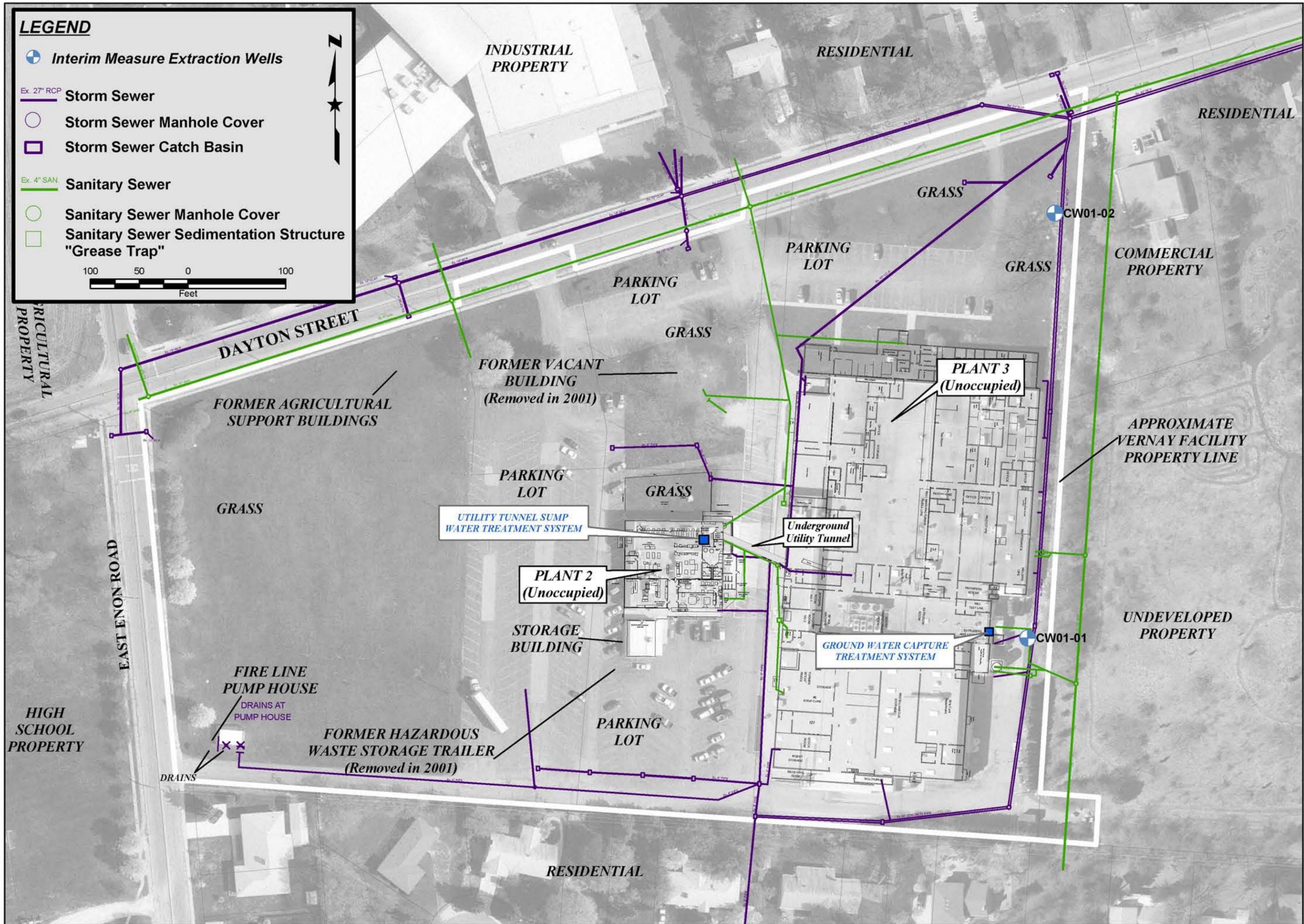
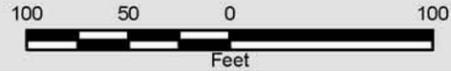


DRAWN BY ALH	APPROVED BY KDK	PROJECT NO. 292.11.44	DATE 4/4/06	FIGURE 1
CLIENT VERNAV LABORATORIES, INC.			TITLE FACILITY LOCATION	
 The Payne Firm, Inc. Environmental Consultants Cincinnati / Cleveland / Chicago				

REFERENCE *Greene County Auditors, Digital Data: City, Township, and County Boundaries*

LEGEND

-  **Interim Measure Extraction Wells**
-  **Ex. 27" RCP Storm Sewer**
-  **Storm Sewer Manhole Cover**
-  **Storm Sewer Catch Basin**
-  **Ex. 4" SAN Sanitary Sewer**
-  **Sanitary Sewer Manhole Cover**
-  **Sanitary Sewer Sedimentation Structure "Grease Trap"**

