

3501 North Causeway Boulevard • Suite 200 • Metairie, Louisiana 70002 • (504) 831-6700

May 9, 1989

Mr. William B. DeVille, Administrator
Inactive and Abandoned Sites Division
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
625 North Fourth Street
Baton Rouge, LA 70804

Subject: Combustion, Inc. Monthly RI/FS Report
April 1989

Dear Mr. DeVille:

This letter is the sixth monthly update report on the Remedial Investigation/Feasibility Study (RI/FS) for the Combustion, Inc. site and covers activities during April 1989. This report is being provided by ERM-Southwest on behalf of the Combustion, Inc. Participating Parties in accordance with Section V.C. of the RI/FS Agreement, and is arranged to specifically address the requirements of the Agreement. The report is divided into three sections to correspond to the three elements of the monthly report required under Section V.C. of the RI/FS Agreement.

1. Actions Toward Compliance with the RI/FS Agreement

The following actions were completed pursuant to the RI/FS Agreement:

In accordance with Section V.C. of the RI/FS Agreement, the Monthly RI/FS report for March 1989 was submitted to the specified parties on April 7, 1989.

2. Sample Results Received

The Quality Assurance/Quality Control (QA/QC) review of the initial trench and soil boring sample results has been completed (except for metals analyses, which are still being reviewed). Tables describing the samples collected and summarizing the analytical results are provided in Attachment 1, along with figures showing the approximate sampling locations. Detailed interpretation will be provided in the Preliminary Remedial Investigation Report as specified in the RI/FS Work Plan. Some preliminary observations are as follows:

Houston Office: 16000 Memorial Drive • Suite 200 • Houston, Texas 77079-4006 • (713) 496-9600

Perm file

An affiliate of the Environmental Resources Management Group with offices in:
Annapolis, MD • Ann Arbor, MI • Bloomington, MN • Boston, MA • Brentwood, TN • Charleston, WV • Charlotte, NC • Columbus,
Denver, CO • Houston, TX • Louisville, KY • Marietta, GA • McLean, VA • Metairie, LA • Miami, FL • Newport Beach,
Palo Alto, CA • Redmond, WA • Tampa, FL • Walnut Creek, CA • West Chester, PA • Vancouver, BC

144035



- o Soil samples from the trenches generally showed low levels of hazardous constituents (if any), indicating that the buried materials probably have not had a significant impact on surrounding soils in the areas sampled.
- o The 2.9 to 3.5-foot sample from hand boring HB-11 contained several volatile and semivolatile hazardous constituents and one pesticide. This boring was located on a narrow strip of land separating Ponds C and D in the Pond Area. The 4.3 to 4.8-foot sample from the same boring showed no evidence of organic hazardous constituents above detection limits.
- o The other soil borings did not contain appreciable amounts of hazardous constituents.
- o A sample of liquid from a buried drum exposed during the excavation of trench T-5 in the Process Area contained an oil/water mixture with 3.4% toluene.

Additional analytical results for samples collected from the soil borings, tanks and ponds were received in April. The analytical data are currently undergoing detailed QA/QC review as required under Section 8 of the Quality Assurance Project Plan (QAPP). Part of this review (primarily the non-CLP analyses) should be completed during May, allowing inclusion of the data in the May progress report.

3a. Actions Completed During the Month

- o The investigation of a possible pond in the north central part of the Process Area continued. Ten shallow holes (4 to 8 inches deep) were dug with a pickaxe (due to the hard surface conditions) and one hand boring (HB-24) was completed to a depth of 7 feet. Reddish purple soil (similar to that found in the trenches in the southeast Process Area) was observed consistently within an area of approximately 20 feet by 50 feet and to depths of up to 5 to 6 feet (in HB-24). No drums or other solid metallic objects were detected in the two borings (HB-23 and HB-24) or in the ten shallow holes. Further investigation will be required to confirm the extent or to quantify the material in

this area. A sample from HB-24 was submitted to the laboratory for chemical analysis.

- o A total of six aquifer tests were conducted. Slug tests were conducted in monitor wells MW-201, MW-202, MW-6D, and MW-7S. Short term pump tests were conducted in monitor wells MW-5S and MW-8.
- o Staff gauges were installed in the stream near the Pond Area south gate and in Pond N.
- o Attempts to sample the oil layer in the 30,000-gallon tank in the Pond Area were unsuccessful. The sampling pump suction was insufficient to overcome the apparently high viscosity of the oil. An alternative plan for sampling the tank contents is being developed.
- o Surveying for vertical and horizontal control of all wells, piezometers, borings and the two staff gauges was completed in early April. All surveyed points have been located with respect to latitude and longitude as well as to the site grid system developed for the site topographic map.
- o Field demobilization began in early April and is nearly complete.
- o Documentation of field activities (preparation of boring logs, field data reduction, evaluation of aquifer test results, etc.) is under way.

3b. Actions Scheduled for the Next Month

- o Installation of the Pond C staff gauge is planned.
- o Monitoring of water levels in the wells and piezometers and of the stream and pond staff gauges will continue through the month.
- o Documentation of field activities (preparation of boring logs, field data reduction, etc.) and detailed QA/QC review of analytical results will continue throughout the month.
- o Surface water and stormwater sampling will be conducted, weather permitting.

