Fort George G. Meade

Groundwater Contamination, Odenton, Maryland Update

Restoration Advisory Board Meeting May 17, 2012

ARCADIS MALCOLM PIRNIE
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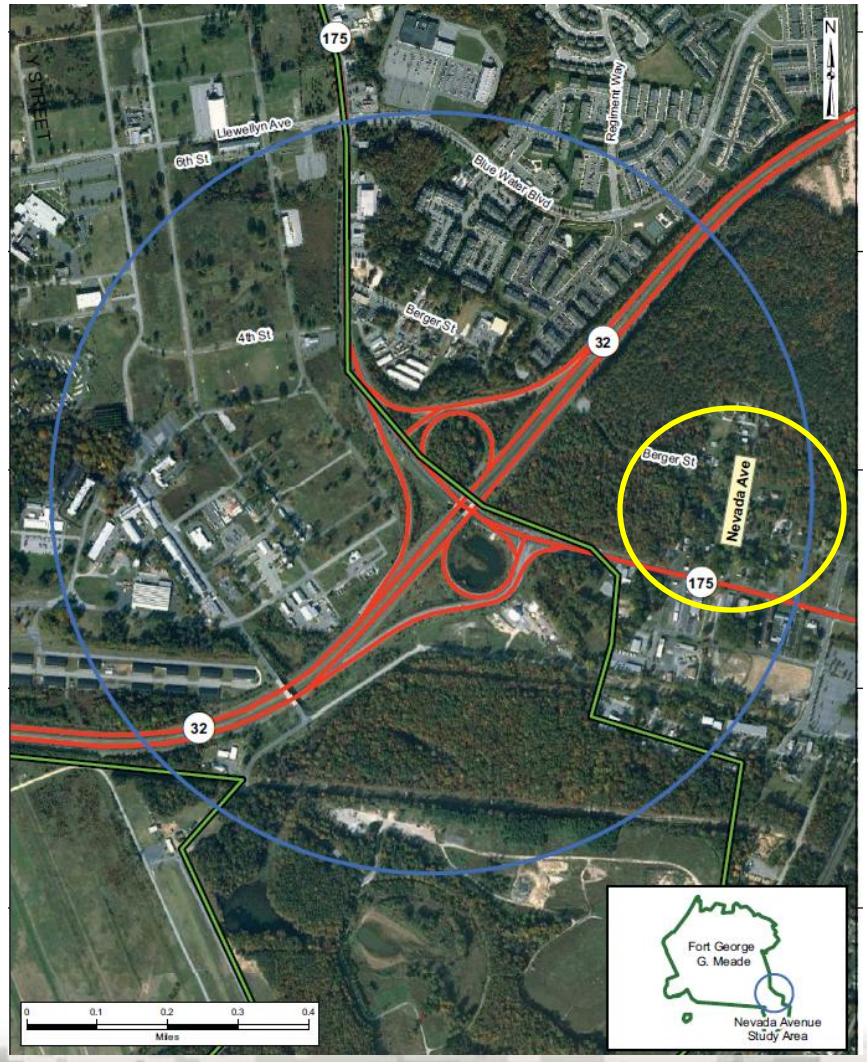
Nevada Avenue Study Area



