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LETTER REGARDING SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL REVIEW OF SITE ASSESSMENT PLAN DATED 5 MARCH  
1999 WITH MONITORING WELL INSTALLATION APPROVAL LETTER FOR ZONE C SITE 30  
BUILDING NH46 UNDERGROUND STORAGE TANKS 1 THROUGH 4 CNC C  
04/07/1999  
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



7 April 1999

2600 Bull Street  
Columbia, SC 29201-1708

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Rodney L. Grandy

Department of the Navy  
Southern Division NFEC  
P.O. Box 190010  
North Charleston, SC 29419-9010  
Attention: Mr. Gabriel Magwood

Re: Site Assessment Plan dated 5 March 1999  
Zone C/Site 30-Building NH46 (UST-1,2,3,4) (Site Identification # 17755)  
Charleston Naval Complex/Charleston Naval Base  
Charleston, SC  
Charleston County

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the SAP (site assessment plan) provides for additional investigative endeavors to determine the extent and severity of soil and groundwater contamination, if any, associated with a suspected release at the subject site. It is recognized that the initial tasks (i.e., soil borings, piezometers, etc.) are generically designed to allow for field modifications/adjustments, as necessary. Based on the foregoing review, the proposal to perform soil borings, piezometer installation (Phase I) and monitoring well installation (Phase II) and appropriate sampling is approved for implementation. Permanent monitoring well installation (Phase II), with the exception(s) noted below, will be conducted after appropriate consultation with the Department concerning Phase I analytical results.

The facility may use best professional judgement to install additional temporary monitoring points to define the extent and severity of free phase petroleum product and/or significant dissolved phase contamination if identified during Phase I field activities. Temporary monitoring wells may be converted to permanent wells at the time of installation in the presence of free phase petroleum product, as appropriate.

Please find enclosed monitoring well approval # 0434 for the proposed piezometers, soil borings and monitoring wells. Abandonment of all intrusive sampling points will be in accordance with the technical specifications and descriptions provided and/or referenced in the SAP or as approved by the Department.

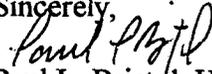
Please be reminded that the Department retains the authority to request additional assessments and/or remedial endeavors, as appropriate, if future conditions or information warrant and are

Charleston Naval Complex/Charleston Naval Base  
7 April 1999  
page 2

deemed necessary.

Should you have any questions please contact me at (803) 898-3559.

Sincerely,

  
Paul L. Bristol, Hydrogeologist  
Groundwater Quality Section  
Bureau of Water

enc.: Monitoring Well Approval # 0434  
cc: Trident District EQC



Date of Issue: 7 April 1999  
Approval No: 0434

2600 Bull Street  
Columbia, SC 29201-1708

## Monitoring Well Installation Approval

COMMISSIONER:  
Douglas E. Bryant

Approval is hereby granted to: Charleston Naval Complex/Charleston Naval Base  
(on behalf of): Zone C/Site 30-Building NH46 (UST-1,2,3,4)  
Site ID#: 17755  
County: Charleston

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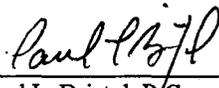
Rodney L. Grandy

This approval is for the construction of DPT (direct push technology) piezometers and monitoring wells (number to be field determined) in accordance with the construction plans and technical specifications submitted to the Department on 11 March 1999. The piezometers and monitoring wells are to be constructed within the surficial aquifer for the intended purpose of monitoring groundwater quality and/or water level(s) at the referenced facility. Approval is provided with the following conditions:

1. The surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well be submitted to within thirty (30) days of completion (of last well(s) installed).  
(to be submitted with Assessment Report)
2. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.
3. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Trident District EQC Office (843-740-1590).
4. Please provide groundwater quality analytical data (chemical analyses and/or water level(s)) and associated measurements (i.e., field measurements) to Paul L. Bristol within thirty (30) days of receipt from laboratory.  
(to be submitted with Assessment Report)
5. Monitoring wells shall be installed by a well driller certified by the State of South Carolina.
6. Each well shall be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate shall provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification number.  
(for permanent wells, only)

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71.

