

SAMPLING S JLE
HUNTER AAF
SAVANNAH GEORGIA

PROJECT No.:017618-4103
LAB ID: SLS
CASE ID: SC001

FIELD SAMPLE ID	SITE ID	RES CODE	MATRIX	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH(FT)	SHIP DATE	ANALYSES			COMMENTS QA/QC SAMPLE TYPES
								VOC/8020	PAH/8100	GRO/8015MOD	
GROUNDWATER											
H833-EB0101	MW01	BR1	WATER	5/21/96	1450		5/22/96	X	X		RINSATE
H833-GW0101	MW01	P0	WATER	5/21/96	1455		5/22/96	X	X		
H833-GW0201	MW02	P0	WATER	5/21/96	1530		5/22/96	X	X		
H833-GW0301	MW03	P0	WATER	5/23/96	955		5/23/96	X	X		
H833-GW0301	MW03	SL1	WATER	5/23/96	955		5/23/96	X	X		MS/MSD
H833-GW0401	MW04	P0	WATER	5/23/96	840		5/23/96	X	X		
H833-GW0501	MW05	P0	WATER	5/23/96	805		5/23/96	X	X		
H833-GW0601	MW06	P0	WATER	5/23/96	820		5/23/96	X	X		
H833-GW0701	MW07	P0	WATER	5/22/96	1520		5/23/96	X	X		
H833-TB0101	MW08	BT1	WATER	5/21/96	1410		5/22/96	X	X		TRIP
H833-GW0801	MW08	P0	WATER	5/21/96	1510		5/22/96	X	X		SPLIT
H833-GW0801	MW08	S1	WATER	5/21/96	1510		5/22/96	X	X		DUPLICATE
H833-GW0901	MW09	P0	WATER	5/23/96	930		5/23/96	X	X		
H833-GW0902	MW09	D1	WATER	5/23/96	930		5/23/96	X	X		
H833-GW1001	MW10	P0	WATER	5/23/96	855		5/23/96	X	X		
H833-GW1101	MW11	P0	WATER	5/22/96	1755		5/23/96	X	X		
H833-GW1201	MW12	P0	WATER	5/22/96	1835		5/23/96	X	X		
H833-GW1301	MW13	P0	WATER	5/23/96	1015		5/23/96	X	X		
H833-GW1401	MW14	P0	WATER	5/23/96	915		5/23/96	X	X		
H833-TB0201	MW30	BT1	WATER	5/22/96	800		5/23/96	X	X		TRIP
H833-GW1501	MW15	P0	WATER	5/22/96	1545		5/23/96	X	X		
H833-GW1601	MW16	P0	WATER	5/22/96	1600		5/23/96	X	X		
H833-GW1701	MW17	P0	WATER	5/22/96	1815		5/23/96	X	X		
H833-GW1801	MW18	P0	WATER	5/22/96	1740		5/23/96	X	X		
H833-GW1901	MW19	P0	WATER	5/22/96	1720		5/23/96	X	X		
H833-GW1901	MW19	S1	WATER	5/22/96	1720		5/22/96	X	X		SPLIT
H833-GW2001	MW20	P0	WATER	5/22/96	1625		5/23/96	X	X		DUPLICATE
H833-GW2002	MW20	D1	WATER	5/22/96	1625		5/23/96	X	X		MS/MSD
H833-GW2001	MW20	SL1	WATER	5/22/96	1625		5/23/96	X	X		
H833-GW2101	MW21	P0	WATER	5/23/96	1035		5/23/96	X	X		
H833-TB0301	MW07	BT1	WATER	5/22/96	1515		5/23/96	X	X		TRIP
H833-GW2201	MW22	P0	WATER	5/22/96	1700		5/23/96	X	X		

SAMPLING RULE
HUNTER AA
SAVANNAH GEORGIA

PROJECT No.: 017618-4103
LAB ID: SLS
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FIELD SAMPLE ID	SITE ID	RES CODE	MATRIX	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH(FT)	SHIP DATE	ANALYSES			COMMENTS QA/QC SAMPLE TYPES	
								VOC/8020	PAH/8100	GRO/8015MOD	DRO/8100MOD	
H833-GW2301	MW23	P0	WATER	5/22/96	945		5/23/96	X	X			
H833-GW2401	MW24	P0	WATER	5/22/96	1030		5/23/96	X	X			
H833-GW2501	MW25	P0	WATER	5/22/96	925		5/23/96	X	X			
H833-GW2601	MW26	P0	WATER	5/22/96	855		5/23/96	X	X			
H833-GW2601	MW26	S1	WATER	5/22/96	855		5/22/96	X	X			SPLIT
H833-GW2701	MW27	P0	WATER	5/22/96	1005		5/23/96	X	X			
H833-GW2702	MW27	D1	WATER	5/22/96	1005		5/23/96	X	X			DUPLICATE
H833-GW2801	MW28	P0	WATER	5/23/96	1102		5/23/96	X	X			
H833-TB0401	MW31	BT1	WATER	5/23/96	725		5/23/96	X	X			TRIP
H833-GW2901	MW29	P0	WATER	5/22/96	835		5/23/96	X	X			
H833-GW3001	MW30	P0	WATER	5/22/96	815		5/23/96	X	X			
H833-GW3101	MW31	P0	WATER	5/23/96	735		5/23/96	X	X			
H833-GW3101	MW31	S1	WATER	5/23/96	735		5/24/96	X	X			SPLIT
H833-GW3201	MW32	P0	WATER	5/22/96	1450		5/23/96	X	X			DUPLICATE
H833-GW3202	MW32	D1	WATER	5/22/96	1450		5/23/96	X	X			
FTA-MW0101	HMW-1	P0	WATER	5/21/96	1635		5/22/96	X	X			
FTA-MW0201	HMW-2	P0	WATER	5/21/96	1600		5/22/96	X	X			
FTA-MW0201	HMW-2	SL1	WATER	5/21/96	1600		5/22/96	X	X			MS/MSD
MS/MSD												
FTA-MW0301	HMW-3	P0	WATER	5/22/96	1150		5/23/96	X	X			
FTA-MW0301	HMW-3	S1	WATER	5/22/96	1150		5/22/96	X	X			SPLIT TRIP
H833-TB0501	HMW-3	BT1	WATER					X	X			
FTA-MW0401	HMW-4	P0	WATER	5/22/96	1220		5/23/96	X	X			DUPLICATE
FTA-MW0402	HMW-4	D1	WATER	5/22/96	1220		5/23/96	X	X			
FTA-MW0501	HMW-5	P0	WATER	5/21/96	1800		5/22/96	X	X			DUPLICATE
FTA-MW0502	HMW-5	D1	WATER	5/21/96	1800		5/22/96	X	X			
FTA-MW0601	HMW-6	P0	WATER	5/21/96	1725		5/22/96	X	X			
FTA-MW0601	HMW-6	S1	WATER	5/21/96	1725		5/22/96	X	X			SPLIT
FTA-MW0701	HMW-7	P0	WATER					X	X			
FTA-MW0801	HMW-8	P0	WATER	5/22/96	1130		5/23/96	X	X			
FTA-MW0901	HMW-9	P0	WATER	5/22/96	1110		5/23/96	X	X			
FTA-MW1001	HMW-10	P0	WATER	5/22/96	1245		5/23/96	X	X			
FTA-MW1101	HMW-11	P0	WATER	5/21/96	1835		5/22/96	X	X			
FTA-MW1201	HMW-12	P0	WATER	5/21/96	1855		5/22/96	X	X			
FTA-MW1301	HMW-13	P0	WATER	5/21/96	1920		5/22/96	X	X			
H833-TB0601	HMW-13	BT1	WATER					X	X			TRIP

A WATER MS/MSD REQUIRES TWICE THE WATER VOLUME PLUS THE INITIAL SAMPLE VOLUME
INCLUDE THREE (3) ADDITIONAL SETS OF TRIP BLANKS WITH BLANK LABLES.
EIGHT (8) LITERS OF DIOF WATER IS REQUESTED.
EXTRA BOTTLES NEEDED: FOUR (4) 1 LITER; TWO (2) SETS OF 40 ML

H833MW-WK1

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CONSTITUENT	SITE		MW-01	MW-02	MW-03	MW-04	MW-05	MW-06
	SAMPLE ID		H833-GW0101	H833-GW0201	H833-GW0301	H833-GW0401	H833-GW0501	H833-GW0601
	DATE		05/21/96	05/21/96	05/23/96	05/23/96	05/23/96	05/23/96
Benzene	(ug/l)	100	700	<1	<1	<1	4100	<25
Ethylbenzene	(ug/l)	230	1100	<1	<1	<1	1700	320
Toluene	(ug/l)	<25	12000	<1	<1	4.6	8900	1400
Xylene (total)	(ug/l)	860	4500	<1	<1	<1	6400	1400
Acenaphthene	(ug/l)	---	---	---	---	---	---	---
Acenaphthylene	(ug/l)	<10	20	<10	<10	<10	<10	<10
Benzo(a)pyrene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Benzo(b,k)fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Benzo(ghi)perylene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Fluorene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Naphthalene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Phenanthrene + Anthracene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
Pyrene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10	<10
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Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

METHODS: EPA 8020, 8100.

J = The reported quantitation limit is estimated.

HUNTER ARMY AIRFIELD
PRIMARY RESULTS
GROUNDWATER

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Date: 07/03/96

CONSTITUENT	SITE	MW-07	MW-07	MW-08	MW-09	MW-10	MW-11
	SAMPLE ID	H833-TB0301	H833-GW0701	H833-GW0801	H833-GW0901	H833-GW1001	H833-GW1101
	DATE	05/22/96	05/22/96	05/21/96	05/23/96	05/23/96	05/22/96
Benzene	(ug/l)	<1	<1	200	<1	<1	230
Ethylbenzene	(ug/l)	<1	<1	310	<1	<1	440
Toluene	(ug/l)	<1	<1	920	<1	<1	3600
Xylene (total)	(ug/l)	<1	<1	1200	<1	<1	2100
Acenaphthene	(ug/l)	---	---	---	---	---	---
Acenaphthylene	(ug/l)	---	<10	<10	<10	15	<10
Benzo(a)pyrene	(ug/l)	---	<10	<10	<10	<10	<10
Benzo(b,k)fluoranthene	(ug/l)	---	<10	<10	<10	<10	<10
Benzo(ghi)perylene	(ug/l)	---	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	---	<10	<10	<10	<10	<10
Fluoranthene	(ug/l)	---	<10	<10	<10	<10	<10
Fluorene	(ug/l)	---	<10	<10	<10	10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	---	<10	<10	<10	<10	<10
Naphthalene	(ug/l)	---	<10	<10	21	<10	<10
Phenanthrene + Anthracene	(ug/l)	---	<10	<10	<10	<10	<10
Pyrene	(ug/l)	---	<10	<10	<10	<10	<10
1-Methylnaphthalene	(ug/l)	---	<10	<10	<10	<10	<10
2-Methylnaphthalene	(ug/l)	---	<10	<10	<10	<10	<10
		---	---	---	---	---	---

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HUNTER ARMY AIRFIELD
PRIMARY RESULTS
GROUNDWATER

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CONSTITUENT	SITE	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17
SAMPLE ID		H833-GW1201	H833-GW1301	H833-GW1401	H833-GW1501	H833-GW1601	H833-GW1701
DATE		05/22/96	05/23/96	05/23/96	05/22/96	05/22/96	05/22/96
Benzene	(ug/l)	140	<50	<1	<1	<1	<500
Ethylbenzene	(ug/l)	310	1500	<1	<1	<1	1200
Toluene	(ug/l)	540	600	<1	<1	<1	16000
Xylene (total)	(ug/l)	2700	6200	<1	<1	<1	5200
Acenaphthene	(ug/l)	--	--	--	--	--	--
Acenaphthylene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(b,k)fluoranthene	(ug/l)	<10	<10	<10	<10 J	<10 J	<10
Benzo(ghi)perylene	(ug/l)	<10	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluorene	(ug/l)	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	<10	<10	<10	<10	<10	<10
Naphthalene	(ug/l)	<10	<10	<10	<10	<10	30
Phenanthrene + Anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Pyrene	(ug/l)	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10
		--	--	--	--	--	--

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HUNTER ARMY AIRFIELD
PRIMARY RESULTS
GROUNDWATER

Page: 1D of 1F
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CONSTITUENT	SITE	MW-18	MW-19	MW-21	MW-22	MW-23	MW-24
SAMPLE ID		H833-GW1801	H833-GW1901	H833-GW2101	H833-GW2201	H833-GW2301	H833-GW2401
DATE		05/22/96	05/22/96	05/23/96	05/22/96	05/22/96	05/22/96
Benzene	(ug/l)	20	390	<1	<2	<1	<1
Ethylbenzene	(ug/l)	110	350	<1	27	<1	<1
Toluene	(ug/l)	17	3300	<1	<2	<1	<1
Xylene (total)	(ug/l)	450	1300	<1	29	<1	<1
Acenaphthene	(ug/l)	--	--	--	--	--	--
Acenaphthylene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(b,k)fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(ghi)perylene	(ug/l)	<10	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluorene	(ug/l)	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	<10	<10	<10	<10	<10	<10
Naphthalene	(ug/l)	41	<10	<10	<10	<10	<10
Phenanthrene + Anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Pyrene	(ug/l)	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	(ug/l)	16	<10	<10	<10	<10	<10
2-Methylnaphthalene	(ug/l)	23	<10	<10	<10	<10	<10
		--	--	--	--	--	--

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HUNTER ARMY AIRFIELD
PRIMARY RESULTS
GROUNDWATER

Page: 1E of 1F
Date: 07/03/96

CONSTITUENT	SITE	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30
SAMPLE ID		H833-GW2501	H833-GW2601	H833-GW2701	H833-GW2801	H833-GW2901	H833-TB0201
DATE		05/22/96	05/22/96	05/22/96	05/23/96	05/22/96	05/22/96
Benzene	(ug/l)	<1	<1	<1	<1	<1	<1
Ethylbenzene	(ug/l)	<1	<1	<1	<1	<1	<1
Toluene	(ug/l)	<1	<1	<1	<1	2.2	<1
Xylene (total)	(ug/l)	<1	<1	<1	<1	<1	<1
Acenaphthene	(ug/l)	<10	<10	<10	<10	<10	<10
Acenaphthylene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	(ug/l)	<10 J	<10 J	<10 J	<10 J	<10 J	<10 J
Benzo(b,k)fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10
Benzo(ghi)perylene	(ug/l)	<10	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluoranthene	(ug/l)	<10	<10	<10	<10	<10	<10
Fluorene	(ug/l)	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	<10	<10	<10	<10	<10	<10
Naphthalene	(ug/l)	<10	<10	<10	<10	<10	<10
Phenanthrene + Anthracene	(ug/l)	<10	<10	<10	<10	<10	<10
Pyrene	(ug/l)	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	(ug/l)	<10	<10	<10	<10	<10	<10

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METHODS: EPA 8020, 8100.

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HUNTER ARMY AIRFIELD
PRIMARY RESULTS
GROUNDWATER

Page: 1F of 1F
Date: 07/03/96

CONSTITUENT	SITE	MW-30	MW-31	MW-31	MW-32
	SAMPLE ID	H833-GW3001	H833-TB0401	H833-GW3101	H833-GW3201
	DATE	05/22/96	05/23/96	05/23/96	05/22/96
Benzene	(ug/l)	<1	<1	14	50 J
Ethylbenzene	(ug/l)	<1	<1	<5	17
Toluene	(ug/l)	<1	<1	<5	14
Xylene (total)	(ug/l)	<1	<1	300	400
Acenaphthene	(ug/l)	---	---	---	---
Acenaphthylene	(ug/l)	<10	---	<10	<10
Benzo(a)pyrene	(ug/l)	<10	---	<10	19
Benzo(b,k)fluoranthene	(ug/l)	<10 J	---	<10	<10 J
Benzo(ghi)perylene	(ug/l)	<10	---	<10	<10
Chrysene + Benzo(a)anthracene	(ug/l)	<10	---	<10	<10
Fluoranthene	(ug/l)	<10	---	<10	<10
Fluorene	(ug/l)	<10	---	<10	<10
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	(ug/l)	<10	---	<10	<10
Naphthalene	(ug/l)	<10	---	15	45
Phenanthrene + Anthracene	(ug/l)	<10	---	<10	<10
Pyrene	(ug/l)	<10	---	<10	<10
1-Methylnaphthalene	(ug/l)	<10	---	<10	<10
2-Methylnaphthalene	(ug/l)	<10	---	<10	18
		---	---	---	---

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SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY.
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative _____ FAX # _____

SUBCONTRACTOR _____ PROJECT # _____

SAMPLE CUSTODIAN A. Campbell (C) Sp-82940 TODAY'S DATE 5/22/96

DATE/TIME SAMPLES RECEIVED 5/22/96 1:28

AIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 3

COOLER OPENED: DATE 5/22/96 TIME 1:28

CHAIN OF CUSTODY SEAL INTACT? YES ☐ NO ☒

CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐

SAMPLE LABELS PRESENT? YES ☒ NO ☐

BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐

TYPE OF COLLANT USED Wet Ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN ☒

COOLER NUMBER # 3 TEMP INSIDE COOLER 0.0

RECORD TEMPERATURE BLANK (1) 0.0 (2) 0.1 (3) 0.0

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: FTA-MW0501, FTA-MW0502, FTA-MW1101,
FTA-MW1201, FTA-MW1301.



