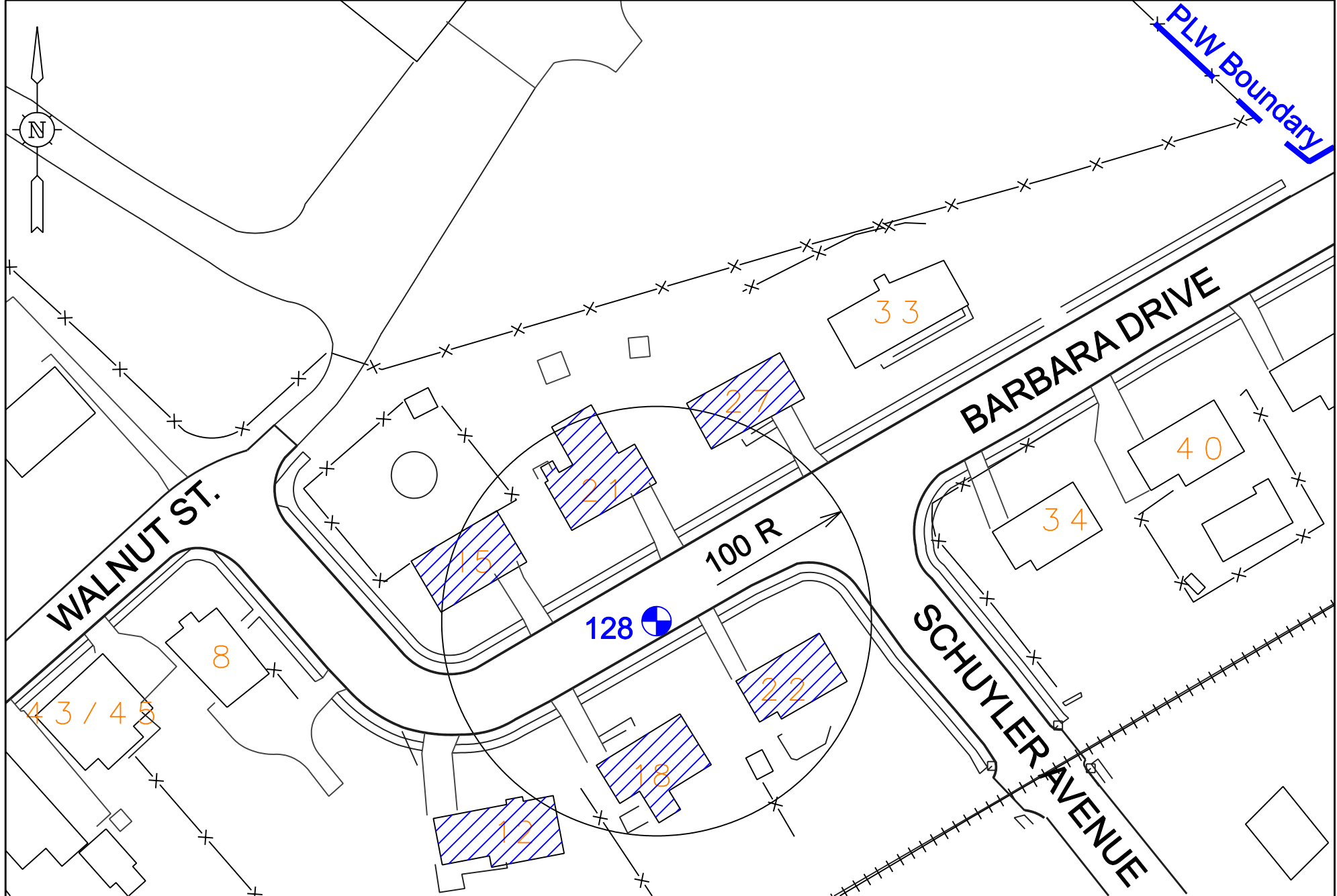
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 POMPTON LAKES, NEW JERSEY**