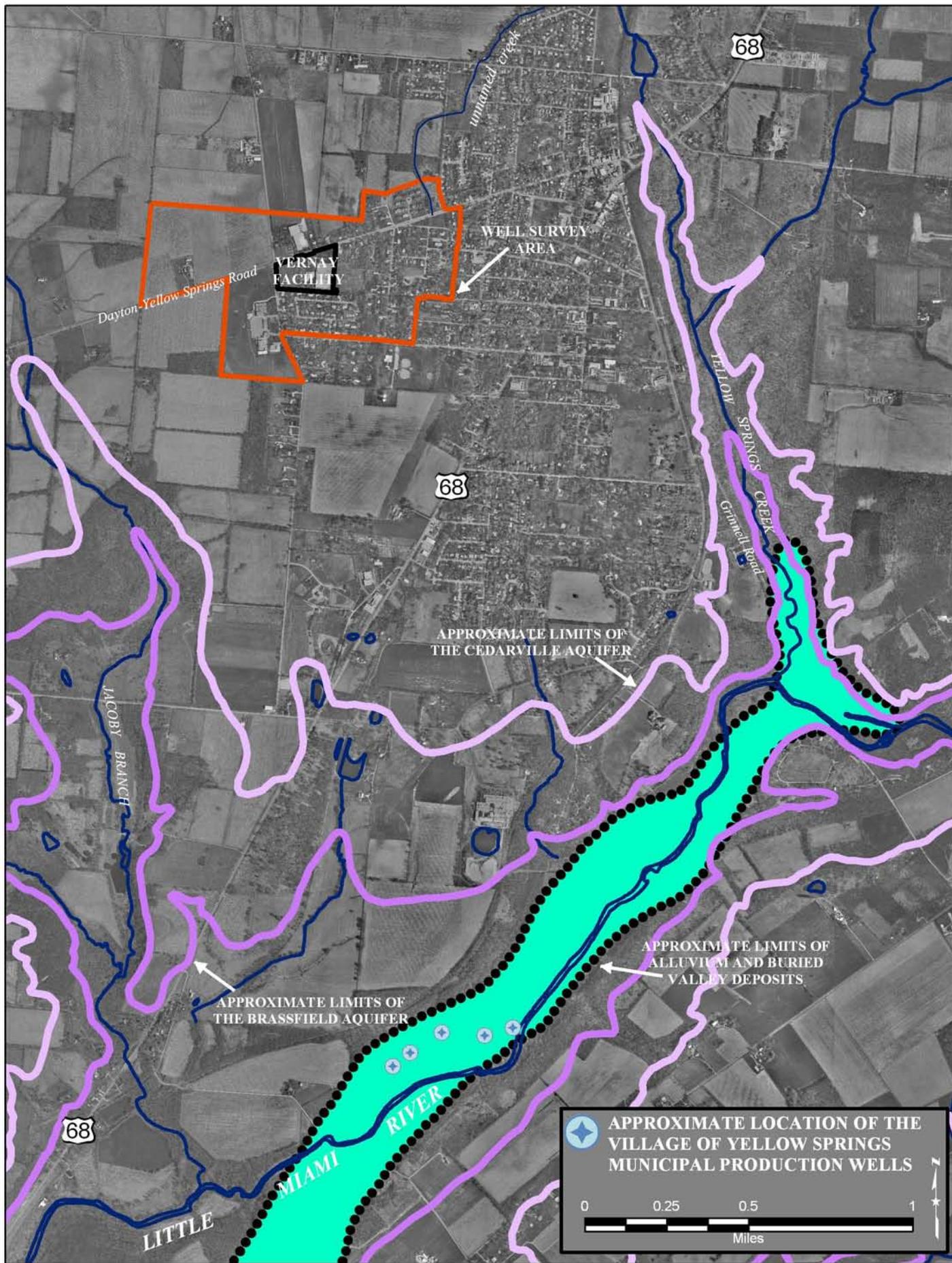


CLIENT	VERNAV LABORATORIES, INC.		
TITLE	FACILITY FEATURES		
DATE	4/4/06	APPROVED BY	KDK
FIGURE NO.	2	DRAWN BY	ALH
PROJECT NO.	292.11.44		

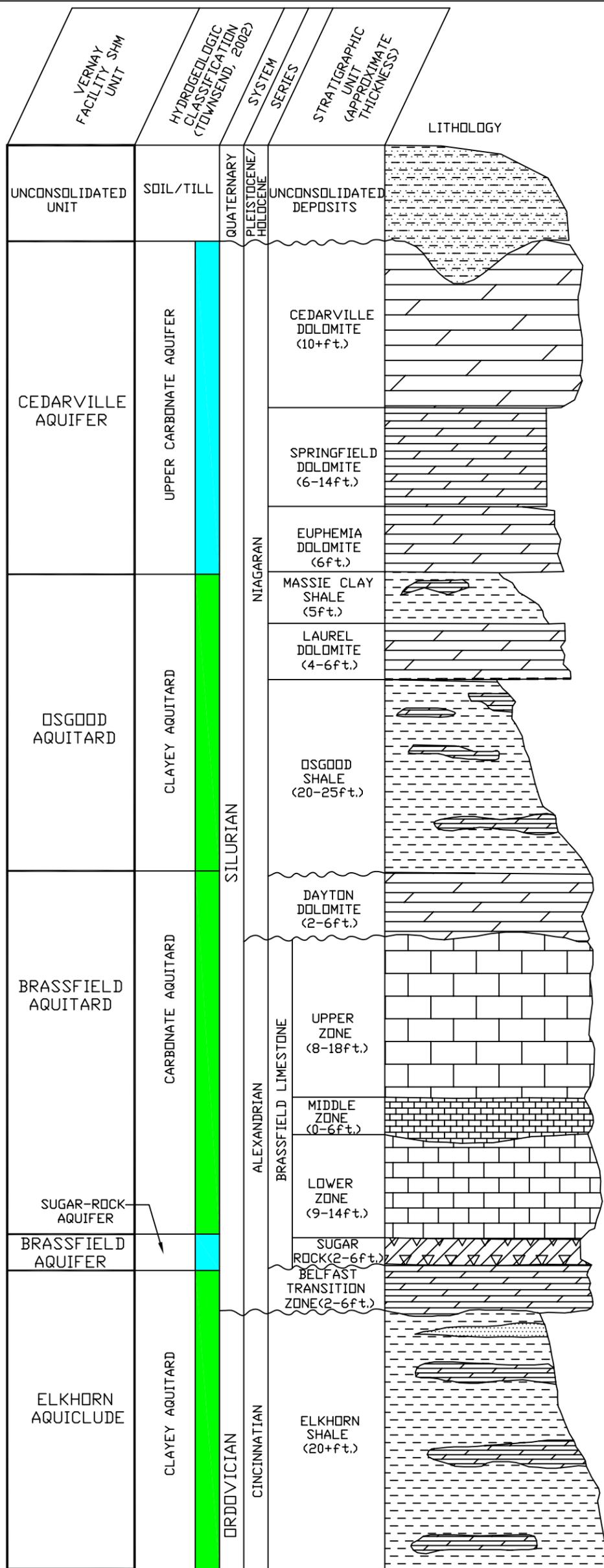


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REFERENCE: Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)



CLIENT VERNAY LABORATORIES, INC.	FIGURE 3	DATE 4/4/06	 The Payne Firm, Inc. Environmental Consultants Cincinnati / Cleveland / Chicago
TITLE REGIONAL HYDROGEOLOGIC FEATURES	DRAWN BY ALH	APPROVED BY KDK	
PROJECT NO. 292.11.44			
REFERENCE <i>Greene Co. Auditors, Orthophotograph (1995); Village of Yellow Springs 2001 Wellhead Protection Management Plan; Ground Water Resources of Greene Co., Ohio DNR Division of Water</i>			



GEOLOGIC COLUMN FROM OUTCROP DESCRIPTION (MODIFIED FROM FROST, 1977)
 HYDROGEOLOGIC CLASSIFICATION FROM ANTIOCH COLLEGE BORING (TOWNSEND, 2002)