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative _____ FAX # _____

SUBCONTRACTOR _____ PROJECT # _____

SAMPLE CUSTODIAN D. Campbell (A) 20-82940 TODAY'S DATE 5/22/96

DATE/TIME SAMPLES RECEIVED 5/22/96 1:28

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT 3

COOLER OPENED: DATE 5/22/96 TIME 1:28

CHAIN OF CUSTODY SEAL INTACT? YES ☐ NO ☒

CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐

SAMPLE LABELS PRESENT? YES ☒ NO ☐

BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐

TYPE OF COLLANT USED Wet Ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN ☒

COOLER NUMBER # 1 TEMP INSIDE COOLER 0.0

2 AC 0.1

3 AC 0.0

RECORD TEMPERATURE BLANK (1) 0.0 (2) 0.1 (3) 0.0

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833-TB0101, H833-EB0101, H833-GW0101,
H833-GW0801, H833-GW0201, H833-FTA-MW0201,
FTA-MW0101, FTA-MW0101MS/MSD, FTA-MW0601,
FTA-MW0501, FTA-MW0502, FTA-MW1101, FTA-MW1201,
FTA-MW1301



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative _____ FAX # _____

SUBCONTRACTOR _____ PROJECT # _____

SAMPLE CUSTODIAN A. Campbell (B) 56-82940 TODAY'S DATE 5/22/96

DATE/TIME SAMPLES RECEIVED 5/22/96 1:28

AIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 3

COOLER OPENED: DATE 5/22/96 TIME 1:28

CHAIN OF CUSTODY SEAL INTACT? YES ☐ NO ☒

CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐

SAMPLE LABELS PRESENT? YES ☒ NO ☐

BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐

TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN ☒

COOLER NUMBER #	<u>1 AC</u>	TEMP INSIDE COOLER	<u>0.0</u>
#	<u>2</u>		<u>0.1</u>
#	<u>3 AC</u>		<u>0.0</u>
#			
#			

RECORD TEMPERATURE BLANK (1) 0.0 (2) 0.1 (3) 0.0

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833-EB0101, H833-GW0101, H833-GW0801,
H833-GW0201, FTA-MW0201, FTA-MW0601



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II
PROJECT NO: 017618-4103
LABORATORY ID: SL5
TASK ORDER NO. _____
CASE ID: SC001
SDG ID: _____
SAMPLER NAME/SIGNATURE: David Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)*
5/21/94	1450	H833-EB0101	MW01	BR1		2	
	1455	H833-GW0101	MW01	P0		2	
	1510	H833-GW0801	MW08	P0		2	
	1530	H833-GW0201	MW02	P0		2	
	1600	FTA-MW0201	HMW02	P0		2	
	1725	FTA-MW0601	HMW06	P0		2	
↓	—	TEMP Blank					

Relinquished by: (Signature)	Date/Time:	Received by:	Date/Time:
<i>David L Howard</i>	<i>5/22/96/1328</i>	<i>David L Howard</i>	<i>5/22/96 1:28</i>

Remarks:

Send Results to:

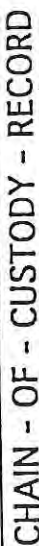
Christino Hettlinger

AIRTEL COMPANY NUMBER:

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

[illegible]

STANDARD PRESERVATION (Y):	
(11)	IC/VOG
(N)	INO3/METALS
(3)	H2SO4/
(O)	OTHER
	STORED/SHIPPED IN IC/VOG
NO: _____	



DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)*
5/21/96	1800	FTA-MW0501	HMW05	PØ		2	
	1800	FTA-MW0502	HMW05	D1		2	
	1835	FTA-MW1101	HMW11	PØ		2	
	1855	FTA-MW1201	HMW12	PØ		2	
	1920	FTA-MW1301	HMW13	PØ		2	
✓	—	TEMP Blank				1	

Send Results to:

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30351
(404) 801-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER: _____

Christine Ilettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER:

Send Results to:

ANALYTICAL PARAMETERS/METHODS

[illegible]

Method No.

STANDARD PRESERVATION (Y):

(H)	1IC/VOC,	STORED/SHIPPED IN 1CLO/N
(N)	1NO3/METALS	
(S)	1I2S04/	
(O)	OTHER	

NO:



PROJECT NAME: HunterAAF II

PROJECT NO: 017618-4103

LABORATORY ID: SL5

SAMPLER NAME/SIGNATURE: Daniel Howard

TASK ORDER NO.

CASE ID: SC001

SDG ID:

CHAIN - OF - CUSTODY - RECORD

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/21/96	1410	H833-TB0101	MW08	BT1		3	Y
5/21/96	1450	H833-EB0101	MW01	BR1		3X	Y
	1455	H833-GW0101	MW01	P0		3X	Y
	1510	H833-GW0801	MW08	P0		3X	Y
	1530	H833-GW0201	MW02	P0		3X	Y
	1600	FTA-MW0201	HMW02	P0		3X	Y
	1635	FTA-MW0101	HMW01	P0		5	Y
	1635	FTA-MW0101MS/MSD	HMW01	SL1		10	Y

Relinquished by: Daniel Howard Date/Time: 5/22/96/1328 Received by: SL-82940 Date/Time: 5/22/96 1328

Remarks:

Send Results to:

Christina Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER:

ANALYTICAL PARAMETERS/METHODS

ANALYTICAL PARAMETERS/METHODS	Method No.	NO.
HERBICIDES	8	8
PESTICIDES	1	1
PCB	0	0
TPH	0	0
METALS	3	3
ICP	3	3
IG-CVAA	3	3
GFAA	3	3
SYNTHETIC	3	3
PAH	2	2
VOC	6	4

STANDARD PRESERVATION (Y):

- (N) ICI/VOC
- (S) 1103/METALS
- (O) 112504/
- OTHER
- STORED/SHIPPED IN ICE

NO:



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II TASK ORDER NO. _____
PROJECT NO: 017618-4103 CASE ID: SC001
LABORATORY ID: SLS SDG ID: _____
SAMPLER NAME/SIGNATURE: Daniel Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)?
5/21/96	1725	FTA-MW0601	HMW06	P0		3	
	1800	FTA-MW0501	HMW05	P0		3	
	1800	FTA-MW0502	HMW05	D1		3	
	1835	FTA-MW01101	HMW11	P0		3	
	1855	FTA-MW1201	HMW12	P0		3	
	1920	FTA-MW1301	HMW13	P0		3	
↓	-	TEMP Blank				1	

Relinquished by: Daniel L Howard Date/Time: 5/22/96/1328 Received by: SL-82940 Date/Time: 5/22/96 1:28
(Signature) ALC as per 001A

Remarks: _____

Send Results to: _____ AIRBILL CO./NUMBER: _____

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

ANALYTICAL PARAMETERS/METHODS

SVOC	Metals ICP Hg-CVAA GFAA	HERBICIDES	PESTICIDES	PCB	TPH			
8020								
3								
3								
3								
3								
3								
3								

STANDARD PRESERVATION (Y):
IC/VO, (N)
INO3/METALS (S)
I2SO4/ (O)
OTHER _____
STORED/SHIPPED IN ICE/Y/N _____
NO: _____



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY

UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN P. Bonds A 56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96, 1:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT

--	--

COOLER OPENED: DATE 5-23-96 TIME 2:00pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 1

TEMP INSIDE COOLER

3.2°C

RECORD TEMPERATURE BLANK (1) 3.2°C

(2) _____

(3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

FTA - MW0301, MW0401, MW0402, MW1001, 1833-GW3201, GW3202

LIST SAMPLE ID'S IN EACH SHIPMENT: _____



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bonds B 36-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96, 2:00pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT1 of 2COOLER OPENED: DATE 5-23-96 TIME 2:00pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED water

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 2

TEMP INSIDE COOLER

3.5°C

RECORD TEMPERATURE BLANK (1) 3.5°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

#833-GW1901, GW1801, GW1101, GW1701, GW1201

LIST SAMPLE ID'S IN EACH SHIPMENT: _____



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY.
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT.

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bonds SL-82983 TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96, 1:20 pmAIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 2 of 2COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 2 TEMP INSIDE COOLER 3.5°C

RECORD TEMPERATURE BLANK (1) 3.5°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

14833 - TB0301, GW0701, GW1501, GW1601, GW2001, GW2002
GW2001 MS/MSD, GW2201

LIST SAMPLE ID'S IN EACH SHIPMENT: _____



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN E. Bonds C SL-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT 1COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

COOLER NUMBER # 413FROZEN

TEMP INSIDE COOLER

5.0°C

RECORD TEMPERATURE BLANK (1) 4.0°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

H833-6W0301 MS/MSD, 6W1301, 6W2101, 6W2801

LIST SAMPLE ID'S IN EACH SHIPMENT: _____



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bonds D TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96, 1:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT 1 of 3COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN _____

COOLER NUMBER # 54 TEMP INSIDE COOLER 4.1°C

RECORD TEMPERATURE BLANK (1) 4.1°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: 17833-TB0201, GW3001, GW2901, GW2601
GW2501, GW2301, GW2701, GW2401



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Brindley SL-82983 TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96, 1:20 pmAIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 2 of 3COOLER OPENED: DATE 5-23-96 TIME 2:10 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED water

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 4 TEMP INSIDE COOLER 4.1°C

RECORD TEMPERATURE BLANK (1) 4.1°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833-GW 2702, FTA-MW0901, MW0801
MW0301, MW0401, MW0402, MW1001, H833-GW 3201



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN P. bonds D 482983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT3 of 3COOLER OPENED: DATE 5-23-96 TIME 2:00pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZEN _____

COOLER NUMBER # B4

TEMP INSIDE COOLER

4.1°C

RECORD TEMPERATURE BLANK (1) 4.1°C

(2) _____

(3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT:

14833 - GW3202



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bond E SL-82983 TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20 pmAIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 2 of 2COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 5 TEMP INSIDE COOLER 3.0°C

RECORD TEMPERATURE BLANK (1) 3.0°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: 8833-GW0902, GW0301, GW0301 MS/MSD
GW1301, GW2101, GW2801



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY.
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016502-4102/HAAFSAMPLE CUSTODIAN L. Bond E 56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT1 of 2COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 5

TEMP INSIDE COOLER

3.0 °C

RECORD TEMPERATURE BLANK (1) 3.0 °C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833-TB0401, Gw3101, Gw0501,
Gw0601, Gw0401, Gw1001, Gw1401, Gw0901



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN C. Bondi F. 56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT 1COOLER OPENED: DATE 5-23-96 TIME 2:00 pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED water

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZENCOOLER NUMBER # 6TEMP INSIDE COOLER 6.8°C

RECORD TEMPERATURE BLANK (1) 6.8°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: #833-GW1001, GW1401, GW0901,
GW0902, GW0301



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bonds G 56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT ☐

COOLER OPENED: DATE _____ TIME _____

CHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED Wet Ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

FROZEN _____

COOLER NUMBER # 7TEMP INSIDE COOLER 5.3°C

RECORD TEMPERATURE BLANK (1) 5.3°C

(2) _____

(3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833- GW2007, GW2001 MS/MSD, GW2201
GW1901, GW1801



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY
UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN R. Bonds # 56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-96 1:20

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT 1COOLER OPENED: DATE 5-23-96 TIME 2:00pmCHAIN OF CUSTODY SEAL INTACT? YES ☒ NO ☐CHAIN OF CUSTODY PROVIDED? YES ☒ NO ☐SAMPLE LABELS PRESENT? YES ☒ NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒ NO ☐TYPE OF COLLANT USED wet Ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

COOLER NUMBER # 8FROZENTEMP INSIDE COOLER 5.7°C

RECORD TEMPERATURE BLANK (1) 5.7°C (2) _____ (3) _____CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H 833- GW 1101, GW 1701, GW 1201



SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY

UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGERFAX # 404/872-3161SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAFSAMPLE CUSTODIAN L. Bonds I56-82983TODAY'S DATE 5-23-96DATE/TIME SAMPLES RECEIVED 5-23-961:20 pm

AIRBILL NUMBER _____

NO. OF COOLERS
IN SHIPMENT1COOLER OPENED: DATE 5-23-96TIME 2:10 pm

CHAIN OF CUSTODY SEAL INTACT?

YES ☒NO ☐

CHAIN OF CUSTODY PROVIDED?

YES ☒NO ☐

SAMPLE LABELS PRESENT?

YES ☒NO ☐BOTTLE LABELS CORRESPOND W/COC? YES ☒NO ☐TYPE OF COLLANT USED Wet ice

COOLANT CONDITION: MELTED _____

PARTIALLY MELTED/FROZEN _____

COOLER NUMBER # 9FROZENTEMP INSIDE COOLER 4.4°C

RECORD TEMPERATURE BLANK (1) 4.4°C

(2) _____

(3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H833-GW2301, GW2701, 2702, GW24016206 FTA - MW 0901, MW 0801



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: HunterAAF II TASK ORDER NO. _____
PROJECT NO: 017618-4103 CASE ID: SC001
LABORATORY ID: SL5 SDG ID: _____
SAMPLER NAME/SIGNATURE: Daniel Howard

DATE	TIME (MILITARY)	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FE)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/21/96	1800	FTA-MW0501	HMW05	P0		2	
	1800	FTA-MW0502	HMW05	D1		2	
	1835	FTA-MW1101	HMW11	P0		2	
	1855	FTA-MW1201	HMW12	P0		2	
	1920	FTA-MW1301	HMW13	P0		2	
↓	—	TEMP Blank				1	

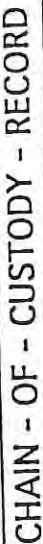
Relinquished by: Daniel L Howard Date/Time: 5/22/96 1320 Received by: SL-85940 Date/Time: 5/22/96 1128
(Signature) Daniel L Howard (Signature) SL-85940

Remarks: _____
Send Results to: _____ AIRBILL CO./NUMBER: _____

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

ANALYTICAL PARAMETERS/METHODS									
VOCs	8100	2	2	2	2	2			
PAH	2	2	2	2	2	2			
ICP									
11g-CVAA									
GFAA									
HERBICIDES									
PESTICIDES									
PCEB									
TPH									

STANDARD PRESERVATION (Y):
(H) HCVOC,
(N) HNO3/METALS
(S) 112504/
(O) OTHER
STORED/SHIPPED IN ICE/DN
NO: _____



TASK ORDER NO. _____

CASE ID: 5C001

SDG ID: _____

SAMPLER NAME/SIGNATURE: Daniel Norwood

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO OF CONTS.	PRESERVATION STANDARD (Y/N):
5/21/96	1725	FTA-MW0601	HMW06	P0		3	
	1800	FTA-MW0501	HMW05	P0		3	
	1800	FTA-MW0502	HMW05	D1		3	
	1835	FTA-MW01101	HMW11	P0		3	
	1855	FTA-MW1201	HMW12	P0		3	
	1920	FTA-MW1301	HMW13	P0		3	
↓	—	TEMP Blank				1	

Relinquished by: Janet Z. Howard Date/Time: 5/2/96/1328
(Signature) Received by: Jo-Ann Date/Time: 5/2/96 1:28
OCLAS 11A

Remarks:

Send Results to: Christine Hettlinger AIRBILL CO./NUMBER:

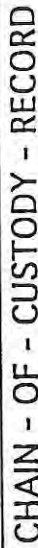
AIRBILL CO./NUMBER:

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

STANDARD PRESERVATION (Y):

(III)	IIC1/VOC,
(N)	IINO3/METALS
(S)	IIS04/
(O)	OTHER _____
	STORED/SHIPPED

NO:



TASK ORDER NO.