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**FIGURE 1**



**LEGEND:**

0' 60'  
 SCALE: 1-inch = 60-feet

MAPPER: M.E. Vetter  
 DATE: June 9, 2008  
 DRAWING: Fig2\_MW128-subslab.dgn

- Shallow Well
- Fence
- Road
- Paved Surface
- Railroad

Sub-Slab Sampling Locations



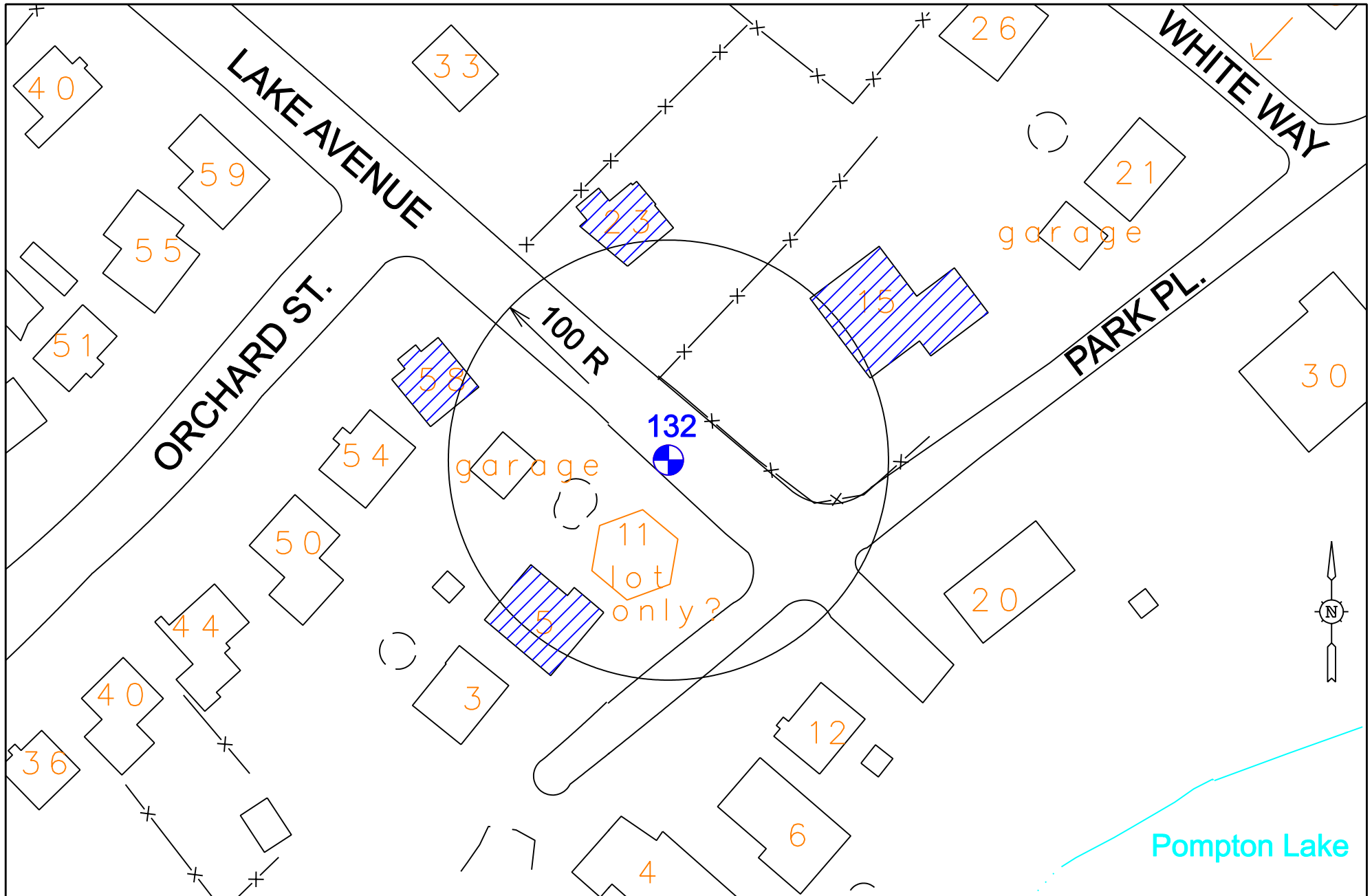
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**WELL 128 VICINITY MAP AND  
 SUB-SLAB SAMPLING LOCATIONS**  
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**FIGURE 2**