ERM-Sou

RI/FS Sops

Section RI/FS Work Plan provides a mechanism for requesting and documenting simple revisions to the RI/FS and the Quality Assurance Project Plan (QAPP). The revision forms completed in March and April provided in Attachment 2. These forms document revisions of ERM-Southwest, the Participating Parties revisions to the QAPP, and are provided for info.

Correct 1989 Update Report

The Report erroneously referred to a planned staff station in Pond H. The staff gauge will be installed, as shown in the QAPP.

Conclusion

This report submitted by ERM-Southwest on behalf of the Conc. Participating Parties pursuant to Section RI/FS Agreement. Submittal of this report constitute an admission of any fact or issue of liability of the Participating Parties or their representatives for the Combustion, Inc. site, as provided in XVII of the RI/FS Agreement. If you have any questions report, please call.

Sincerely,

ERM-SOUTHWEST, INC.


Nicholas W. Hollingshad, P.E.

NWH/pbt

cc: MRidlon
Ashey General
Department of Justice
Legal Resources Division
P.
Box 70804

Legal Library
Coding
P.
Lisiana 70754
Melina Sallassi

ATTACHMENT 1
SAMPLE RESULTS

TABLE 1A

SUMMARY OF SAMPLE DESCRIPTIONS
 SOIL SAMPLES FROM TRENCHES
 COMBUSTION, INC. RI/FS

SAMPLE LOCATION	SAMPLE DESCRIPTION
T-1, 2.0 to 2.3 feet depth, Pond Area (Figure 3)	Clay; greenish blue; HNu 4-7 ppm; sampled below and adjacent to sheet metal, inner tubes, wood scrap, etc. exposed during trenching.
T-2, 1.5 to 2.0 feet depth, Pond Area (Figure 3)	Clay, silty; light gray; HNu (no reading*), no odor; sampled adjacent to drums exposed near the surface during trenching.
T-5, 2.5 to 3.0 feet depth, Process Area (Figure 2)	Clay, silty (fill); HNu 10 ppm; sampled next to subsurface debris.
T-6, 4.0 feet depth, Process Area (Figure 2)	Sand; gray/tan; HNu approx. 5 ppm; sampled at total depth of trench.
T-6, 7.0 feet depth, Process Area (Figure 2)	Clay; reddish purple; HNu approx. 200 ppm, odor.
T-7, 4.5 feet depth, Process Area (Figure 2)	Clay, sandy; white/gray; HNu 5-10 ppm; sampled below reddish purple clay encountered at 4.0 feet.
T-8, 4.8 feet depth, Process Area (Figure 2).	Clay; HNu 80-100 ppm; sampled 0.5 feet below bottom of subsurface debris.

*No HNu reading due to instrument interference from rain and/or high

TABLE 1B

SUMMARY OF ANALYTICAL RESULTS(a)
SOIL SAMPLES FROM TRENCHES
COMBUSTION, INC. RI/FS

LOCATION REFERENCE	FIGURE 3	FIGURE 3	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2
TRENCH	T-1	T-2	T-5	T-6	T-6(b)	T-6	T-7	T-8
DEPTH, FEET	2.0-2.3	1.5-2.0	2.5-3.0	4	4	7	4.5	4.8
Volatile Organics, mg/kg								
Acetone	2.4 (1.3)	0.014 (0.01)	ND (100)	ND (50)	ND (50)	500 B (0.05)	ND (5.0)	ND (5.0)
Benzene	ND (0.63)	0.095 (0.005)	ND (50)	ND (25)	ND (25)	ND (0.025)	ND (2.5)	ND (2.5)
Toluene	2.2 (0.63)	0.045 (0.005)	980 (50)	170 (25)	670 (25)	0.11 (0.025)	6.5 (2.5)	32 (2.5)
Ethylbenzene	3.9 (0.63)	ND (0.005)	ND (50)	ND (25)	ND (25)	0.062 (0.025)	ND (2.5)	ND (2.5)
Total Xylenes	15 (0.63)	ND (0.005)	ND (50)	ND (25)	ND (25)	0.36 (0.025)	ND (2.5)	ND (2.5)
Semivolatile Organics, mg/kg								
Naphthalene	11 (6.6)	ND (0.330)	38 (3.3)	ND (3.3)	Not Tested	1.7 (0.330)	ND (0.330)	9 (1.7)
2-Methylnaphthalene	9.2 (6.6)	ND (0.330)	6.1 (3.3)	ND (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
Fluorene	10 (6.6)	ND (0.330)	ND (3.3)	ND (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
2,4-Dinitrotoluene	ND (6.6)	ND (0.330)	9.6 (3.3)	37 (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
Phenanthrene	27 (6.6)	ND (0.330)	4.5 (3.3)	ND (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
Fluoranthene	7.5 (6.6)	ND (0.330)	ND (3.3)	ND (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
Pyrene	10 (6.6)	ND (0.330)	ND (3.3)	ND (3.3)	Not Tested	ND (0.330)	ND (0.330)	ND (1.7)
Pesticides, mg/kg								
4,4'-DDT	ND (0.4)	ND (0.016)	ND (0.08)	0.96 (0.32)	Not Tested	ND (0.016)	ND (0.016)	ND (0.016)
PCB's, mg/kg								
	ND (4.0)	ND (0.160)	ND (0.8)	ND (3.2)	Not Tested	ND (0.160)	ND (0.160)	ND (0.160)

Notes:

ND = Not detected

B = Compound detected in blank associated with the sample.

