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NCBC DAVISVILLE
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EMAIL REGARDING INVITATION TO CONFERENCE CALL 4 APRIL 2010 FOR SITE 16 MONITORED NATURAL ATTENUATION DATA COLLECTION PROPOSAL NCBC DAVISVILLE RI
04/07/2010
BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE NORTHEAST

Vetere, Stephen

From: Dale, Jeffrey M CIV NAVFAC MIDLANT, PNBC [jeffrey.m.dale@navy.mil]
Sent: Wednesday, April 07, 2010 8:48 AM
To: williams.christine@epamail.epa.gov; Richard Gottlieb
Cc: Brandon.Bill@epamail.epa.gov; Barney, David A CIV OASN (EI&E), BRAC PMO NE; Vetere, Stephen; Sinagoga, Lee Ann; Anderson, Scott; Logan, Joe
Subject: Conf Call info for Wednesday 4.7.2010 RE Davisville Site 16 MNA proposal
Attachments: Site 16 MNA Rev-4.07.10.pdf; MNA wells Rev 1.doc
Signed By: jeffrey.dale@navy.mil

Christine and Richard

Invitation for Conference Call Today at 1:30 PM for Davisville Site 16 FS SAP, "MNA Data Collection" Proposal

Meeting Place: Call in number 1-866-270-2016

Meeting ID# :2173

I'm sending the following information in support of the Navy's proposal to sample select monitoring wells for analysis of "MNA parameters". The objective of this data collection effort was never clearly stated to both of you and I apologize for this.

The objective of this effort was to collect additional data to supplement the data already collected during 2004 and 2007 presented in Phase III RI Tables 4-31, 4-33, 4-35, 4-37, 4-39, and 4-56. (file is too large to attach to this email)

BACKGROUND
The original list of wells for "MNA analysis" was provided in my email of 3/17/2010; and the list of analytical parameters was included in the response to comment/changed pages Worksheet 19c (2/18/2010). The EPA provided an alternative approach for this evaluation in an emailed letter on 4/2/2010. Attached is a revised list of wells/map for your consideration and discussion. The proposed analytical parameters in Worksheet 19c remains with the addition of carbon dioxide by field method (Hach).

The Navy proposed this sampling effort primarily to address an EPA recommendation based on their evaluation of the Supplemental Phase II Remedial Investigation Data Package Report (published March 2006). The EPA noted that the analytical method used for ethane, ethene, and methane (SW 846 Method 3810) was a screening method and recommended that a more quantitative method be used (Method RSK SOP 175) for these parameters. The Navy agreed and indicated that any future work would use Method RSK SOP 175. The Navy felt this resampling would be a good faith effort to address the recommendation (even if not reiterated lately) and collect more quantitative results for these parameters. In order to have comparative data from each well, from the same date, the additional analysis (Worksheet 19c) were proposed.

Some of the remedial alternatives evaluated in the (draft) FS contain a MNA component, and one alternative is MNA for the entire plume. Therefore, the Navy wanted to utilize additional data that would address EPA's original recommendation and provide an additional level of comfort for the team's review of the remedial alternatives. There is no preferred remedial approach at this time, nor is this proposal a reflection that "MNA-only" is a presumed approach.

I look forward to discussing this today.