LEGEND

- | | | |
|-------------------------|-------------------------|--------------------|
| UNCONSOLIDATED DEPOSITS | SUCROSIIC DOLOMITE ROCK | AQUIFER |
| DOLOMITE ROCK | SILTSTONE | AQUITARD/AQUICLUDE |
| SHALE | UNCONFORMITY | |
| LIMESTONE | GRADATIONAL CONTACT | |

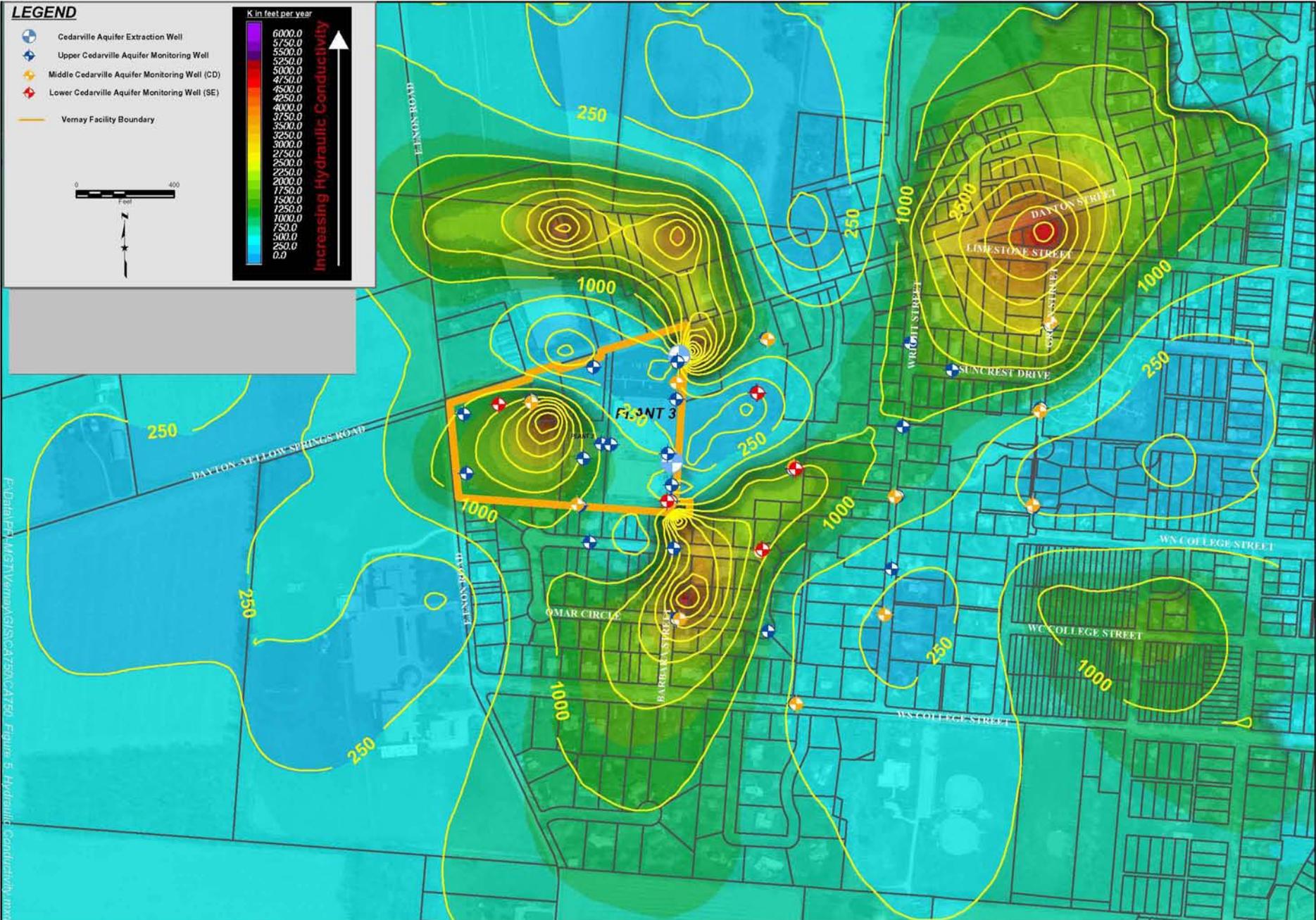
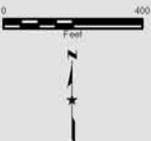
PREPARED AT REQUEST OF U.S. EPA
 FOR DISCUSSION PURPOSES ONLY

FIGURE NOT TO SCALE

SITE VERNAV LABORATORIES, INC.	FIGURE 4	DATE 8/25/06	The Payne Firm, Inc. Environmental Consultants Cincinnati/Cleveland/Chicago
TITLE SITE HYDROGEOLOGIC MODEL (SHM)	DRAWN BY MMH	APPROVED BY KDK	
	PROJECT NO. 0292.11.44		

LEGEND

-  Cedarville Aquifer Extraction Well
-  Upper Cedarville Aquifer Monitoring Well
-  Middle Cedarville Aquifer Monitoring Well (CD)
-  Lower Cedarville Aquifer Monitoring Well (SE)
-  Vernay Facility Boundary



