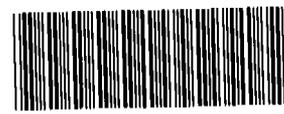


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**Rocky Mountain  
Remediation Services, L.L.C.**  
... protecting the environment

**INTEROFFICE  
MEMORANDUM**

**DATE:** February 16, 1996  
**TO:** R. J. Molter, Regulated Waste Operations, T130B, X2808  
**FROM:** M. D. O'Rell, ER Accelerated Actions, Bldg. T893B, X5671 *M. O'Rell*  
**SUBJECT:** REQUEST FOR RWO SUPPORT REGARDING WASTE ISSUES  
PERTAINING TO INDIVIDUAL HAZARDOUS SUBSTANCE SITE (IHSS) 129 –  
MDO-001-96

The purpose of this memorandum is to request Regulated Waste Operations (RWO) services regarding the waste that will be generated from decommissioning fuel oil storage Tank #4 located in IHSS 129 at the Steam Plant, Building 443. (See Attachment 1, "Summary of Highest Concentrations from Samples of Contents of Tanks #3 and #4" for hazardous constituents.)

Tanks #1 and #2 contain only fuel oil for consumptive use in the boiler burners located in the steam plant. Due to recent fiscal year 1996 budget reductions, the scope of work for IHSS 129 has been reduced to decommission only Tank #4. No further action will be pursued regarding Tanks #1 and #2. Tanks #3 and #4 primarily contain water with an oil/sludge mixture consisting of Resource Conservation and Recovery Act f-listed hazardous constituents. (See Attachment 2, "Dip-Stick Test Results of Tanks at Building 443" for volume estimates.)

The current scope of work for IHSS 129 includes the following activities: remove contents from tank, rinse the tank to remove bulk contamination, process the removed contents through an oil/water separator, treat the water phase at the Sitewide Treatment Facility (Bldg. 891), package and ship the oil phase to an approved off-site treatment facility, fill the tank with an inert material, and install caps or blind flanges on abandoned piping. There is a remote possibility that Tank #3 may also be decommissioned this fiscal year if additional funding becomes available.

Please plan to provide the necessary guidance and support personnel to disposition this waste (e.g., appropriate waste containers, offsite treatment/disposal facilities). This work is scheduled to be performed starting in May, 1996 through July, 1996. Contact me or Wayne Sproles at extension 5790 or pager 1245 if you have any questions or need additional information.

jm

**Attachments:**  
As Stated (2)

**cc:**  
W. R. Sproles  
A. M. Tyson  
ER Records Center (2)



**ADMIN RECCRD**

IA-A-000678

1/5

Summary of Highest Concentrations from Samples of Contents of Tanks #3 and #4  
Collected in the Fall of 1994

CONSTITUENT	LIQUID FROM TANK #3 (mg/L) (samples #07001, 07002)	LIQUID FROM TANK #4 (mg/L) (samples #07201, 07202)
Acetone	1.6	0.091 J
1,1-Dichloroethene	ND	0.210 J
1,1-Dichloroethane	ND	0.056 J
1,1,1- Trichloroethane (TCA)	ND	0.65
4-Methyl-2-Pentanone	0.19 J	ND
Tetrachloroethene	ND	1.9
Xylene (total)	0.027 J	ND
Trichlorofluoromethane (TCFM)	ND	0.66

2

Summary of Samples of Contents of Tank #4 and Liquid in the Fence Post Hole  
Collected on March 7, 1986

CONSTITUENT	OIL-PHASE LIQUID FROM TANK #4 (mg/L)	WATER-PHASE LIQUID FROM TANK #4 (mg/L)	MATERIAL OBSERVED IN THE FENCE POST HOLE (mg/L)
Methylene Chloride	140	25	14
1,1,1,-Trichloroethane (TCA)	17,000	40	32
Trichlorofluoromethane (TCFM)	<5	17	29

Source: Rockwell (1988)

3



Rocky Mountain  
 Remediation Services, L.L.C.  
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INTEROFFICE  
 MEMORANDUM

