

Baker

5/8/03 - 3261

Michael Baker Jr., Inc.

A Unit of Michael Baker Corporation

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May 8, 2003

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Bldg. N-26)
Norfolk, VA 23511-2699

Attn: Mr. Kirk Stevens, P.E.
Navy Technical Representative
Code EV23-KAS

Re: Contract N62470-95-D-6007
Navy CLEAN, District III
Contract Task Order (CTO) 0253
Final Technology Evaluation
Operable Unit 21 (Site 73)
Marine Corps Base, Camp Lejeune, North Carolina

Dear Mr. Stevens:

Michael Baker Jr., Inc. (Baker) is pleased to submit one unbound copy of the Final Technology Evaluation for Operable Unit 21 (Site 73), Marine Corps Base (MCB), Camp Lejeune, North Carolina. As discussed at the April 2003 Partnering Meeting, the report can be issued final and there were no significant comments that changed the content of the report. Accordingly, sticker replacements have been prepared for the cover page ("Final" and the date) since the draft was a spiral bound report. Copies of the replacement stickers have also been forwarded to members of the Partnering Team as listed below.

Comments were received from Mr. Daniel Hood of LANTDIV and Mr. Rick Raines of Camp Lejeune regarding qualification issues with reduction of contaminants in the source area through the pilot study. A modeling exercise was performed as part of the Draft Technology Evaluation to determine if 1) a reduction in source concentrations or 2) enhancement of the biodegradation process would be more effective in the Castle Hayne at Site 73. As such, some assumptions as to the initial concentrations resulting from a source reduction scenario had to be made. The first assumption was that the source was reduced to 1,000 ug/L over the entire 1,000 ug/L contour area, keeping in mind that the concentration in the middle of this contour was 4,600 ug/L. This would represent a reduction from 4,600 ug/L in the middle of the hot spot to 1,000 ug/L, a reduction of 78 percent at this location. In the second source reduction scenario, the concentration was assumed to be reduced to 100 ug/L over the entire 100 ug/L contour (a larger area). This reduction would represent a 98 percent reduction from the 4,600 ug/L in the middle of the hot spot. The second scenario is believed to be unrealistic for a remedial technology, but was modeled for illustrative purposes.

Challenge Us.

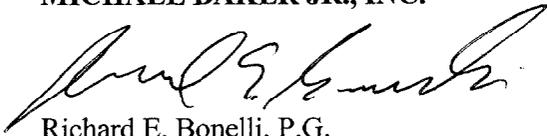
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Mr. Kirk Stevens, P.E.
Navy Technical Representative
LANTDIV
May 8, 2003
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Baker appreciates the opportunity to serve LANTDIV on this important project. Should you have any questions regarding this submittal, please contact me at 412-269-2033.

Sincerely,

MICHAEL BAKER JR., INC.



Richard E. Bonelli, P.G.
Activity Manager

pcl
Attachments

cc: Ms. Ollie Glodis, LANTDIV, Code AQ116 (w/o attachments)
Mr. Daniel Hood, Code EV23 (letter only)
Mr. Rick Raines, MCB, Camp Lejeune (one copy)
Mr. Thomas Burton, MCB Camp Lejeune (one copy)
Ms. Gena Townsend, EPA (one copy)
Mr. Randy McElveen, NC DENR (one copy)
Ms. Diane Rossi, NC DENR (one only)
Mr. Scott Bailey, CH2M Hill (one copy)
Mr. Chris Bozzini, CH2M Hill, (one copy)
Mr. Ron Kenyon, Shaw Environmental (one copy)