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LETTER REGARDING THE TRANSMITTAL OF THE 2010 QUARTERLY REPORT FOR  
REPORTING PERIOD APRIL THROUGH JUNE 2010 NWS EARLE NJ  
7/28/2010  
TETRA TECH



**TETRA TECH**

PHIL-23778

July 28, 2010

Project Number 112G02091

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 2010 Second Quarterly Report  
Reporting Period April 2010 through June 2010  
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 April 1, 2010 through June 30, 2010. 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) (2 copies)  
Jessica Mollin (EPA) (3 copies)  
Erica Bergman (NJDEP) (3 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)  
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**Naval Weapons Station Earle  
Colts Neck, New Jersey**

**Quarterly Report  
Reporting Period April 1, 2010 through June 30, 2010**

This report details the Installation Restoration Program (IRP) activities conducted by the Navy during the period of April 1, 2010 through June 30, 2010 at the Naval Weapons Station (NWS) Earle located in Colts Neck, New Jersey.

**SITE-WIDE**

On October 1, 2008, the Navy submitted to the United States Environmental Protection Agency (EPA) and New Jersey Department of Environmental Protection (NJDEP) the *Site Management Plan (SMP)* for Fiscal Years 2008 through 2012. The Navy uses the report as a management tool for planning environmental investigation and remedial response activities at the NWS Earle Environmental Restoration sites during the planning period. The Navy had previously submitted the Draft Site Management Plan for Fiscal Years 2007 through 2011 for NWS Earle to the EPA and NJDEP on March 22, 2007. During the reporting period, Tetra Tech and the Navy continued with preparation of the Draft SMP for Fiscal Years 2010 through 2014.

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). Based on this meeting, the Navy agreed to sample Site 7 groundwater for certain volatile organics (see Operable Unit 10). 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. No review comments have been received to date.

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

ECOR Solutions, Inc. (ECOR) conducted annual long-term monitoring at Sites 4 and 5 during the week of October 25, 2009.

The Annual Long-Term Monitoring Report for the 2009 Sampling Event was finalized on May 20, 2010 and forwarded to EPA and NJDEP.

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

On behalf of the Navy, ECOR collected annual groundwater, surface water, and sediment samples at Site 19 during the week of October 25, 2009.

The Annual Long-Term Monitoring Report for the 2009 Sampling Event was finalized on May 20, 2010 and forwarded to EPA and NJDEP.

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

On behalf of the Navy, ECOR collected groundwater samples from the Site 26 monitoring wells as part of the post-operation monitoring event. Samples were collected on February 16-17, 2010 from 15 monitoring wells and two air sparging wells, and the preliminary analytical results are currently under review. The Navy collects samples for monitoring natural attenuation 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 Navy had conducted the last post-operation sampling event in November 2008. A Draft Report of the results from the 2010 sampling event was forwarded to EPA and NJDEP on June 10, 2010.

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 natural attenuation monitoring.

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

Based on a recommendation in the *Second Five-Year Review Report (2008)*, the Navy prepared and submitted a *Draft Sampling and Analysis Plan for Site 23 Groundwater Sampling*. The SAP was prepared per Uniform Federal Policy (UFP) for Quality Assurance Plans format and was submitted to EPA and NJDEP on August 14, 2009. In correspondence dated November 5, 2009, the NJDEP indicated to the Navy that it had no comments on the sampling plan. On June 7, 2010, the Navy submitted to EPA, responses to the review comments that had been forwarded to the Navy. Following receipt of EPA agreement on the proposed responses, the Navy will finalize the Site 23 SAP.

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

On behalf of the Navy, ECOR collected annual groundwater samples at Site 13 during the week of November 1, 2009.

The Annual Long-Term Monitoring Report for the 2009 Sampling Event was finalized on May 20, 2010 and forwarded to EPA and NJDEP.

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

On behalf of the Navy, ECOR collected annual groundwater samples at Sites 3 and 10 during the week of October 25, 2009.

