

D I R E C T O R A T E O F E N V I R O N M E N T

M U L T I M E D I A C O M P L I A N C E D I V I S I O N

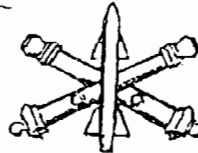
FAX: (915) 568-1333

TELEPHONE: (915) 568-6185/1064/1041

Date: 5/29/97NUMBER OF PAGES (including header) 11 ENTEREDFROM: Jim Stefanov /PHONE: 915-568-4979TO: Steve PullenNMEOFAX: 505-827-1544COMMENTS: Steve,

Greetings! Hope all is going well. Sorry it has taken so long for me to respond on the IOW for the recent RFI's. Values have now been compared to EPA Region III Risk-based concentrations. With the exception of one drum, we would like to dispose of the waste at each SWMU. Please review as soon as possible and let me know if you approve. Thanks!

Regards,
Jim



U S ARMY AIR DEFENSE
ARTILLERY CENTER
& FORT BLISS



SUITE 460
70 N.E. LOOP 410
SAN ANTONIO, TEXAS 78216
PHONE (210) 342-7810
FAX: (210) 342-3867

15 May 1997

Mr. Jim Stefanov
Fort Bliss DOE
Building 515B
El Paso, TX 79916

RE: Investigation Derived Waste
Disposal Recommendations
Fort Bliss RFI

Dear Jim:

Please find attached an updated IDW tracking form containing a listing of all the drums generated during the RFI. In reference to the request by the New Mexico Environment Department (NMED), a toxicity characterization for each drum is difficult without additional sampling of the drummed material. Instead, the results of soil and water samples collected from the drum generation location has been summarized in the attached tracking form. It is believed that these results conservatively represent the material within each respective drum. The soil results have then been compared to EPA Region III Risk-Based Concentrations and the water results have been compared to EPA established Maximum Contaminant Levels (MCLs) to indirectly evaluate the toxicity characteristics of the material in each drum. It should be noted that the more stringent Residential Soil Ingestion Scenario has been used for evaluating the soil results even though the generation sites could be classified as industrial.

As shown in the attached tracking form, the analytical results representing the IDW fall below the soil and water screening levels with the exception of one drum. Drum No. 62 contains presample purge water from monitoring well MW1901 and the associated groundwater sample was reported to contain total lead slightly above the MCL. With this exception, it is recommended to dispose of the soil and water IDW at each SWMU. For Drum No. 62, an option for disposal is to transport the drum and contents to the Fort Bliss Wastewater Treatment Plant for processing.



Mr. Jim Stefanov
15 May 1997
Page 2

I hope this information is useful to you and satisfies the request made by NMED. Upon review, please call me and we can discuss further or pursue other methods of characterization as needed.

Very truly yours,

Roy F. Weston, Inc.

A handwritten signature in black ink that reads "Greg S. Braddy". The signature is written in a cursive style.