CASE ID: SC001

SDG ID:

LABORATORY ID: 562
SAMPLER NAME/SIGNATURE: Daniel Howard

Resolved by: 51-82211

Received by: 56-82940

Remarks:

Send Results to:

Christina Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRELL CO./NUMBER:

ANALYTICAL PARAMETERS/METHODS

Method No.	VOCs	SVOCs	Metals ICP 110-CVAA GFAA	Herbicides	Pesticides	PCBs	TPH
6	3	3					
7	3	3					
8	3	3					
9	3	3					
10	3	3					
11	3	3					
12	3	3					
13	3	3					
14	3	3					
15	3	3					
16	3	3					
17	3	3					
18	3	3					
19	3	3					
20	3	3					
21	3	3					
22	3	3					
23	3	3					
24	3	3					
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26	3	3					
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31	3	3					
32	3	3					
33	3	3					
34	3	3					
35	3	3					
36	3	3					
37	3	3					
38	3	3					
39	3	3					
40	3	3					
41	3	3					
42	3	3					
43	3	3					
44	3	3					
45	3	3					
46	3	3					
47	3	3					
48	3	3					
49	3	3					
50	3	3					
51	3	3					
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53	3	3					
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56	3	3					
57	3	3					
58	3	3					
59	3	3					
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61	3	3					
62	3	3					
63	3	3					
64	3	3					
65	3	3					
66	3	3					
67	3	3					
68	3	3					
69	3	3					
70	3	3					
71	3	3					
72	3	3					
73	3	3					
74	3	3					
75	3	3					
76	3	3					
77	3	3					
78	3	3					
79	3	3					

STANDARD PRESERVATION (Y):

(11) ICI/VOC,
(N) INO3/METALS
(S) I2S04/
(O) OTHER _____
STORED/SHIPPED

NO:



DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS	PRESERVATION STANDARD (%N) ²
5/22/96	1150	FTA-MW0301	HMW03	PØ		2	
1	1220	FTA-MW0401	HMW04	PØ		2	
	1220	FTA-MW0402	HMW04	D2		2	
	1245	FTA-MW1001	HMW10	PØ		2	
	1450	H833-GW3201	MW32	PØ		2	
	1450	H833-GW3202	MW32	PØ D3		2	
✓	-	TEMP Blank				1	

Remarks:

Send Results to:

Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER: _____

AIRBILL CO./NUMBER:

Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

Send Results to:

Send Results to:

ANALYTICAL PARAMETERS/METHODS

[illegible]

STANDARD PRESERVATION (Y):

(H)	HCl/VO ₂
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER

STORED/SHIPPED IN ICE/Y/N

NO: _____



PROJECT NAME: Hunter AAF II

PROJECT NO: 017618-4183

LABORATORY ID: SLS

SAMPLER NAME/SIGNATURE: Daniel Howard

CHAIN - OF - CUSTODY - RECORD

TASK ORDER NO.

CASE ID:

SDG ID:

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)*
5/23/16	0855	H833-GW1001	MW10	PØ		2	N
↓	0915	H833-GW1401	MW14	PØ		2	N
↓	0930	H833-GW0901	MW09	PØ		2	N
↓	0930	H833-GW0902	MW09	D1		2	N
↓	0955	H833-GW0301	MW03	PØ		2	N
↓	—	TEMP Blank				1	

Relinquished by: (Signature)	<u>David L Howard</u>	Date/Time:	<u>5/23/96/1320</u>
Received by:	<u>P. J. Mads</u>	Date/Time:	<u>5-23-96/1700pm</u>

Remarks:

Send Results to:

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER:

VOC S	S V O C P A H	M E T A L S ICP Hg-CVAA GFAA	H E R B I C I D E E S	P E S T I C I D E E S	P C B	T P H
	8100					
	2					
	2					
	2					
	2					
	2					

STANDARD PRESERVATION (Y):

(H) HCLVOC,

(N) HNO₃/METALS
(S) H₂SO₄/

(S)	H2S04/
(O)	OTIER

OTHER _____
STORED/SHIPPED IN ICE YAN

NO:

(12)



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II
PROJECT NO: 017618-4103
LABORATORY ID: 5LS
SAMPLER NAME/SIGNATURE: Daniel Howard
TASK ORDER NO. _____
CASE ID: 5C001
SDG ID: _____

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/23/96	0955	H833-GW301 MSD	MW03	SL1		4	N
	1015	H833-GW1301	MW13	PØ		2	N
	1035	H833-GW2101	MW21	PØ		2	N
	1102	H833-GW3801	MW28	PØ		2	N
	—	Temp Blank				1	

Relinquished by: Daniel L Howard Date/Time: 5/23/96/1320
Received by: L. Bond Date/Time: 5-23-96/1:20pm

Remarks: _____

Send Results to: _____

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER: _____

ANALYTICAL PARAMETERS/METHODS									
VOCs		SVOCs		METALS		HERBICIDES		PESTICIDES	
				ICP 110-CVAA GFAA					

⑤



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II TASK ORDER NO. _____
 PROJECT NO: 017618-4103 CASE ID: SC001
 LABORATORY ID: SL5 SDG ID: _____
 SAMPLER NAME/SIGNATURE: Daniel Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)
5/22/95	0945	H833-GW2301	MW23	PØ		2	N
	1005	H833-GW2701	MW27	PØ		2	N
	1005	H833-GW2702	MW27	D1		2	N
	1030	H833-GW2401	MW24	PØ		2	N
	1110	FTA-MW0901	HMW09	PØ		2	N
	1130	FTA-MW0801	HMW08	PØ		2	N
✓	-	TEMP Blank				1	

Relinquished by: Daniel Z Howard Date/Time: 5/23/96/1320 Received by: L. Bonds Date/Time: 5-23-96/1:20pm
 (Signature) SL-82983

Remarks:

Send Results to:

Christine Hettlinger
 METCALF & EDDY, INC.
 1201 Peachtree St., N.E.
 400 Colony Square, Suite 1101
 Atlanta, Georgia 30361
 (404) 881-8010
 (404) 872-3161 (FAX)

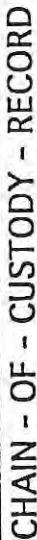
AIRBILL CO./NUMBER:

ANALYTICAL PARAMETERS/METHODS

VOCs	SY	Metals	ICP	11g-CVAA	GFAA	H E R B I C I D E S	P E S T I C I D E S	P C B	T P H
	PAH								
8	1	0	0						
2									
2									
2									
2									
2									
2									

Method No.

STANDARD PRESERVATION (Y):
 (H) HCl/VOC,
 (N) HNO3/METALS
 (S) H2SO4/
 (O) OTHER
 STORED/SHIPPED IN ICE (Y)N
 NO: _____



DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/22/96	1755	H833-GW1101	MW11	PØ		2	N
	1815	H833-GW1701	MW17	PØ		2	N
	1835	H833-GW1201	MW12	PØ		2	N
↓	—	TEMP Blank				1	

Remarks:

Christine Hettinger
MMETCALF & EDDY, INC.
 1201 Peachtree St., N.E.
 400 Colony Square, Suite 1101
 Atlanta, Georgia 30361
 (404) 881-8010
 (404) 872-3161 (FAX)

AIRBILL CO./NUMBER:

Send Results to:

STANDARD PRESERVATION (Y):

(H)	HIC/VOC,
(N)	HINO3/METALS
(S)	H2SO4/
(O)	OTHER

NO: STORED/SHIPPED IN ICE



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF TASK ORDER NO. _____
PROJECT NO: 017618-4103 CASE ID: 5C001
LABORATORY ID: SL5 SDG ID: _____
SAMPLER NAME/SIGNATURE: Daniel Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)
5/22/96	1625	H 833 - GW2002	MW20	D4		2	N
	1625	H833-GW2001 MS/MSD	MW20	SL1		4	N
	1700	H833-GW2201	MW22	P0		2	N
	1720	H833-GW1901	MW19	P0		2	N
	1740	H833-GW1801	MW18	P0		2	N
↓	—	TEMP Blank				1	

Relinquished by: Daniel Z Howard Date/Time: 5/23/96/1320 Received by: C. Howard Date/Time: 5-23-96/1:20pm
(Signature)

Remarks:

Send Results to:

Christina Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

ARBILL CO./NUMBER:

ANALYTICAL PARAMETERS/METHODS

VOCs	Syng	Metals	Hg-CVAA	ICP	GFAA	H E R B I C I D E S	P E S T I C I D E S	P C B	T P H
	P A H								
	8100								
	2								
	2								
	2								
	2								
	2								

Method No.

STANDARD PRESERVATION (Y):

(H) HCL/VOC,

(N) HNO3/METALS

(S) H2SO4/

(O) OTHER

STORED/SHIPPED IN ICE ON

NO:



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II TASK ORDER NO. _____
PROJECT NO: 017618-4103 CASE ID: SC001
LABORATORY ID: 5LS SDG ID: _____
SAMPLER NAME/SIGNATURE: Daniel Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)
5/22/96	1515	H833-TB0301	MW07	BT2		3	Y
	1520	H833-GW0701	MW07	P0		5	Y
	1545	H833-GW1501	MW15	P0		5	Y
	1600	H833-GW1601	MW16	P0		5	Y
	1625	H833-GW2001	MW20	P0		5	Y
	1625	H833-GW2002	MW20	D4		3	Y
	1625	H833-GW2001 MSD	MW20	SL1		6	Y
	1700	H833-GW2201	MW22	P0		3	Y

Relinquished by: Daniel L Howard Date/Time: 5/22/96 1320
(Signature) Daniel L Howard Date/Time: 5/23/96 1200
Received by: L. B. Boudry Date/Time: 5/23/96 1200

Remarks: _____

Send Results to: **Christine Hettinger**
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER: _____

ANALYTICAL PARAMETERS/METHODS

VOCs	S/C	Metals	ICP	Hg-CVAA	GFAA	HERBICIDES	PESTICIDES	PCEB	TPH		
8	0	0	0	0	0						
3	2	3	2	3	2						
3	2	3	2	3	2						
3	2	3	2	3	2						
3	2	3	2	3	2						
3	2	3	2	3	2						
6	3	6	3	6	3						
3	3	3	3	3	3						

STANDARD PRESERVATION (Y):
(H) HCl/VOC,
(N) HNO3/METALS
(S) H2SO4/
(O) OTHER
STORED/SHIPPED IN ICE (N)
NO: _____

CHAIN - OF - CUSTODY - RECORD



PROJECT NAME: Hunter AAF II
PROJECT NO: 017618-4103
LABORATORY ID: SL5
SAMPLER NAME/SIGNATURE: Daniel L Howard

TASK ORDER NO. _____
CASE ID: SC001
SDG ID: _____

SAMPLER NAME/SIGNATURE: Daniel L Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)?
5/22/96	0800	H833-TB0201	MW30	BT1		3	Y
	0815	H833-GW3001	MW30	PØ		5	Y
	0835	H833-GW2901	MW29	PØ		5	Y
	0855	H833-GW2601	MW26	PØ		5	Y
	0925	H833-GW2501	MW25	PØ		5	Y
	0945	H833-GW2301	MW23	PØ		3	Y
	1005	H833-GW2701	MW27	PØ		3	Y
	1030	H833-GW2401	MW24	PØ		3	Y

Relinquished by: (Signature)	Date/Time:	Received by:	Date/Time:
Daniel L Howard	5/23/96/1320	L. Howard	5-23-96 1:20pm

Remarks:

Send Results to:

Christine Hettlinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

AIRBILL CO./NUMBER:

[illegible]

STANDARD PRESERVATION (Y):

ИДЕНТИФИКАЦИОННО-ПРОФИЛЬНИ

(N) HNO₃/METALS

(S) H2S04/

(b) OTHER — STOPPED/

א. חתום על הצהרה

NO:

10



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II
PROJECT NO: 017618-4103
LABORATORY ID: SL5
SAMPLER NAME/SIGNATURE: Daniel Howard
TASK ORDER NO. _____
CASE ID: SC001
SDG ID: _____

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)
5/23/96	0725	H833-TB0401	MW31	BT1		3	Y
	0735	H833-GW3101	MW31	P0		5	Y
	0805	H833-GW0501	MW05	P0		5	Y
	0820	H833-GW0601	MW06	P0		5	Y
	0840	H833-GW0401	MW04	P0		5	Y
	0855	H833-GW1001	MW10	P0		3	Y
	0915	H833-GW1401	MW14	P0		3	Y
	0930	H833-GW0901	MW09	P0		3	Y

Relinquished by: Daniel Howard Date/Time: 5/23/96/1320
Received by: L. Bonds Date/Time: 5-23-96/1:24pm

Remarks: _____

Send Results to: _____ AIRBILL CO./NUMBER: _____

Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

10F2

ANALYTICAL PARAMETERS/METHODS									
VOCs	S/V	HETALS	HERBICIDES	PESTICIDES	PCBs	TPH			
8000	PAH	ICP 11g-CVAA GFAA							
3	8100								
3	2								
3	2								
3	2								
3	2								
3									
3									
3									

STANDARD PRESERVATION (Y):
(H) HCl/VOC,
(N) HNO3/METALS
(S) H2SO4/
(O) OTHER
STORED/SHIPPED IN ICE/N
NO: _____



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II
PROJECT NO: 617618-4103
LABORATORY ID: 3LS
SAMPLER NAME/SIGNATURE: Daniel Howard
TASK ORDER NO. _____
CASE ID: SC001
SDG ID: _____

DATE	TIME NIGHT/AY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/22/96	1005	H833-GW2702	MW27	D1		3	Y
	1110	FTA-MW0901	HMW09	P0		3	Y
	1130	FTA-MW0801	HMW08	P0		3	Y
	1150	FTA-MW0301	HMW03	P0		3	Y
	1220	FTA-MW0401	HMW04	P0		3	Y
	1220	FTA-MW0402	HMW04	D2		3	Y
	1245	FTA-MW1001	HMW10	P0		3	Y
	1450	H833-GW3201	MW32	P0		3	Y

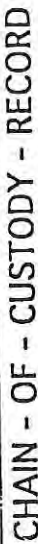
Relinquished by (Signature) Daniel K Howard Date/Time: 5/23/96/1320
Received by: L. B. Jones Date/Time: 5/23/96/1340

Remarks: _____
Send Results to: _____
AIRBILL CO./NUMBER: _____

Christine Hattlinger
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1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
4) 881-8010
4) 872-3161 (FAX)

ANALYTICAL PARAMETERS/METHODS									
VOCs	S/P	METALS ICP Hg-CVAA GFAA	HERBICIDES	PESTICIDES	P C B	T P H			
8030	PAH								
3									
3									
3									
3									
3									
3									
3									
3									
3									

STANDARD PRESERVATION (Y):
(H) HCl/VOC,
(N) HNO3/METALS
(S) H2SO4/
(O) OTHER
STORED/SHIPPED IN ICE (Y) (N)
NO: _____



DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS.	PRESERVATION STANDARD (Y/N)*
5/22/96	1720	H 833-GW1901	MW19	Pφ		3	Y
5/22/96	1746	H 833-GW1801	MW18	Pφ		3	Y
↓	1755	H 833-GW1101	MW11	Pφ		3	Y
↓	1815	H 833-GW1701	MW17	Pφ		3	Y
↓	1835	H 833-GW1201	MW12	Pφ		3	Y
↓		TEMP Blank				1	

Remarks:	
Send Results to:	Christine Hettinger METCALF & EDDY, INC. 1201 Peachtree St., N.E.
	AIRBILL CO./NUMBER:

**Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)**

AIRBILL CO./NUMBER:

Send Results to:

Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

STANDARD PRESERVATION (Y):

(M) HCl/VOC,
(N) HINO3/METALS

(N)	HNO ₃ /M
(S)	H ₂ SO ₄ /

OTHER _____
STORED/SHIPPED IN ICE (Y/N)

ÖN



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter AAF II TASK ORDER NO. _____
PROJECT NO: 017618-4103 CASE ID: SC001
LABORATORY ID: SL5 SDG ID: _____
SAMPLER NAME/SIGNATURE: Daniel L Howard

DATE	TIME MILITARY	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	PRESERVATION STANDARD (Y/N)*
5/23/96	0930	H8333-GW0902	MW09	D1		3	Y
	0955	H8333-GW0301	MW03	P0		3	Y
	0955	H8333-GW0301 MS/MSD	MW03	SL1		6	Y
	1015	H8333-GW1301	MW13	P0		3	Y
	1035	H8333-GW2101	MW21	P0		3	Y
	1102	H8333-GW2801	MW28	P0		3	Y
↓	-	Temp Blank				1	

Relinquished by: Daniel L Howard Date/Time: 5/23/96/1320 Received by: P. Bonds Date/Time: 5-23-96/1700pm
(Signature)

Remarks: _____

Send Results to: _____ AIRBILL CO./NUMBER: _____

Christine Hettinger
METCALF & EDDY, INC.
1201 Peachtree St., N.E.
Atlanta, Georgia 30361
(404) 881-8010
(404) 872-3161 (FAX)

2 of 2

ANALYTICAL PARAMETERS/METHODS

VOCs	SVOCS	METALS ICP 11g-CVAA GFAA	HERBICIDES	PESTICIDES	PCBs	PTH
8020						
3						
3						
6						
3						
3						
3						

STANDARD PRESERVATION (Y):
(H) HCl/VOC,
(N) HNO3/METALS
(S) H2SO4/
(O) OTHER
STORED/SHIPPED IN ICE ☒ N
NO: _____

APPENDIX F

MONITORING WELL SCHEMATICS, MONITORING WELL DEVELOPMENT SHEETS, AND PHOTOGRAPHS

MONITORING WELL CONSTRUCTION AND DEVELOPMENT/SAMPLING PROCEDURES

All monitoring wells were constructed using 2-inch I.D., flush-threaded schedule 40 PVC riser pipe that conforms to National Sanitation Foundation (NSF)/ASTM F480 potable-water grade requirements. Well screens were also made of the above material and were factory slotted. Slot size was determined so as to be compatible with the aquifer. Screen lengths were 10 feet long. The screen bottom was sealed with a 2-inch threaded PVC cap. Monitoring well depths range from 12.9 to 24.5 feet bls. The screen interval was placed in an attempt to bracket the water table.