(a) Detection limits are shown in parentheses after analytical value.

(b) Duplicate sample, methanol preservative.

TABLE 2B

SUMMARY OF ANALYTICAL RESULTS(a)
SOIL SAMPLES FROM BORINGS
COMBUSTION, INC. RI/FS

LOCATION REFERENCE	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 1	FIGURE 1
HAND BORING DEPTH, FEET	HB-2 6.3-7.1	HB-3 1.5-2.0	HB-4 1.8-2.2	HB-4 5.8-6.3	HB-5 5.1-5.5	HB-6 6.1-6.9
Volatile Organics, mg/kg						
Acetone	0.061 B (0.05)	0.097 (0.01)	0.053 (0.01)	0.05 (0.01)	0.057 B (0.01)	0.038 B (0.01)
Benzene	ND (0.025)	0.008 (0.005)	0.012 (0.005)	0.007 (0.005)	0.024 (0.005)	ND (0.005)
2-Hexanone	ND (0.05)	ND (0.01)	0.011 (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
Toluene	0.3 (0.025)	0.06 (0.005)	0.450 E (0.005)	0.055 (0.005)	0.027 (0.005)	0.087 (0.005)
1,2-Dichloroethane	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.017 (0.005)
Methylene chloride	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Semivolatile Organics, mg/kg						
Naphthalene	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Pesticides, mg/kg	(b)	(b)	(b)	(b)	(b)	(b)
PCB's, mg/kg	(c)	(c)	(c)	(c)	(c)	(c)

Notes:

ND = Not detected

B = Compound detected in the blank associated with the sample.

E = Compound detected at levels outside calibration range; quantification is suspect.

(a) Detection limits are shown in parentheses after analytical value.

(b) Pesticide concentrations were below detection limits. Detection limits ranged from 0.008 mg/kg to 0.160 mg/kg.

(c) PCB concentrations were below detection limits. Detection limits ranged from 0.08 mg/kg to 0.160 mg/kg.

(d) Composite of samples from 5.1 to 5.6 feet and 5.6 to 6.0 feet depths.

(e) Duplicate sample, methanol preservative.

TABLE 2B (Continued)

SUMMARY OF ANALYTICAL RESULTS(a)
SOIL SAMPLES FROM BORINGS
COMBUSTION, INC. RI/FS

LOCATION REFERENCE	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2
HAND BORING DEPTH, FEET	HB-7 5.1-5.6	HB-7 5.6-6.0	HB-8 7.9-8.6	HB-9 9.9-10.5	HB-9A 1.7-1.9
Volatile Organics, mg/kg					
Acetone	0.064 B (0.01)	0.170 B (0.05)	0.031 B (0.01)	0.013 B (0.01)	0.013 B (0.01)
Benzene	ND (0.005)	ND (0.025)	0.027 (0.005)	ND (0.005)	ND (0.005)
2-Hexanone	ND (0.01)	ND (0.05)	ND (0.01)	ND (0.01)	ND (0.01)
Toluene	ND (0.005)	0.32 (0.025)	ND (0.005)	ND (0.005)	ND (0.005)
1,2-Dichloroethane	ND (0.005)	ND (0.025)	ND (0.005)	ND (0.005)	ND (0.005)
Methylene chloride	ND (0.005)	0.029 (0.025)	0.024 (0.005)	0.016 (0.005)	ND (0.005)
Semivolatile Organics, mg/kg					
Naphthalene	ND (0.33)(d)	Not Tested	ND (0.33)	ND (0.33)	ND (0.33)
Pesticides, mg/kg	(b)(d)	(b)	(b)	(b)	(b)
PCB's, mg/kg	(c)(d)	(c)	(c)	(c)	(c)

Notes:

ND = Not detected

B = Compound detected in the blank associated with the sample.

E = Compound detected at levels outside calibration range; quantification is suspect.

(a)Detection limits are shown in parentheses after analytical value.

(b)Pesticide concentrations were below detection limits. Detection limits ranged from 0.008 mg/kg to 0.160 mg/kg.

(c)PCB concentrations were below detection limits. Detection limits ranged from 0.08 mg/kg to 0.160 mg/kg.

(d)Composite of samples from 5.1 to 5.6 feet and 5.6 to 6.0 feet depths.

(e)Duplicate sample, methanol preservative.