CLIENT: **VERNAY LABORATORIES, INC.**

TITLE: **CALIBRATED HYDRAULIC CONDUCTIVITY**

FIGURE NO: **5**

DRAWN BY: **ALH**

DATE: **4/4/06**

APPROVED BY: **KDK**

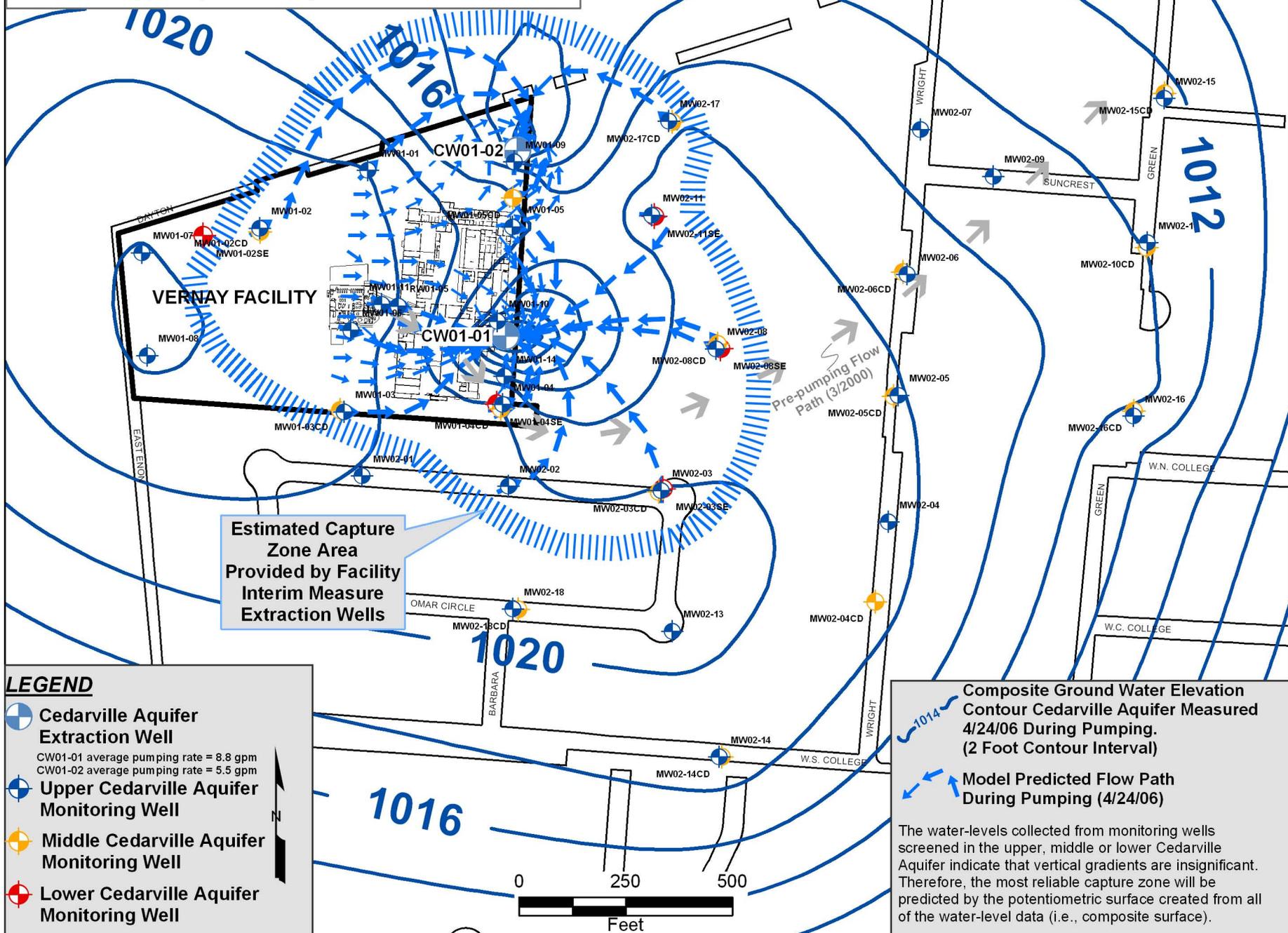
PROJECT NO: **292.11.44**



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REFERENCE: Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woodport Surveying, LLP, Dayton, Ohio (NAD83/NAD88)

Ground water flow paths depicted north of the Facility are estimated based on local and regional water levels collected over a six square mile area (2/14/2000) used in the model calibration presented in the approved RFI Phase I report. The calibrated ground water elevation contours (April 2006) shown on this figure are from the localized model domain.



Estimated Capture Zone Area Provided by Facility Interim Measure Extraction Wells

Pre-pumping Flow Path (3/2000)

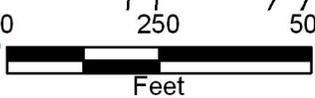
Composite Ground Water Elevation Contour Cedarville Aquifer Measured 4/24/06 During Pumping. (2 Foot Contour Interval)

Model Predicted Flow Path During Pumping (4/24/06)

The water-levels collected from monitoring wells screened in the upper, middle or lower Cedarville Aquifer indicate that vertical gradients are insignificant. Therefore, the most reliable capture zone will be predicted by the potentiometric surface created from all of the water-level data (i.e., composite surface).

