Message

From: Harrington, Jim (DEC) [jim.harrington@dec.ny.gov]
Sent: 11/7/2014 5:49:43 PM
To: Garbarini, Doug [Garbarini.Doug@epa.gov]; LaPadula, John [LaPadula.John@epa.gov]
CC: Schick, Robert (DEC) [robert.schick@dec.ny.gov]; Ryan, Michael (DEC) [michael.ryan@dec.ny.gov]
Subject: FW: NAVY REPORTS HIGH LEVEL TCE GROUNDWATER HOT SPOT FOUND UPGRADIENT OF BWD PLANT 6!!
Attachments: Interim GW Sampling Report - March June Sep 2014.pdf

Importance: High

John/Doug – This is the document that I referred to. the attachment has the maps that show the location of the hot spot. Well 108D2 is the hottest and is located on a line between the GM 75 area (the hotspot the could not be located and BWD Plant 6 (wells 6-1 and 6-2). This location is well north of the leading edge of the plume and the southern lobe (George's finger). The Southern State Expressway is looked at as the leading edge. Jim H

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Please note my new email address
Jim.Harrington@dec.ny.gov

From: Swartwout, John (DEC)
Sent: Tuesday, October 21, 2014 2:37 PM
To: Harrington, Jim (DEC)
Cc: Scharf, Steven (DEC)
Subject: NAVY REPORTS HIGH LEVEL TCE GROUNDWATER HOT SPOT FOUND UPGRADIENT OF BWD PLANT 6!!
Importance: High

Jim-

I just got off a conference call with Lora Fly, Steve Karpinski, and Joe DeFranco. Lora discussed the groundwater findings detailed on the attached interim report. **The Navy has identified a significant groundwater hotspot between the Grumman ONCT extraction wells and Bethpage Water District Plant 6 (which is currently on-line operating on an as-needed basis).** The Navy is also concerned about South Farmingdale Plant 3.

Three rounds of data from monitoring wells installed as part of the ongoing vertical profile boring program south of the ONCT wells has identified a deep TCE groundwater hot spot with levels exceeding 1 ppm at several locations. See the figures in the attached report. A grab sample from new VPB 156 at a depth of 600 feet found 8 ppm (location but not the data result for this sample shown on the figures). Also, Joe DeFranco pointed out that the TCE level in the influent water at Plant 6-2 recently rose to 1200 ppb. The Navy hasn't yet determined whether this represents deep contamination which has gotten past the ONCT extraction wells. Further work will be done to explore that issue.

BWD is currently designing a new treatment system for Plant 6 which Joe reports will utilize 'advanced oxidation potential' treatment. The Navy is concerned that this new information may affect the design for the new treatment system. There is also concern about the increasing contaminant level since it will likely be 2 years before the new system is constructed and operational and BWD needs Plant 6 to continue operating. BWD did construct a new well last year in Bethpage State Park, but it is not yet on-line.

Regarding hot spot treatment for this contamination, the Navy would like to arrange for the BWD to operate Plant 6 full-time (or turn it over to the Navy to operate as a remedial system). The Navy is also starting to look for a 2-acre parcel

where a new extraction well, treatment plant (and recharge wells/ infiltration gallery/ recharge basin) could be located. This is difficult since the area is so densely developed. Piping extracted water over to the GM-38 plant doesn't seem like a good option.

The Navy will notify BWD (and likely other water districts) of this discovery this week by phone, to be followed immediately by transmittal of the attached data package by e-mail. **ONE QUESTION- SHOULD THAT TRANSMITTAL COME FROM DEC RATHER THAN FROM THE NAVY?** I need to get back to Lora on this ASAP.

There is already a RAB meeting scheduled for Nov. 5 in Bethpage and this issue will clearly become the major focus of that meeting. The Navy expects to schedule another conference call with the DEC and DOD in the near future for further discussion on this issue with a larger DEC and DOH audience.

John