TABLE 2B (Continued)

SUMMARY OF ANALYTICAL RESULTS(a)
SOIL SAMPLES FROM BORINGS
COMBUSTION, INC. RI/FS

LOCATION REFERENCE	FIGURE 3	FIGURE 3	FIGURE 3	FIGURE 3	FIGURE 2	FIGURE 2
HAND BORING	HB-10	HB-11	HB-11(e)	HB-11	HB-12	HB-13
DEPTH, FEET	3.7-4.1	2.9-3.5	4.3-4.8	4.3-4.8	2.1-2.8	1.9-2.9

Volatile Organics, mg/kg						
Methylene chloride	0.066 (0.005)	ND (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
1,2-Dichloroethene (Total)	ND (0.005)	3.8 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Benzene	ND (0.005)	6.1 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Tetrachloroethene	ND (0.005)	4.4 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Toluene	ND (0.005)	34 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Ethylbenzene	ND (0.005)	21 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Total Xylenes	ND (0.005)	35 (3.1)	ND (0.630)	ND (0.025)	ND (0.005)	ND (0.005)
Semivolatile Organics, mg/kg						
Naphthalene	ND (0.330)	13 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
2-Methylnaphthalene	ND (0.330)	19 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Fluorene	ND (0.330)	12 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Phenanthrene	ND (0.330)	36 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Anthracene	ND (0.330)	11 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Fluoranthene	ND (0.330)	13 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Pyrene	ND (0.330)	11 (6.6)	Not Tested	ND (0.330)	ND (0.330)	ND (0.330)
Pesticides, mg/kg						
Heptachlor	ND (0.008)	0.13 (0.04)	Not Tested	ND (0.008)	ND (0.008)	ND (0.008)
PCB's, mg/kg						
	(c)	(c)	Not Tested	(c)	(c)	(c)

Notes:

ND = Not detected

B = Compound detected in the blank associated with the sample.

E = Compound detected at levels outside calibration range; quantification is suspect.

(a) Detection limits are shown in parentheses after analytical value.

(b) Pesticide concentrations were below detection limits. Detection limits ranged from 0.008 mg/kg to 0.160 mg/kg.

(c) PCB concentrations were below detection limits. Detection limits ranged from 0.08 mg/kg to 0.160 mg/kg.

(d) Composite of samples from 5.1 to 5.6 feet and 5.6 to 6.0 feet depths.

(e) Duplicate sample, methanol preservative.

TABLE 2B (Continued)

SUMMARY OF ANALYTICAL RESULTS(a)
SOIL SAMPLES FROM BORINGS
COMBUSTION, INC. RI/FS

LOCATION REFERENCE	FIGURE 2	FIGURE 1	FIGURE 2	FIGURE 2	FIGURE 2	FIGURE 2
HAND BORING	HB-13	HB-15	B-201	B-201	B-202	B-203
DEPTH, FEET	7.2-8.0	9.3-9.7	8.2-9.0	13.5-14.2	6.4-7.6	7.0-8.0

Volatile Organics, mg/kg						
Methylene chloride	ND (0.005)	ND (0.005)	ND (0.005)	0.006 (0.005)	ND (0.005)	ND (0.005)
1,2-Dichloroethene	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
(Total)						
Benzene	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Tetrachloroethene	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Toluene	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Ethylbenzene	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Total Xylenes	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Semivolatile Organics, mg/kg						
Naphthalene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
2-Methylnaphthalene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Fluorene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Phenanthrene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Anthracene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Fluoranthene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Pyrene	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)	ND (0.330)
Pesticides, mg/kg	(b)	(b)	(b)	(b)	(b)	(b)
PCB's, mg/kg	(c)	(c)	(c)	(c)	(c)	(c)

Notes:

ND = Not detected

B = Compound detected in the blank associated with the sample.

E = Compound detected at levels outside calibration range; quantification is suspect.

(a)Detection limits are shown in parentheses after analytical value.

(b)Pesticide concentrations were below detection limits. Detection limits ranged from 0.008 mg/kg to 0.160 mg/kg.

(c)PCB concentrations were below detection limits. Detection limits ranged from 0.08 mg/kg to 0.160 mg/kg.

(d)Composite of samples from 5.1 to 5.6 feet and 5.6 to 6.0 feet depths.

(e)Duplicate sample, methanol preservative.

TABLE 2A

SUMMARY OF SAMPLE DESCRIPTIONS
 SOIL SAMPLES FROM HAND BORINGS
 COMBUSTION, INC. RI/FS

SAMPLE LOCATION	SAMPLE DESCRIPTION
HB-2, 6.3 to 7.1 feet depth, Process Area (Figure 2)	Clay, sandy; no odor, HNu 0 ppm.
HB-3, 1.5 to 2.0 feet depth, Process Area (Figure 2)	Clay, sandy; no odor, HNu 0 ppm.
HB-4, 1.8 to 2.2 feet depth, Process Area (Figure 2)	Sand, clayey; petroleum odor (gasoline), HNu (no reading*).
HB-4, 5.8 to 6.3 feet depth, Process Area (Figure 2)	Sand, slightly clayey; slight odor, HNu 10-15 ppm.
HB-5, 5.1 to 5.5 feet depth, north of Process Area	Sand, slightly clayey; no odor, HNu approx. 0.5 ppm.
HB-6, 6.1 to 6.9 feet depth, north of Process Area (Figure 1)	Sand, gray/tan; no odor, HNu (no reading*).
HB-7, 5.1 to 5.6 feet and 5.6 to 6.0 feet depths, west of Process Area (Figure 2)	Sand, gray/tan; no odor, HNu (no reading*).
HB-8, 7.9 to 8.6 feet depth, east of Process Area (Figure 2)	Clay, sandy; light gray/orange; no odor, HNu (no reading*).
HB-9, 9.9 to 10.5 feet depth, east of Process Area (Figure 2)	Clay, sandy; orange brown; no odor, HNu (no reading*).
HB-9A, 1.7 to 1.9 feet depth, east of Process Area (Figure 2)	Clay, sandy; reddish purple clay; slight odor, HNu 0 ppm.

