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THIRD QUARTERLY REPORT JULY 2011 THROUGH SEPTEMBER 2011 WITH  
TRANSMITTAL NWS EARLE NJ  
10/25/2011  
TETRA TECH NUS



## TETRA TECH

PHIL-24536

October 25, 2011

Project Number 02091

Naval Facilities Engineering Command Mid-Atlantic  
Northeast IPT  
9742 Maryland Avenue  
Norfolk, Virginia 23511-3095

Attn: Mr. Roberto Pagtalunan, P.E.

Reference: CLEAN Contract No N62470-08-D-1001  
Contract Task Order (CTO) No. WE15

Subject: Submission of 2011 Third Quarterly Report  
Reporting Period July 2011 through September 2011  
Naval Weapons Station Earle, Colts Neck, New Jersey

Dear Mr. Pagtalunan:

Tetra Tech NUS, Inc. (Tetra Tech) is pleased to submit the enclosed Quarterly Report for the Reporting Period July 1, 2011 through September 30, 2011. The report details the Installation Restoration Program (IRP) activities conducted during the subject period at the Naval Weapons Station (NWS) Earle, located in Colts Neck, New Jersey.

In accordance with your request, copies of this report are being forwarded under cover of this letter to Ms. Jessica Mollin at EPA Region 2, and Ms. Erica Bergman at NJDEP.

Thank you for the opportunity to submit this document. Should you have any questions or require additional copies please do not hesitate to contact me.

Sincerely,

Mary M. Mang, CHMM  
Environmental Project Manager

MMM/nfs

Enclosure

c: Scott Fleming (NWS Earle) (1 copy)  
Jessica Mollin (EPA) (1 copy)  
Erica Bergman (NJDEP) (2 copies)  
Garth Glenn (Tetra Tech, Norfolk) (no enclosure)  
John Trepanowski (Tetra Tech, King of Prussia) (no enclosure)  
Bonnie Capito (NAVFAC Lant) (no enclosure)  
Glenn Wagner (Tetra Tech, Pittsburgh)  
File

**Naval Weapons Station Earle  
Colts Neck, New Jersey**

**Quarterly Report  
Reporting Period July 1, 2011 through September 30, 2011**

This report details the Installation Restoration Program (IRP) activities conducted by the Navy during the period of July 1, 2011 through September 30, 2011 at the Naval Weapons Station (NWS) Earle located in Colts Neck, New Jersey.

**SITE-WIDE**

During the reporting period, the Navy Remedial Project Manager (RPM) and NWS Earle Point of Contact (POC) held two meetings at NWS Earle to review the status of the IRP sites. Meeting attendees also included the EPA Region 2 Project Manager (PM), the New Jersey Department of Environmental Protection (NJDEP) Case Manager, and the Tetra Tech, Inc. (Tetra Tech) PM. The first meeting was held on July 13, 2011 and included discussions of the status of deliverables for the individual sites. Tours of Site 16/F, Site 41 and Site 46 were made by the Navy, NJDEP Case Manager, and Tetra Tech. The second meeting was held on September 28, 2011 and in addition to the above named individuals, the EPA Region 2 Section Chief also attended. Tours of Sites 41 and 46 within the Mainside Area and Sites 6, 15 and 17 at the Waterfront Area were conducted. A meeting to discuss the status of the various sites was then held. The next site status review meeting is scheduled for late January 2012; a conference call between all parties may be held in lieu of meeting at NWS Earle.

During the previous reporting period, the Navy and Tetra Tech completed preparation of the NJDEP Receptor Evaluation Forms for Sites 16/F and Areas of Concern (AOC) R-6/7 and R-12. The Receptor Evaluation Forms were submitted to NJDEP on April 28, 2011. On September 12, 2011, the NJDEP provided the Navy with formal comments to the Receptor Evaluations. The Navy is currently responding to the NJDEP's comments.