**LEGEND:**

0' 60'  
SCALE: 1-inch = 60-feet

MAPPER: M.E. Vetter  
DATE: May 22, 2008  
DRAWING: Fig3\_MW132-subslab.dgn

- Shallow Well
- Fence
- Road
- Sub-Slab Sampling Locations

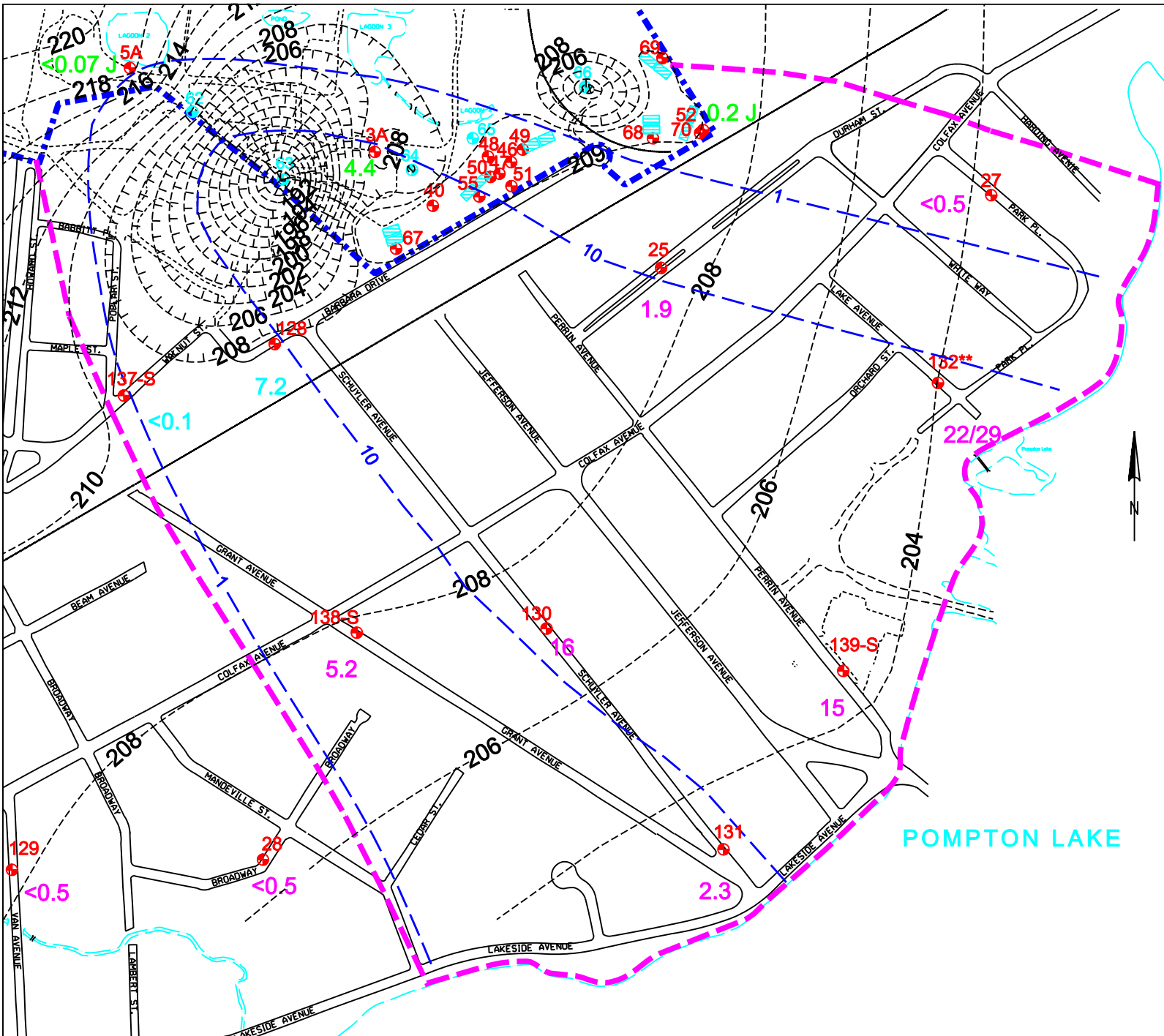


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**WELL 132 VICINITY MAP AND  
SUB-SLAB SAMPLING LOCATIONS**  
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**FIGURE 3**



**LEGEND**

SCALE: 1-inch = 425-feet

- OPEN WATERS
- PLANT BOUNDARY
- RIVER AND CREEK
- ROADS
- RAIL ROAD LINES