*No HNu reading due to instrument interference from rain and/or high humidity.

TABLE 2A (continued)

SUMMARY OF SAMPLE DESCRIPTIONS
SOIL SAMPLES FROM HAND BORINGS
COMBUSTION, INC. RI/FS

SAMPLE LOCATION	SAMPLE DESCRIPTION
HB-10, 3.7 to 4.1 feet depth, Pond Area (Figure 3)	Sand, clayey silty; greenish gray; no odor.
HB-11, 2.9 to 3.5 feet depth, Pond Area (Figure 3)	Clay, silty; HNu 30-40 ppm in borehole, 5-15 ppm in cuttings, oily odor; dark oily appearance.
HB-11, 4.3 to 4.8 feet depth, Pond Area (Figure 3)	Silt, clayey; oily odor, HNu (no reading*).
HB-12, 2.1 to 2.8 feet depth, south of Process Area (Figure 2)	Sand; light gray/tan; HNu (no reading*), no odor.
HB-13, 1.9 to 2.9 feet depth, south of Process Area (Figure 2)	Silt, clayey; light gray/yellow brown, cuttings show purple stains; HNu (no reading*), no odor.
HB-13, 7.2 to 8.0 feet depth, south of Process Area (Figure 2)	Clay, sandy; greenish gray/yellow brown; HNu (no reading*), no odor.
HB-15, 9.3 to 9.7 feet depth, north of Process Area (Figure 1)	Sand; light gray/orange; HNu (no reading*), no odor.
B-201, 8.2 to 9.0 feet depth, Process Area (Figure 2)	Sand, bluish gray/yellow brown; very slight odor, HNu (no reading*).
B-201, 13.5 to 14.2 feet depth, Process Area (Figure 2)	Sand; light gray w/purple stains; moderate odor, HNu 0 ppm.
B-202, 6.4 to 7.6 feet depth, Process Area (Figure 2)	Sand; light gray/orange; no odor, HNu (no reading*).

Due to instrument interference, No HNu reading due to instrument interference from rain and/or high humidity.

TABLE 2A (continued)

SUMMARY OF SAMPLE DESCRIPTIONS
SOIL SAMPLES FROM HAND BORINGS
COMBUSTION, INC. RI/FS

<u>SAMPLE LOCATION</u>	<u>SAMPLE DESCRIPTION</u>
B-203, 7.0 to 8.0 feet depth Process Area (Figure 2)	Sand; light gray/orange; no odor.

ing due to *No HNu reading due to instrument interference from rain and/or high humidity.

TABLE 3A

SUMMARY OF SAMPLE DESCRIPTION
SAMPLES FROM BURIED CONTAINERS
COMBUSTION, INC. RI/FS

<u>SAMPLE LOCATION</u>	<u>SAMPLE DESCRIPTION</u>
Buried drum in T-5, Process Area (Figure 2)	Oil/water mixture, HNu in drum 150 - 200 ppm.

TABLE 3B

SUMMARY OF ANALYTICAL RESULTS(a)
SAMPLES FROM BURIED CONTAINERS
COMBUSTION, INC. RI/FS

COMPOUND	LIQUID FROM DRUM IN TRENCH T-5 (FIGURE 2)
-----	-----
Volatile Organics	
Toluene	34000 (1300)
Semivolatile Organics, mg/kg	ND (20)
Pesticides	ND (6.0)
PCB's	ND (60.0)









