



Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221
October 26, 2001

ENTERED

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RECEIVED

Mr. Steve Zappe, Project Leader
New Mexico Environment Department
Hazardous Waste Bureau
2905 E. Rodeo Park Drive, Bldg. 1
Santa Fe, NM 87505

RE: Sample Location Maps

Dear Mr. Zappe:

The purpose of this letter is to provide New Mexico Environment Department (NMED) the sample location maps for the soil sampling conducted the week of August 20, 2001 from the four Solid Waste Management Units at the WIPP site. The sampling protocols and proposed sample locations were discussed during a conference call with NMED, CBFO, WTS and WTS sub-contractor participation on July 24, 2001. Following the July 24, 2001 conference call, DOE submitted a letter to NMED August 10, 2001, memorializing the agreements made, i.e., the proposed sample locations and sampling protocols. Sampling occurred during the week of August 20, 2001; Mr. Will Fetner of the NMED observed a portion of the field activities and requested copies of the enclosed sample location maps.

The purpose of the sampling was to delineate the vertical and horizontal extent of metal constituent concentrations above background. During the week of August 20, 2001 CBFO collected soil samples at the four SWMUs defined during the July 24, 2001 conference call. These sample locations are described below and the approximate sample locations are presented on the enclosed sketches.

001L WIPP 12 mudpit – Shallow and deep samples were collected at five locations; one deep sample was collected at a sixth location. Collected samples will be analyzed for barium.

001q DOE-1 mudpit – Shallow and deep samples were collected at five locations; one deep sample was collected at a sixth location. Collected samples will be analyzed for chromium, lead, and nickel.

001x WIPP-13 mudpit – Shallow and deep samples were collected at four locations; one deep sample was collected at a fifth location. Collected samples will be analyzed for barium, chromium, and lead.



004a Portacamp Storage Yard, West Side – Shallow and deep samples were collected at four locations; one deep sample was collected at each of three additional locations. Collected samples will be analyzed for chromium and nickel.

For each of the locations where only a deep sample was collected, CBFO used previous sample location sketches and reported measurements to define the August sample locations. There are some minor differences between the proposed and actual sample locations. Final sample locations were defined during the sampling activities based on: (1) accessibility of the sample location for the geoprobe vehicle, (2) observed physical boundaries of the SWMU (i.e., presence of plastic liner), and (3) physical appearance of collected samples. Some sample locations were moved because the sample collected from the planned location revealed the presence of a plastic liner and/or material that resembled drilling mud. For each location sampled, CBFO used a tape measure to measure the distance from a fixed point (e.g., borehole) to the sample location. In addition, CBFO used a hand-held Global Positioning System (GPS) unit to record approximate latitude and longitude for each sample location.

If you have any questions regarding this letter, please contact Mr. Jody Plum at (505) 234-7462.

