



Fort George G. Meade

Nevada Avenue Off-Post Groundwater Investigation Update

Restoration Advisory Board Meeting November 19, 2015



ARMY STRONG.™



Nevada Avenue Investigation



IMCOM
SOLDIERS • FAMILIES • CIVILIANS





Nevada Avenue Monthly Sampling - Interim Results

(last 12 months)



Month	<i>Dichloroethene</i> (MCL - 70 µg/L)		<i>Tetrachloroethene</i> (MCL - 5 µg/L)		<i>Trichloroethene</i> (MCL - 5 µg/L)	
	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)
Nov 14	0/3	ND	3/3	1.1 – 1.4	0/3	ND
Dec 14	0/3	ND	3/3	1.3 – 2.2	0/3	ND
Jan 15	0/3	ND	3/3	1UL – 1.3	0/3	ND
Feb 15	3/3	0.35J – 0.5J	3/3	1.1 – 1.4	0/3	ND
Mar 15	2/3	0.43J - 0.44J	3/3	1.0 – 1.3	0/3	ND
Apr 15	2/2	0.38J – 0.47J	2/2	1.2 – 1.5	0/3	ND
May 15	2/3	0.4J – 0.41J	3/3	1.2 – 1.4	0/3	ND
Jun 15	1/2	0.5J	2/2	1.1 – 1.2	0/2	ND
Jul 15	1/2	0.43J	2/2	1.2 – 1.4	0/2	ND
Aug 15	2/2	0.35J – 0.40J	2/2	1.1 – 1.3	0/2	ND
Sep 15	0/2	ND	2/2	1.3 – 1.4	0/2	ND
Oct 15	0/2	ND	2/2	1.0 – 1.2	0/2	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)