Notes:
ND = Not detected

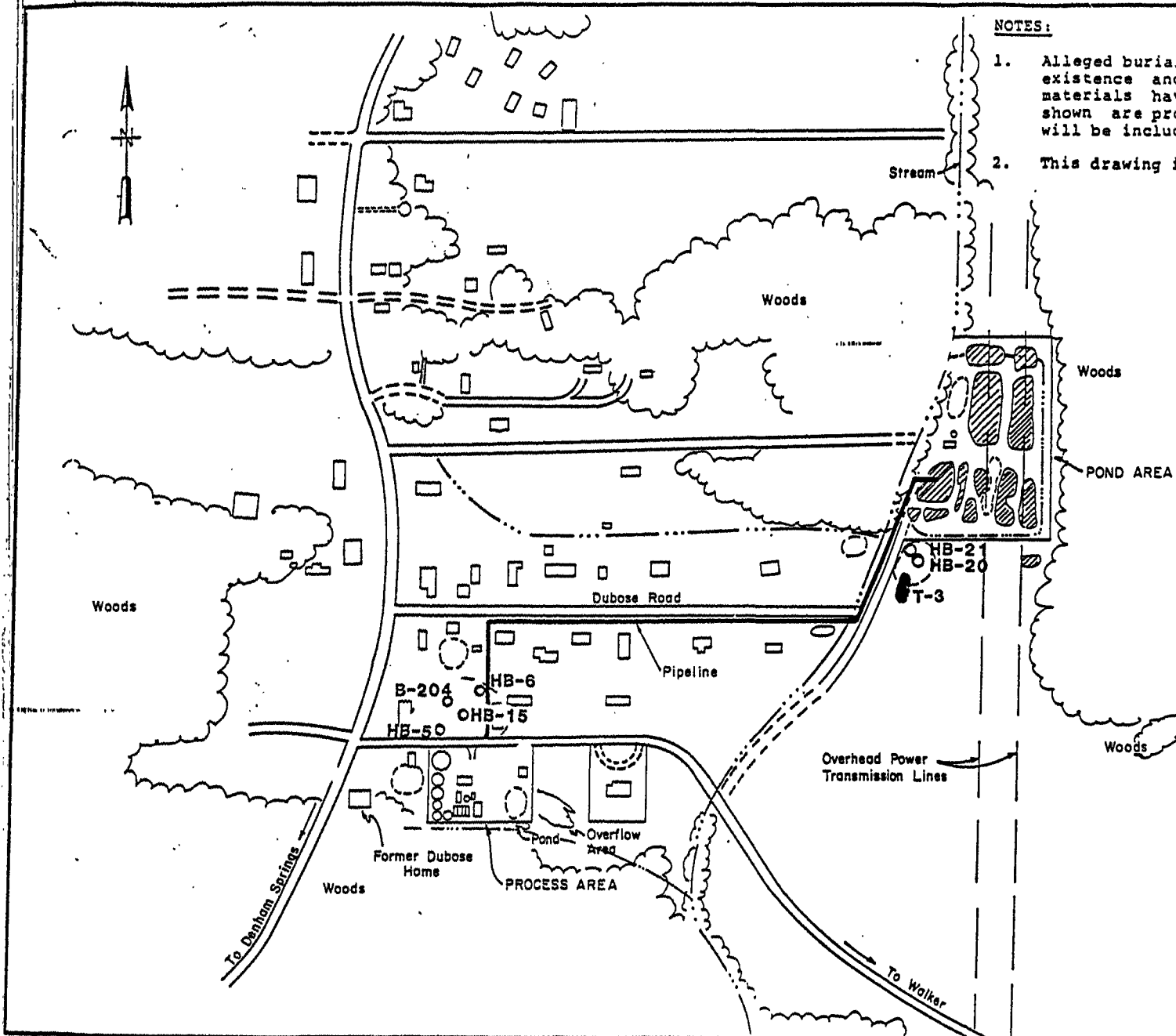
(a) Detection limits are shown in parentheses after analytical value.

NOTES:

1. Alleged burial locations are approximate, since the existence and locations of the alleged buried materials have not been confirmed. The locations shown are provided solely to delineate areas that will be included in this investigation.
2. This drawing is not to scale.

LEGEND

-  Pond
-  Stream or Drainage Ditch
-  Suspected Burial Area to be Surveyed (See Note 1)
-  Trailer Homes and Buildings
-  Roads
-  Woods
-  BORING LOCATION
-  TRENCH