- CEA BOUNDARY

- PCE Isoconcentration Contour Line
- Groundwater Elevation Contour Line Feb 19, 2008
- Groundwater Infiltration Bed
- Recovery Well
- Shallow Well
- 1.9 PCE (ug/L) Mar 6, 2008
- 1.9 PCE (ug/L) May 7, 2008
- 1.9 PCE (ug/L) Nov 28-29, 2007

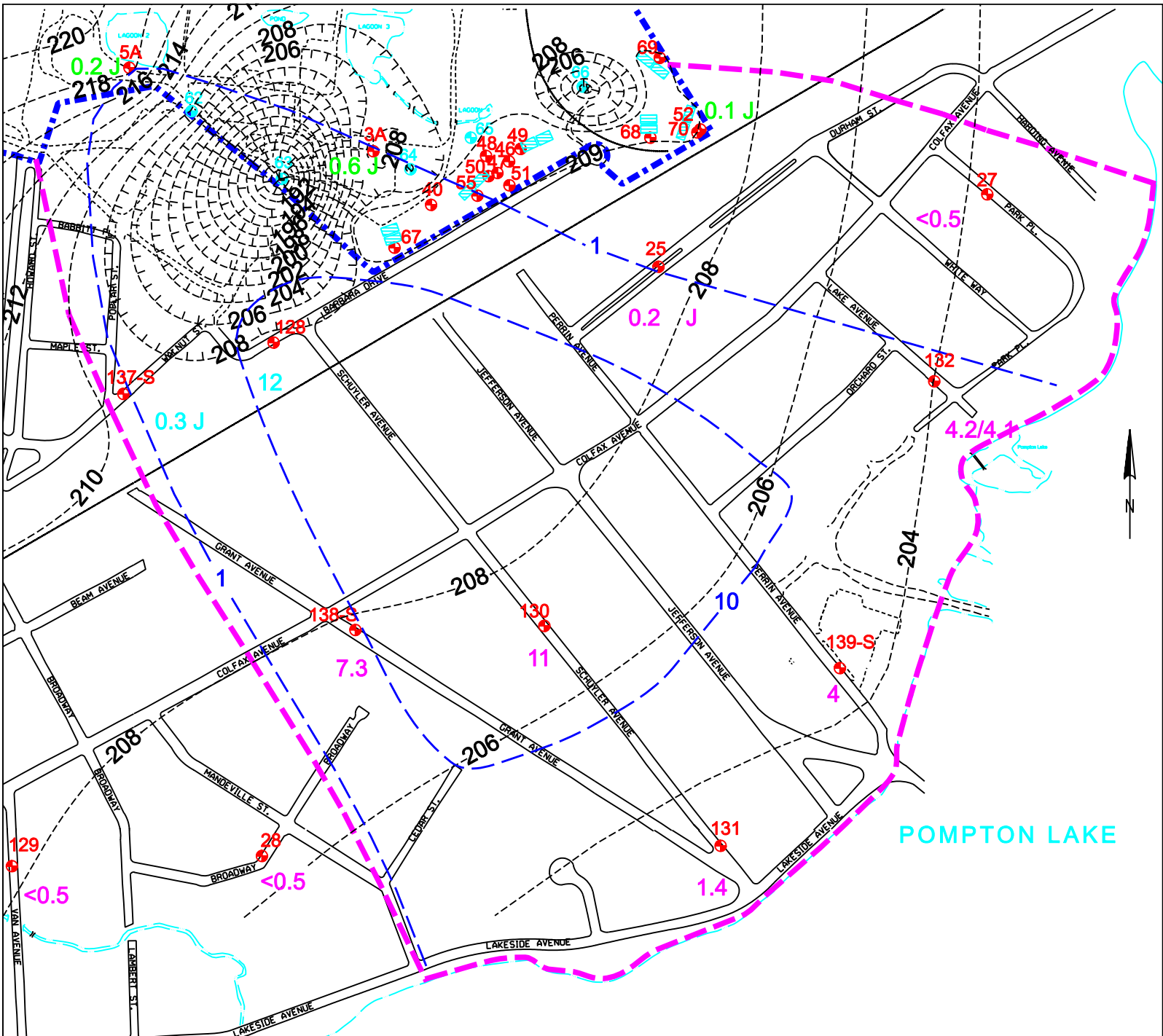
PCE Shallow Groundwater Results and Isoconcentration Contours (March/May 2008)  
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MAPPER: M.E. Vetter  
 DATE: June 9, 2008  
 DRAWING: Fig4-PCE\_Mar-May08.dgn