Sincerely,



Dr. Inés R. Triay
Manager

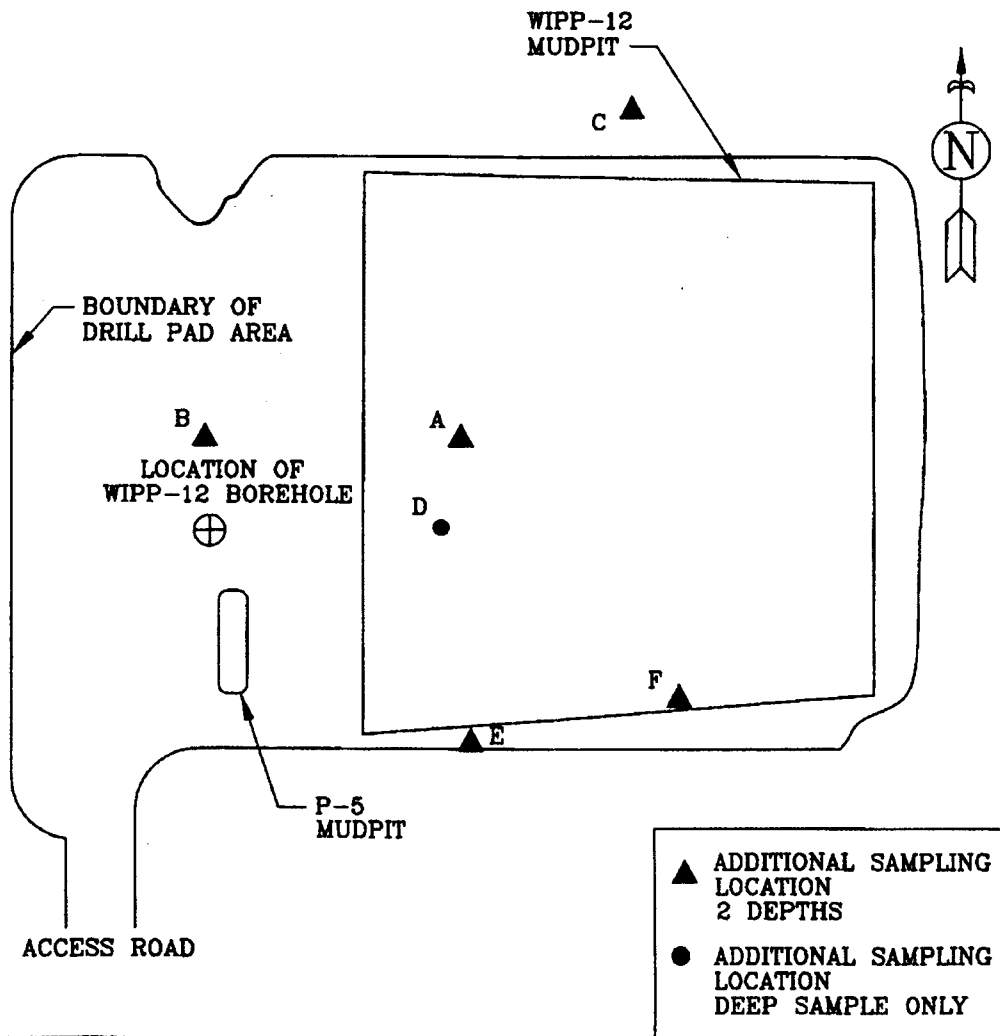
Enclosures

SAMPLE LOCATION MAP SWMU 001L (WIPP-12 & P-5)

8/21 - 8/22/01

Sample Location	Depth in.	CONCENTRATION, mg/kg Barium
A	3-27	1170
A DUP	3-27	1720
A	84-96	398
B	24-48	28.3
B	84-96	197
C	3-27	20.5
C	48-54	69.8
D	86-108	1450
E	3-27	17.1 B
E	48-54	222
F	12-36	426
F	72-84	83.6

B - Reported value is below the required detection limit, but above the instrument detection limit