Clean, inert, natural fine silica sand (30/45 grade) was used to construct a uniform and continuous filter pack extending from the well bottom to 2 feet above the screen. The filter sand was placed through the HSA column. The filter sand grain size used was compatible with the screen and aquifer. Filter pack depth was checked with a weighted measuring tape during placement.

A 2-foot-thick bentonite seal was installed above the filter pack. A commercial-grade bentonite in 3/8-inch pellet form was used and depth checked with a weighted measuring tape. The bentonite pellets were hydrated with 5 to 10 gallons of potable water and hydrating time was at least 1 hour before grouting.

All wells were completed flush to ground with a 6-inch-diameter airport grade manhole with a bolt-down cover to prevent tampering. For wells completed in grass, a 4-inch thick, 2-foot square concrete pad, sloped away from the well, was constructed around the steel manhole. Wells installed in concrete or asphalt pavement were completed within the 12-inch-diameter core through which drilling took place. This minimizes the disturbance of the pavement and reduces the potential for cracking at saw-cut edges or corners. Three holes were drilled into the interior of the cored pavement at offset angles of 120° for the insertion of steel reinforcement bars. A bonding agent (SKA-DUR 32, high-mod or equivalent) was applied to all exposed concrete surfaces following the insertion of steel reinforcement bars. The borehole annulus was filled with 5,000 psi concrete to the pavement surface. The 6-inch diameter, aircraft-rated steel manhole assembly was set into the concrete to protect the well.

The concrete and manhole assembly were completed flush to existing grade to minimize the

disturbance of the tarmac surface. All wells were fitted with a watertight, locking well cap. All locks are keyed alike. Monitoring well schematics are presented in this Appendix.

A metal plate bearing the contractor's name and registration number, date the well was completed, well number, total depth, depth of screen section, and depth to water was affixed to the well. The tag also bears a warning that the well is not for water supply and that groundwater may contain hazardous materials.

Well development began at least 48 hours after grouting. Development consisted of mechanical pumping. Water levels, specific conductance, temperature, and pH were measured and recorded before, during, and after development. Development continued until the water was clear and relatively free from sediment. At least five well volumes of water, including the saturated borehole volume (assuming 30 percent porosity) were removed during development. A clear glass jar was filled with groundwater from the well, labeled, and photographed with 35 mm color print film. Well development logs are provided in this Appendix.

Each well was allowed to chemically equilibrate for at least 2 weeks after development prior to sampling. Well sampling began with the well located in the area suspected of least contamination.

Prior to purging each well for sampling, a decontaminated water level indicator was used to determine groundwater level to calculate the amount of groundwater to be removed. At least three well casing volumes of water were removed before sampling each well. Using HDPE tubing and a Waterra check valve, purge water was discharged into a precalibrated container to determine the number of volumes purged. During purging, measurements of the temperature, conductivity, and pH of each volume of water were recorded as it was removed. Purging was discontinued after at least three volumes were removed provided the pH and conductivity readings were stabilized to within 10 percent from the previous reading.

Using a disposable teflon bailer and connecting cord, groundwater samples were collected for each well. The samples were refrigerated on ice and delivered to the laboratory for analysis. Samples were analyzed for BTEX via EPA Method 8020 and PAH analysis via EPA Method 8100.

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW 1</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/23/86</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>11.73' / 25.10'</i>	
FINISHED: <i>4/23/86</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN
GROUND SURFACE	0	37.0
GENERALIZED GEOLOGIC LOG	NA	—
TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: <i>Grout</i> TYPE: <i>Quickrete 5000</i> RISER CASING: DIA.: <i>2" PVC</i> TYPE: <i>Sch 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>Bentonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: <i>Silica Sand</i> TYPE: <i>30/45</i> SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010 in</i> TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE — SURFACE CASING: DIA.: <i>Flush Mount 6"</i> TYPE: <i>Manhole</i>	0.17	36.83
	NA	—
	2.5	34.33
	4.5	32.33
	7.0	29.83
	17.0	19.83
	17.4	19.43
	17.4	19.43

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 v DC whale Pump

TIME DEVELOPED:
4-30-86
1430 - 1530

HOLE DIAMETER
10 7/8"

COMMENTS:

11.50 ROC @ Development



GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW2</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/23/96</i>	SUPERVISOR: <i>D. Humphreys</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>11.28' / 26.17'</i>	
FINISHED: <i>4/23/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT.
GROUND SURFACE		0	37.6
SURFACE CASING: DIA.: 6" Flush mount manhole		NA	-
TOP OF PROTECTIVE CASING		0.15	37.45
PROTECTIVE CASING: DIA.: TYPE:		NA	-
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING			
BACKFILL: Grout TYPE: Quikrete 5000			
RISER CASING: DIA.: 2" TYPE: PVC sch 40		3.4	34.05
TOP OF SEAL			
ANNULAR SEAL: TYPE: bentonite		5.6	31.85
BOTTOM OF SEAL			
TOP OF SCREEN		7.6	29.85
FILTER MATERIAL: Silica Sand TYPE: 30/45			
SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010 in TYPE: slotted		17.6	19.85
BOTTOM OF SCREEN			
BOTTOM OF SUMP		18.0	19.45
BOTTOM OF HOLE		18.0	19.45

GENERALIZED GEOLOGIC LOG

11.03 TOC @ development

HOLE DIAMETER

10 7/8"

COMMENTS:

METHOD DRILLED:

6 1/4" ID HSA

METHOD DEVELOPED:

12 vdc whale pump

TIME DEVELOPED:

4-30-96
1442-1529

M&E
Metcalf & Eddy

GROUND WATER INSTALLATION		PROJECT: <i>H.A.F</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw3</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-24-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>9.92' / 27.63'</i>
FINISHED: <i>4-24-96</i>	DRILLER: <i>H. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN Ft	ELEV. IN Ft
	0	37.8
	NA	-
	0.25	37.55
	NA	-
	2.0	35.55
	4.0	33.55
	6.0	31.55
	16.0	21.55
	16.3	21.25
	16.5	21.05

GENERALIZED GEOLOGIC LOG

9.73 TOC @ development

METHOD DRILLED:
6 1/4" I.D. HSA

METHOD DEVELOPED:
12 v DC Whale Pump

TIME DEVELOPED:
*5-9-96
0810 - 1025*

GROUND SURFACE

DIA.: 6" Flush mount manhole

SURFACE CASING: TYPE:

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: TYPE:

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: concrete TYPE: Quikrete 5000

RISER CASING: DIA.: 2" TYPE: PVC Sch. 40

TOP OF SEAL

ANNULAR SEAL: TYPE: Bentonite

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: TYPE: 30/45 silica sand

SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010" TYPE: Slotted

BOTTOM OF SCREEN

BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER *16 7/8"*

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAR DAL</i>	JOB NO. <i>617618</i>	WELL NO. <i>H833-MW 4</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/24/96</i>	SUPERVISOR: <i>D. Humphreys</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>9.98' / 27.89'</i>	
FINISHED: <i>6/24/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	38.1
GENERALIZED GEOLOGIC LOG 	SURFACE CASING: DIA.: 6" <i>Flush Mount manhole</i> TYPE:	NA	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:	0.23	37.87
	TOP OF RISER CASING		
	BOTTOM OF SURFACE CASING	NA	—
	BACKFILL: TYPE: <i>Quikrete 5000</i> <i>Concrete</i>		
	RISER CASING: DIA.: 2" TYPE: <i>PVC sch. 40</i>	1.5	36.37
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: <i>Bentonite</i>	2.6	35.27
	BOTTOM OF SEAL		
TOP OF SCREEN	5.0	32.87	
FILTER MATERIAL: TYPE: <i>30/45</i> <i>Silica Sand</i>			
SCREEN: DIA.: 2" TYPE: <i>PVC</i> OPENING WIDTH: 0.010" TYPE: <i>slotted</i>	15.0	22.87	
BOTTOM OF SCREEN			
BOTTOM OF SUMP	15.4	22.47	
BOTTOM OF HOLE	16.0	21.87	

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
2" red: flo pump

TIME DEVELOPED:
5-9-96
0829-1208

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>4833.mw 5</i>
DRILLING CONTRACTOR: <i>PSE</i>		COORDINATES:		
BEGUN: <i>4-25-96</i>	SUPERVISOR: <i>G. Howell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.15' / 27.83'</i>	
FINISHED: <i>4-25-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft.
GROUND SURFACE		0	38.3
SURFACE CASING: DIA.: <i>6" Flush mount man hole</i>		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.32	37.98
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: concrete TYPE: <i>Quickrete 5000</i>			
RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC Sch. 40</i>		2.5'	35.48
TOP OF SEAL			
ANNULAR SEAL: TYPE: <i>Bentonite</i>		4.5'	33.48
BOTTOM OF SEAL			
TOP OF SCREEN		6.5'	31.48
FILTER MATERIAL: TYPE: <i>30/45 silica SAND</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>Slotted</i>		16.5'	21.48
BOTTOM OF SCREEN			
BOTTOM OF SUMP		16.9'	21.08
BOTTOM OF HOLE		17.5'	20.48

GENERALIZED GEOLOGIC LOG

± 9.97' TOC @ development

HOLE DIAMETER

10 7/8"

METHOD DRILLED:
6.25" ID HSA

METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
5-10-96
1145-1520

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw6</i>
DRILLING CONTRACTOR: <i>PST</i>		COORDINATES:		
BEGUN: <i>4-25-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>9.80' / 27.91</i>	
FINISHED: <i>4-25-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft
GROUND SURFACE		0	37.9'
GENERALIZED GEOLOGIC LOG 	NA	—	
	0.19	37.71	
	NA	—	
	2.0'	35.71	
	4.0'	33.71	
	6.0'	31.71	
	16.0'	21.71	
	16.4'	21.31	
	16.5'	21.21	

METHOD DRILLED:
6.25" I.D. H5A

METHOD DEVELOPED:
12 V DC whale pump

TIME DEVELOPED:
5-10-96
0750-1010

HOLE DIAMETER
10 3/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF DAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW7</i>
DRILLING CONTRACTOR: <i>P5J</i>		COORDINATES:		
BEGUN: <i>4/28/96</i>	SUPERVISOR: <i>D. Humphreys</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.34' / 27.82'</i>	
FINISHED: <i>4/28/96</i>	DRILLER: <i>N. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	38.5
SURFACE CASING: DIA.: 6" Flush mount manhole		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: — TYPE: —		0.34	38.16
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: Concrete TYPE: Quikrete 5000 psi			
RISER CASING: DIA.: 2" TYPE: PVC sch 40		1.6	36.56
TOP OF SEAL			
ANNULAR SEAL: TYPE: bentonite		3.4	34.76
BOTTOM OF SEAL			
TOP OF SCREEN		5.8	32.36
FILTER MATERIAL: Silica Sand TYPE: 30/45			
SCREEN: DIA.: 2" TYPE: PVC slotted OPENING WIDTH: 0.010 in		15.8	22.36
BOTTOM OF SCREEN			
BOTTOM OF SUMP		16.2	21.96
BOTTOM OF HOLE		16.2	21.96

GENERALIZED GEOLOGIC LOG

GROUND SURFACE

SURFACE CASING: DIA.: 6" Flush mount manhole

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: — TYPE: —

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: Concrete TYPE: Quikrete 5000 psi

RISER CASING: DIA.: 2" TYPE: PVC sch 40

TOP OF SEAL

ANNULAR SEAL: TYPE: bentonite

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: Silica Sand TYPE: 30/45

SCREEN: DIA.: 2" TYPE: PVC slotted
OPENING WIDTH: 0.010 in

BOTTOM OF SCREEN

BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER $10\frac{7}{8}$ "

DEPTH IN FT

ELEV. IN FT

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12V DC whale pump

TIME DEVELOPED:
5-7-96
1430-1533

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>4833-MW 8</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-24-96</i>	SUPERVISOR: <i>G. Procell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.50' / 26.60</i>	
FINISHED:	DRILLER: <i>K. Dearham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	37.4
SURFACE CASING: DIA.: 6" Flush mount manhole TYPE:		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.30	37.10
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: Concrete TYPE: Quikrete 5000			
RISER CASING: DIA.: 2" TYPE: PVC Sch. 40		2.5'	34.60
TOP OF SEAL			
ANNULAR SEAL: TYPE: Bentonite		4.5'	32.60
BOTTOM OF SEAL			
TOP OF SCREEN		7.0	30.10
FILTER MATERIAL: TYPE: 30/45 silica sand			
SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010" TYPE: Slotted		17.0	20.10
BOTTOM OF SCREEN			
BOTTOM OF SUMP		17.3'	19.80
BOTTOM OF HOLE		17.5'	19.60

GENERALIZED GEOLOGIC LOG

± 10.30' TOC @ development

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 V DC whale pump

TIME DEVELOPED:
4-30-96
1545-1720

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>R1833-mw 9</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-24-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>9.32' / 27.44'</i>
FINISHED: <i>4-24-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft
GROUND SURFACE		0	37.0
SURFACE CASING: DIA.: 6" Flush mount man hole TYPE:		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.24	36.76
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: Concrete TYPE: Quickrete 5000			
RISER CASING: DIA.: 2" TYPE: PVC Sch. 40		2.0	34.76
TOP OF SEAL			
ANNULAR SEAL: TYPE: Bentonite		4.0	32.76
BOTTOM OF SEAL			
TOP OF SCREEN		6.0	30.76
FILTER MATERIAL: TYPE: 30/45 Silica Sand			
SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010" TYPE: Slotted		16.0	20.76
BOTTOM OF SCREEN			
BOTTOM OF SUMP		16.3	20.46
BOTTOM OF HOLE		16.5	20.26

GENERALIZED GEOLOGIC LOG

9.20' TO C @ development

HOLE DIAMETER
10 7/8"

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
*12VDC whale pump
2" redi flo pump*