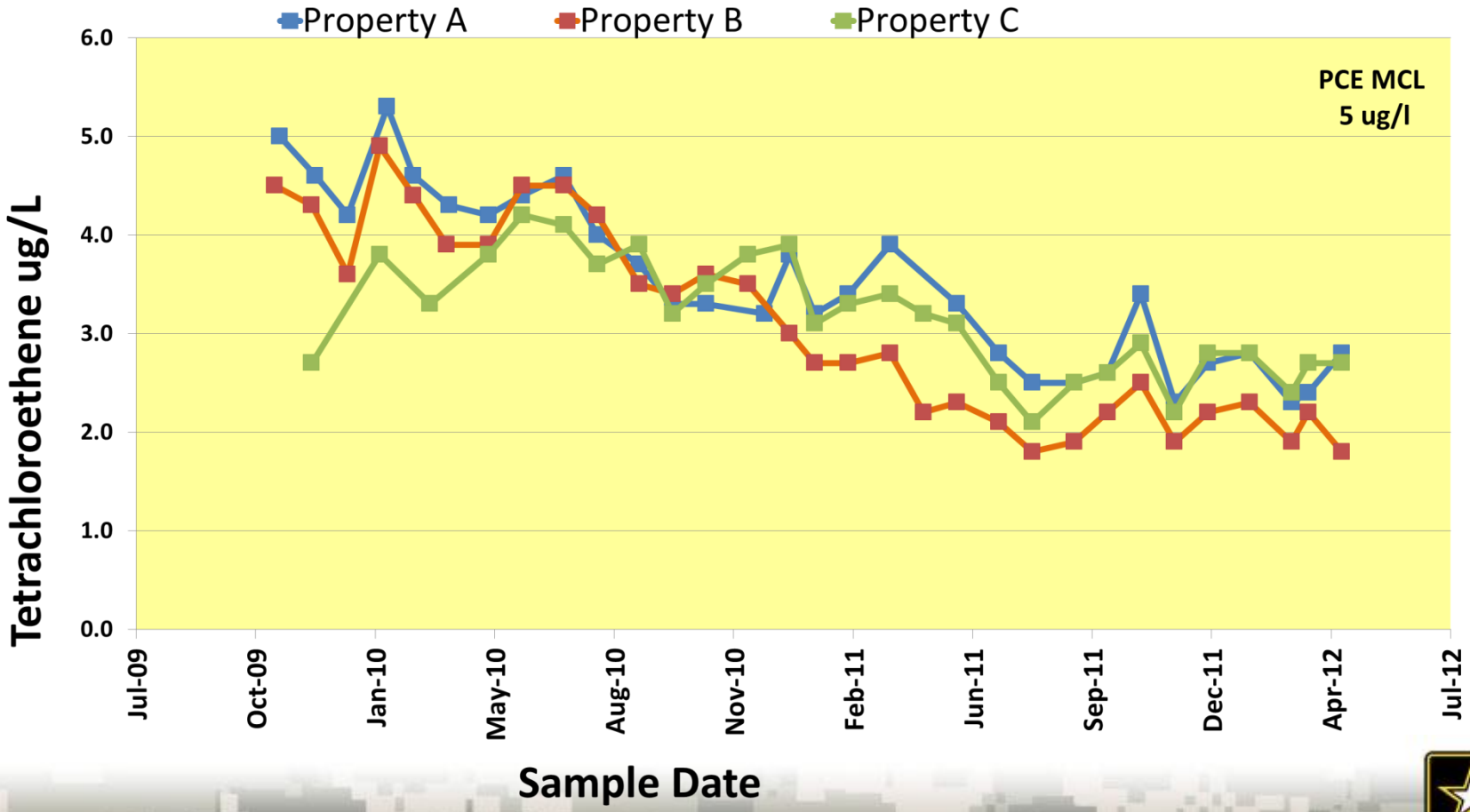
Nevada Avenue Monthly Sampling - Interim Results

(last 12 months)

Month	*Dichloroethene (MCL - 70 µg/L)*		*Tetrachloroethene (MCL - 5 µg/L)*		*Trichloroethene (MCL - 5 µg/L)*	
	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)
May 11	3/3	0.78J-1.2	3/3	2.3-3.3	1/3	0.54J
Jun 11	3/3	0.54J-0.97J	3/3	2.1-2.8	0/3	ND
Jul 11	3/3	0.78J-0.88J	3/3	1.8-2.5	0/3	ND
Aug 11	3/3	0.66J-1.1	3/3	1.9-2.5	0/3	ND
Sep 11	3/3	0.86J-1J	3/3	2.2J-2.6J	3/3	0.41J-0.47J
Oct 11	3/3	0.45J-0.72J	3/3	2.5-3.4	0/3	ND
Nov11	3/3	0.70J-0.89J	3/3	1.9-2.3	0/3	ND
Dec11	3/3	0.71J-1.0	3/3	2.2-2.8	2/3	0.42J-0.43J
Jan12	3/3	0.55J-0.81J	3/3	2.3-2.8	0/3	ND
Feb12	3/3	0.63J-0.93J	3/3	1.9-2.4	0/3	ND
Mar 12	3/3	0.60J-0.82J	3/3	2.2-2.7	0/3	ND
Apr 12	3/3	0.58J-0.72J	3/3	1.8-2.8	0/3	ND

MCL = Maximum Contaminant Level
µg/L = micrograms per liter
ND = Indicates contaminant not detected above the MDL
Data Qualifiers: J= estimated concentration below the method detection limit (MDL)