Greg S. Braddy, P.G
Project Manager

Attachment

Disposc at
FB POTW

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM

DISPOSAL RECOMMENDATIONS FORT BLISS RFI FORT BLISS, TEXAS

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
1	SOIL	10/23/96	30 gal	1215 10/23/96	SWMU 25B SB25B08	ND	NA	Dispose of drum contents at site.
2	SOIL	10/22/96	30 gal	1315 10/23/96	SWMU 25B SB25B11	ND	NA	Dispose of drum contents at site.
3	SOIL	10/25/96	55 gal	1700 10/25/96	SWMU 19 SB1902	Barium-1440 mg/kg	5500 mg/kg ²	Dispose of drum contents at site.
4	SOIL	10/26/96	55 gal	0800 10/26/96	SWMU 19 SB1902	Barium-1440 mg/kg	5500 mg/kg ²	Dispose of drum contents at site.
5	SOIL	10/26/96	55 gal	1300 10/26/96	SWMU 19 SB1903	ND	NA	Dispose of drum contents at site.
6	SOIL	10/26/96	55 gal	1300 10/26/96	SWMU 19 SB1903	ND	NA	Dispose of drum contents at site.
7	SOIL	10/26/96	55 gal	1700 10/26/96	SWMU 19 SB1904	Acetone-0.010 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
8	SOIL	10/26/96	55 gal	1700 10/26/96	SWMU 19 SB1904	Acetone-0.010 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
9	SOIL	10/27/96	55 gal	1500 10/27/96	SWMU 19 SB1910	ND	NA	Dispose of drum contents at site.
10	SOIL	10/27/96	55 gal	1800 10/27/96	SWMU 19 SB1905	Acetone-0.028 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
11	SOIL	10/28/96	55 gal	1250 10/29/96	SWMU 19 SB1909	Barium-1110 mg/kg	5500 mg/kg ²	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
12	SOIL	10/28/96	55 gal	1250 10/29/96	SWMU 19 SB1909	Barium-1110 mg/kg	NA	Dispose of drum contents at site.
13	DECON WATER	10/30/96	55 gal	1700 10/30/96	SWMU 19	Maximum concentration of soil boring samples collected from 10/23/96 to 10/30/96	NA	Dispose of drum contents at site.
14	SOIL	10/29/96	55 gal	1000 10/30/96	SWMU 19 SB1908	bis(2-Ethylhexyl)phthalate-0.38 mg/kg Selenium-0.19 mg/kg	46 mg/kg ² 390 mg/kg ²	Dispose of drum contents at site.
15	SOIL	10/29/96	55 gal	1000 10/30/96	SWMU 19 SB1908	bis(2-Ethylhexyl)phthalate-0.38 mg/kg Selenium-0.19 mg/kg	46 mg/kg ² 390 mg/kg ²	Dispose of drum contents at site.
16	SOIL	10/31/96	55 gal	1300 10/31/96	SWMU 19 SB1906	4, 4'-DDD-0.011 mg/kg 4, 4'-DDE-0.0018 mg/kg gamma Chlordane-0.0013 mg/kg alpha Chlordane-0.0017 mg/kg Mercury-0.06 mg/kg Selenium-0.47 mg/kg	2.7 mg/kg ² 1.9 mg/kg ² 0.49 mg/kg ² 0.49 mg/kg ² 23 mg/kg ² 390 mg/kg ²	Dispose of drum contents at site.
17	SOIL	10/31/96	55 gal	1300 10/31/96	SWMU 19 SB1906	4, 4'-DDD-0.011 mg/kg 4, 4'-DDE-0.018 mg/kg gamma Chlordane-0.0013 mg/kg alpha Chlordane-0.0017 mg/kg Mercury-0.06 mg/kg Selenium-0.47 mg/kg	2.7 mg/kg ² 1.9 mg/kg ² 0.49 mg/kg ² 0.49 mg/kg ² 23 mg/kg ² 390 mg/kg ²	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
18	SOIL	11/5/96	55 gal	1100 11/5/96	SWMU 76 SB7609	Acetone-0.011 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
19	SOIL	11/6/96	55 gal	1200 11/6/96	SWMU 76 SB7608	ND	NA	Dispose of drum contents at site.
20	SOIL	11/6/96	55 gal	1200 11/6/96	SWMU 76 SB7608	ND	NA	Dispose of drum contents at site.
21	SOIL	11/6/96	55 gal	1630 11/6/96	SWMU 76 SB7607	ND	NA	Dispose of drum contents at site.
22	SOIL	11/6/96	55 gal	1630 11/6/96	SWMU 76 SB7607	ND	NA	Dispose of drum contents at site.
23	SOIL	11/7/96	55 gal	1200 11/7/96	SWMU 76 SB7601	ND	NA	Dispose of drum contents at site.
24	SOIL	11/7/96	55 gal	1200 11/7/96	SWMU 76 SB7601	ND	NA	Dispose of drum contents at site.
25	SOIL	11/7/96	55 gal	1630 11/7/96	SWMU 76 SB7602	ND	NA	Dispose of drum contents at site.
26	SOIL	11/7/96	55 gal	1630 11/7/96	SWMU 76 SB7602	ND	NA	Dispose of drum contents at site.