TIME DEVELOPED:
*5-9-96
1035 - 1405*

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw 10</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-24-96</i>	SUPERVISOR: <i>G. Howell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>9.36' / 27.79'</i>	
FINISHED: <i>4-24-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft
GROUND SURFACE		0	37.3
GENERALIZED GEOLOGIC LOG 	NA	—	
	0.15	37.15	
	NA	—	
	2.0	35.15	
	4.0	33.15	
	6.0	31.15	
	16.6	21.15	
	16.3	20.85	
	16.5	20.65	

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
2" red: p10 pump

TIME DEVELOPED:
5-9-96
1020-1212

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAT</i>	JOB NO. <i>017618</i>	WELL NO. <i>H855-MW11</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/23/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.00' / 24.66'</i>	
FINISHED: <i>4/23/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	34.8
SURFACE CASING: DIA.: 6" flush against manhole		NA	-
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.14	34.66
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	-
BACKFILL: Grout TYPE: Quickrete 5000			
RISER CASING: DIA.: 2" TYPE: PVC sch 40		2.5'	32.16
TOP OF SEAL			
ANNULAR SEAL: TYPE: bentonite		4.5'	30.16
BOTTOM OF SEAL			
TOP OF SCREEN		6.6'	28.06
FILTER MATERIAL: Silica Sand TYPE: 30/45			
SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010 in TYPE: slotted		16.6'	18.06
BOTTOM OF SCREEN			
BOTTOM OF SUMP		17.0'	17.66
BOTTOM OF HOLE		17.0'	17.66

GENERALIZED GEOLOGIC LOG

9.87' TOC @ development

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
4-30-96
1550-1636

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW12</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/22/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.10' / 26.30</i>	
FINISHED: <i>4/22/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	36.6
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: <i>6" Flush Mount manhole</i> TYPE: TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: <i>Grout</i> TYPE: <i>Qu. concrete 5000</i> RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC sch 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>Bentonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: TYPE: <i>Silica Sand 30/45</i> SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010in</i> TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE		NA	—
		0.20	36.40
		NA	—
		1.5	34.90
		3.2	33.20
		5.6	30.80
		15.6	20.80
		16.0	20.40
		16.0	20.40

METHOD DRILLED:
6 1/4" ID HSA

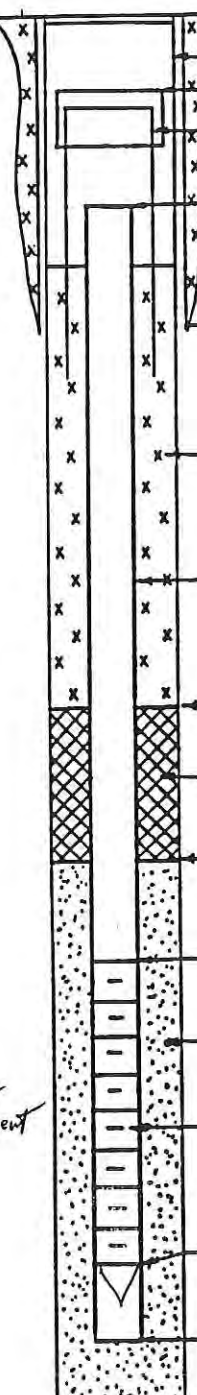
METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
5-1-96
D910-1305

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H 833-mw13</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-22-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>9.79' / 26.96'</i>
FINISHED: <i>4-22-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN Ft	ELEV. IN Ft.
GROUND SURFACE	0	36.9
GENERALIZED GEOLOGIC LOG  SURFACE CASING: DIA.: 6" Flush mount manhole TYPE: TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: Concrete TYPE: Quikrete 5000 RISER CASING: DIA.: 2" TYPE: PVC Sch. 40 TOP OF SEAL ANNULAR SEAL: TYPE: Bentonite BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: TYPE: 30/45 silica sand SCREEN: DIA.: 2" TYPE: PVC OPENING WIDTH: 0.010" TYPE: slotted BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE 9.71' TOC @ development	NA	—
	0.15	36.75
	NA	—
	1.7'	35.05
	3.0'	33.75
	5.0'	31.75
	15.0'	21.75
	15.3'	21.45
	15.5'	21.25

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
*12 vdc whale pump
2" red. flo pump*

TIME DEVELOPED:
*5-9-96
0802-1005*

HOLE DIAMETER

10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW14</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-22-96</i>	SUPERVISOR: <i>G. Howell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>8.28' / 27.34'</i>	
FINISHED: <i>4-22-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN Ft	ELEV. IN Ft.
GROUND SURFACE	0	35.8
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: 6" TYPE: <i>Flush mount manhole</i> TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: <i>Concrete</i> TYPE: <i>Quikrete 5000</i> RISER CASING: DIA.: 2" TYPE: <i>PVC sch 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>Bentonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: TYPE: <i>30/45 silica sand</i> SCREEN: DIA.: 2" TYPE: <i>PVC</i> OPENING WIDTH: 0.010" TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE HOLE DIAMETER: <i>10 7/8"</i>	NA	-
	0.18	35.62
	NA	-
	1.25'	34.37
	3.0'	32.62
	5.0'	30.62
	15.0'	20.62
	15.3'	20.32
	15.5'	20.12

METHOD DRILLED:
6.25" HSA I.D.

METHOD DEVELOPED:
2" red. flo pump

TIME DEVELOPED:
5-9-96
1520-1758

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF-DAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW15</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/25/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>7.95' / 27.79'</i>	
FINISHED: <i>4/25/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT.
GROUND SURFACE	0	35.9
	NA	—
	0.16	35.74
	NA	—
	1.5	34.24
	2.6	33.14
	4.7	31.04
	14.7	21.04
	14.9	20.84
	15.0	20.74

GENERALIZED GEOLOGIC LOG

7.90' TOC @ development

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 vdc whale pump
2" red: flo pump

TIME DEVELOPED:
5-8-96
1250-1518

Diagram labels:
 SURFACE CASING: DIA.: 6" *Flush mount manhole*
 TOP OF PROTECTIVE CASING
 PROTECTIVE CASING: DIA.:
 TOP OF RISER CASING
 BOTTOM OF SURFACE CASING
 BACKFILL: *Concrete* TYPE: *Quickrete 5000*
 RISER CASING: DIA.: 2" TYPE: *PVC Sch. 40*
 TOP OF SEAL
 ANNULAR SEAL: TYPE: *Bentonite*
 BOTTOM OF SEAL
 TOP OF SCREEN
 FILTER MATERIAL: *Silica Sand* TYPE: *30/45*
 SCREEN: DIA.: 2" TYPE: *PVC*
 OPENING WIDTH: *0.010 in* TYPE: *slotted*
 BOTTOM OF SCREEN
 BOTTOM OF SUMP
 BOTTOM OF HOLE

HOLE DIAMETER: *10 1/8"*

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF-DAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW16</i>
DRILLING CONTRACTOR: <i>P5I</i>		COORDINATES:		
BEGUN: <i>4/25/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>8.19' / 27.87</i>	
FINISHED: <i>4/25/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN Ft.
	0	36.3
	NA	—
	0.24	36.06
	NA	—
	1.3	34.76
	2.2'	33.86
	4.9'	31.16
	14.9'	21.16
	15.0'	21.06
	15.0'	21.06

GENERALIZED GEOLOGIC LOG

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 v DC Whale Pump
2" red: \$10 Pump

TIME DEVELOPED:
5-8-96
085B-1322

GROUND SURFACE

SURFACE CASING: DIA.: *6" Flush Mount manhole*

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: *—*

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: *Concrete* TYPE: *Quickrete 5000*

RISER CASING: DIA.: *2"* TYPE: *PVC sch 40*

TOP OF SEAL

ANNULAR SEAL: TYPE: *Bentonite*

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: *Silica Sand* TYPE: *30/45*

SCREEN: DIA.: *2"* TYPE: *PVC*
OPENING WIDTH: *0.010"* TYPE: *slotted*

BOTTOM OF SCREEN

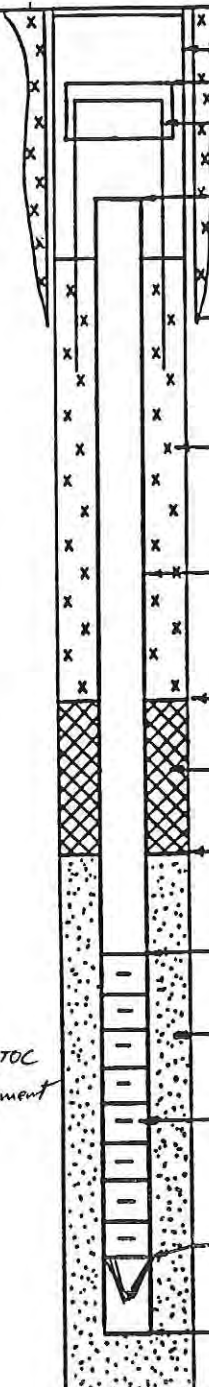
BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833MW17</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES: <i>DAG</i>		
BEGUN: <i>4/22/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>9.54' / 26.34'</i>
FINISHED: <i>4/22/96</i>	DRILLER: <i>M. Grizzle</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN Ft.
GROUND SURFACE	0	36.1
GENERALIZED GEOLOGIC LOG  DIA.: <i>6" Flush Mount manhole</i> TYPE:	NA	—
DIA.: TYPE:	0.13	35.88
DIA.: TYPE:	NA	—
DIA.: TYPE:	2.6'	33.28
DIA.: TYPE:	4.3'	31.58
DIA.: TYPE:	6.5'	29.38
DIA.: TYPE:	16.5'	19.38
DIA.: TYPE:	16.9	18.98
DIA.: TYPE:	17.0'	18.88

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12" DC whale pump

TIME DEVELOPED:
5-1-96
0840 - 0955

BACKFILL: *Concrete Grout* TYPE: *Quikrete 5000*

RISER CASING: DIA.: *2"* TYPE: *PVC sch 40*

ANNULAR SEAL: TYPE: *Bentonite pellets*

FILTER MATERIAL: TYPE: *30/45 Silica Sand*

SCREEN: DIA.: *2"* TYPE: *PVC*
OPENING WIDTH: *0.010 in* TYPE: *slotted*

HOLE DIAMETER: *10 7/8"*

COMMENTS:



GROUND WATER INSTALLATION		PROJECT: <i>HAAR</i>	JOB NO. <i>017618</i>	WELL NO. <i>H853-HW18</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/23/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>10.48' / 24.92'</i>	
FINISHED: <i>4/23/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT.
GROUND SURFACE	0	35.6
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: <i>6" Flush Mount manhole</i> TYPE: TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: <i>Concrete Grout</i> TYPE: <i>Quikrete 5000</i> RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC sch 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>bentonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: <i>Silica Sand</i> TYPE: <i>30/45</i> SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010 in</i> TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE	NA	—
	0.20	35.40
	NA	—
	2.2	33.20
	4.4	31.00
	6.6	28.80
	16.6	18.80
	17.0	18.40
	17.0	18.40

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC Whale Pump

TIME DEVELOPED:
4:30-9:40
0921 - 1040

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw19</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-22-96</i>	SUPERVISOR: <i>G. Howell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>9.18' / 26.28'</i>	
FINISHED: <i>4-22-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN · Ft	ELEV. IN Ft.
GROUND SURFACE		0	35.8
GENERALIZED GEOLOGIC LOG	SURFACE CASING: DIA.: <i>6" Flush Mount manhole</i> TYPE:	NA	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:		
	TOP OF RISER CASING	0.34	35.46
	BOTTOM OF SURFACE CASING	NA	—
	BACKFILL: Concrete TYPE: <i>Quickrete 5000</i>		
	RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC Sch. 40</i>	2.0'	33.46
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: <i>Bentonite</i>	4.0'	31.46
	BOTTOM OF SEAL	6.0'	29.46
TOP OF SCREEN			
FILTER MATERIAL: TYPE: <i>30/45 Silica Sand</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>slotted</i>	16.0'	19.46	
BOTTOM OF SCREEN	16.3'	19.16	
BOTTOM OF SUMP	16.5'	18.96	
BOTTOM OF HOLE			

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
4-30-96
1105-1225

HOLE DIAMETER
10 7/8"

COMMENTS:

M&E
Metcalfe & Eddy

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw20</i>
DRILLING CONTRACTOR: <i>PSF</i>		COORDINATES:		
BEGUN: <i>4-23-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>9.77' / 27.04</i>	
FINISHED: <i>4-23-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft.
GROUND SURFACE		<i>0</i>	<i>37.0</i>
SURFACE CASING: DIA.: <i>6" Flush Mount manhole</i> TYPE:		<i>NA</i>	<i>—</i>
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		<i>0.19</i>	<i>36.81</i>
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		<i>NA</i>	<i>—</i>
BACKFILL: <i>concrete</i> TYPE: <i>Quikrete 5000</i>			
RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC Sch. 40</i>		<i>3.0</i>	<i>33.81</i>
TOP OF SEAL			
ANNULAR SEAL: TYPE: <i>Bentonite</i>		<i>5.0'</i>	<i>31.81</i>
BOTTOM OF SEAL		<i>7.0'</i>	<i>29.81</i>
TOP OF SCREEN			
FILTER MATERIAL: TYPE: <i>30/45 Silica Sand</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>Slotted</i>		<i>17.0'</i>	<i>19.81</i>
BOTTOM OF SCREEN			
BOTTOM OF SUMP		<i>17.3'</i>	<i>19.51</i>
BOTTOM OF HOLE		<i>17.5'</i>	<i>19.31</i>

GENERALIZED GEOLOGIC LOG

9.71' roc @ development

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 V DC Whake Pump

TIME DEVELOPED:
5-8-96
1605-1730

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAIF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw21</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-23-96</i>	SUPERVISOR: <i>G. Lowell</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>9.72' / 26.10'</i>
FINISHED: <i>4-23-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN Ft.	ELEV. IN Ft.
GROUND SURFACE	<i>0</i>	<i>36.0</i>
	<i>NA</i>	<i>—</i>
	<i>0.18</i>	<i>35.82</i>
	<i>NA</i>	<i>—</i>
	<i>2'0"</i>	<i>33.82</i>
	<i>4'0"</i>	<i>31.82</i>
	<i>6'0"</i>	<i>29.82</i>
	<i>16'0"</i>	<i>19.82</i>
	<i>16.3'</i>	<i>19.52</i>
	<i>16.5'</i>	<i>19.32</i>

GENERALIZED GEOLOGIC LOG

SURFACE CASING: DIA.: *6"* TYPE: *Flush mount manhole*
 TOP OF PROTECTIVE CASING
 PROTECTIVE CASING: DIA.: TYPE: */*
 TOP OF RISER CASING
 BOTTOM OF SURFACE CASING
 BACKFILL: *Concrete* TYPE: *Quickrete 5000*
 RISER CASING: DIA.: *2"* TYPE: *pvc sch. 40*
 TOP OF SEAL
 ANNULAR SEAL: TYPE: *Bentonite*
 BOTTOM OF SEAL
 TOP OF SCREEN
 FILTER MATERIAL: TYPE: *30/45 Silica Sand*
 SCREEN: DIA.: *2"* TYPE: *PVC*
 OPENING WIDTH: *0.010"* TYPE: *slotted*
 BOTTOM OF SCREEN
 BOTTOM OF SUMP
 BOTTOM OF HOLE

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 V DC wheel pump
2" red: 1/10 Pump

TIME DEVELOPED:
4-30-96 / 5-9-96
1120-1300 / 1705-1730

HOLE DIAMETER
10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW22</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-23-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>8.74' / 26.70'</i>	
FINISHED: <i>4-23-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN Ft	ELEV. IN Ft.
GROUND SURFACE		0	35.7
GENERALIZED GEOLOGIC LOG 	NA	—	
	0.26	35.44	
	NA	—	
	2.0	33.44	
	4.0	31.44	
	6.0	29.44	
	16.0	19.44	
	16.3'	19.14	
	16.5'	18.94	

