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LETTER REGARDING REGULATORY REVIEW AND APPROVAL OF FINAL
GROUNDWATER TREATABILITY STUDY IN SITU CHEMICAL OXIDATION PILOT STUDY
USING POTASSIUM PERMANGANATE AT OPERABLE UNIT 4 (OU 4) NTC ORLANDO FL
5/4/2001
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jeb Bush
Governor

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Department of Environmental Protection

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

May 4, 2001

Mr. Wayne Hansel
Code 18B7
Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-0068

RE: Final Groundwater Treatability Studies Report, In-Situ
Chemical Oxidation Pilot Study Using Potassium Permanganate,
Operable Unit 4, Area C, Naval Training Center, Orlando,
Florida

Dear Mr. Hansel:

The Department has completed its review of the Final Groundwater Treatability Studies Report, In-Situ Chemical Oxidation Pilot Study Using Potassium Permanganate, Operable Unit 4, Area C, Naval Training Center Orlando, dated February 2001 (received March 2, 2001), prepared and submitted by Harding Lawson Associates. The document is adequate for its intent and is accepted as final. I have attached a memorandum from Greg Brown, P.E., with his comments concerning the use of this technology.

If I can be of any further assistance with this matter, please contact me at (850)488-3693.

Sincerely,

David P. Grabka
Remedial Project Manager

cc: Barbara Nwokike, Navy SouthDiv
Nancy Rodriguez, USEPA Region 4
Richard Allen, HLA, Jacksonville
Steve McCoy, Tetra Tech NUS, Oak Ridge
Steve Tsangaris, CH2M Hill, Tampa
Bill Bostwick, FDEP Central District

TJB

JJC

ESN

Memorandum

Florida Department of
Environmental Protection

TO: David Grabka, Remedial Project Manager, Technical Review Section

THROUGH: Tim Bahr, P.G., Supervisor, Technical Review Section *TB*

FROM: Greg Brown, P.E., Professional Engineer II, Technical Review Section *TB*

DATE: April 9, 2001

SUBJECT: Final Groundwater Treatability Studies, In-Situ Chemical Oxidation Pilot Study Using Potassium Permanganate, Operable Unit 4, Naval Training Center Orlando, Florida.

I reviewed the subject engineering document dated February 2001 (received March 2, 2001). I recently reviewed the final Feasibility Study for Operable Unit 4, dated February 2001 (received February 12, 2001), where this technology was also described and analyzed in the context of final remedy selection. I approved the Feasibility Study in a memorandum dated April 6, 2001. Dr. Willard R. Murray, Ph.D., P.E., Florida licensed Professional Engineer No. 39866, is identified as the engineer of record for the subject pilot study. The subject engineering document is adequate for its intent. If this technology is applied at full scale as part of a final remedy, the monitoring plan must include the UIC variance conditions of a zone of discharge (ZOD) of 100 feet or less and a ZOD duration of 1 year or less. Call me at (850) 488-3935 if you have questions.

Gregory M. Brown
Gregory M. Brown, P.E.
Professional Engineer No. 42194
Expires February 28, 2003

Apr 9, 2001
Date