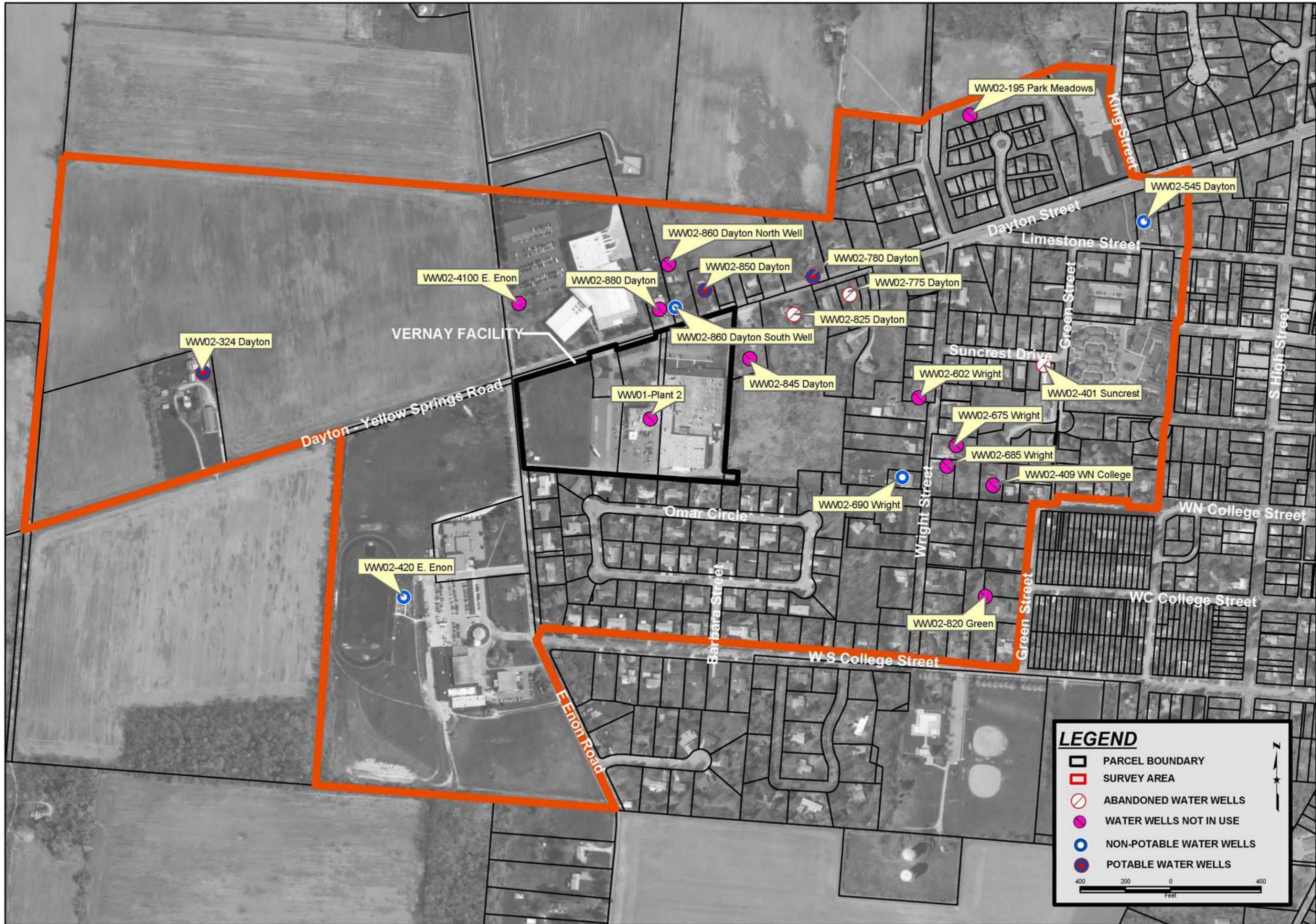
LEGEND

- Cedarville Aquifer Extraction Well
CW01-01 average pumping rate = 8.8 gpm
CW01-02 average pumping rate = 5.5 gpm
- Upper Cedarville Aquifer Monitoring Well
- Middle Cedarville Aquifer Monitoring Well
- Lower Cedarville Aquifer Monitoring Well



CLIENT VERNAV LABORATORIES, INC.	FIGURE NO.	6	DATE	6/14/06
	TITLE CEDARVILLE AQUIFER FLOW CONDITIONS	DRAWN BY ALH	APPROVED BY KDK	
REFERENCE Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woodport Surveying, LLP, Dayton, Ohio (NAD83/NAD88)	PROJECT NO.	292.11.26		

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LEGEND

- PARCEL BOUNDARY
- SURVEY AREA
- ABANDONED WATER WELLS
- WATER WELLS NOT IN USE
- NON-POTABLE WATER WELLS
- POTABLE WATER WELLS