Approved by:

  
\_\_\_\_\_  
Paul L. Bristol, P.G.  
Groundwater Quality Section  
Bureau of Water

cc: Trident District EQC

Li 3.15.99



**TETRA TECH NUS, INC.**

1311 Executive Center Drive, Ellis Building. ■ Suite 220 ■ Tallahassee, FL 32031  
(850) 656-5458 ■ FAX (850) 656-7403 ■ www.tetrattech.com

TTNUS/TAL-99-019/0164/3.2

5 March, 1999

Project Number 0164

Mr. Paul Bristol  
South Carolina Department of Health and Environmental Control  
Groundwater Quality Section  
Bureau of Water  
2600 Bull Street  
Columbia, South Carolina 29201-1708

Site #s 01206  
17755  
01118  
12094  
00946

Reference: Clean Contract No. N62467-94-D0888  
Contract Task Order No. 0093

Subject: Site Assessment Plan for  
Charleston Naval Complex - Zone C  
Charleston, South Carolina

Dear Mr. Bristol:

On behalf of the Department of the Navy, Southern Division, Naval Facilities Engineering Command, Tetra Tech NUS, Inc. is pleased to submit for your review and approval, the Site Assessment Plan for the referenced zone at the Charleston Naval Complex.

If you have any questions regarding this plan or require further information, please contact me at (850) 656-5458.

Very truly yours,

Paul E. Calligan, P.G.  
Task Order Manager

/pc

Enclosures (1)

- c: Mr. Gabriel Magwood, SOUTHDIV
- Ms. D. Wroblewski, TtNUS (w/o enclosure)
- Ms. R. Baur, TtNUS (w/o enclosure)
- Mr. A. Kendrick, TtNUS
- file

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MAR 11 1999  
Water Monitoring, Assessment &  
Protection Division



28 February 2000

2600 Bull Street  
Columbia, SC 29201-1708

COMMISSIONER:  
Douglas E. Bryant

Department of the Navy  
Southern Division NFEC  
P.O. Box 190010  
North Charleston, SC 29419-9010  
Attention: Mr. Gabriel Magwood

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Howard L. Brilliant, MD

Brian K. Smith

Rodney L. Grandy

Larry R. Chewning, Jr., DMD

Re: Final Assessment Report dated 26 January 2000  
Zone C/Site 29-Building NH 46 (Site Identification # 17755)  
Charleston Naval Complex/Charleston Naval Base  
Charleston, SC  
Charleston County

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides a narrative and summary of previous assessment activities and analytical results from additional sampling conducted to establish the environmental fate of suspected contamination at the subject property. Analytical results provided indicate that concentrations of PAH and VOC compound(s) were reported in soil and groundwater samples obtained at the subject site. The reported concentrations exceed the RBSL (Risk-Based Screening Levels, SCDHEC *Risk-Based Corrective Action for Petroleum Releases*, 5 January 1998), proposed RBC (Risk-Based Concentrations for Residential Soils, EPA Region III Risk-Based Concentrations Table, 12 April 1999) and established groundwater MCLs (maximum contaminant levels) and/or established health advisories. Available analytical data and applied interpretations appear to indicate that a reasonable delineation and characterization of the extent and severity of soil and groundwater contamination have been developed for the Building NH 46 site. This information and data were then utilized to develop SSTL (site specific target levels) for CoC (contaminants of concern) in evidential discussion(s) for consideration of employing active remediation (groundwater) at the subject site.

With consideration to the above, the author concurs with the proposal for corrective actions at the referenced site. The facility should develop an appropriate CAP (corrective action plan), including proposed sampling and reporting schedule. A schedule for development of the requested CAP should be submitted to my attention by 31 March 2000. Should you have any questions please contact me at (803) 898-3559.