



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 2  
290 BROADWAY  
NEW YORK, NY 10007-1866

DEC 15 2009

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Mark E. Davidson  
US Navy  
BRAC PMO SE  
4130 Faber Place Drive  
Suite 202  
North Charleston, SC 29405

Re: Naval Activity Puerto Rico (NAPR), formerly Naval Station Roosevelt Roads,  
EPA I.D. Number PR2170027203,

- 1) SWMU 61 Draft Corrective Measures Study Investigation Results and Request for Additional Sampling, dated October 7, 2009;
- 2) SWMU 62 Response to Comments and revisions to Final Phase I RFI Report, dated October 29, 2009
- 3) SWMU 70 Response to Comments and revisions to Final Phase I RFI Report, dated November 19, 2009

Dear Mr. Davidson:

This letter is addressed to you as the Navy's designated project coordinator pursuant to the January 29, 2007 RCRA Administrative Order on Consent ("the Consent Order") between the United States Environmental Protection Agency (EPA) and the U.S. Navy (the Navy).

EPA has completed its review of the above documents, and has the following comments:

SWMU 61 Draft Corrective Measures Study Investigation Results and Request for Additional Sampling

EPA has completed its review of the October 7, 2009 interim report on the CMS investigation results and the proposal for additional sampling to complete characterization of indicated releases at the site. As part of that review, our consultant TechLaw Inc prepared Technical Comments on the additional sampling proposal. TechLaw's comments (dated Nov .5, 2009) were slightly modified by EPA and are attached herewith. As previously agreed (refer to your Email of

December 9, 2009 to myself), by January 8, 2010, please submit responses to the comments given in the enclosed Technical Review and the comments given in the P.R. Environmental Quality Board's (PREQB's) letter of October 22, 2009, which I had Emailed to you on December 7, 2009, and any required revisions to your proposal for additional sampling.

#### SWMU 62 Response to Comments and revisions to Final Phase I RFI Report

EPA has completed its review of your October 29, 2009 responses to EPA's and PREQB's comments on the February 6, 2009 draft Phase I RFI report, and the revised Final Phase I report. As part of that review, our consultant TechLaw Inc prepared Technical Comments on the responses. TechLaw's comments (dated Dec. 11, 2009) are attached herewith. EPA will conditionally approve the October 29, 2009 revised Final Phase I Report, subject to the slight modifications requested in the attached Technical Review being submitted, within 60 days of your receipt of this letter, as an addendum to the October 29 Final Phase I Report.

Also, by letter dated November 9, 2009 (copy attached), the PREQB has indicated its approval of the revised Final Phase I RFI report.

As recommended in Section 7.1 of the revised report, a Full RFI is proposed to "...include further investigations of metals in the surface and subsurface soils..." Therefore, pursuant to Section 21.D of the Consent Order, within 60 days of your receipt of this letter, please submit a draft work plan for the Full RFI, meeting the requirements discussed above.

#### SWMU 70 Response to Comments and revisions to Final Phase I RFI Report

EPA has completed its review of your November 19, 2009 responses to EPA's and PREQB's comments on the May 26, 2009 draft Phase I RFI report, and the revised Final Phase I report. EPA will conditionally approve the revised Final Phase I report (dated Nov. 19, 2009); however, at this time, EPA does not fully concur with the statement in Section 7.1 (page 7-2) of the report that "Therefore under the RCRA Corrective Action Process no further investigation is warranted for cobalt in the open water sediment...." Since, as recommended in Section 7.2 of the revised report, a Full RFI is proposed to "...include further investigations of metals in the surface soil, subsurface soil, estuarine sediment, and VOCs and metals in groundwater....", EPA reserves its right to require further investigation for cobalt in the open water sediment if the results of the Full RFI indicate cobalt releases at SWMU 70. EPA's conditional approval of the Phase I RFI report is contingent on the constituent cobalt being included under the analysis for metals proposed as part of the Full RFI.

Also, by letter dated December 4, 2009 (copy attached), the PREQB has indicated its approval of the revised Final Phase I RFI report.

Pursuant to Section 21.D of the Consent Order, within 60 days of your receipt of this letter, please submit a draft work plan for the Full RFI, meeting the requirements discussed above.

If you have any questions, please telephone me at (212) 637- 4167.

Sincerely yours,



Timothy R. Gordon  
Project Coordinator  
Resource Conservation and Special Projects Section  
RCRA Programs Branch

Enclosures (4)

cc: Ms. Wilmarie Rivera, P.R. Environmental Quality Board, w/encls.  
Ms. Maria V. Rodriguez Munoz, P.R.Environmental Quality Board, w/o encls.  
Mr. Mark Kimes, Baker Environmental, w/encls.  
Mr. Anthony Scacifero, TechLaw Inc., w/o encls.  
Mr. Felix Lopez, USF&WS, w/encls.