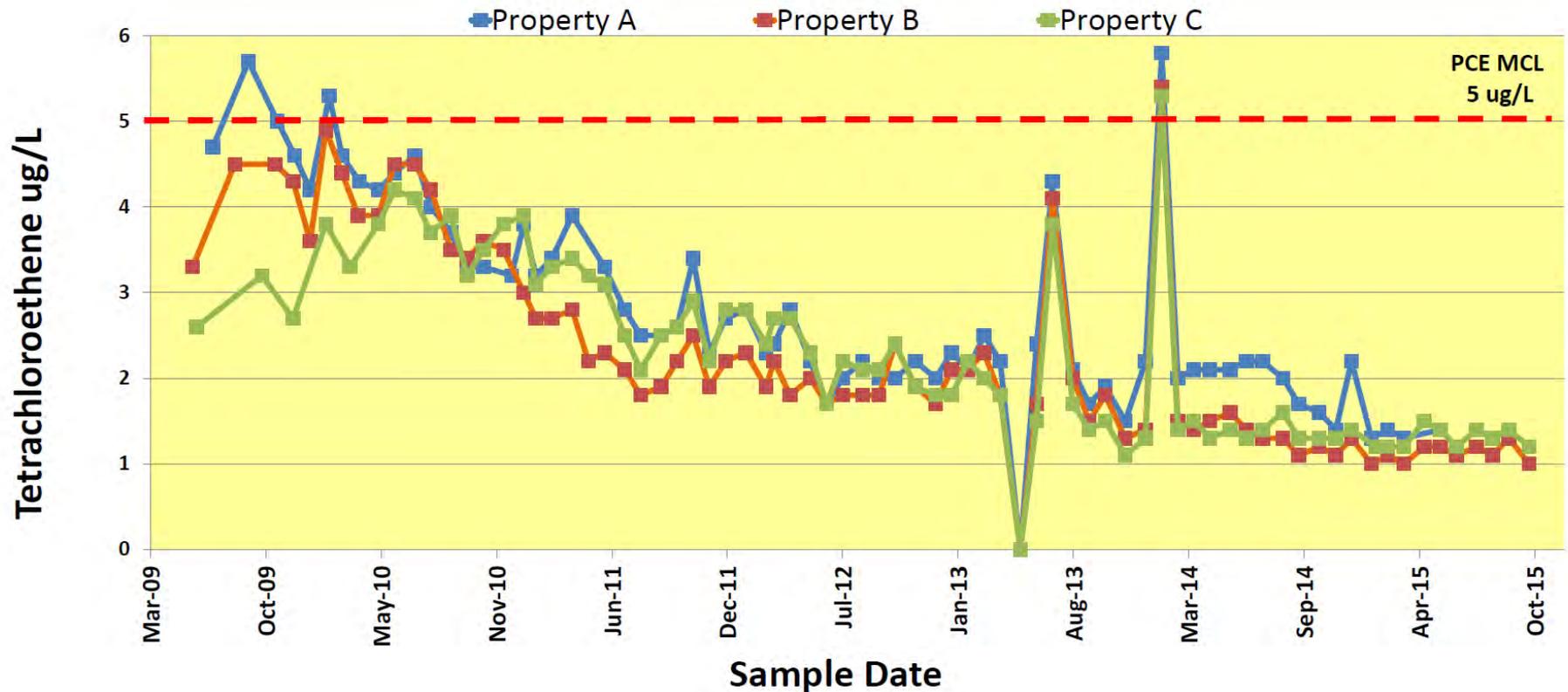
***Data not validated**

BOLD SHADED = MCL exceeded





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





Investigation Next Steps



- Monthly Army sampling of Nevada Ave private wells continues
 - Collected 8 September, 13 October, and 10 November 2015
 - Request to reduce frequency to quarterly approved by EPA & MDE
 - Next sampling February 2016
 - Will re-evaluate if results change
- Property A not sampled due to spigot malfunction. Spigot to be repaired by homeowner soon...
- Bottled water under contract, one year with two option years.
- Additional investigations recommended to determine if FGGM is source of Nevada Ave COCs. Upgradient potential source areas included in new and upcoming contracts.



Points of Contact



**U.S. Army Garrison Fort George G. Meade
Directorate of Public Works-Environmental Division
4216 Roberts Ave, Suite 5115
Fort Meade, Maryland 20755-7068**

- George Knight, PG
 - Installation Restoration Manager
 - 301-677-7999
 - george.b.knight7.civ@mail.mil
- Denise Tegtmeyer, PE (Sundance Consulting, Inc.)
 - Senior Project Manager
 - 301-677-9559
 - denise.a.tegtmeyer.ctr@mail.mil

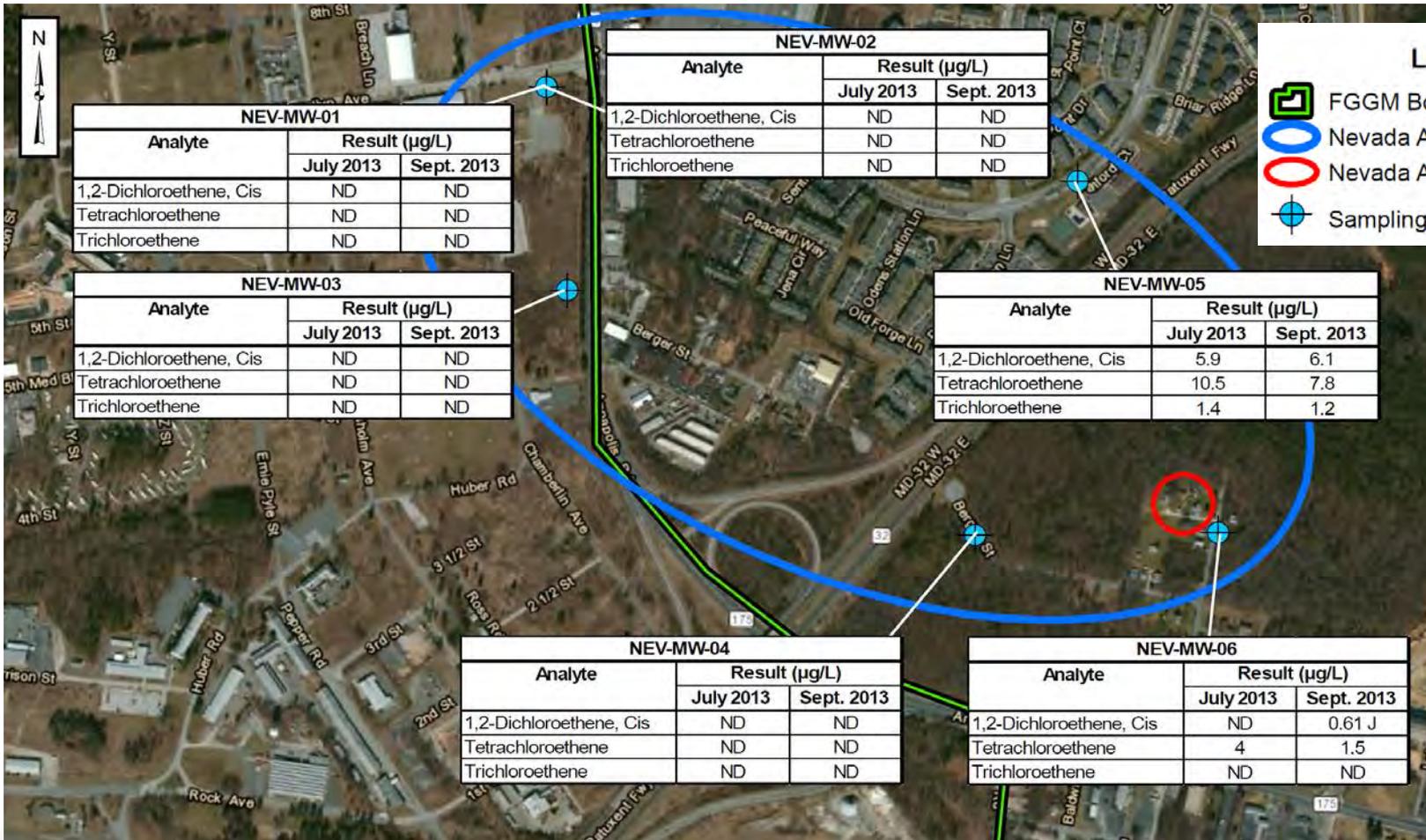


Back-up Slides





Results



Legend

- FGGM Boundary
- Nevada Avenue Study Area
- Nevada Avenue Private Wells
- Sampling Location - New Well