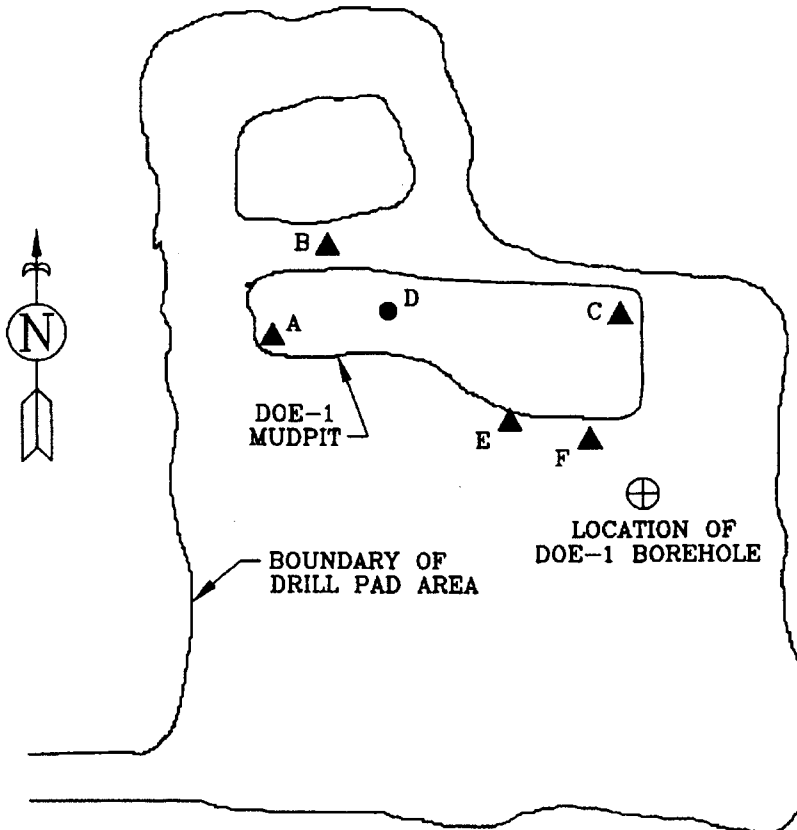
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RFA SAMPLE LOCATION MAP FOR SWMU 001q (DOE-1)

8/23/01

Sample Location	Depth in.	CONCENTRATION, mg/kg		
		Chromium	Lead	Nickel
A	24-48	6.5 N	3.9 *	4.3
A	84-96	3.1 N	3.2 *	4.8
B	24-48	3.7 N	1.8 *	1.7 B
B	84-96	4.5 N	2.6 *	5
C	24-48	9.5 N, J	32.2 *	2.9 B
C DUP	24-48	12.6 N	32.3 *	2.6 B
C	48-51	8.4 N	12.2 *	2.7 B
D	90-102	4.8 N	2.9 *	4 B
E	24-48	3.8 N	1.9 *	5
E	72-84	21.2 N	6.1 *	19.8
F	24-48	7.5 N	3.7 *	12.4
F	48-54	7.5 N	3.2 *	9.8

- * - Duplicate sample results not within laboratory control limits
- B - Reported value is below the required detection limit, but above the instrument detection limit
- J - Value qualified as estimated during data validation
- N - Results for associated matrix spike analysis not within laboratory limits