 **ERM-Southwest, Inc.**

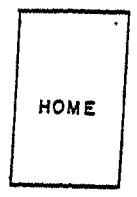
FIGURE I

OFFSITE SAMPLE LOCATIONS
COMBUSTION, INC. SITE

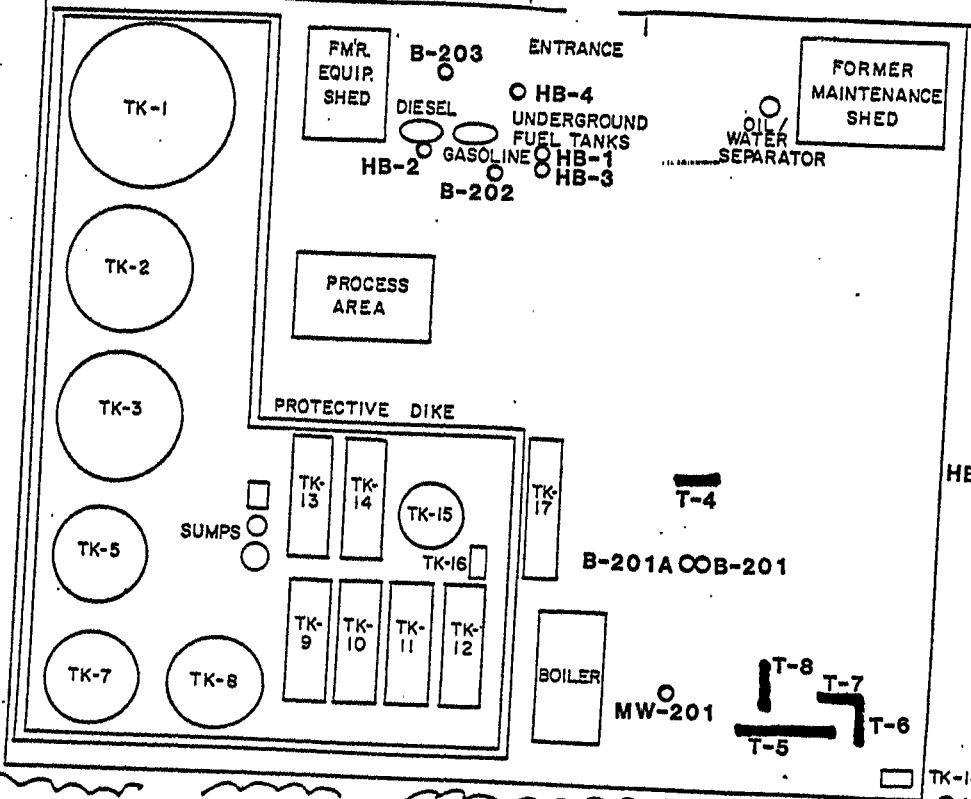
W.O. NO. _____



ROADWAY



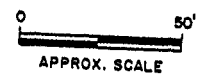
HB-18 HB-17,17A
○ ○ ○ HB-7
○
HB-19,19A



TANK SIZES

TK-1	50' DIA. x 29'
TK-2	29' DIA. x 16'
TK-3	25' DIA. x 33'
TK-5,7,8	21' DIA. x 14'10"
TK-9,10,11,12	10' DIA. x 30'
TK-13	10'6" DIA. x 32'
TK-14	10'6" DIA. x 29'6"
TK-15	15' DIA. x 16'
TK-16	4' DIA. x 6' (EST.)
TK-17	NOT MEASURED
TK-18	NOT MEASURED

○ BORING LOCATION
▬ TRENCH



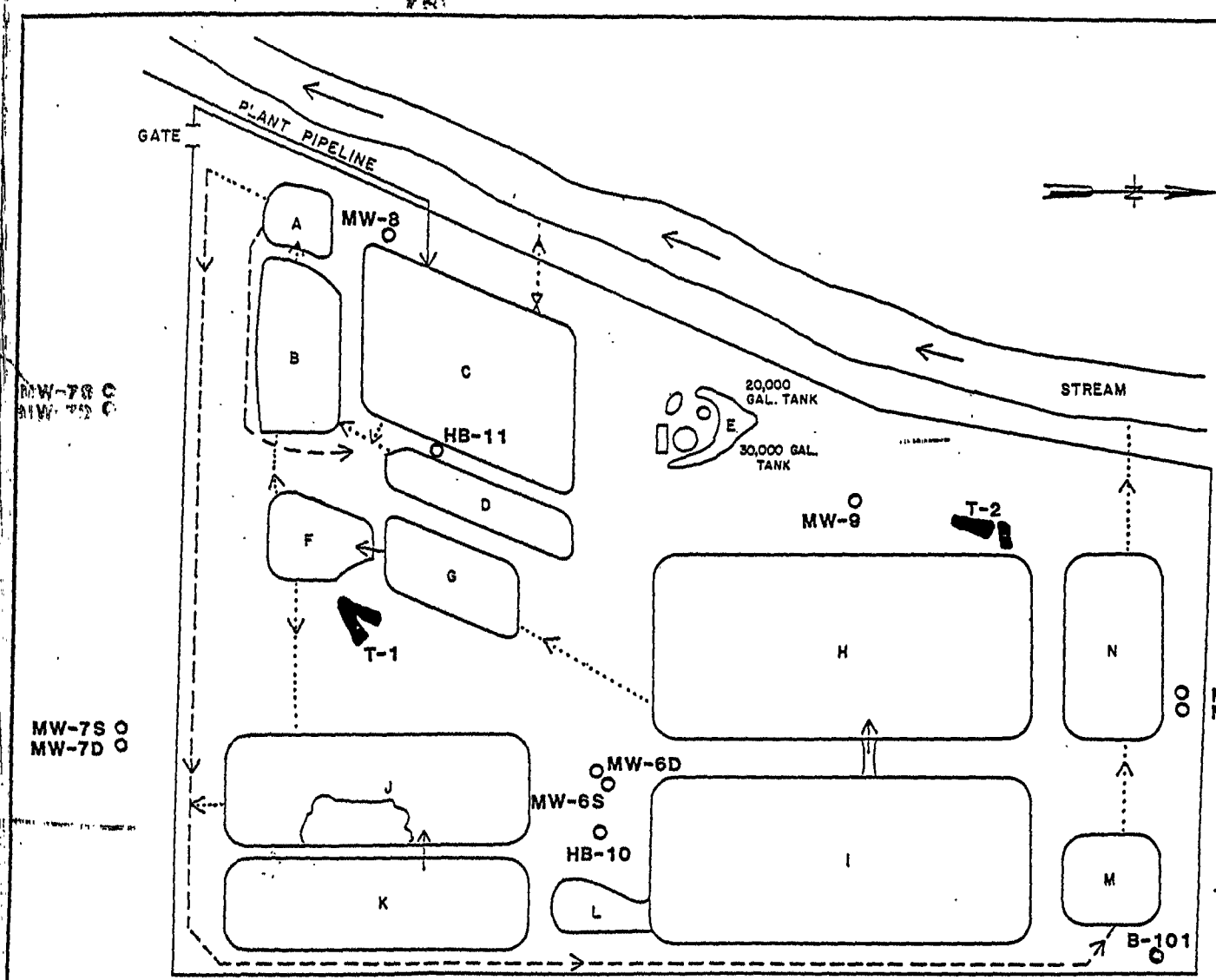
NOTE:
THIS
MAP
IS
FOR
OFFICE
USE

NOTE:
Tank numbering system is believed to be consistent with that used during Combustion, Inc. operations, and may be different from the designations used in earlier reports.

