



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

N00164.AR.000340
NSWC CRANE
5090.3a

MAY 23 1998

REPLY TO THE ATTENTION OF:

Certified Mail # P 993 304 432
Return Receipt Requested

DW-8J

Department of the Navy
Commander
Attn: Mr. James Hunsicker B-3260
NAVSURFWARCENDIV
300 Highway 361
Crane, Indiana 47522-5001

Re: Bioremediation Facility
IN5 170 023 498

Dear Mr. Hunsicker:

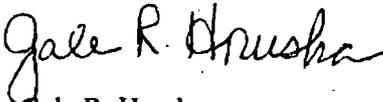
The United States Environmental Protection Agency (U.S. EPA) has reviewed your submissions, Full-Scale Operational Plan For Soils Bioremediation Facility - NSWC Crane, Crane, Indiana (dated March 1998) and Quality Assurance Project Plan For Full-Scale Operations at the Bioremediation Facility NSWC Crane, Crane, Indiana (Dated March 12, 1998). These documents are hereby approved, subject to the following conditions:

1. The documents are approved for all sites, however all revisions and amendments identified in the work plans must also be submitted. Of special importance is the submission of the SOP for pentaerythritol tetranitrate (PETN). The PETN SOP must be approved by the U.S. EPA before starting zero-day sampling. (The approval may be given verbally, with a hard copy subsequently forwarded.) A schedule for the submittal of the revisions and amendments must be submitted subsequent to your receipt of this letter.
2. The sample preparation/homogenization comparison demonstration planned for the first pile in the case of entry level compost and final day compost sample splits applies to both the Method 8330 analysis parameters and to PETN. Therefore, it may be necessary to collect extra samples or sample volumes, depending on the nature of the to-be-submitted SOP for PETN.
3. The Navy shall provide at least a two week notice to the U.S. EPA before commencing full-scale operations at the bioremediation facility. This notice may be FAXed, followed by a hard copy.
4. Samples from: (1) the full-scale waste pile (25% soil) [at the entry point and at the

end of the cycle], and (2) the smaller test pile (30% soil) [at intervals of 0, 7, 14, and 21 days, and at the end of the cycle] shall be submitted to a to-be-named-researcher. The details regarding this sample submission will be specified by the U.S. EPA prior to commencing full-scale operations at the facility.

I have enclosed original signed approval pages for the above documents with this letter. Please send back the originals of these pages when all signatures are obtained. If you have questions regarding this approval, please contact me at (312) 886-0989.

Sincerely,



Gale R. Hruska
Corrective Action Project Manager

Enclosures

cc: T. Linson, IDEM
S. Riddle, IDEM
Captain Shotts, NAVSURFWARCENDIV
Commander Smith, NAVSURFWARCENDIV
C. Freeman, NAVSURFWARCENDIV
V. Venkatesh, Morrison Knudsen Corp.
W. Gates, SOUTHNAVFACENGCOM
R. Wade, US Army Corps of Engineers