**Previous Reporting Periods**

On April 2, 2009, a meeting was held at the NJDEP office in Trenton, New Jersey. Meeting attendees included representatives from NJDEP and Tetra Tech. Navy and EPA representatives participated in the meeting via conference call. The purpose of the meeting was to discuss groundwater sampling at Site 7, and the preparation of responses to comments raised on the various Draft Groundwater Classification Exception Area (CEA) Documentation reports for Sites 6 (OU 9), 13 (OU 5), 17 (OU 9) and 26 (OU 3 and

OU 7) and proposed submissions for Sites 4 and 5 (OU 1), Sites 3 and 10 (OU 6), and Site 19 (OU 2). Agreement on the submission of reports detailing groundwater sampling results compared to site background results was also reached for certain sites where site inorganic concentrations in groundwater may be impacted by background conditions. CEA related documentation that was prepared or sampling conducted during this reporting period, are presented in the following site-specific sections.

The draft *Biennial Certification Report for a Groundwater Classification Exception Area (CEA) at Area of Concern (AOC) R-6/7 and R-12* was submitted to NJDEP on May 15, 2009. In an email dated, May 23, 2011, the NJDEP notified the Navy that the next Biennial Certification monitoring report for AOC R-6/7 and R-12 is due this year.

#### **OPERABLE UNIT 1 (SITES 4 and 5)**

No activities were completed at Sites 4 and 5 during the reporting period. The 2011 annual long-term monitoring and site inspections are scheduled for the fourth quarter of 2011.

#### **OPERABLE UNIT 2 (SITE 19)**

No activities were completed at Site 19 during the reporting period. The 2011 annual long-term monitoring of groundwater, surface water, and sediment and site inspections are scheduled for the fourth quarter of 2011.

The Navy's subcontractor, Tetra Tech prepared the draft documentation for the establishment of a groundwater Classification Exception Area (CEA) at Site 19. The Navy will schedule a conference call with the NJDEP Case Manager to discuss the proposed CEA designation.

#### **OPERABLE UNIT 3 (SITE 26)**

Groundwater samples were collected at Site 26 on May 11-12, 2011 by the Navy's subcontractor, H&S Environmental, Inc. During the reporting period, a draft report of results was prepared and submitted to EPA and NJDEP in September. The Navy collects samples for monitoring of the site-related chlorinated hydrocarbons approximately every 15 months, as recommended in the Annual Report for Four Post-Operation Groundwater Sampling Rounds in 2005 (Tetra Tech EC, Inc., 2006).

The *Addendum to the Draft Classification Exception Area (CEA) Documentation Report for Site 26* was submitted to NJDEP in November 2006. Comments were received from the NJDEP on June 25, 2008 and are being reviewed pending results from the ongoing monitoring activities.

#### **OPERABLE UNIT 4 (SITE 23)**

In accordance with the August 2010 *Sampling and Analysis Plan for Site 23 Groundwater Sampling*, Tetra Tech conducted well development and groundwater sampling activities at Site 23 during the weeks of November 1, 2010, and November 15, 2010, respectively. On behalf of the Navy, Tetra Tech prepared the *Groundwater Sampling Report for November 2010 Sampling Event, Site 23 - Paint Disposal Area*. The report was submitted to the Navy, EPA, and NJDEP on February 14, 2011. No comments have been received to date. No new activities were conducted at Site 23 during the reporting period.

#### **OPERABLE UNIT 5 (SITE 13)**

No activities were completed at Site 5 during the reporting period. The 2011 annual long-term monitoring and site inspection are scheduled for the fourth quarter of 2011.

#### **OPERABLE UNIT 6 (SITES 3 and 10)**

No activities were completed at Sites 3 and 10 during the reporting period. The 2011 annual long-term monitoring and site inspections are scheduled for the fourth quarter of 2011.

#### **OPERABLE UNIT 7 (SITE 26 PCE PLUME)**

Groundwater samples were collected at Site 26 on May 11-12, 2011 by the Navy's subcontractor, H&S Environmental, Inc. During the reporting period, a draft report of results was prepared and submitted to EPA and NJDEP in September.