The Annual Long-Term Monitoring Report for the 2009 Sampling Event was finalized on May 20, 2010 and forwarded to EPA and NJDEP.

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

Groundwater monitoring was conducted at Site 26 as outlined under Operable Unit 3, Site 26 above.

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

On behalf of the Navy, Tetra Tech collected groundwater samples from the Site 1 monitoring wells and two background wells in accordance with the *Sampling and Analysis Plan (SAP) for Site 1 Groundwater*. Samples were collected during the week of July 7, 2009, and submitted to CompuChem Laboratories for analysis. The *Draft Site 1 Groundwater Sampling Report* was prepared and summarized the sampling methodology, findings, and conclusions. The report was submitted to the NJDEP and EPA on

September 17, 2009. On November 5, 2009, the NJDEP provided comments to the Navy regarding the draft report and indicated that a CEA would not be required for site groundwater as iron was the only compound detected above current New Jersey Groundwater Quality Standards. Additional information regarding Site 1 soils work was forwarded to the NJDEP by the Navy on December 3, 2009 as requested in the November correspondence. Comments from EPA were received on December 12, 2009 and a teleconference among Navy, EPA, and Tetra Tech representatives was held on December 22, 2009. EPA formally notified the Navy on January 26, 2010, that long-term monitoring at Site 1 should continue as outlined in the Record of Decision (ROD). On May 18, 2010, the Navy submitted a formal response to EPA outlining proposed follow-up monitoring well installations and sampling. The Navy plans to initiate the well installations on July 29, 2010.

Site 11 is a no further action site.

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

During the reporting period, the Navy initiated preparation of a *Sampling and Analysis Plan for Site 6 and Site 17 Groundwater*. The SAP is being prepared per UFP guidance. A conference call between representatives of the Navy, EPA, NJDEP, and Tetra Tech was held on June 30, 2010 to discuss the proposed sampling at each site and data quality objectives. The Navy will submit the Draft SAP to EPA and NJDEP for review and comment upon completion.

The *Addendum to the Draft Classification Exception Area (CEA) Documentation Report for Site 6* was submitted to NJDEP in November 2006. Comments were received from the NJDEP on June 25, 2008 and are being addressed.

The *Addendum to the Draft Classification Exception Area (CEA) Documentation Report for Site 17* was submitted to NJDEP in November 2006. Comments were received from the NJDEP on June 25, 2008 and are being addressed.

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

On May 20, 2010, the Navy submitted to EPA and NJDEP the *Technical Memorandum: Site 7 - Landfill South of "P" Barricades (OU 10) and Evaluation of Soil Cover*. Findings from the 2009 test pit investigation and wetlands evaluation that were conducted by the Navy at Site 7 were included in the Technical Memorandum.

The Navy submitted the Draft Proposed Remedial Action Plan (Proposed Plan) for Site 7 to EPA and NJDEP on June 7, 2010. The Proposed Plan outlines the preferred remedy for Site 7. The NJDEP forwarded their review comments to the Navy on June 24, 2010.

**SITES 9, 41, and 46**

During the reporting period, the Navy initiated work on the Site 9 Draft Feasibility Study. Work on the Draft Feasibility Studies for Sites 41 and 46 will be initiated upon completion of the Site 9 report.

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

During the previous reporting period, the Navy submitted the *Bioslurper Optimization Report* to NJDEP on January 8, 2010. The report details an optimization review of the Site 16/F bioslurper system that is part of the long-term remedy to recover floating product within the Site 16/F source area. NJDEP approval of the *Bioslurper Optimization Report* was issued on June 23, 2010.

The Navy submitted the *Final Bioslurper Status Report (March 2009 - May 2009)*, that outlines the quarterly monitoring results, to the NJDEP on July 29, 2009. Work on a draft report of the bioslurper status for the August 2009 through May 2010 monitoring period is currently underway.

Installation of the recommended new monitoring well for Site 16/F will be conducted upon 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.