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 V DC whale pump

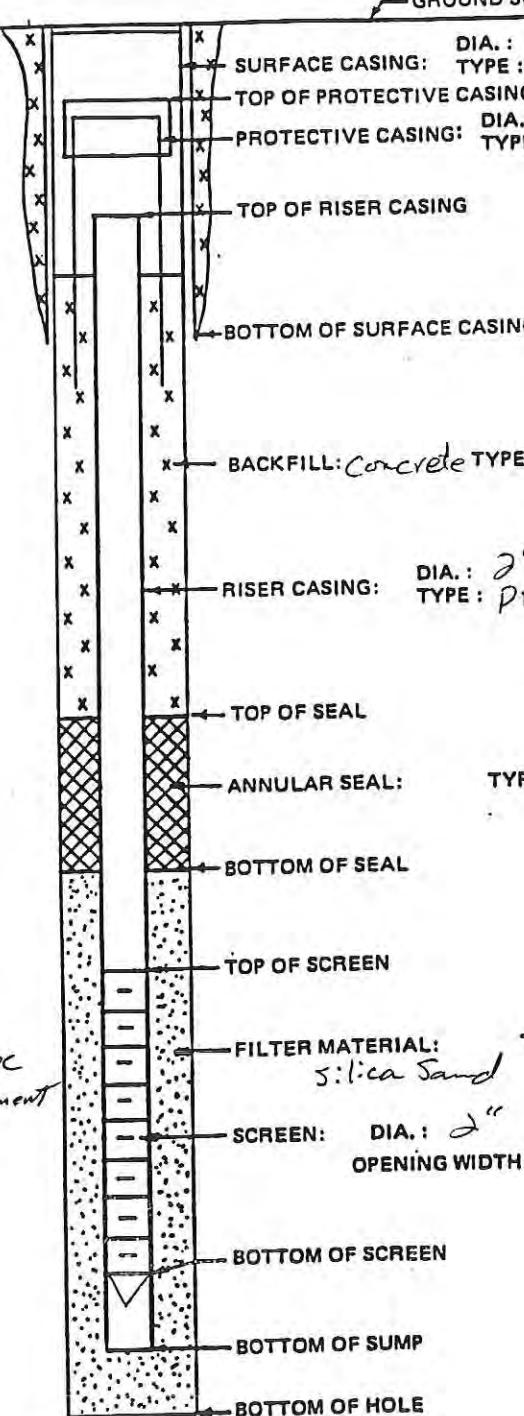
TIME DEVELOPED:
5-8-96
1425-1535

HOLE DIAMETER
10 1/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>H.A.F</i>	JOB NO. <i>017618</i>	WELL NO. <i>Att H833-MW23</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4-23-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>7.49' / 26.88</i>	
FINISHED: <i>4-23-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN	ELEV. IN
	. Ft	Ft.
	<i>0</i>	<i>34.60</i>

GENERALIZED GEOLOGIC LOG  METHOD DRILLED: <i>6.25" I.D. HSA</i> METHOD DEVELOPED: <i>12 V DC whale pump</i> TIME DEVELOPED: <i>5-7-96</i> <i>1630 - 1730</i>	SURFACE CASING: DIA.: <i>6" Flush mount manhole</i> TYPE:	NA	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:		
	TOP OF RISER CASING	<i>0.23</i>	<i>34.37</i>
	BOTTOM OF SURFACE CASING	NA	—
	BACKFILL: <i>Concrete</i> TYPE: <i>Quickrete 5000</i>		
	RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC Sch. 40</i>	<i>1.25'</i>	<i>33.12</i>
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: <i>Bentonite</i>	<i>3.0</i>	<i>31.37</i>
	BOTTOM OF SEAL		
TOP OF SCREEN	<i>5.0</i>	<i>29.37</i>	
FILTER MATERIAL: TYPE: <i>30/45</i> <i>5:1:ca Sand</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>Slotted</i>	<i>15.0</i>	<i>19.37</i>	
BOTTOM OF SCREEN			
BOTTOM OF SUMP	<i>15.4'</i>	<i>18.97</i>	
BOTTOM OF HOLE	<i>15.5'</i>	<i>18.87</i>	

HOLE DIAMETER: *10 7/8"*

COMMENTS:

7.45' roc @ development



GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833.mw 24</i>
DRILLING CONTRACTOR: <i>PSF</i>		COORDINATES:		
BEGUN: <i>4-23-96</i>	SUPERVISOR: <i>G. Russell</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>8.16' / 26.63'</i>
FINISHED: <i>4-23-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	34.9
SURFACE CASING: DIA.: <i>6" Flush mount manhole</i>		NA	—
TOP OF PROTECTIVE CASING		0.11	34.79
PROTECTIVE CASING: DIA.: TYPE:		NA	—
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING			
BACKFILL Concrete TYPE: <i>Quickrete 5000</i>			
RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC sch. 40</i>		1.25'	33.54
TOP OF SEAL			
ANNULAR SEAL: TYPE: <i>Bentonite</i>		3.0	31.79
BOTTOM OF SEAL		5.0	29.79
TOP OF SCREEN			
FILTER MATERIAL: TYPE: <i>30/45 silica sand</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>slotted</i>		15.0	19.79
BOTTOM OF SCREEN		15.3'	19.49
BOTTOM OF SUMP		15.3'	19.49
BOTTOM OF HOLE			

GENERALIZED GEOLOGIC LOG

8.09' TOC @ development

METHOD DRILLED:
6.25" I.D. HSA

METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
5-7-96
1615-1715

HOLE DIAMETER

10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAFDAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW25</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/24/96</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>7.94' / 27.15'</i>	
FINISHED: <i>4/29/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN	ELEV. IN
	<i>FT</i>	<i>FT.</i>
	<i>0</i>	<i>35.3</i>
	<i>NA</i>	<i>-</i>
	<i>0.21</i>	<i>35.09</i>
	<i>NA</i>	<i>-</i>
	<i>1.5</i>	<i>33.59</i>
	<i>2.5</i>	<i>32.59</i>
	<i>4.8</i>	<i>30.29</i>
	<i>14.8</i>	<i>20.29</i>
	<i>15.2</i>	<i>19.89</i>
	<i>15.2</i>	<i>19.89</i>

GENERALIZED GEOLOGIC LOG

GROUND SURFACE

SURFACE CASING: DIA.: *6" Flush mount manhole* TYPE:

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: TYPE:

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: *Concrete* TYPE: *Quickrete 5000*

RISER CASING: DIA.: *2"* TYPE: *PVC sch 40*

TOP OF SEAL

ANNULAR SEAL: TYPE: *bentonite*

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: *Silica Sand* TYPE: *30/45*

SCREEN: DIA.: *2"* TYPE: *PVC* OPENING WIDTH: *0.010 in* TYPE: *slotted*

BOTTOM OF SCREEN

BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER *10 1/8"*

COMMENTS:

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC whale pump

TIME DEVELOPED:
5-8-96
0950-1100

7.90' TOC @ development

GROUND WATER INSTALLATION		PROJECT: <i>HAAR-DAG</i>	JOB NO. <i>017615</i>	WELL NO. <i>#833-MW26</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/24/94</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>8.66' / 27.51'</i>
FINISHED: <i>4/24/96</i>	DRILLER: <i>N. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT.
GROUND SURFACE		0	36.4
SURFACE CASING: DIA.: 6" Flush mount manhole		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.23	36.17
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: TYPE: <i>Quikrete 5000</i>			
RISER CASING: DIA.: 2" TYPE: <i>PVC 50490</i>		1.6	34.57
TOP OF SEAL			
ANNULAR SEAL: TYPE: <i>benfonite</i>		2.9	33.27
BOTTOM OF SEAL			
TOP OF SCREEN		4.7	31.47
FILTER MATERIAL: TYPE: <i>30/45 Silica Sand</i>			
SCREEN: DIA.: 2" TYPE: <i>PVC</i> OPENING WIDTH: <i>0.06 in</i> TYPE: <i>slotted</i>		14.7	21.47
BOTTOM OF SCREEN			
BOTTOM OF SUMP		15.0	21.17
BOTTOM OF HOLE		15.0	21.17

GENERALIZED GEOLOGIC LOG

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC whale pump

TIME DEVELOPED:
5-8-96
0815-0935

HOLE DIAMETER
10 1/8"

COMMENTS:

M&E
Metcalf & Eddy

GROUND WATER INSTALLATION		PROJECT: <i>HAAF-DAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>14833-MW 27</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/24/96</i>	SUPERVISOR: <i>D. Humphreys</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>7.88' / 26.91'</i>	
FINISHED: <i>4/24/96</i>	DRILLER: <i>M. Grubbe</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	35.0
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: <i>6"</i> TYPE: <i>Flush mount manhole</i> TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: TYPE: <i>Concrete Quickrete 5000</i> RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC SL 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>bentonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: TYPE: <i>Silica Sand 30/45</i> SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010 in</i> TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE	NA	—
	0.21	34.79
	NA	—
	1.3	33.49
	2.3	32.49
	4.5	30.29
	14.5	20.29
	14.9	19.89
	15.0	19.79

METHOD DRILLED:
6 1/4" ID HSA

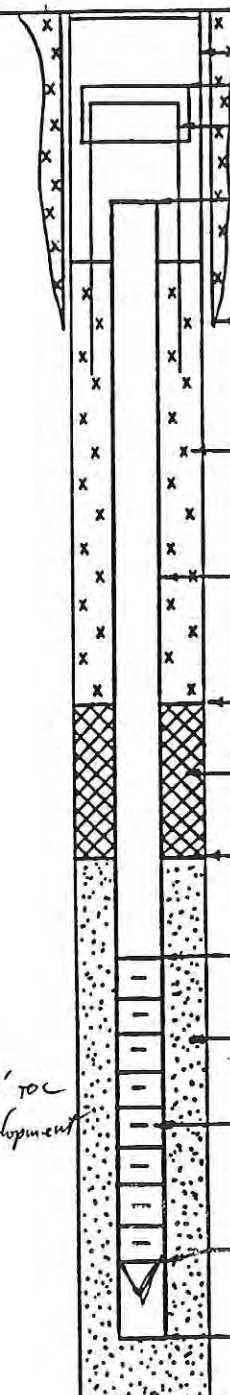
METHOD DEVELOPED:
12 V DC whale pump

TIME DEVELOPED:
5-8-96
1305-1410

HOLE DIAMETER
10 1/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAR-DAG</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW28</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/25/96</i>	SUPERVISOR:	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>10.15' / 25.03'</i>
FINISHED: <i>5/28/96</i>	DRILLER:			

REFERENCE POINT & ELEVATION:		DEPTH IN	ELEV. IN
		FT	FT
GROUND SURFACE		0	35.3
GENERALIZED GEOLOGIC LOG 	SURFACE CASING: DIA.: <i>6" Flush mount manhole</i> TYPE:	NA	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:	0.12	35.18
	TOP OF RISER CASING		
	BOTTOM OF SURFACE CASING	NA	—
	BACKFILL: Groat TYPE: <i>Portland and Concrete pad Quickrete 5000</i>		
	RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC sch 40</i>	11.5	23.68
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: <i>bentonite</i>	14.3	20.88
	BOTTOM OF SEAL	14.5	20.68
TOP OF SCREEN			
FILTER MATERIAL: <i>Silica Sand</i> TYPE: <i>30/45</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010 in</i> TYPE: <i>slotted</i>	24.5	10.68	
BOTTOM OF SCREEN			
BOTTOM OF SUMP	24.9	10.28	
BOTTOM OF HOLE	25.0	10.18	

METHOD DRILLED:
6 1/4" ID. HSA

METHOD DEVELOPED:
2" red: flo pump

TIME DEVELOPED:
5-8-96
1630-1923

HOLE DIAMETER
10 7/8"

COMMENTS:



GROUND WATER INSTALLATION		PROJECT: <i>HNAF DA 9</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-MW29</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>4/29/96</i>	SUPERVISOR: <i>D. Humphreys</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>8.28' / 28.29</i>	
FINISHED: <i>4/29/96</i>	DRILLER: <i>M. Gribble</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT.
GROUND SURFACE		0	36.7
SURFACE CASING: DIA.: <i>6" Flush mount manhole</i>		NA	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.13	36.57
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		NA	—
BACKFILL: TYPE: <i>Concrete 5000</i>			
RISER CASING: DIA.: <i>2"</i> TYPE: <i>PVC</i>		1.5'	35.07
TOP OF SEAL			
ANNULAR SEAL: TYPE: <i>Bentonite</i>		2.5'	34.07
BOTTOM OF SEAL			
TOP OF SCREEN		4.5'	32.07
FILTER MATERIAL: TYPE: <i>30/45 silica sand</i>			
SCREEN: DIA.: <i>2"</i> TYPE: <i>PVC</i> OPENING WIDTH: <i>0.010"</i> TYPE: <i>slotted</i>		14.5'	22.07
BOTTOM OF SCREEN			
BOTTOM OF SUMP		14.9'	21.67
BOTTOM OF HOLE		15.0'	21.57

GENERALIZED GEOLOGIC LOG

8.21' roc @ development

METHOD DRILLED:
6 1/4" I.D. HSA

METHOD DEVELOPED:
12 V DC Whale pump

TIME DEVELOPED:
*5-7-96
1100-1215*

HOLE DIAMETER

10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <u>HAAR-DAG</u>	JOB NO. <u>0176.8</u>	WELL NO. <u>H835-MW30</u>
DRILLING CONTRACTOR: <u>PSI</u>		COORDINATES:		
BEGUN: <u>4/29/96</u>	SUPERVISOR: <u>D. Humphreys</u>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <u>8.50' / 28.26</u>	
FINISHED: <u>4/29/96</u>	DRILLER: <u>M. Grizzle</u>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT.	ELEV. IN FT.
GROUND SURFACE	0	36.9
NA	NA	—
0.14	0.14	36.76
NA	NA	—
1.3	1.3	35.46
2.0	2.0	34.76
2.9	2.9	33.86
12.9	12.9	23.86
13.3	13.3	23.46
14.0	14.0	23.36

GENERALIZED GEOLOGIC LOG

SURFACE CASING: DIA.: 6" Flush mount manhole
 TYPE: manhole
 TOP OF PROTECTIVE CASING
 PROTECTIVE CASING: DIA.:
 TYPE:
 TOP OF RISER CASING
 BOTTOM OF SURFACE CASING
 BACKFILL: Concrete TYPE: Qu:clrete 5000
 RISER CASING: DIA.: 2"
 TYPE: PVC sch 40
 TOP OF SEAL
 ANNULAR SEAL: TYPE: Bentonite
 BOTTOM OF SEAL
 TOP OF SCREEN
 FILTER MATERIAL: TYPE: 30/45 sand
 SCREEN: DIA.: 2" TYPE: PVC
 OPENING WIDTH: 0.010" TYPE: Slotted
 BOTTOM OF SCREEN
 BOTTOM OF SUMP
 BOTTOM OF HOLE

METHOD DRILLED:
6 1/4" I.D. HSA

METHOD DEVELOPED:
12 R DC whale pump

TIME DEVELOPED:
5-7-96
1435-1545

HOLE DIAMETER

10 7/8"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>HAAF</i>	JOB NO. <i>017618</i>	WELL NO. <i>H833-mw31</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>5-9-96</i>	SUPERVISOR: <i>G. Rowell</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>7.71' / 29.08</i>	
FINISHED: <i>5-9-96</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN Ft'	ELEV. IN Ft.
	0	37.0
	NA	—
	0.21	36.79
	NA	—
	1.6'	35.19
	2.51	34.29
	4.0'	32.79
	14.0'	22.79
	14.5'	22.29
	15.0'	21.79

GENERALIZED GEOLOGIC LOG

METHOD DRILLED:
6 1/4" HSA

METHOD DEVELOPED:
2" red: #10 pump

TIME DEVELOPED:
5-10-96
1140-1511

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <u>HAAR-DAG</u>	JOB NO. <u>017618</u>	WELL NO. <u>H833-MW 32</u>
DRILLING CONTRACTOR: <u>PSI</u>		COORDINATES:		
BEGUN: <u>4/29/96</u>	SUPERVISOR: <u>D. Humphreys</u>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <u>6.99' / 29.41'</u>	
FINISHED: <u>4/29/96</u>	DRILLER: <u>M. Grizzle</u>			