Jeff Dale
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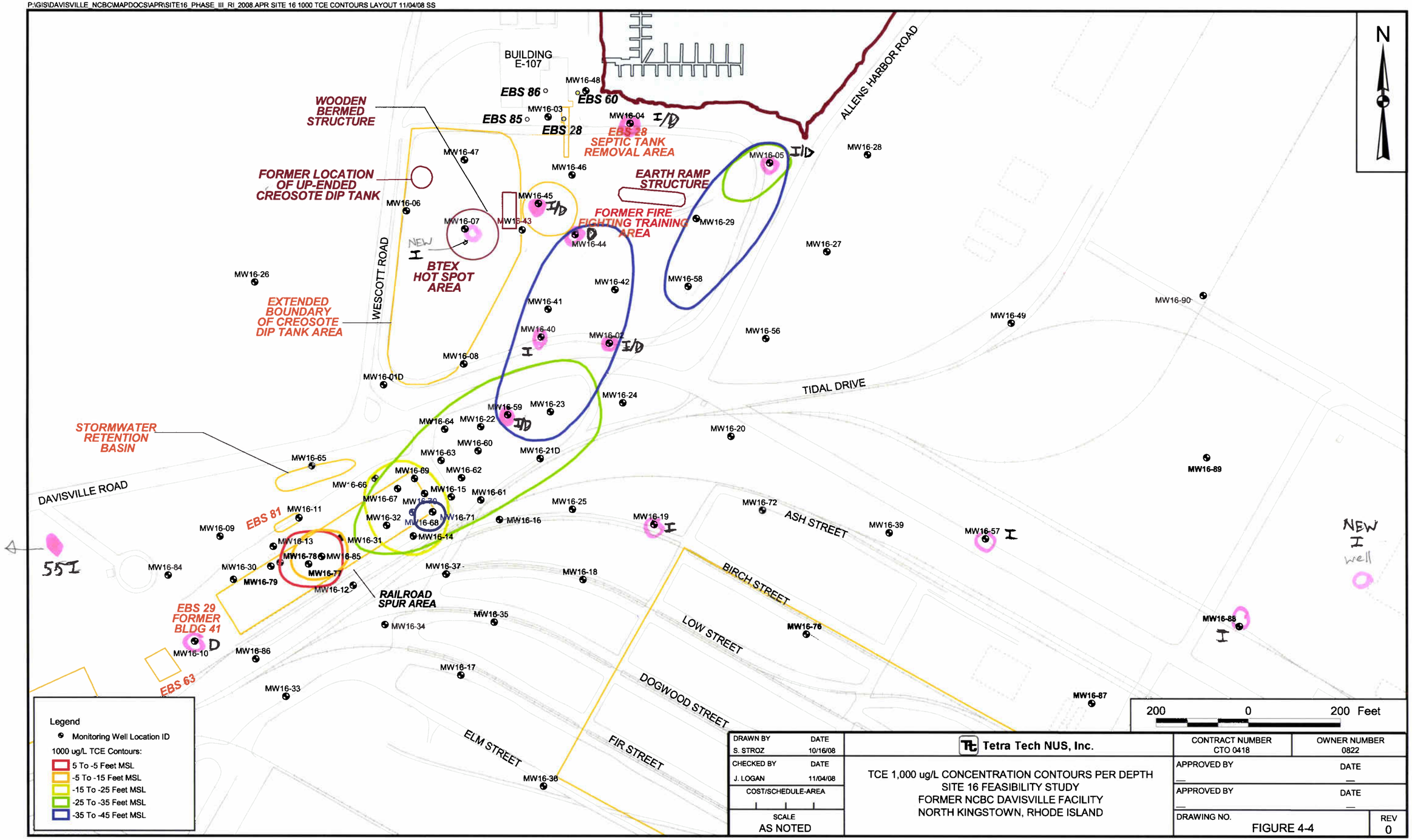
P:\GIS\DAVISVILLE_NCBC\MAPDOCS\APR\SITE16_PHASE_III_RI_2008.APR SITE 16 1000 TCE CONTOURS LAYOUT 11/04/08 SS



DRAWN BY	DATE	Tetra Tech NUS, Inc.	CONTRACT NUMBER	OWNER NUMBER
S. STROZ	10/16/08		CTO 0418	0822
CHECKED BY	DATE	TCE 1,000 ug/L CONCENTRATION CONTOURS PER DEPTH SITE 16 FEASIBILITY STUDY FORMER NCBC DAVISVILLE FACILITY NORTH KINGSTOWN, RHODE ISLAND	APPROVED BY	DATE
J. LOGAN	11/04/08			
COST/SCHEDULE-AREA			APPROVED BY	DATE
SCALE AS NOTED			DRAWING NO. FIGURE 4-4	REV 0

NCBC DAVISVILLE
SITE 16 FS – SUPPLEMENTAL INVESTIGATION
MONITORING WELLS FOR MNA ANALYSIS - REVISED
4/6/10

This list of wells represents a blend of the transect proposed by the Navy and the evaluation proposed by USEPA.

This revised list takes into consideration the following:

1. The alternatives proposed in the Draft FS (with the exception of the MNA-only alternative) include active treatment of the high concentrations areas and a natural attenuation component of the downgradient portions of the plume. Therefore, the emphasis of the MNA should be on the downgradient portions of the plume.

2. Natural attenuation indicators parameters were measured in many of the wells, including the wells in the high concentration areas, during previous investigations. The conclusions of previous evaluations of the data (in the Phase II Supplemental RI and the Phase III RI) were that there was little biodegradation occurring in the shallow and intermediate depths near the source areas.

Thus, the focus of this evaluation is on the downgradient wells. Existing data will be used for comparison to source area wells.

This revised list also includes the eastern arm of the plume and the area immediately downgradient of the BTEX Hotspot as recommended by the EPA.

Well Number	**General rationale**
Central Plume	
59I	Downgradient portion
59D	Downgradient portion
02I	Downgradient portion
02D	Downgradient portion
05I	Distal portion
05D	Distal portion
40I	Downgradient portion
44D	Downgradient portion
BTEX Hot Spot	
New Well	Source area –well for Problem Statement 2
45I	Downgradient portion
45D	Downgradient portion
04I	Distal portion
04D	Distal portion
Eastern Plume	
19I	Downgradient portion
57I	Downgradient portion
88I	Downgradient portion
New I Well	Distal portion to the east Problem Statement 4
Upgradient wells	
55I	Upgradient - Intermediate depth
10D	Upgradient – Deep depth

Notes about upgradient wells: 10I was not selected because of presence of TCE. 55D was not selected because the screen interval is too deep. Wells in the MW-26 cluster and RMW-02 cluster were not selected because of access considerations.