Date: December 11, 1995

To: Distribution

From: Michael O'Rell, ER Accelerated Actions, Building T-893B, X5671

Subject: DIP-STICK TEST RESULTS OF TANKS AT BUILDING 443 - MTF-005-95

The following information is provided to document the results of the dip-stick test for volume of contents in below grade fuel oil storage tanks #1 through #4:

Tank No.	Oil Depth	Conversion to Volume*	Comments
#1	10' (120")	18326 Gallons OIL	14" water on top of oil Approx. 4" sludge on bottom
#2	8'-5" (101")	15760 Gallons OIL	No water detected Approx. 4" sludge on bottom
#3	10'-10" (130")	19134 Gallons WATER	Approx. 2-4" oil layer on top Approx. 4-6" sludge on bottom
#4	10'-8" (128")	19024 Gallons WATER	Approx. 2-4" oil layer on top $\approx$ 307 GAL Approx. 4-6" sludge on bottom $\approx$ 311 GAL

\*Height versus Volume chart was provided by Steam Plant personnel.

TOTAL EST. AMOUNT  
 OIL/SLUDGE 6018 GAL

mdo

Distribution:  
 E. J. Brienza  
 N. S. Demos  
 R. M. Hinsch  
 M. J. Mckeen  
 R. J. Molter  
 W. R. Sproles  
 file

TOTAL VOLUME 19024 GALS  
 #4 TANK - 618  
 18,406 GAL WATER

BUILDING 443 FUEL OIL DAY TANKS  
HEIGHT VS VOLUME

HEIGHT (in.)	VOLUME (gal.)	HEIGHT (in.)	VOLUME (gal.)	HEIGHT (in.)	VOLUME (gal.)
1	21.31	45	5774.88	89	13768.40
2	60.32	46	5950.85	90	13941.40
3	110.67	47	6127.71	91	14113.30
4	170.07	48	6305.42	92	14282.10
5	237.20	49	6483.93	93	14453.60
6	311.14	50	6663.18	94	14621.90
7	391.21	51	6843.13	95	14788.90
8	476.89	52	7023.73	96	14954.50
9	567.74	53	7204.95	97	15118.70
10	663.40	54	7386.73	98	15281.30
11	763.56	55	7569.03	99	15281.30
12	867.96	56	7751.80	100	15602.00
13	976.35	57	7935.00	101	15759.80
14	1088.53	58	8118.59	102	15915.80
15	1204.29	59	8302.52	103	16070.10
16	1323.47	60	8486.75	104	16222.40
17	1445.91	61	8671.24	105	16372.80
18	1571.46	62	8855.94	106	16521.10
19	1699.98	63	9040.81	107	16667.30
20	1831.35	64	9225.81	108	16811.20
21	1965.45	65	9410.89	109	16952.80
22	2102.16	66	9597.11	110	17092.10
23	2241.38	67	9783.33	111	17228.80
24	2383.01	68	9968.41	112	17362.90
25	2526.95	69	10153.40	113	17494.20
26	2673.12	70	10338.30	114	17622.80
27	2821.43	71	10523.00	115	17748.30
28	2971.79	72	10707.50	116	17870.70
29	3124.13	73	10891.70	117	17989.90
30	3278.37	74	11075.60	118	18105.70
31	3434.43	75	11259.20	119	18217.90
32	3592.25	76	11442.40	120	18326.30
33	3751.76	77	11625.20	121	18430.70
34	3912.88	78	11807.50	122	18530.80
35	4075.56	79	11989.30	123	18626.30
36	4239.74	80	12170.50	124	18717.30
37	4405.34	81	12351.10	125	18803.00
38	4572.32	82	12531.10	126	18883.10
39	4740.61	83	12710.30	127	18957.00
40	4910.16	84	12888.80	128	19024.10
41	5080.91	85	13066.50	129	19083.50
42	5252.81	86	13243.40	130	19133.90
43	5425.81	87	13419.30	131	19172.90
44	5599.85	88	13594.40	132	19194.20

5/5

APPROVED

APPROVED

307 GAL