**FIGURE 4**



**LEGEND**

SCALE: 1-inch = 425-feet

- OPEN WATERS
- PLANT BOUNDARY
- RIVER AND CREEK
- ROADS
- RAIL ROAD LINES
- CEA BOUNDARY

- TCE Isoconcentration Contour Line
- Groundwater Elevation Contour Line Feb 19, 2008
- Groundwater Infiltration Bed
- Recovery Well
- Shallow Well
- 7.3 TCE (ug/L) Mar 6, 2008
- 7.3 TCE (ug/L) May 7, 2008
- 7.3 TCE (ug/L) Nov 28-29, 2007

TCE Shallow Groundwater Results and Isoconcentration Contours (March/May 2008)

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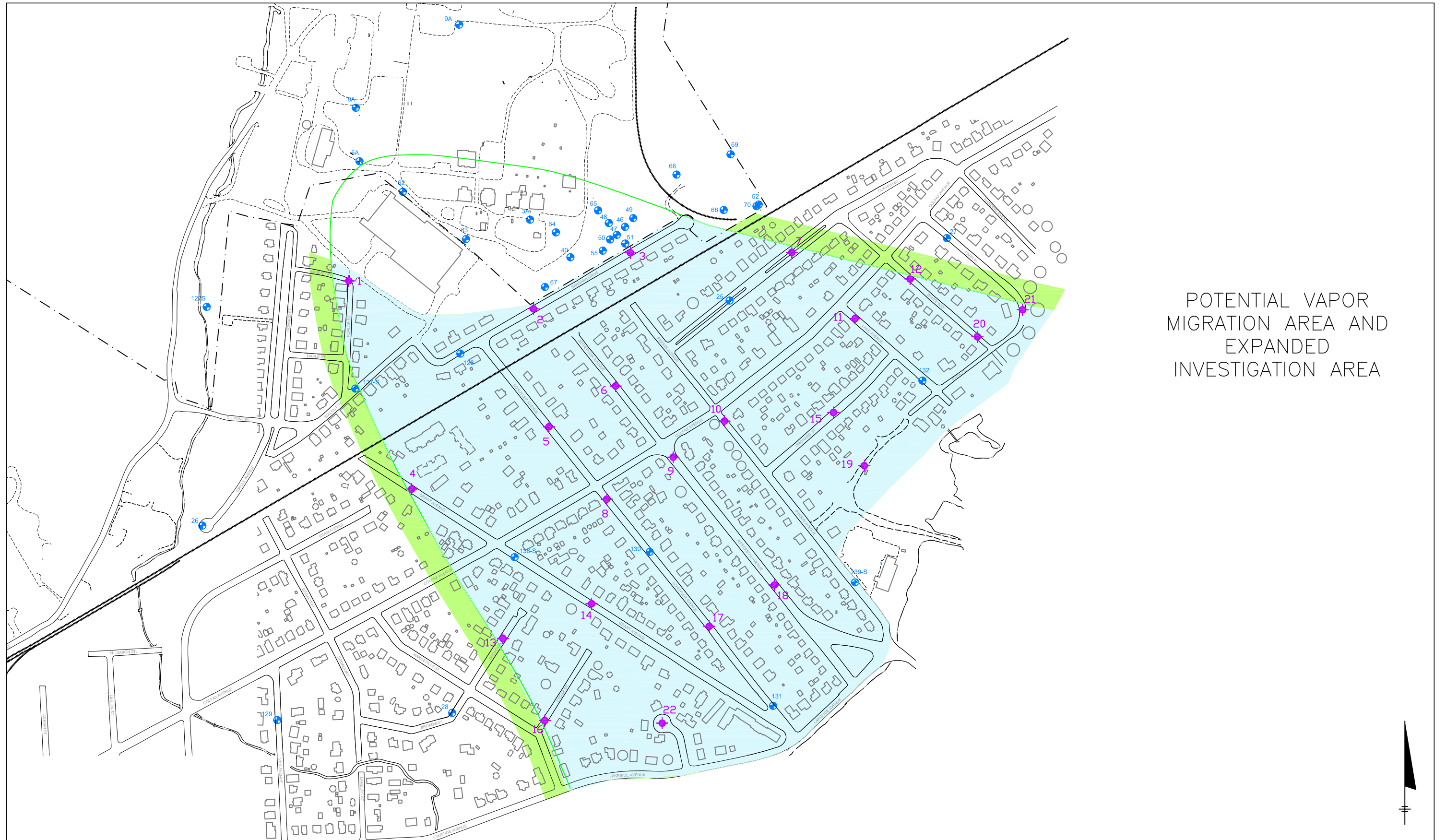


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MAPPER: M.E. Vetter  
DATE: June 9, 2008  
DRAWING: Fig5-TCE\_Mar-May08.dgn

FIGURE 5



POTENTIAL VAPOR  
MIGRATION AREA AND  
EXPANDED  
INVESTIGATION AREA

- LEGEND
- PROPERTY BOUNDARY
  - 1 ug/L GROUNDWATER CONTOUR BOUNDARY (COMBINED PCE/TCE)
  - POTENTIAL VAPOR MIGRATION AREA
  - EXPANDED INVESTIGATION AREA
  - TEMPORARY WELL LOCATION
  - MONITORING WELL