ENCL. 1

REPA4R2-002-ID-144

**TECHNICAL REVIEW OF THE  
DRAFT CORRECTIVE MEASURES STUDY (CMS)  
INVESTIGATION FOR SWMU 61  
REQUEST FOR ADDITIONAL SAMPLING  
DATED OCTOBER 7, 2009**

**U.S. NAVAL ACTIVITY PUERTO RICO  
EPA I.D. No. PR2170027203**

**Submitted to:**

**U.S. Environmental Protection Agency  
Region 2  
290 Broadway  
New York, NY 10007-1866**

**Submitted by:**

**TechLaw, Inc.  
One Penn Plaza, Suite 2509  
New York, NY 10119**

<b>EPA Task Order No.</b>	<b>002</b>
<b>Contract No.</b>	<b>EP-W-07-018</b>
<b>TechLaw TOM</b>	<b>Tony Scacifero</b>
<b>Telephone No.</b>	<b>212-695-3600, ext. 2</b>
<b>EPA TOPO</b>	<b>Timothy Gordon</b>
<b>Telephone No.</b>	<b>212-637-4167</b>

**November 5, 2009  
(Revised by EPA December 7, 2009)**

compared to Protection of Groundwater Soil Screening Levels (SSLs) conservatively based on a dilution attenuation factor (DAF) of one, which are included on EPA's Regional Screening Level table (May 2009) (available online at: [http://www.epa.gov/reg3hwmd/risk/human/rbconcentration\\_table/Generic\\_Tables/index.htm](http://www.epa.gov/reg3hwmd/risk/human/rbconcentration_table/Generic_Tables/index.htm)). A review of results listed in Table 3, Summary of Detected Laboratory Results, Subsurface Soil, indicates that chloroform was detected in soil sample 61SB17-05 from 9-11 feet bgs at an estimated concentration of 1.1J micrograms per kilogram (ug/kg). This concentration exceeds the Protection of Groundwater SSL of 0.055 ug/kg. Table 3 also shows that TCE was detected in soil sample 61SB18-05, 9-11 ft bgs at an estimated concentration of 1.5J ug/kg, which exceeds its Protection of Groundwater SSL of 0.61 ug/kg. Borings 61SB17 and 61SB18 are both located just south of the two monitoring wells which reported these same VOCs in groundwater (i.e., 61SB05 and 61SB06). These detections indicate that it may be necessary to further investigate potential on-site sources as they may be contributing to groundwater VOC contamination. Revise the Request for Additional Sampling to propose additional subsurface sampling for VOCs in the vicinity of borings 61SB17 and 61SB18 and monitoring wells 61SB05 and 61SB06 to determine whether contaminated soil may be acting as a source of the groundwater contamination. Alternatively, provide justification for not proposing additional sampling for VOCs in this area. Additionally, revise Table 3 to add a column that includes the Protection of Groundwater SSLs for comparison to the soil results, and revise the text of the Request for Additional Sampling to discuss the potential for contaminants in soil to impact site groundwater.

3. The third bulleted item under the subsection "Additional Sampling," on Page 7, states that 20 sediment samples will be collected and analyzed for Appendix IX metals (including total organic carbon, and acid volatile sulfide/simultaneously extracted metals). However this section does not indicate that the sediment samples will also be analyzed for SVOCs. As stated in the third paragraph under the subsection "Sediment," on Page 5, "The levels of the detected SVOCs [in sediment] are relatively low; however, any additional sediment samples that are collected from the wetland should include SVOCs to verify that the contamination is low level and delineated." Revise the Request for Additional Sampling to propose SVOC analysis for the 20 sediment samples.
4. The first bulleted item on Page 8, states that "[a] limited habitat/vegetation evaluation will be conducted to verify the location of the wetland boundaries within the borders of the SWMU." The Request for Additional Sampling has not indicated what this limited evaluation will entail, nor how it will be conducted. Revise the Request for Additional Sampling to present further detail on the procedures for conducting a limited habitat/vegetation evaluation since this activity was not previously described in the *Final Corrective Measures Study Work Plan for SWMU 61*, dated December 6, 2007.
5. The Summary of Detected Laboratory Results tables indicate that several of the VOC results have been flagged as rejected (61SB09-00, 61SB09-00D, 61SB10-00 on Table 1, Surface Soil; 61SB03-01, 61SB09-01, 61SB13-01, 61SB16-01 on Table 2, Shallow Subsurface Soil; 61SB13-05, 61SB14-05; 61SB15-05 on Table 3, Subsurface Soil). The Request for Additional Sampling does not comment on these rejected results. If insufficient data are available to achieve project objectives due to these rejected results, then additional sampling may be required to fulfill data needs. Revise the Request for



**COMMONWEALTH OF PUERTO RICO  
OFFICE OF THE GOVERNOR  
ENVIRONMENTAL QUALITY BOARD**

**Land Pollution Control Area**

November 9, 2009

Mr. Timothy Gordon  
U.S. Environmental Protection Agency – Region II  
290 Broadway – 22<sup>nd</sup> Floor  
New York, New York 10007-1866

**RE: Review Final Phase I RFI Report  
SWMU 62 – Former Bundy Disposal Area  
Response to EPA and PREQB Comments  
Naval Activity Puerto Rico (NAPR), Ceiba  
EPA ID No. PR2170027203**

Dear Mr. Gordon:

The Hazardous Wastes Permits Division has finished the review of the above-mentioned document. The document was submitted in accordance with PREQB comments dated March 4, 2009.