▲	ADDITIONAL SAMPLING LOCATION 2 DEPTHS
●	ADDITIONAL SAMPLING LOCATION DEEP SAMPLE ONLY

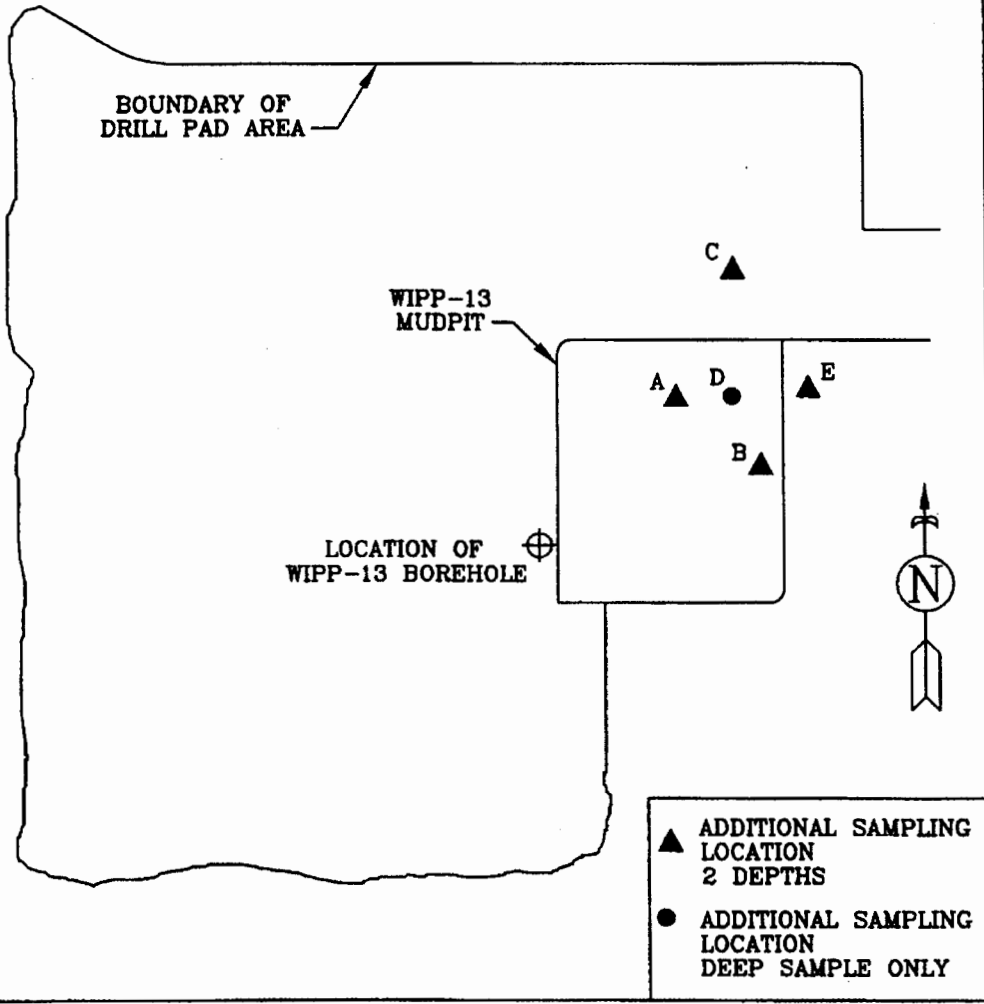
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SAMPLE LOCATION MAP SWMU 001x (WIPP-13)

8/20/01

Sample Location	Depth in.	CONCENTRATION, mg/kg		
		Barium	Chromium	Lead
A	6-30	1330	10.8 E*	7 *
A	84-96	29.6	9.1 E*	3.4 *
B	6-30	2230	13.4 E*	11 *
B DUP	6-30	1790	17.9 E*	15 *
B	84-96	31.5	7.1 E*	4.3 *
C	28-40	21.6	5.7 E*, J	2.4 *
C	96-108	106	2.9 E*	1.9 *
D	108-120	50.6	4.3 E*	2.7 *
E	6-30	16.1 B	4.7 E*	1.8 *
E	84-96	36	8.8 E*	4.5 *

- * - Duplicate sample results not within laboratory control limits
- B - Reported value is below the required detection limit, but above the instrument detection limit
- E - Result from serial dilution differs from original result by more than 10 percent
- J - Value qualified as estimated during data validation



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SAMPLE LOCATION MAP SWMU 004a (PORTACAMP STORAGE YARD)

8/22/01

Sample Location	Depth in.	CONCENTRATION, mg/kg	
		Chromium	Nickel
A	12-24	2.9 *N	1.5 B
A	72-84	5.7 *N	3.7 B
B	12-24	3.5 *N	1.9 B
B DUP	12-24	4.5 *N	2.2 B
B	72-84	4.1 *N	2.7 B
C	12-24	5 *N, J	2.5 B
C	72-84	6.7 *N	4.8
D1	72-84	7.3 *N	5.4
D2	72-84	6.7 *N	4.8
D3	72-84	5.7 *N	3.9 B
E	12-24	3.4 *N	1.6 B
E	72-84	4.5 *N	2.6 B

- * - Duplicate sample results not within laboratory control limits
- B - Reported value is below the required detection limit, but above the instrument detection limit
- J - Value qualified as estimated during data validation
- N - Results for associated matrix spike analysis not within laboratory limits