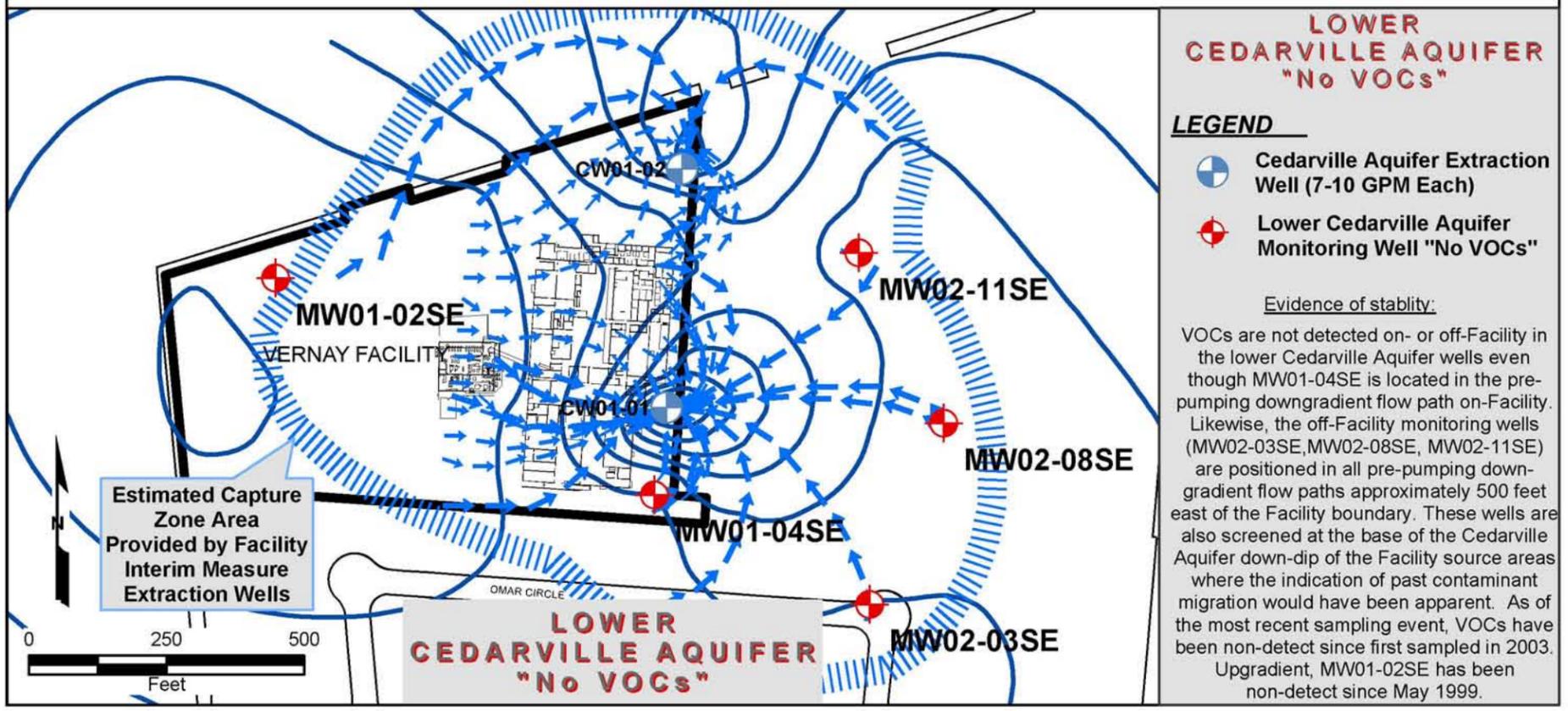
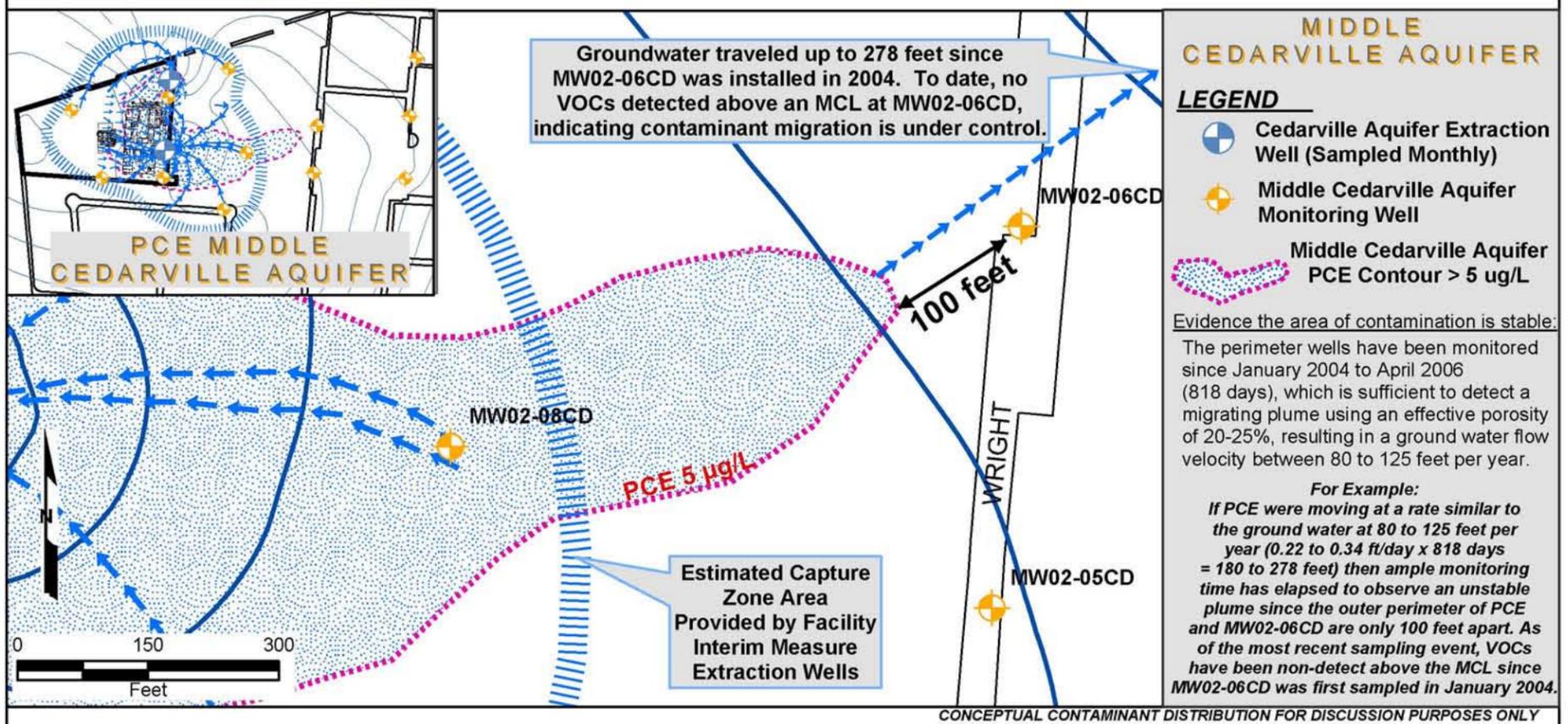
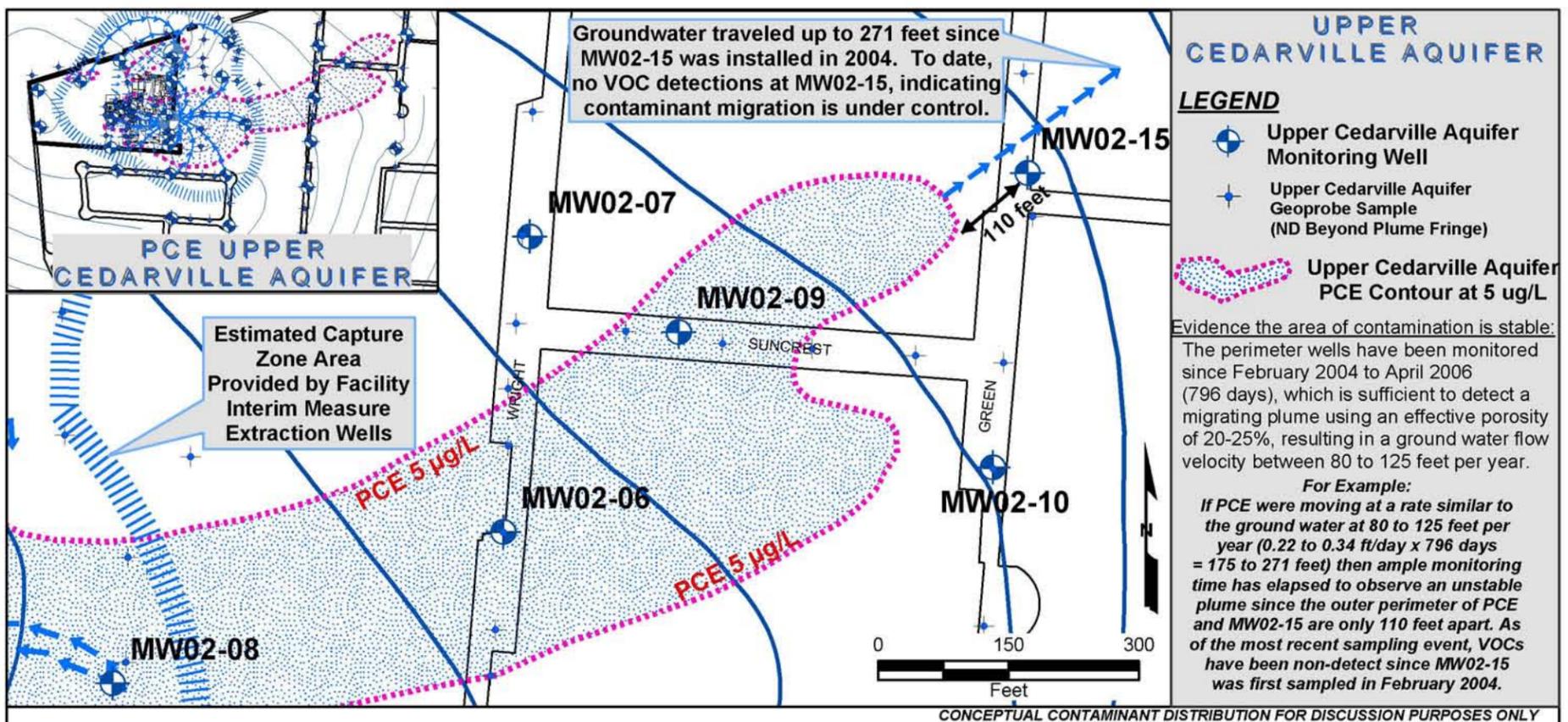
400 200 0 400
Feet