The Navy adequately responds to PREQB's comments and the Final document reflects its respective consideration. Hence, we hereby approved the report as a Final Version. If you have any additional comment or question please feel free to contact Gloria M. Toro Agrat of my staff at (787) 767-8181 extension 3586.

Cordially,

María V. Rodríguez Muñoz  
Manager  
Land Pollution Control Area

cc: Ariel Iglesias Portalatín  
Wilmarie Rivera, Federal Facilities Coordinator

REPA4R2-002-ID-146

**EVALUATION OF THE OCTOBER 29, 2009 RESPONSES  
TO U.S. EPA COMMENTS ON THE  
DRAFT PHASE I RCRA FACILITY INVESTIGATION REPORT  
SWMU 62 – FORMER BUNDY DISPOSAL AREA  
DATED FEBRUARY 6, 2009**

**NAVAL ACTIVITY PUERTO RICO  
CEIBA, PUERTO RICO  
EPA ID NO. PR2170027203**

**Submitted to:**

**U.S. Environmental Protection Agency  
Region 2  
290 Broadway  
New York, NY 10007-1866**

**Submitted by:**

**TechLaw, Inc.  
One Penn Plaza, Suite 2509  
New York, NY 10119**

<b>EPA Task Order No.</b>	<b>002</b>
<b>Contract No.</b>	<b>EP-W-07-018</b>
<b>TechLaw TOM</b>	<b>Tony Scacifero</b>
<b>Telephone No.</b>	<b>212-695-3600</b>
<b>EPA TOPO</b>	<b>Timothy Gordon</b>
<b>Telephone No.</b>	<b>212-637-4167</b>

**December 11, 2009**

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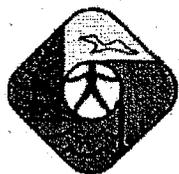
**EVALUATION OF THE OCTOBER 29, 2009 RESPONSES  
TO U.S. EPA COMMENTS ON THE  
DRAFT PHASE I RCRA FACILITY INVESTIGATION REPORT  
SWMU 62 – FORMER BUNDY DISPOSAL AREA  
DATED FEBRUARY 6, 2009**

**Evaluation of the response to EPA comment 1:** The response appears to be partially adequate. According to Section 6.1.2, Ecological, of the Final Phase I RCRA Facility Investigation Report (Report), only those soil samples collected from depths between one and three feet below ground surface (bgs) were compared against ecological screening criteria; however, based on review of Table 6-2, all concentrations of vanadium detected have been screened against the Selected Ecological Surface Soil Screening Values, regardless of the depths from which the samples were collected. Revise the Report to clarify why the concentrations of vanadium detected in samples collected from depths greater than three feet were compared to ecological screening criteria or remove the highlighting from the values at depths greater than three feet bgs.

In addition, based on review of Table 6-2, the concentration of copper detected at boring 62SB06-01 [140 milligrams per kilogram (mg/kg)] exceeded the background screening concentration of 120 mg/kg, however it was not noted as such. Revise the table and the text of Section 6.3, Subsurface Soil, to reflect and discuss this exceedance. Further, since Figure 6-2 presents the locations where inorganic parameters exceeded ecological screening criteria and the NAPR base-wide background value; the copper exceedance should also be depicted on the figure.

**Evaluation of the response to EPA comment 4:** The response appears to be partially adequate. It is unclear how the revised ecological screening value for tin was determined given that there is no plant-based ecological screening level reference provided for tin in the footnote referenced in Table 6-1. Provide a technical reference for the revised screening value or a rationale for why the value was selected.

ENCL. 4



COMMONWEALTH OF PUERTO RICO  
OFFICE OF THE GOVERNOR  
ENVIRONMENTAL QUALITY BOARD

Land Pollution Control Area

December 4, 2009

Mr. Timothy Gordon  
U.S. Environmental Protection Agency – Region II  
290 Broadway – 22<sup>nd</sup> Floor  
New York, New York 10007-1866

**RE: Review Final Phase I RCRA Facility Investigation  
Report for SWMU 70 – Disposal Area Northwest of Landfill  
Response to EPA and PREQB's Comments  
Naval Activity Puerto Rico (NAPR), Ceiba  
EPA ID No. PR2170027203**

Dear Mr. Gordon:

The Hazardous Wastes Permits Division has finished the review of the above-mentioned document. The document was submitted in accordance with EPA and PREQB comments dated August 6, 2009.

The Navy adequately responds to PREQB's comments and the Final document reflect its respective consideration. Hence, we hereby approved the report as a Final Version. If you have any additional comment or question please feel free to contact Gloria M. Toro Agrait of my staff at (787) 767-8181 extension 3586.

Cordially,

María V. Rodríguez Muñoz  
Manager  
Land Pollution Control Area

cc: Ariel Iglesias Portalatín  
Wilmarie Rivera, Federal Facilities Coordinator