REFERENCE POINT & ELEVATION:		DEPTH IN	ELEV. IN
		FT	FT
GROUND SURFACE		0	36.6
GENERALIZED GEOLOGIC LOG	SURFACE CASING: DIA.: <u>6"</u> TYPE: <u>Flush mount manhole</u>	NA	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:	0.20	36.40
	TOP OF RISER CASING		
	BOTTOM OF SURFACE CASING	NA	—
	BACKFILL: Concrete TYPE: <u>Quickrete 5000</u>		
	RISER CASING: DIA.: <u>2"</u> TYPE: <u>PVC sch 40</u>	1.5'	34.90
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: <u>Bentonite</u>	2.7'	33.70
	BOTTOM OF SEAL	4.6'	31.80
TOP OF SCREEN			
FILTER MATERIAL: TYPE: <u>30/45 Silica Sand</u>			
SCREEN: DIA.: <u>2"</u> TYPE: <u>PVC</u> OPENING WIDTH: <u>0.010"</u> TYPE: <u>Slotted</u>	14.6'	21.80	
BOTTOM OF SCREEN	14.9'	21.50	
BOTTOM OF SUMP	15.0'	21.10	
BOTTOM OF HOLE			

METHOD DRILLED:
6 1/4" I.D. HSA

METHOD DEVELOPED:
12 VDC whale pump
2" red: flo pump

TIME DEVELOPED:
5-7-96 / 5-8-96
0940-1353 / 0805-1149

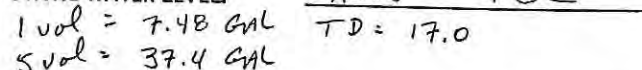
HOLE DIAMETER

10 7/8"

COMMENTS:



12 V DC



PG. 1 OF 1

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: HP 33- MW 2

METHOD OF DEVELOPMENT: 12V DC Whale Pump

DATE: 4/30/96

STATIC WATER LEVEL: 11.03 toe

LOGGED BY: D. Humphries

TD-17.6 w.6 11.2 bgs = 6.9'
1001 = 8.7
5001 = 43.5

[illegible]

TOTAL DEVELOPMENT TIME: 0:47

TOTAL VOLUME PURGED: 45 gal

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-nw 3

METHOD OF DEVELOPMENT: 12 V DC whale pump

DATE: 5-9-96

STATIC WATER LEVEL: 9.73 TOC

LOGGED BY: G. Rowell

1 vol : 8.5 TD = 16.0
5 vol 43.6

[illegible]

TOTAL DEVELOPMENT TIME: 2 hr 15min

TOTAL VOLUME PURGED: 75 GALLONS

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW4

DATE: 5/9/96

LOGGED BY: D. Humphreys

METHOD OF DEVELOPMENT: 2" Redi Flo pump

STATIC WATER LEVEL: 9.80' pc (≈ 9.9 bgs)

WATER LEVEL
TD - 150' 5.1' water

1001 - 6.9 gal

5001 - 34.7 gal

SAMPLE NO.	TIME	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	COND'Y (umhos)	TURBIDITY (NTU)				
1	0832	70.8	6.24	95.7		1.2	5		Surge @ 0.5
2	0841	71.2	5.77	84.7			10		Surge @ 10
3	0847	71.0	5.56	83.2			15		Surge @ 15
4	0853	70.7	5.69	77.5			20		Surge @ 20
5	0859	70.7	5.74	72.8			25		thinning, clearing
6	0903	70.9	5.69	70.3			30		
7	0905	71.7	5.76	68.3		↓	35		
8	0911	72.3	5.66	66.9		0.3	40		Drop flow rate, Lt br color
9	0926	76.1	5.60	66.7		0.2	45		Proprate, Lt. br color, no sediment
10	0951	80.7	5.59	66.3			50		no change - Lt. br color
11	1014	81.9	5.34	67.8			55		no change
12	1040	82.0	5.60	69.9			60		no change
13	1059	83.4	5.65	68.2			65		sl. clearing - Lt. yellow color
14	1118	82.1	5.59	72.7			70		sl. clearing.
15	1138	83.4	5.64	71.2			75		Lt. yellow - no change, no sediment
16	1208	84.2	5.61	73.8		↓	80	Y	no change
	END								

TOTAL DEVELOPMENT TIME: 3:39

TOTAL VOLUME PURGED: 80 gal

COMMENTS sl. yellow color, no sediment

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW5

METHOD OF DEVELOPMENT: 12 VDC whale Pump

DATE: 5-10-96

STATIC WATER LEVEL: 9.97' TOC
10' = 8.9 GAL TD = 16.5
50' = 44.4 GAL

LOGGED BY: G. Rowell

SAMPLE NO.	TIME	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	COND'Y (umhos)	TURBIDITY (NTU)				
1	1155	76.7	5.23	102.8		1	5		Surge @ 0 GAL
2	1200	76.4	5.21	96.2			10		" 10 "
3	1205	76.9	5.17	91.9			15		" 15 "
4	1215	76.8	5.16	89.6			20		" 20 "
5	1220	76.6	5.16	87.9			25		" 25 "
6	1225	76.4	5.16	84.7			30		
7	1235	76.2	5.12	80.4			40		
8	1245	76.5	5.11	75.2			50		
9	1255	76.1	5.15	73.2			60		
10	1305	76.0	5.08	72.2			70		
11	1315	76.1	5.12	70.6			80		
12	1325	76.2	5.15	68.6			90		
13	1335	77.8	4.98	68.5			100		
14	1345	76.4	4.98	67.6			110		clearing - yellow - not transparent
15	1355	76.6	4.98	67.2			120		" "
16	1410	76.7	4.99	63.9			130		" "
17	1420	77.0	5.02	64.5			140		
18	1425	76.6	5.00	62.6			150		
19	1435	76.1	4.99	63.3			160		
20	1445	76.2	4.95	63.0			170		
21	1455	75.9	4.94	62.7			180		
22	1505	76.2	4.99	61.1			190		
23	1515	76.0	5.00	60.1			200		
24	1520	76.1	4.98	60.0		✓	205	✓	No color change since 150 Gallons

TOTAL DEVELOPMENT TIME: 3 hr 35 min

TOTAL VOLUME PURGED: 205 Gallons

COMMENTS: Slight sheen on water.
Appears to be product. However
odor is slight & is immeasurable.

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 4833 - new 6

METHOD OF DEVELOPMENT: 12 VDC Whale Pump

DATE: 5-10-96

STATIC WATER LEVEL: 9.70' TOC

LOGGED BY: G. Kovel

1 vol ~ 8.6 gal TD = 16.0
5 vol = 42.8 gal

[illegible]

TOTAL DEVELOPMENT TIME: 2 hr 20 min

TOTAL VOLUME PURGED: 138 GALLONS

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW 7

METHOD OF DEVELOPMENT: 12 V DC whale Pump

DATE: 5/7/96

STATIC WATER LEVEL: $\frac{10.20 \text{ TOC} + 10.4 \text{ bgs}}{15.8' \text{ bottom screen } 5' \text{ water}}$
 1001 - 7.3
 5001 - 36.7

LOGGED BY: D. Humphreys

[illegible]

TOTAL DEVELOPMENT TIME: 1:03

TOTAL VOLUME PURGED: 55 Gallons

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-mw 8

METHOD OF DEVELOPMENT: *Whale Pump*

DATE: 4-30-86

STATIC WATER LEVEL: 10.30 7 OC

LOGGED BY: G. J. Kowalski

$$1 \text{ vol} = 9.11$$

$TD = 17.0$

$$S_{vol} = 45.56$$
[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 35 min

TOTAL VOLUME PURGED: 80 gal

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 11833 - MW 9
DATE: 5-9-96
LOGGED BY: G. Rowell

METHOD OF DEVELOPMENT: 12 V DC whole pump

STATIC WATER LEVEL: $\frac{9.20' \text{ TOC}}{1 \text{ Vol} = 9.2 \text{ GAI} \quad \text{TD} = 16.0}$
 $5 \text{ Vol} = 46.2 \text{ GAI}$

[illegible]

TOTAL DEVELOPMENT TIME: 3 hr + 30 min

TOTAL VOLUME PURGED: 113 GALLONS

COMMENTS _____

M&E
Metcalf & Eddy

METHOD OF DEVELOPMENT: 2nd Redi-Flow Pump

STATIC WATER LEVEL: 9.26' TOC (≈ 9.4 bgs)

TD - 16.0' 6.6' water

SAMPLE NO.	TIME 1020	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	COND'Y (umhos)	TURBIDITY (NTU)				
1	1026	73.0	5.91	761		1.3	5		Surge @ 0.5
2	1033	73.0	6.05	690		↓	10		Surge @ 1.0
3	1041	76.0	5.86	641		↓	15		Surge @ 1.5
4	1046	74.1	6.04	580		↓	20		Surge @ 2.0
5	1053	74.4	6.02	537		↓	25		Surge @ 2.5
6	1102	75.3	5.85	462		↓	35		
7	1106	74.3	6.06	431		↓	40		clearing - Lt. br. no sediment
8	1109	73.7	6.03	394		0.4	45		slow rate @ 45 in jar @ 30 min.
9	1120	78.7	5.78	391		0.2	51		slow rate - Lt. yellow color
10	1145	83.5	5.80	431		↓	61		
11	1212	85.0	5.80	409		↓	65	✓	clear - v. pale yellow color no sediment
12	END								

TOTAL DEVELOPMENT TIME: 1:52

TOTAL VOLUME PURGED: 65 gal

COMMENTS almost clear - v. pale yellow tint. No sediment

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW11

METHOD OF DEVELOPMENT: R V DC Whole Pump

DATE: 4/30/96

STATIC WATER LEVEL: 9.87 TO C $\approx$ 10' bgs

LOGGED BY: D. Humphreys

1 vol = 9 gne
501 = 45 gne

[illegible]

TOTAL DEVELOPMENT TIME: 0:46

TOTAL VOLUME PURGED: 45 gal

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW 12

METHOD OF DEVELOPMENT: 12V DC whale pump

DATE: 5/1/96

STATIC WATER LEVEL: 9.95 TOC

LOGGED BY: D. Humphries

Screen 15.6' 1 vol = 7.7 gal
5 vol = 38.4 gal

[illegible]

TOTAL DEVELOPMENT TIME: 3 hr 50 min

TOTAL VOLUME PURGED: 40 GALS.

COMMENTS Recovery .1' / 5 sec = 1.2 ft/min

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 4833-MW13

METHOD OF DEVELOPMENT: 12 V DC Whale Pump

DATE: 5-10-96

STATIC WATER LEVEL: $\frac{9.7' \text{ TOC} - 7.0' \text{ TOC}}{\approx 2.7' \text{ water}} \quad TD = 15.0$

LOGGED BY: G. Howell

1 vol - 7.1 gal
5 vol - 35.4 gal

[illegible]

TOTAL DEVELOPMENT TIME: 2:03

TOTAL VOLUME PURGED: 55 6m

COMMENTS _____
Pesticide-like odor

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW14

METHOD OF DEVELOPMENT: 2nd Redi-flo pump

DATE: 5/9/96

STATIC WATER LEVEL: $\frac{8.20' \text{ TDC } (8.3 \text{ bs})}{6.7' \text{ water}}$
 $\text{T.D.} = 15.0'$

LOGGED BY: D. Humphreys

1 vol - 9.1 gal
5 vol - 45.6 gal

[illegible]

TOTAL DEVELOPMENT TIME: 2:40

TOTAL VOLUME PURGED: 65 GAL

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 4833- MW 17

METHOD OF DEVELOPMENT:

12 V DC

Whale Pump

DATE: 5-1-96

STATIC WATER LEVEL:

9.40 TOC

LOGGED BY: G. Howell

Vol = 9.66 GAL TD = 16.5

$$S_{vol} = 48.3 \text{ GAL}$$
[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 15 min

TOTAL VOLUME PURGED: 50 Gallons

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.:

H833- MW18

METHOD OF DEVELOPMENT:

12V DC Water Pump

DATE:

4/30/96

STATIC WATER LEVEL:

10.21' TOC

LOGGED BY:

D. Humphris

TD 16.6'

1 vol = 8.69 GNL
5 vol = 43.5 GNL

$$5 \text{ vol} = 43.5 \text{ GmL}$$
[illegible]

TOTAL DEVELOPMENT TIME:

1:20

TOTAL VOLUME PURGED:

60 FALS

COMMENTS

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833. mw 20

METHOD OF DEVELOPMENT: 12V2c whale pump

DATE: 5-8-96

STATIC WATER LEVEL: 9.71 TOC

LOGGED BY: G. Korwoll

1 vol = 9.9 TD = 17.0
5 vol = 49.6

[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 25 min

TOTAL VOLUME PURGED: 80 GALLONS

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 4833- MW 21

METHOD OF DEVELOPMENT: 12V DC Water pump

DATE: 4/30/96

STATIC WATER LEVEL: 9.50 TOL (29.70 hrs)

LOGGED BY: D. Humphreys

TD 16.0 1 vol = 8.8 g/L
5 vol = 44.2 g/L

SAMPLE NO.	TIME	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	COND'Y (umhos)	TURBIDITY (NTU)				
1	1127	69.8	5.59	231	NA	1	3		Surge @ 0, 3, 8
2	1138	68.5	5.63	106.5		"	10		Surge @ 13, 15
3	1151	67.2	5.66	97.4		"	15		
4	1201	68.0	5.68	88.1		"	26		clearing
5	1206	68.0	5.58	88.7		"	35		
6	1216	68.7	5.52	83.0			45		still clearing
7	1226	68.5	5.50	80.0			60		
8	1238	67.9	5.55	79.0			70		
9	1251	67.2	5.53	80.2			80		
10	1300	66.8	5.27	68.4			110		sl. br/gray color - no change since 60 gal. No sediment in jar.
	1705								
11	1730	78.9	97.9	6.62		0.3	115	✓	5-9-86 2" red: P10 pump clear

TOTAL DEVELOPMENT TIME: 2 hr 5 min

TOTAL VOLUME PURGED: 115 Gallons

COMMENTS _____

Metcalfe & Eddy

METHOD OF DEVELOPMENT: 12 V DC whale pump

STATIC WATER LEVEL: 8.70 105

1 Vol = 9.9 GAL TD. 16.0
5 Vol = 49.4 GAL

TOTAL DEVELOPMENT TIME: 1 hr. 10 min

TOTAL VOLUME PURGED: 55 Gallons

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 14833-MW 24

METHOD OF DEVELOPMENT: 12 V DC Whale Pump

DATE: 5-7-96

STATIC WATER LEVEL: 8.08' TOC

LOGGED BY: G. Rowell

1 vol	9.4	T.D.	15.0
5 vol	47.0		

[illegible]

TOTAL DEVELOPMENT TIME: 1 hr

TOTAL VOLUME PURGED: 50 Gallons

COMMENTS _____

METHOD OF DEVELOPMENT: 12V DC Whale Pump

STATIC WATER LEVEL: 7.90' TOC

1 vol = 9.4 TD = 14.8
5 vol = 47.0

TOTAL DEVELOPMENT TIME: 1 hr 10 min

TOTAL VOLUME PURGED: 55 Gallons

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833 - MW 26

METHOD OF DEVELOPMENT: 12v DC Whale Pump

DATE: 5-8-96

STATIC WATER LEVEL: 8.64 TOC

LOGGED BY: G. Rowell

1 vol = 7.7 GAL TJ = 14.3
5 vol = 39 GAL

[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 20 min

TOTAL VOLUME PURGED: 70 Gallons

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: 1-1833-mw 27

METHOD OF DEVELOPMENT: 12 V DC Whale Pump

DATE: 5-8-96

STATIC WATER LEVEL: 7.83 TOC

LOGGED BY: G. Kowell

1 vol = 9.1
5 vol = 45.4

[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 5 min

TOTAL VOLUME PURGED: 50 GALLONS

COMMENTS _____

M&E
Metcalf & Eddy

METHOD OF DEVELOPMENT: Redi Flo pump 2"

STATIC WATER LEVEL: 9.87' T.O.C. (±10.06₉₅)

1 vol - 14.6 gne TD-24.5 14.5' water
5 vol - 72.8 gne

TOTAL DEVELOPMENT TIME: 2 hr 53 min

TOTAL VOLUME PURGED: 74.2 Gpt/Conc

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H1833-MW 29

METHOD OF DEVELOPMENT: 12V DC Whale Pump

DATE: 5-7-96

STATIC WATER LEVEL: 8.21 TOC

LOGGED BY: G. Howell

1 vol : 8.6 GAL TD = 14.5
5 vol : 43.0 GAL

[illegible]