N
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CLIENT	VERNAV LABORATORIES, INC.		
TITLE	WATER WELL USE AND SURVEY AREA		
FIGURE NO.	7	DATE	4/4/06
DRAWN BY	ALH	APPROVED BY	KDK
PROJECT NO.	292.11.44		

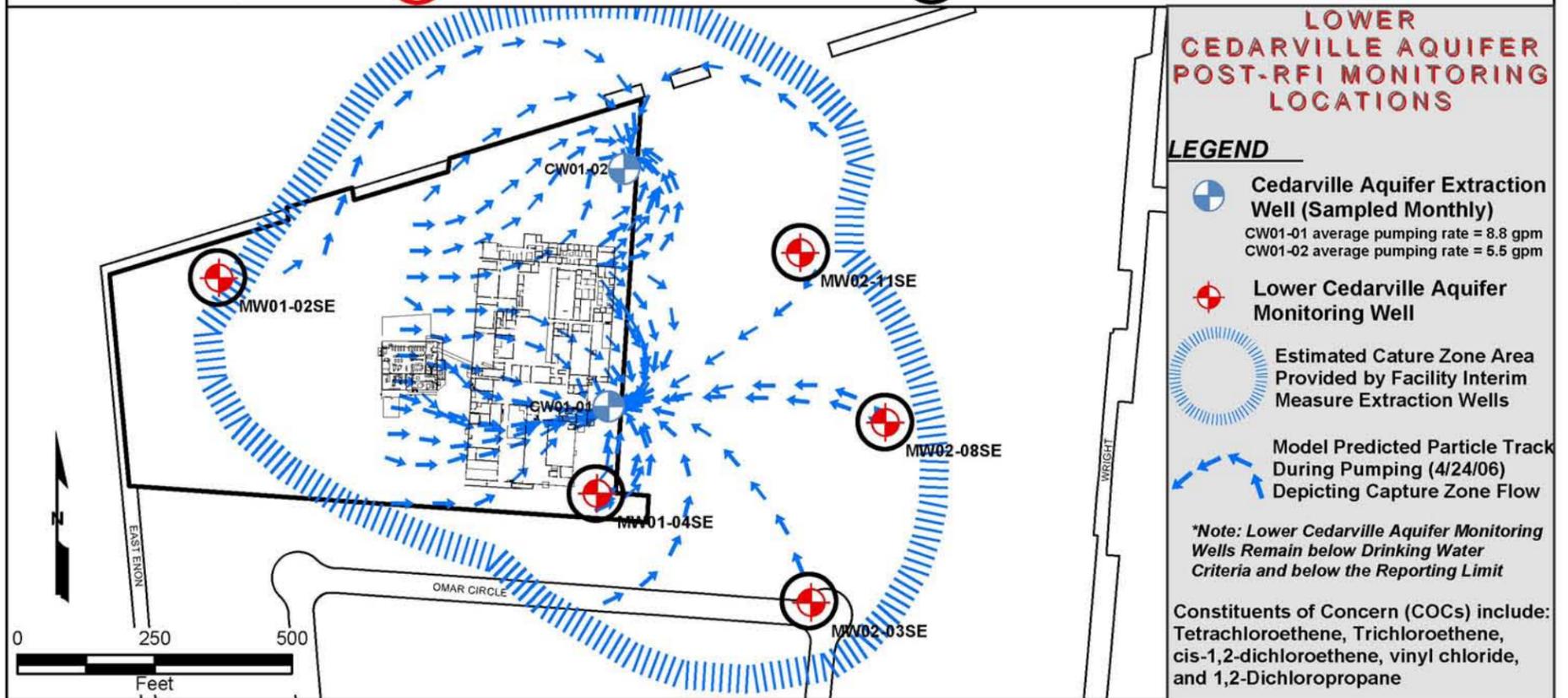
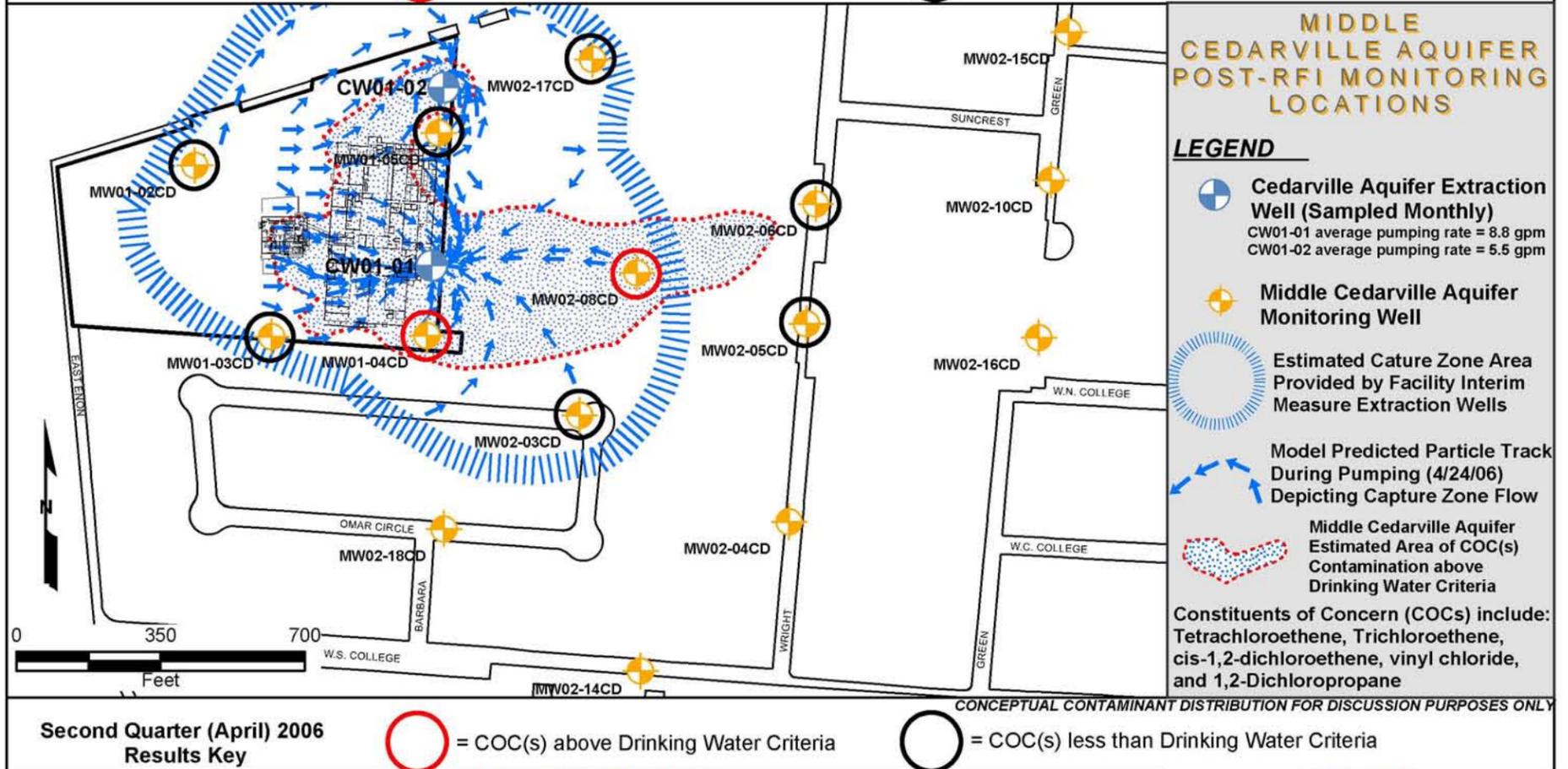
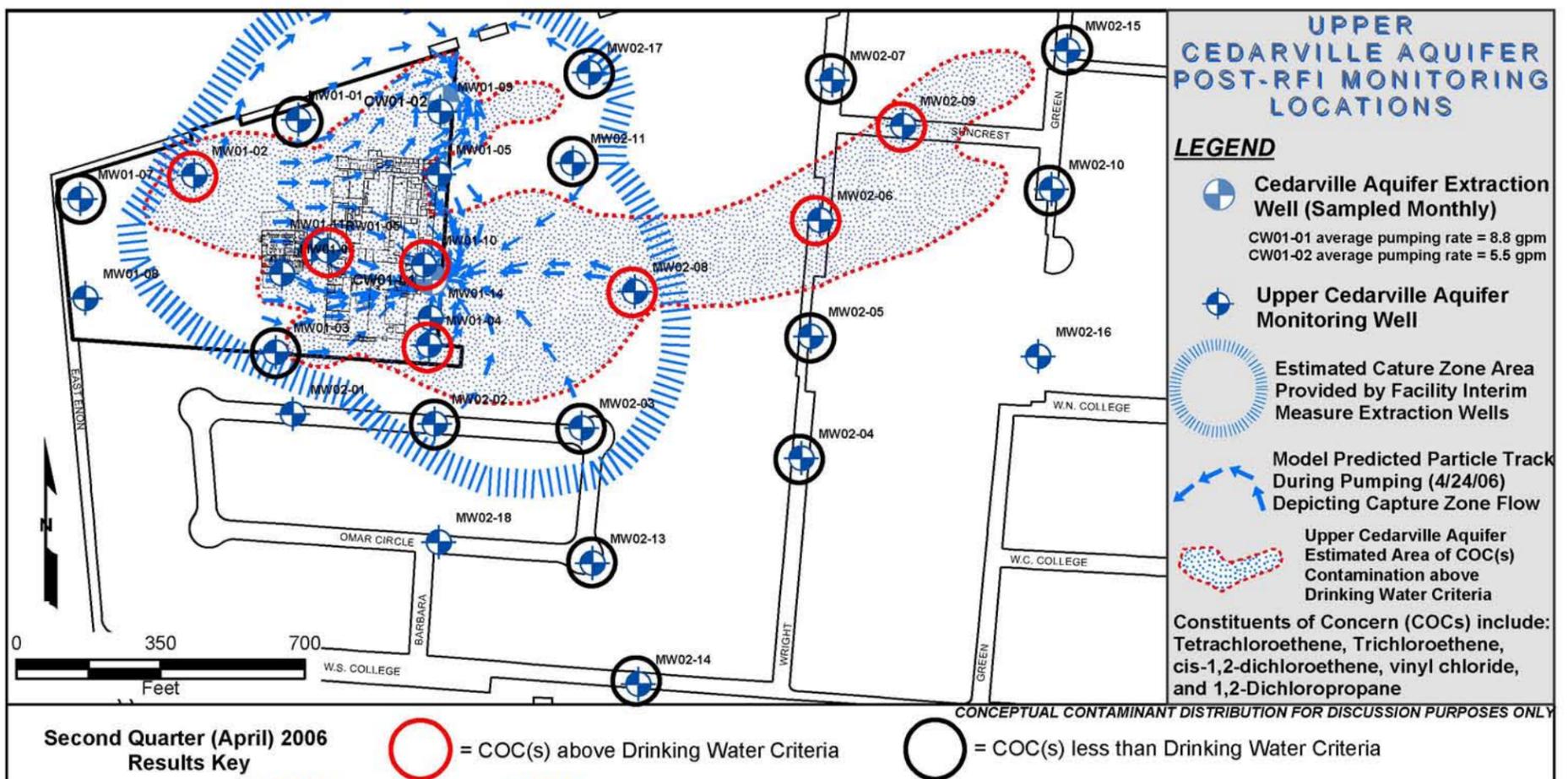