NEV-MW-01		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-02		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-03		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-05		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	5.9	6.1
Tetrachloroethene	10.5	7.8
Trichloroethene	1.4	1.2

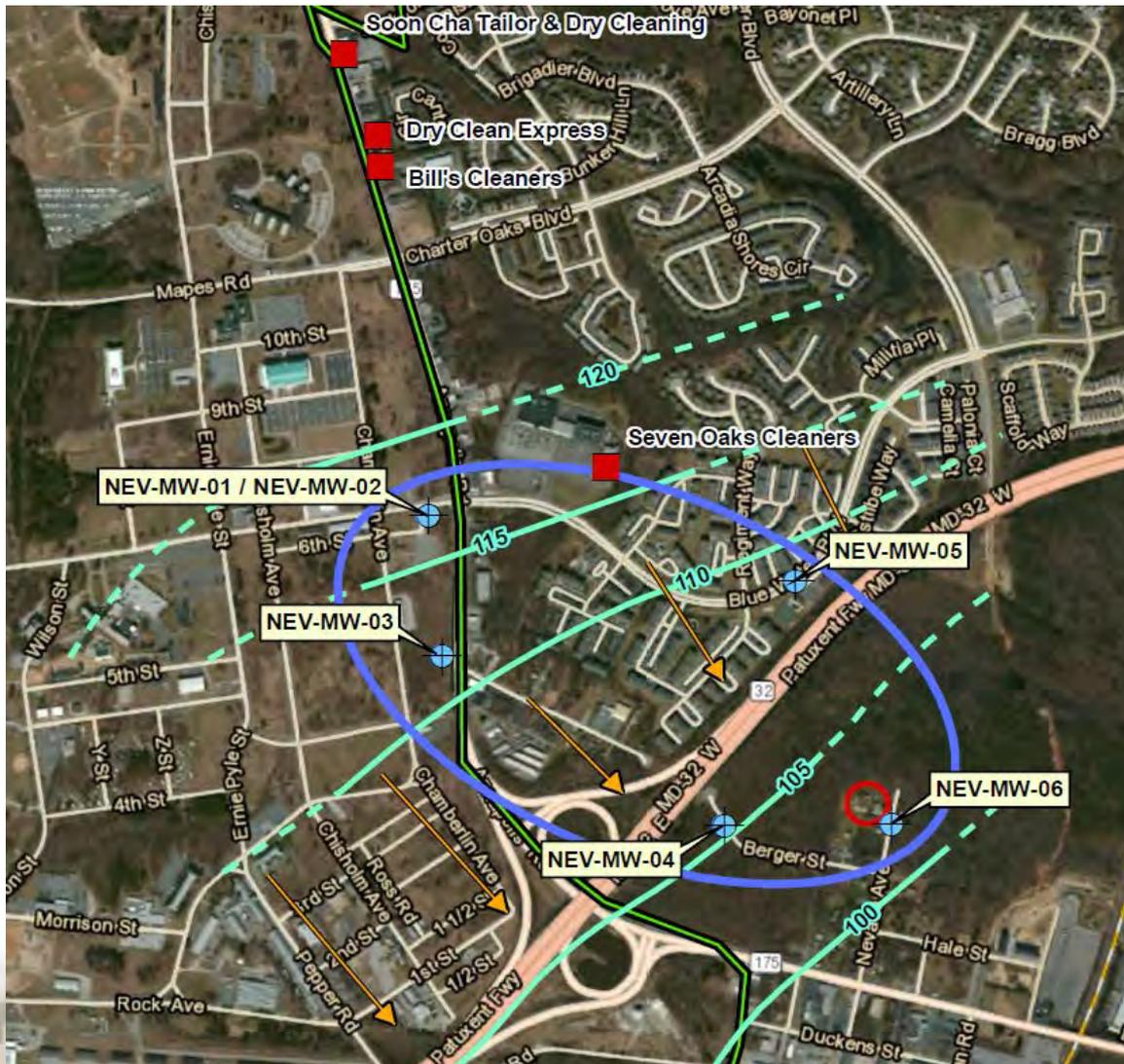
NEV-MW-04		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-06		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	0.61 J
Tetrachloroethene	4	1.5
Trichloroethene	ND	ND





Report Conclusions



Legend

- FGGM Boundary
- Nevada Avenue Study Area
- Nevada Avenue Private Wells
- Sampling Location - New Well
- Dry Cleaner
- Lower Patapsco Aquifer
Water Table Elevation Contours
(Sept. 2013)**
- Known
- Inferred
- Groundwater Flow Direction

