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NWS EARLE
5090.3a



DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
PHILADELPHIA, PENNSYLVANIA 19112-5094

IN REPLY REFER TO

5090
Ser 1333/1421/GFH

AUG 12 1991

U. S. Environmental Protection Agency
Attn: Paul Ingrisano
J. Javits Federal Building
New York, NY 10278

Re: INSTALLATION RESTORATION PROJECT, NAVAL WEAPONS STATION
(NWS) EARLE, COLTS NECK, NJ

Dear Mr. Ingrisano:

Enclosed is a Remedial Investigation (RI) sampling matrix for additional groundwater sampling at the RI sites. This proposed additional sampling is based on the results of the initial RI sampling.

This work has been programmed for award in September which is the last month in our Fiscal Year. A two week review time is required to meet this goal. If you have questions or concerns during your review of the sampling matrix, please feel free to contact me immediately. I will be available to discuss the proposed RI groundwater sampling.

Also enclosed are RI site maps detailing the locations of the initial round of soil and sediment samples.

If you have any questions, please contact me at (215) 897-6432.

Sincerely,

A handwritten signature in cursive script that reads "Gerald F. Hoover".

Gerald F. Hoover
Remedial Project Manager
By direction of the Commanding Officer

Encl:
(1) RI Groundwater Sampling Matrix

Copy to:
NJDEP, Joseph Freudenberg
NWS Earle, Greg Goepfert

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Table 1

Phase III Remedial Investigation (RI) Sampling Matrix
 NWS Earle, Colts Neck, NJ. (Groundwater Sampling Round Two)

Site Number	Site Name	Number of Proposed Samples	Second Round Groundwater Analytes
2	Ordnance Demilitarization	7 7 3 (MW 2-1, 2-3 & 2-6)	Volatile organics Drinking water metals Explosives*
3	Landfill SW of F Group	7 7 7 3 (MW 3-4, 3-5 & 3-6)	Volatile organics Drinking water metals Typical landfill parameter Pesticide/BNAs
4	Landfill West of D Group	6 6 6	Volatile organics Drinking water metals Typical landfill parameters
5	Landfill West of Army Barricades	7 7 7	Volatile organics Drinking water metals Typical landfill parameters
7	Landfill south of P Baricades	5 5 5	Volatile organics Drinking water metals Typical landfill parameters

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Table 1
(continued)

Site Number	Site Name	Number of Proposed Samples	Second Round Groundwater Analytes
10	Scrap Metal Landfill Near Building 589	7 7 7	Volatile organics Drinking water metals Typical landfill parameters
11	Contract Ordnance Disposal Area (adjacent to Building S-34)	5 5	Volatile organics Drinking water metals
19	Paint Chip and Sludge Disposal Area	6 6	Volatile organics Drinking water metals
20	Blasting Grit Disposal Area (near Building 589)	NA	NA
22	Paint Chip Disposal Area	NA	NA
26	Explosive D Washout Area (adjacent to Building GB-1)	4 4 3 (MW 26-1, 26-2 & 26-4)	Volatile organics Drinking water metals Explosives

* Explosives compounds include nitrate/nitrite; picric acid; nitrocellulose; nitroglycerin; 2,4,6-trinitrotoluene; 2,4-dinitrotoluene; 2,6-dinitrotoluene; tetryl; 1,3,5-trinitrobenzene; 1,3-dinitrobenzene; HMX; and RDX.

QC (samples matrix spikes and duplicates) will be taken at a rate of 10 percent minimum per sampling event. Field blanks will be taken daily for each event.

Typical landfill parameters include ammonia, turbidity, COD, BOD, chlorides, phosphates, sulphates, nitrate/nitrites.

Table 2

**Summary of Analytical QC Requirements
for Round Two and Groundwater Sampling,
NWS Earle, Colts Neck, NJ**

Parameter	Sampling Points	MS/MSD	Duplicate Samples	Trip Blanks	Field Blanks	Total Number of Samples
*Explosives	6	2	1	0	2	10
Drinking water Metals	54	6	6	0	11	77
VOCs	54	6	6	11	11	88
BNAs	3	2	1	1	1	8
Pesticide	3	2	1	0	1	7
Typical Landfill Parameters	32	4	5	0	5	46

*Explosives require daily shipment.

Exact number of QC samples required may vary based on actual schedule and shipping conditions.

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