27	SOIL	11/8/96	55 gal	1300 11/8/96	SWMU 76 SB7604	ND	NA	Dispose of drum contents at site.
28	SOIL	11/8/96	55 gal	1300 11/8/96	SWMU 76 SB7604	ND	NA	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
29	SOIL	11/8/96	55 gal	1630 11/8/96	SWMU 76 SB7605	ND	NA	Dispose of drum contents at site.
30	SOIL	11/8/96	55 gal	1630 11/8/96	SWMU 76 SB7605	ND	NA	Dispose of drum contents at site.
31	SOIL	11/9/96	55 gal	1800 11/9/96	SWMU 19 SB1907	Acetone-0.016 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
32	SOIL	11/9/96	55 gal	1800 11/9/96	SWMU 19 SB1907	Acetone-0.016 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
33	SOIL	11/9/96	55 gal	1800 11/9/96	SWMU 19 SB1907	Acetone-0.016 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
34	SOIL	11/9/96	55 gal	1800 11/9/96	SWMU 19 SB1907	Acetone-0.016 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.
35	DECON WATER	11/10/96	55 gal	1200 11/10/96	SWMU 19 SB1907	Maximum concentrations from soil boring samples collected from 10/30/96 to 11/10/96	NA	Dispose of drum contents at site.
36	SOIL	11/10/96	55 gal	1200 11/10/96	SWMU 19 SB1907	Acetone-0.016 mg/kg	7800 mg/kg ²	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.
² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion
³ Maximum Contaminant Level for Drinking Water
 ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.
 NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
37	SOIL	11/10/96	55 gal	1600 11/11/96	SWMU 19 SB1901	4, 4'-DDD-0.072 mg/kg 4,4'-DDE-0.063 mg/kg Aroclor 1254-0.063 mg/kg Cadmium-1.7 mg/kg Lead-43.3 mg/kg Mercury-1.6 mg/kg Selenium-1.1 mg/kg Silver-3.8 mg/kg	2.7 mg/kg ² 1.9 mg/kg ² 1.6 mg/kg ² 39 mg/kg ³ 23 mg/kg ² 390 mg/kg ² 390 mg/kg ²	Dispose of drum contents at site.
38	SOIL	11/12/96	55 gal	0845 11/12/96	SWMU 76 SB7606	ND	NA	Dispose of drum contents at site.
39	SOIL	11/12/96	55 gal	1630 11/12/96	SWMU 27B SB27B03	ND	NA	Dispose of drum contents at site.
40	SOIL	11/13/96	55 gal	1630 11/13/96	SWMU 27B SB27B01	ND	NA	Dispose of drum contents at site.
41	SOIL	11/13/96	55 gal	1700 11/13/96	SWMU 27B SB27B04	ND	NA	Dispose of drum contents at site.
42	SOIL	11/14/96	55 gal	0900 11/14/96	SWMU 27B SB27B06	ND	NA	Dispose of drum contents at site.
43	SOIL	11/14/96	55 gal	1300 11/14/96	SWMU 27B SB27B05	Trichloroethene-0.006 ug/kg	58 mg/kg ²	Dispose of drum contents at site.
44	SOIL	11/14/96	55 gal	1600 11/14/96	SWMU 27B SB27B07	ND	NA	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
45	SOIL	11/18/96	55 gal	1000 11/18/96	SWMU 27B SB27B02	bis(2-Ethylhexyl)phthalate-2.4 mg/kg Cadmium-3.3 mg/kg Selenium-1.3 mg/kg TPH-496 mg/kg	46 mg/kg ² 39 mg/kg ² 390 mg/kg ² Not available	Dispose of drum contents at site.
46	SOIL	11/18/96	55 gal	1300 11/18/96	SWMU 27B SB27B08	4, 4' DDD-0.066 mg/kg 4, 4' DDE-0.140 mg/kg alpha Chlordane-0.53 mg/kg gamma Chlordane-0.58 mg/kg Cadmium-1.4 mg/kg Mercury-0.08 mg/kg	2.7 mg/kg ² 1.9 mg/kg ² 49 mg/kg ² 49 mg/kg ² 39 mg/kg ² 23 mg/kg ²	Dispose of drum contents at site.
47	SOIL	11/20/96	55 gal	1700 11/20/96	SWMU 76 SB7603	ND	NA	Dispose of drum contents at site.
48	SOIL	11/23/96	55 gal	1000 11/23/96	SWMU 25B SB25B10	ND	NA	Dispose of drum contents at site.
49	SOIL	11/23/96	55 gal	1400 11/23/96	SWMU 25B SB25B04	ND	NA	Dispose of drum contents at site.
50	SOIL	11/24/96	55 gal	1230 11/24/96	SWMU 76 MW7601	ND	NA	Dispose of drum contents at site.
51	SOIL	11/24/96	55 gal	1230 11/24/96	SWMU 76 MW7601	ND	NA	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

**DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS**

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
52	DECON WATER	11/24/96	55 gal	1600 11/24/96	SWMU 76	Maximum concentrations from soil boring samples collected from 11/10/96 to 11/24/96	NA	Dispose of drum contents at site.
53	DECON WATER	11/24/96	55 gal	1600 11/24/96	SWMU 76	Maximum concentrations from soil boring samples collected from 11/10/96 to 11/24/96	NA	Dispose of drum contents at site.
54	SOIL	11/26/96	55 gal	1115 11/26/96	SWMU 19 MW1901	ND	NA	Dispose of drum contents at site.
55	SOIL	11/26/96	55 gal	1115 11/26/96	SWMU 19 MW1901	ND	NA	Dispose of drum contents at site.
56	SOIL	11/26/96	55 gal	1115 11/26/96	SWMU 19 MW1901	ND	NA	Dispose of drum contents at site.
57	SOIL	12/4/96	55 gal	1300 12/4/96	SWMU 19 MW1903	ND	NA	Dispose of drum contents at site.
58	SOIL	12/4/96	55 gal	1300 12/4/96	SWMU 19 MW1903	ND	NA	Dispose of drum contents at site.
59	SOIL	12/4/96	55 gal	1300 12/4/96	SWMU 19 MW1903	ND	NA	Dispose of drum contents at site.
60	GROUND WATER	12/8/96	55 gal	1200 12/11/96	SWMU 19 MW1903	TPH-0.60 mg/L	Not Available	Dispose of drum contents at site.
61	GROUND WATER	12/11/96	40 gal	1000 12/11/96	SWMU 19 MW1902	TPH-0.82 mg/L	Not Available	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.

INVESTIGATION-DERIVED WASTE (IDW) TRACKING FORM (Continued)

DISPOSAL RECOMMENDATIONS
FORT BLISS RFI
FORT BLISS, TEXAS

Drum Number	Media	Date Generated	Volume	Central Staging		Analytical Results ¹	Soil and Water Screening Concentrations	Disposal Recommendation
				Time/Date	Location			
62	GROUND WATER	12/11/96	30 gal	1100 12/11/96	SWMU 19 MW1901	Lead-0.026 mg/L TPH-0.84 mg/L	0.015 mg/L ³	Dispose at FB POTW
63	GROUND WATER	12/11/96	40 gal	1330 12/11/96	SWMU 76 MW7603	TPH-0.46 mg/L	Not Available	Dispose of drum contents at site.
64	GROUND WATER	12/11/96	40 gal	1245 12/11/96	SWMU 76 MW7601	TPH-0.59 mg/L	Not Available	Dispose of drum contents at site.
65	GROUND WATER	12/11/96	40 gal	12/11/96	SWMU 76 MW7604	TPH-0.50 mg/L	NA	Dispose of drum contents at site.
66	SOIL	4/1/97	55 gal	1515 4/1/97	SWMU 25B SB25B03	4,4-DDE-0.0054 mg/kg	1.9 mg/kg ²	Dispose of drum contents at site.
67	SOIL	4/2/97	55 gal	1100 4/2/97	SWMU 25B SB25B05	ND	NA	Dispose of drum contents at site.
68	SOIL	4/2/97	55 gal	1400 4/2/97	SWMU 25B SB25B07	ND	NA	Dispose of drum contents at site.
69	SOIL	4/2/97	55 gal	1730 4/2/97	SWMU 25B SB25B06	ND	NA	Dispose of drum contents at site.
70	SOIL	4/3/97	55 gal	1100 4/3/97	SWMU 25B SB25B01	ND	NA	Dispose of drum contents at site.
71	SOIL	4/3/97	55 gal	1400 4/3/97	SWMU 25B SB25B02	ND	NA	Dispose of drum contents at site.
72	SOIL	4/3/97	55 gal	1830 4/3/97	SWMU 25B SB25B09	ND	NA	Dispose of drum contents at site.

¹ Results from soil and water samples associated with the respective location where the IDW was generated.

² EPA Region III Risk-Based Soil Concentration for Residential Soil Ingestion

³ Maximum Contaminant Level for Drinking Water

ND - No constituents were detected above background for inorganics and above the analytical reporting limit for organics.

NA - Not applicable.