ERM-Southwest, Inc.

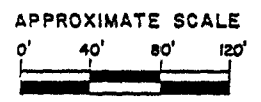
FIGURE 2
PROCESS AREA SAMPLE LOCATIONS
COMBUSTION, INC. SITE

W.O. NO.



LEGEND

- A, M, N WASTE WATER PONDS
- B, C, D, L OIL-WATER PONDS
- E TANK DIKE PIT
- F, G, H, I, J, K FORMER PONDS
- - - - - DRAINAGE DITCH
- DRAINAGE PIPE
- X VALVE
- ▬ TRENCH
- BORING LOCATION



ERM-Southwest, Inc.

FIGURE 3

POND AREA SAMPLE LOCATIONS
COMBUSTION, INC. SITE

W.O. NO.


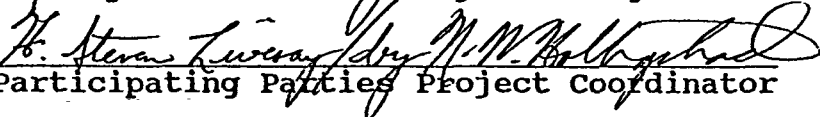
ATTACHMENT 2
SCOPE REVISION FORMS
COMBUSTION, INC. RI/FS

FIGURE 19-1

COMBUSTION, INC. RI/FS SCOPE REVISION FORM

- 1. Date: 2-15-89
- 2. Prepared By: HENRY GOYETTE
- 3. Requested Revisions (use additional sheets if needed):
 REVISE SECTION 7.5.2 OF THE QAPP TO REQUIRE THAT THE INITIAL QA/QC REVIEW OF THE LABORATORY DATA BE INITIATED (RATHER THAN CONDUCTED) WITHIN 48 HOURS OF RECEIPT.
- 4. Justification (use additional sheets if needed):
 FOR LARGE REPORTS, THIS REQUIREMENT CONSTRAINS THE REVIEW AND COULD RESULT IN AN INADEQUATE QA/QC REVIEW OF THE LAB DATA.

Authorization:

- 5.  2/17/89
 Primary Consultant's Project Manager Date
- 6.  4/24/89
 Participating Parties Project Coordinator Date
- 7. Approved Rejected

Approved subject to the following conditions:

Approved by phone by John Holthof/Harry Etkin 2-17-89. JMA
John Marshall 3-10-89
 DEQ Project Coordinator Date

Accepted:


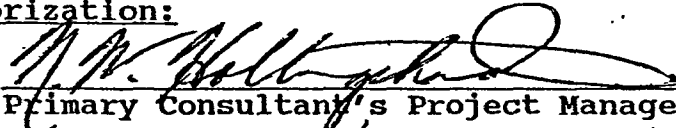
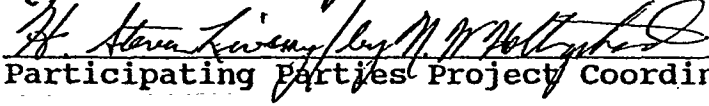
- 8.  4/24/89
 Primary Consultant's Project Manager Date

FIGURE 19-1

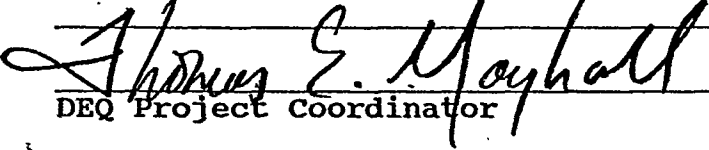
COMBUSTION, INC. RI/FS SCOPE REVISION FORM

- 1. Date: 3/17/89
- 2. Prepared By: Ricbert Hedger
- 3. Requested Revisions (use additional sheets if needed):
use a slip-fit stainless well cap on MN-203 and BW-1 rather than a threaded cap
- 4. Justification (use additional sheets if needed):
the slip fit cap provides more room for the protective cover and allows for the required stick-up of the well

Authorization:

- 5.  3/29/89
Primary Consultant's Project Manager Date
- 6.  4/24/89
Participating Parties Project Coordinator Date
- 7. Approved Rejected

Approved subject to the following conditions:

 3/31/89
DEQ Project Coordinator Date

Accepted:

- 8.  4/24/89
Primary Consultant's Project Manager Date

FIGURE 19-1

COMBUSTION, INC. RI/FS SCOPE REVISION FORM

1. Date: 3/20/89

2. Prepared By: Reiffert Hodgson

3. Requested Revisions (use additional sheets if needed):

If : (1) there is no visual, olfactory evidence or HNU readings
(2) from shallow soils and ^{of affected material}
Then: delete the need for surface casing in the background wells

4. Justification (use additional sheets if needed):

If the two criteria above, are met then, there is no technical need for surface casing

Authorization:

5. [Signature] 3/29/89
Primary Consultant's Project Manager Date

6. [Signature] 4/24/89
Participating Parties Project Coordinator Date

7. Approved Rejected

Approved subject to the following conditions:

Thomas E. Mayhall 3/31/89
DEQ Project Coordinator Date

Accepted:

8. [Signature] 4/24/89
Primary Consultant's Project Manager Date