




Area C, Round B

Thursday, October 28, 2010 2:58 PM

From: "Joe Marchesani" <Joe.Marchesani@dep.state.nj.us>

To: "Greg Zalaskus" <Greg.Zalaskus@dep.state.nj.us>

Cc: "Jim Kealy" <Jim.Kealy@dep.state.nj.us>, Roach.Bill@epamail.epa.gov, ted.gabel@us.army.mil, michaelglaab@worldnet.att.net, subsurfacecsolns@worldnet.att.net

 2 Files (65KB)



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LTM_Results

Ted:

Per your request, round B is reviewed. See attached.

Acceptable. There exist sentinel well exceedances again this round. Not sure what to make of them.
regards.

Joseph Marchesani, P.G.
Hydrogeologist
NJDEP/BGWPA
Trenton, NJ 08625



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

Memorandum

Date: 10/28/2010

To: Greg Zalaskus, Case Manager
Emergency Management Program

From: Joseph Marchesani, Hydrogeologist
Bureau of Ground Water Pollution Abatement

Subject: Picatinny Arsenal
Area C Groundwater, Round B Sampling
October 2010

The Bureau has received and reviewed the subject document. The document is acceptable as submitted.

See the attached spreadsheet for a summary of groundwater criteria exceedances.

Summary

The compounds tetrachloroethene and RDX were detected in the groundwater sentinel wells. RDX was detected in a different sentinel well at a higher concentration than Round A. Aluminum, Chromium and Nickel are also new detected sentinel well exceedances for this round, and were not detected as exceedances in round A. Continued monitoring and evaluation should occur for the southern boundary.

If there are any questions, please contact me at 292-8427.

cc. Jim Kealy, BEERA

Round A- May 2010

Compound	Monitoring well number/concentration in ug/l								
Arsenic	1181-3/24	C1-B/4.9	DM19-2/45.1	DM25-2/11.8	MW16/3.2	MW180-1/112	MW-25-6B/3	MW-25-7/3.7	MW-25-8/9.4
lead	SB1-1/19.6	SB1-2/35.7							
Iron	SB1-1/450	SB1-2/908	SB2-2/24500	SB4-2/3500	SB4-3/1630				
Mn	SB1-2/262	SB-6/69.7	SB2-2/740	SB3-2/243	SB3-3/297	SB4-2/142	SB4-3/1630		
sodium ¹	SB1-1/124000	SB1-2/290000	SB1-3/140000	SB1-5/129000	SB1-6/231000	SB1-7/128000	SB2-1/202000	SB2-2/644000	
chloride ¹	SB1-1/275000	SB1-2/521000	SB1-3/266000	SB1-5/267000	SB1-6/384000		SB2-1/328000	SB2-2/1380000	
pce	SB3-1/4.42								
vinyl chloride	DM19-1/5.3	DM-25-2/7							
rdx	SB4-1/0.91								

footnotes

- 1- most likely a result of road salting operations
- 2- verified by immediate follow-up sampling

Round B- October 2010

Compound	Monitoring well number/concentration in ug/l										
Arsenic	1181/11.8	C-1B/7.55	DM19-2/80.3	DM25-2/5.55	MW180-1/9.46	MW25-8/8	SB2-2/6.45				
lead	MW17/21	MW25-8/15.2	SB1-1/25.9	SB1-2/26.8	SB1-3/20.8	SB1-5/22.3	SB1-6/14.6	SB1-7/15.1			
Al	SB1-1/205	SB1-3/203	SB1-5/631	SB1-6/258	SB1-7351	SB2-1/201	SB2-2/310	SB4-4/773			
Cr	SB3-1/105 ²										
Iron	SB1-2/364	SB1-5/1190	SB1-6/1140	SB1-7/641	SB2-2/27700	SB3-1/1640	SB3-2/11.5	SB3-3/999	SB4-2/1310	SB4-3/1810	SB4-4/1360
Mn	SB1-2/105	SB1-5/68.9	SB1-6/50.4	SB2-2/760	SB3-2/857	SB3-3/213	SB4-2/74.3	SB4-3/334	SB4-4/241		
Ni	SB3-1/177										
sodium ¹	SB1-1/99000	SB1-2/370000	SB1-3/318000	SB1-6/229000	SB1-7/122000	SB3-3/82200					
chloride ¹	SB1-2/783000	SB1-3/565000	SB1-6/417000	SB2-2/964000							
pce	SB3-1/3 ²										
cis-1,2-dce	DM19-1/71.6 ²										
vinyl chloride	DM19-1/10.2	DM25-2/2.88	DM25-3/1.66								
rdx	SB3-1/5.95										

footnotes

- 1- most likely a result of road salting operations
- 2- verified in dup