The Payne Firm, Inc.
 Environmental Consultants
 Cincinnati / Cleveland / Chicago

REFERENCE: Greene County Auditors, Orthophotograph (1998); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)



CLIENT VERNAY LABORATORIES, INC.	FIGURE 8	DATE 08/25/06	 The Payne Firm, Inc. Environmental Consultants Cincinnati / Cleveland / Chicago
TITLE MIGRATION UNDER CONTROL EXAMPLE FOR TETRACHLOROETHENE (PCE)	DRAWN BY ALH	APPROVED BY KDK	
REFERENCE State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88); Ground Water Modeling Completed by David Back, P.G., Hydrogeologist, Falls Church, VA	PROJECT NO. 0292.11.44		

F:\Data\PF1-MGT\Verday\GIS\CA750\CA750_Figure 8_Migration under Control Example.mxd



CLIENT VERNAY LABORATORIES, INC.	FIGURE 9	DATE 4/25/06	 The Payne Firm, Inc. Environmental Consultants Cincinnati / Cleveland / Chicago
TITLE CEDARVILLE AQUIFER POST-RFI MONITORING LOCATIONS AND CA750 VERIFICATION RESULTS (APRIL 2006)	DRAWN BY ALH	APPROVED BY KDK	
REFERENCE State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88); Ground Water Modeling Completed by David Back, P.G., Hydrogeologist, Falls Church, VA	PROJECT NO. 0292.11.44		

F:\Data\PHI-MGT\ Vernay\GIS\CA750\CA750_Figure 9_Post-RFI Monitoring Locations.mxd