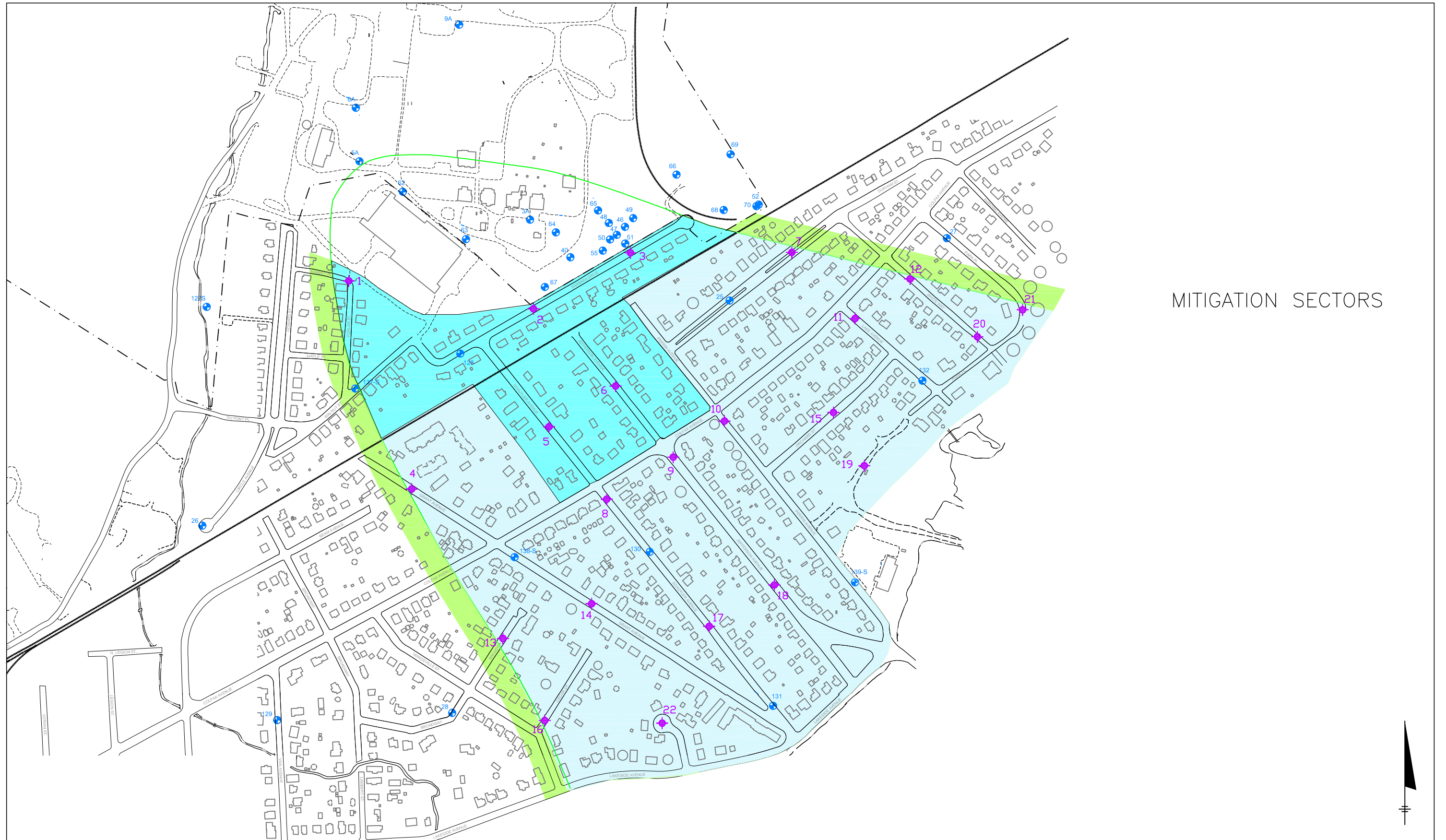
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**Figure 6**

SCALE 1-in=200-ft	DESIGNED BY -	DRAWN BY -	CAD DRAWING NO Fig6_rev3_w_aerial.dwg
DATE 5/20/08	CHECKED -	APPROVED -	PROJECT NO 7028

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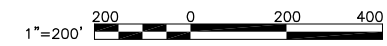
# MITIGATION SECTORS

--- PROPERTY BOUNDARY  
 --- 1 ug/L GROUNDWATER CONTOUR BOUNDARY (COMBINED PCE/TCE)

### LEGEND

■ MITIGATION SECTOR "A"  
 ■ FUTURE SECTORS  
 ■ EXPANDED INVESTIGATION AREA

◆ TEMPORARY WELL LOCATION  
 WELL ID  
 ● MONITORING WELL  
 WELL ID



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## Figure 8

SCALE 1-in=200-ft	DESIGNED BY -	DRAWN BY -	CAD DRAWING NO Fig8_rev3_w_aerial.dwg
DATE 5/20/08	CHECKED -	APPROVED -	PROJECT NO 7028

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