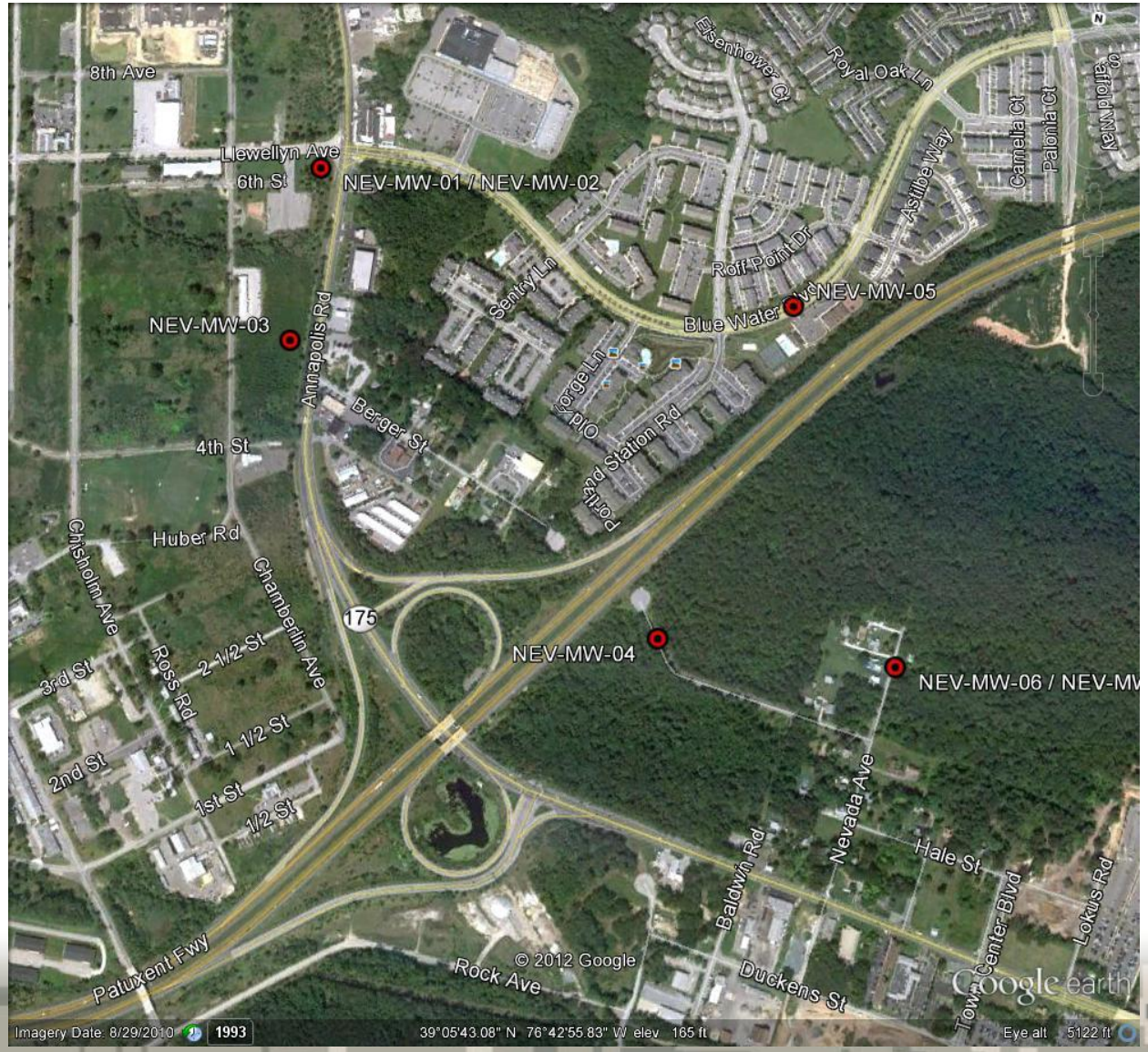
Summary of Nevada Avenue Monthly Sampling Results – Tetrachloroethene (PCE)



Nevada Avenue Status/Next Steps

- Nevada Avenue Investigation
  - Work Plan
    - Final WP Approved - August 2011
  - Field Activities
    - Well Installation
      - Right –of-Way (ROW) permitting activities for off-Post monitoring wells:
        - » Utility clearances – December 2011
        - » Traffic control plans – January 2012
        - » Legal survey plats – January 2012
        - » ROW License Application Anne Arundel County – March 2012
      - Drilling activities will begin upon ROW licensing

Nevada Avenue Investigation



Off-Post Monitoring Wells Status

- Off-Post Monitoring Well Activities
  - January 13, 2012: Repairs to MW-125d/123s & MW-126d/124s
  - February 1, 2012: Sampling at MW-125d/123s & MW-126d/124s
    - Shallow and deep monitoring well pairs sampled
    - Samples analyzed for volatile organic compounds (VOCs)
  - May 11, 2012: Draft Letter Report submitted for regulator review

MW-123s and MW-125d looking north

MW-124s and MW-126d looking north

Off-Post Monitoring Wells

Off-Post Monitoring Well Results

Analytes µg/L	MCL µg/L	MW-125d						MW- 126d					
		April 2004	March 2005	November 2008	March 2009	June 2009	February 2012	April 2004	March 2005	November 2008	March 2009	June 2009	February 2012
Chloroform	-	0.85J	0.8	1J	ND	1.0	ND	0.43J	0.29	2J	ND	1.6	ND
CCl_4	5	**21.3**	**20**	**25**	**20.3**	**17.0**	3.5	4.1	3	**51**	**21.8**	**65.8**	**64.3**
DCE	70	ND	ND	<0.8	ND	ND	ND	0.42J	2.3	3J	0.69J	2.3	0.75J
PCE	5	2.8	1.2	5	0.66J	ND	0.83J	**12.4**	**6.5**	**51**	**11.5**	**31.4**	**9.2**
TCE	5	0.5	0.28	1 J	ND	ND	0.52J	3.5	2.4	**16**	4.9	**13.1**	3.2

Notes:
MCL = Maximum Contaminant Level
ND = Not Detected
J = Estimated concentration below the method detection limit
Bold Shaded Text = exceeds the MCL
CCl_4 = Carbon Tetrachloride
DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
No volatile organic compounds (VOCs) were detected in MW-123s or MW-124s

Points of Contact

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