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NCBC GULFPORT
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FIELD AUTHORIZATION MEMORANDUM ADDITIONAL GROUNDWATER, SEDIMENT AND
SURFACE WATER SAMPLING PLAN FOR THE OFFBASE AREA OF CONCERN
BROWNFIELDS AREA NCBC GULFPORT MS
10/8/2004
TETRA TECH

TTNUS/TLH-04-058/9409-4.0

October 8, 2004

Project Number 9409

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Art Conrad (Code ES32)
Remedial Project Manager
2155 Eagle Drive
North Charleston, SC 29409-9010

Reference: Clean Contract No. N62467-94-D-0888
Contract Task Order No. 0327

Subject: Field Authorization Memorandum
Additional Groundwater, Sediment, and
Surface Water Sampling Plan for the
Offbase Area of Concern (Brownfields Area)
NCBC Gulfport, Gulfport Mississippi

Dear Mr. Conrad:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the subject Field Authorization Memorandum for the referenced Contract Task Order (CTO).

INTRODUCTION

This Field Authorization Memorandum summarizes the fieldwork required to complete the multi-media sampling investigation within the Offbase Area of Contamination (OAOC) in support of the Ecological Risk Assessment as determined by the Tier 1 Partnering Team. Approval of this Memorandum will be required before field activities can begin.

While deposition of dioxin-contaminated soil and sediment from Site 8 (via the base drainage system) has long been considered the primary contaminant and media of concern, OAOC site specific sampling has not been completed as it was beyond the scope of the original remedial investigation. This complementary investigation will collect data for the purpose of examining other potential contaminant/media of concern in support of the Ecological Risk Assessment and Site Specific assessment reports (e.g. Brownfield Site Characterization Report).

PROPOSED ACTIVITIES

- Two new piezometers, at locations WG02 and WG06, will be installed as shown on the attached Figure. Previous dioxin sampling revealed location WG02 to have a TEQ of 70.2 parts per quadrillion (ppq) (the screening level exists at 30 ppq) and location WG06 to have a TEQ of 22.4 ppq (WG06 has been historically close to 30 ppq). These two new piezometers, along with 4 existing piezometers, will be sampled for a full suite (plus dioxin).

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- Ten sediment/soil samples will be collected and analyzed for a full suite (minus dioxin) (Figure 1). These will be collected to more fully define the extent of contamination, if any, from contaminant other than dioxin.
- Two surface water samples will be collected and analyzed for a full suite (plus dioxin). Extended periods of drier weather can result in little or no standing surface water, therefore these samples may not be available.
- The fieldwork includes the surveying of each piezometer and sample location by a state-licensed surveyor.

ANALYTICAL PARAMETERS

All samples will be analyzed for the following parameters: Target Compound List (TCL) Volatiles, Semivolatiles, Pesticides, Polychlorinated biphenyls (PCBs), Target Analytical List (TAL) Metals, Cyanide, Chlorinated Herbicides, Organic Carbon and Dioxin (except in soil/sediment samples).

REPORTING

All data collected herein will be incorporated into the re-issued Draft Ecological Risk Assessment. A full evaluation of contaminants of concern and media of concern will be addressed in that document, including a revised Site Conceptual Model. The laboratory turnaround time for all analysis is 28 days. All data will be subjected to full validation. The data will be assessed using precision, accuracy, representativeness, completeness and comparability (PARCC) parameters using the National Validation Functional Guidelines for Organic Data Review (June 1991), the Laboratory Data Validation Functional Guidelines for Evaluation of Inorganic Analysis (June 1988), and TtNUS Standard Operating Procedures.

If you have any comments or concerns, please contact me by phone at (850)385-9899, or via email at fisherr@ttnus.com.

Sincerely,

Robert Fisher, PG
Task Order Manager

/rf

Attachment (Figure 1)

c: Bob Merrill, MDEQ
Gordon Crane, NCBC
Debbie Wroblewski (Cover Letter Only)
Mark Perry/File (Unbound)