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NCBC GULFPORT
5090.3a

LETTER REGARDING EXPLANATION OF DATA PACKAGE AND REVALIDATION
CORRECTIONS SITE 6 NCBC GULFPORT MS

8/18/1994

ABB



39501 - IRP
01.01.06.0002

August 18, 1994

Commanding Officer
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, SC 29418

Attention: Mr. Marshall Knight

Subject: NCBC Site 6 Data Package and Validation Corrections

Dear Marshall:

Attached is a letter from Heartland Environmental Services, Inc. that explains some of the re-validation corrections that were made recently for the Site 6 data. This letter should help to clarify any changes that were made to the PARCCs that were enclosed with the data package recently forwarded to you. I have been unable to reach Gene Watson for any additional verifications that need to be made.

As you are aware, when ABB was advised of the pesticide issue, we requested that the laboratory rerun the sample analyses for these contaminants. These samples were re-collected last week during the groundwater collection event at Site 8. The results should be in our hands within 30 days.

Also included with this letter is a list of the modeling software currently in the hands of the associates in the Knoxville office. You had requested this list from me verbally a couple of weeks ago.

If you have any questions, please call me at (615) 531-1922.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.



Penny M. Baxter
Senior Project Manager

pc: file

[8505.028]

ABB Environmental Services, Inc.



HEARTLAND ENVIRONMENTAL SERVICES, INC.

6716 MEXICO ROAD • ST. PETERS, MO 63376
(314) 928-9533 • (314) 278-1828 • FAX (314) 278-2709

August 5, 1994

Ms. Penny Baxter
ABB Environmental Services, Inc.
1400 Center Point Blvd.
Suite 158
Knoxville, TN 37932

Dear Ms. Baxter,

Per our conversation August 4, 1994, please find below a brief summary of Heartland ESI's findings and resubmissions for the NCBC Gulfport data. These findings and conclusions are based on the additional information provided to us by the laboratory and ABB-ES.

1) Volatiles

Due to a misunderstanding of the sample IDs by Heartland ESI, rinseate blanks and field blanks were qualified based on rinseate blank contamination. Heartland ESI has corrected the error. The data validation report and PARCCs report reflect the correct qualifications and sample IDs.

2) Semivolatiles

Four (4) compounds in the MS/MSD exhibited recoveries less than 10% (three (3) of which were 0%). Heartland ESI qualified positive results as estimated (J) and rejected (R) non detect results in the associated sample GWG64. However, Heartland ESI did not qualify the duplicate sample, GWG64D, as required. In addition to the qualification and rejections of sample GWG64D, the PARCCs report will reflect the new rejections in the QA/QC section.

3) Pesticides/Aroclors

All non detect results for samples GWG64, GWG64D, GWG66 and GWG64MS/MSD were rejected (R) due to a lack of surrogate recoveries for decachlorobiphenyl (DCB). The samples were analyzed at a dilution of 1:5 and exhibited 0% recovery for DCB. The laboratory stated that the matrix (groundwater) was highly organic in nature and inhibited the recovery of the surrogate, DCB, due to matrix effects. However, a review of the

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SERVICES, INC.



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chromatograms and quantitation reports for these samples does not entirely support the laboratory's conclusion of matrix interference. First and foremost, the laboratory should have analyzed these samples without a dilution (1X) to determine if trace levels of pesticides and aroclors were present and if the surrogate could be recovered. Secondly, the laboratory should have re-extracted and reanalyzed the sample to determine if the lack of surrogate recoveries was due to matrix interference or laboratory error. Therefore, based on the information provided to us by the laboratory, Heartland ESI must stand by its original assessment of the data, rejection (R) of all non detect results.

4) Herbicides

All non detect results for sample GWG66 were rejected (R) due to a lack of surrogate recovery for 2,4-dichlorophenylacetic acid. The laboratory could not accurately quantitate the surrogate recovery on the primary column due to interferences, so a recovery was not reported. Heartland ESI contacted the laboratory and requested that the surrogate recovery be calculated from the confirmation column, DB-1701. A recovery of 92% was reported from the confirmation column. Therefore, due to the interferences noted on the primary column, all positive and non detect results are now qualified as estimated (J/UJ). In addition, the PARCCs report will be revised to reflect a new completion goal of 100% for the groundwater matrix.

I apologize for any inconveniences these resubmissions may cause. If you have any questions regarding the changes in the data validation reports or require clarification on any issue, please do not hesitate to contact me at (314)278-1828.

Sincerely,

HEARTLAND ENVIRONMENTAL SERVICES, INC.

Eugene M. Watson
Vice President

cc: PBH
files

PROJECT
MODELING SOFTWARE

COMP. BY
R.F.
CHK. BY

JOB NO.
DATE

OFFICE SOFTWARE

GEORGIATTY AND MILLER

- AGTESOLV
- QUICKFLOW

WATERLOO HYDROGEOLOGIC SOFTWARE

- FLOWPATH
- FLOWNET

USGS

- MODFLOW

SSP+A

- MT 3D

PERSONAL COPIES

KURT

- CAPZONE
- DREAM
- WHPA
- GWPATH

BOB

- PLASM
- GWPATH

LAURA

- QUICKFLOW
- MT 3D
- FLOWNET