#### **OPERABLE UNIT 8 (SITES 1 and 11)**

During the previous reporting period, Tetra Tech prepared the *Groundwater Sampling Report, August 2010 and February 2011 Sampling Events* for Site 1-Ordnance Demilitarization Site. The report was reviewed by the Navy and submitted to the EPA and NJDEP on June 24, 2011. No review comments have been received to date.

Site 11 is a no further action site.

### **OPERABLE UNIT 9 (SITES 6, 12, 15, and 17)**

During the previous reporting period, the Navy finalized responses to comments received from the EPA on the *Draft Sampling and Analysis Plan for Site 6 and Site 17 Groundwater*. The SAP was prepared in accordance with Uniform Federal Policy (UFP) and EPA guidance, and addressed the scope of work discussed in a conference call between representatives of the Navy, EPA, NJDEP, and Tetra Tech on June 30, 2010. Following concurrence received from the EPA on the Navy's responses, the *Sampling and Analysis Plan for Site 6 and Site 17 Groundwater* was finalized. The Navy received New Jersey concurrence on the SAP on March 10, 2011. Copies of the final plan were distributed to the EPA and NJDEP on June 1, 2011.

During the reporting period, Tetra Tech finalized the preparation of a site-specific health and safety plan (HASP) for groundwater sampling at Sites 6 & 17. At the request of the Navy, Tetra Tech field personnel inspected the wells at Sites 6 & 17 to determine their integrity for sampling. The wells were last sampled in the mid-1990's. Based on the September 7, 2011, well inspection, the background well BG-GW-04 will require abandonment and replacement; monitoring well 06MW-01 will require a repair. As a result of these additional work efforts, Tetra Tech revised the HASP and submitted the revised sections to the Navy for review. The well replacement and repair activities are expected to be conducted during the next reporting period.

During the reporting period, work continued with preparation of the Operations and Maintenance (O&M) Manual for Site 15. The O&M Manual is being prepared in accordance with UFP and EPA guidance and will include a Sampling and Analysis Plan for the long-term monitoring of Site 15 soils. A conference call was held on June 16, 2011, with representatives of the Navy, EPA, NJDEP, and Tetra Tech to discuss the sampling objectives. Based on this call, a follow-up call between the Navy, EPA, and Tetra Tech was held to finalize the sampling parameters.

### **OPERABLE UNIT 10 (SITE 7)**

No new activities were conducted for Site 7 during the reporting period.

### **SITES 9, 41, and 46**

During the previous reporting period, the Navy submitted several documents to the EPA in response to the agency's March 7, 2011 comments on the *Draft Feasibility Study for Site 9, Landfill Southeast of "P" Barricades*. The draft FS was submitted on January 19, 2011. The documents that were prepared and submitted during the previous reporting period include:

- Site 9 – Baseline Human Health Risk Assessment (dated May 26, 2011)
- Site 41 and Site 46 – Data Usability Worksheets (dated June 10, 2011)
- Site 9 – Screening Level Ecological Risk Assessment (dated June 17, 2011)

Copies of each of the above documents were also submitted to the NJDEP.

On July 28, 2011, the EPA forwarded to the Navy formal review comments to the May 2011 Site 9 Baseline Human Health Risk Assessment. During August and September, the Navy and Tetra Tech project personnel reviewed and prepared draft responses to the comments received. A conference call with EPA project personnel to discuss several of the comments was scheduled for October 18, 2011.

#### **SITE 16/EPIC SITE F (BUILDING C-50 DIESEL FUEL LINE)**

During the week of August 14, 2011, Sovereign Environmental, Inc. conducted the quarterly monitoring of Site 16/F groundwater.

Installation of the recommended new monitoring well for Site 16/F was completed on March 24, 2011 in accordance with NJDEP approval of the well permit application.

Work on the draft *Biennial Certification Report for a Groundwater CEA at Site 16/F* is currently on hold pending NJDEP resolution of comments on the most recent bioslurper status and monitoring report.