TOTAL DEVELOPMENT TIME: 1 hr. 15 min

TOTAL VOLUME PURGED: 65 GALLONS

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-11W30

METHOD OF DEVELOPMENT: 12V DC whale pump

DATE: 5-7-96

STATIC WATER LEVEL: 8.40 TOC

LOGGED BY: G. Rowell

$$\begin{aligned} 1 \text{ Vol} &= 6.1 \text{ GAL} & 12.9 \\ 5 \text{ Vol} &= 30.5 \text{ GAL} \end{aligned}$$
[illegible]

TOTAL DEVELOPMENT TIME: 1 hr 10 min

TOTAL VOLUME PURGED: 65 GALLONS

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: H833-MW 31

METHOD OF DEVELOPMENT: 2" Redi flo pump

DATE: 5/10/96

STATIC WATER LEVEL: 7.60' TOC (± 7.8 bgs)
TD-14.0' 6.2' water

LOGGED BY: D. Humphris

5 vol - 42.2

SAMPLE NO.	TIME	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	COND'Y (umhos)	TURBIDITY (NTU)				
1	1148	79.5	6.19	495		1.6	5		Surge @ 5
2	1153	80.0	6.48	425			10		Surge @ 10, 15
3	1159	79.0	6.67	367			15		
4	1204	77.2	6.64	346			20		Surge @ 20
5	1210	76.3	6.60	315			25		Surge @ 25
6	1215	76.0	6.55	291			30		Surge @ 30
7	1221	75.6	6.52	275			35		
8	1224	75.6	6.48	240		↓	40		clearing
9	1228	76.1	6.38	221		0.38	45		slow rate
10	1239	81.3	6.48	217		↓	50		No sediment in jar sitting 30 min
11	1250	82.3	6.35	212		↓	55		
12	1307	85.5	6.54	220		0.2	60		slow rate @ 38
13	1328	86.3	6.23	208		↓	65		up flow rate
14	1339	79.9	6.24	206		1.6 gpm	70		no change in color
15	1346	77.3	6.22	166		↓	80		no change in color
16	1407	91.9	6.29	168		0.85 0.2 gpm	88		slow rate @ 85 Sun heating up discharge hose
17	1420	96.4	6.30	174			90		No change in color (or) sediment
18	1432	101.6	6.22	178			91		No color change
19	1441	93.8	6.29	169			92		no change
20	1455	99.9	6.31	183			93		no change
21	1504	95.7	6.29	175			94		no change
22	1511	91.4	6.37	186			95	Y	no change - H-br color, no sediment

TOTAL DEVELOPMENT TIME: 3:40

TOTAL VOLUME PURGED: 95 gal

COMMENTS 4-br color, no sediment
(redrilled well)

M&E
Metcalf & Eddy

METHOD OF DEVELOPMENT: 12 VDC whale Pump

STATIC WATER LEVEL:

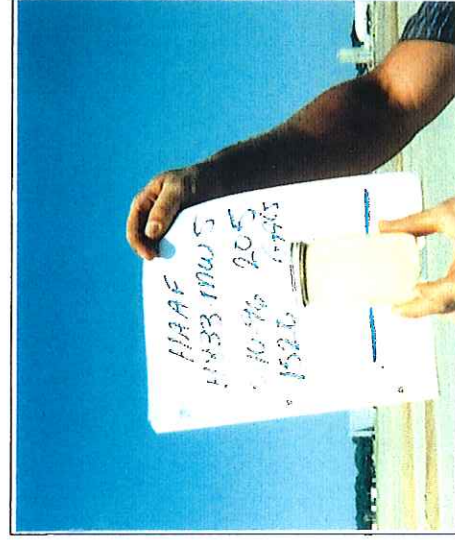
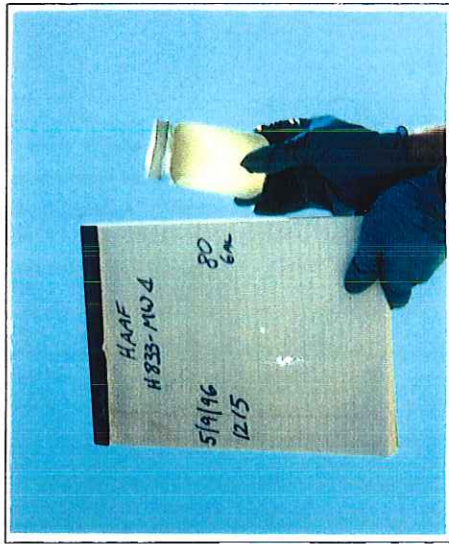
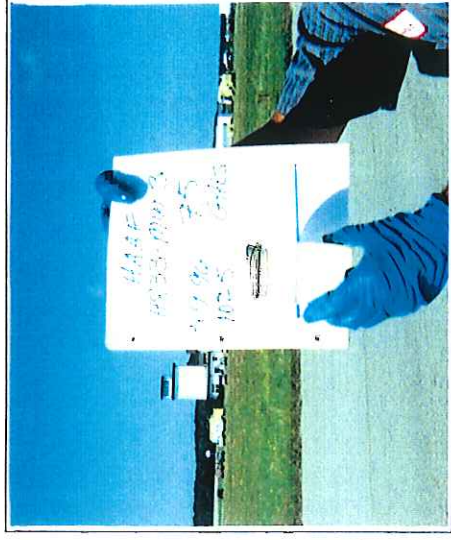
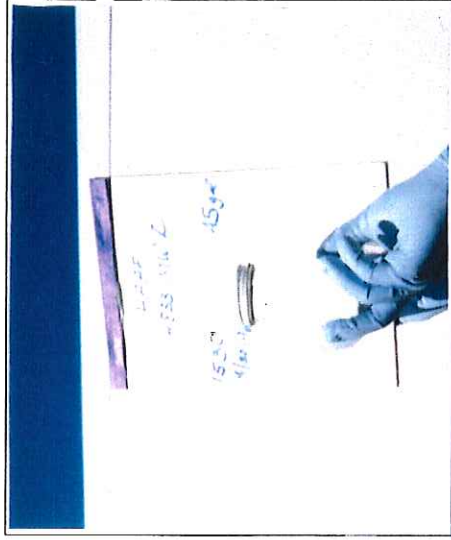
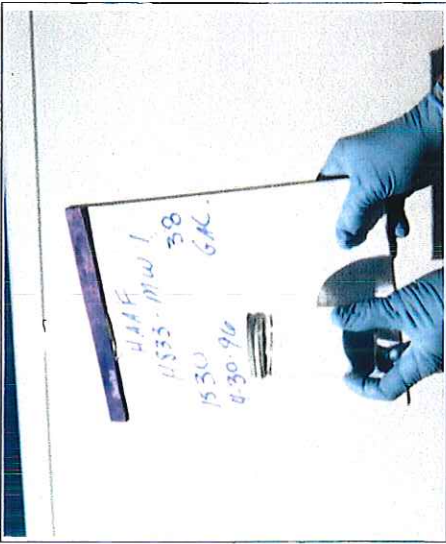
6.87' TOC

1 Vol = 10.2 Gm T.D. = 14.6
5 Vol = 51 Gm

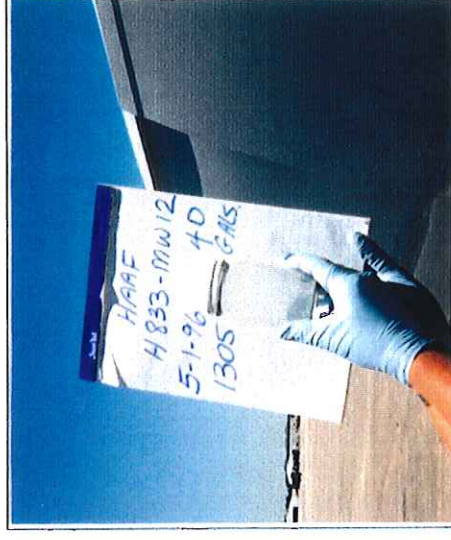
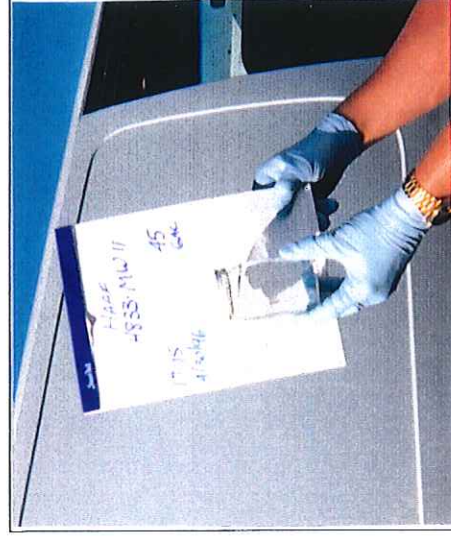
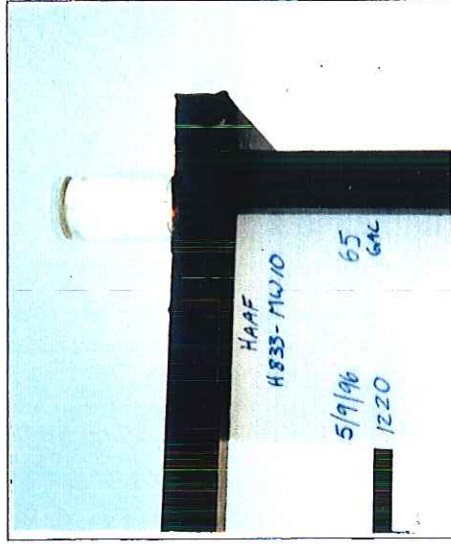
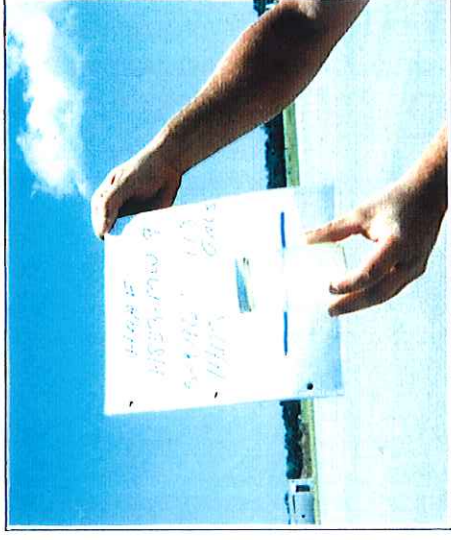
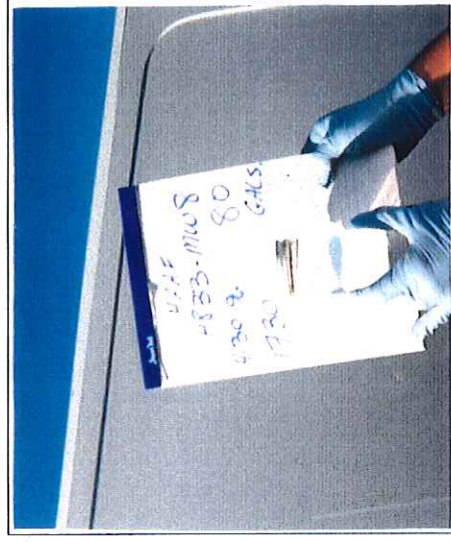
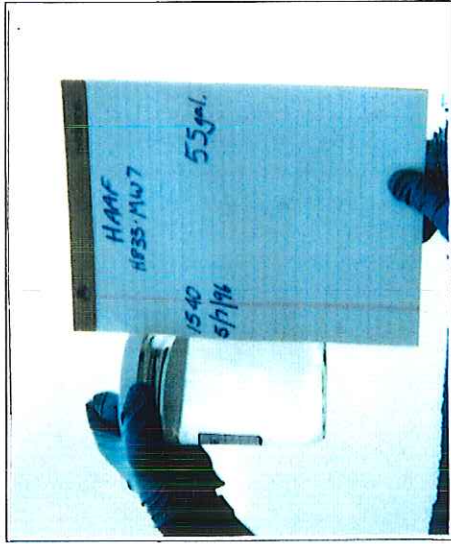
TOTAL DEVELOPMENT TIME: 8:00

TOTAL VOLUME PURGED: 148 gals

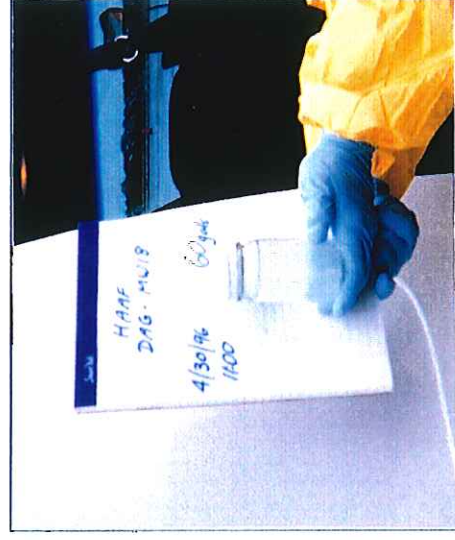
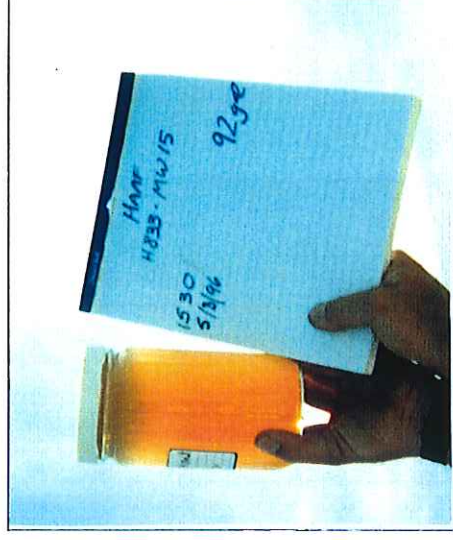
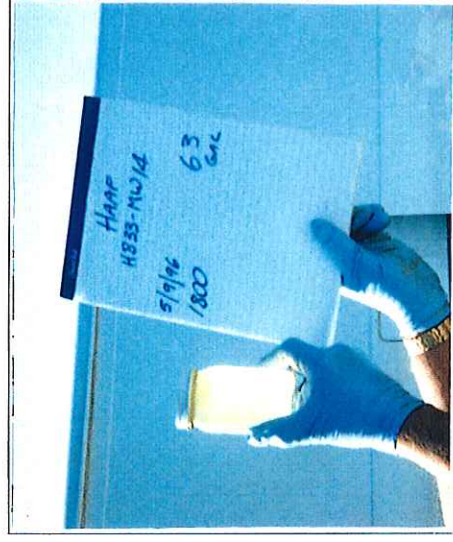
COMMENTS Sl. yellow color - no sediment, Likely Fe staining



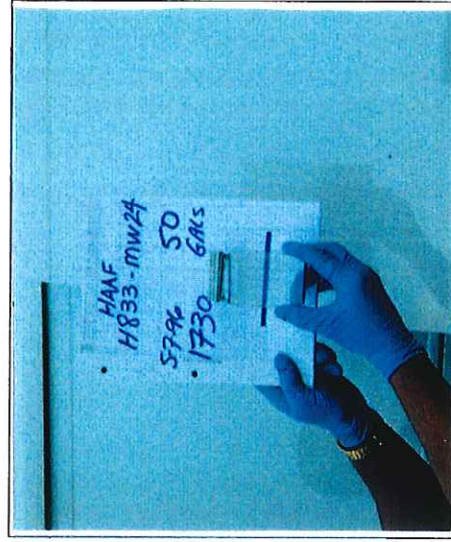
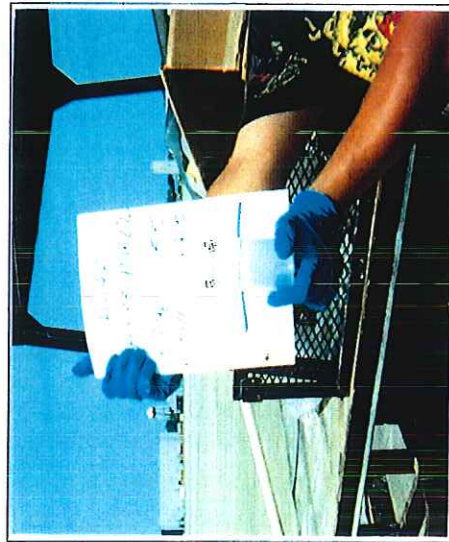
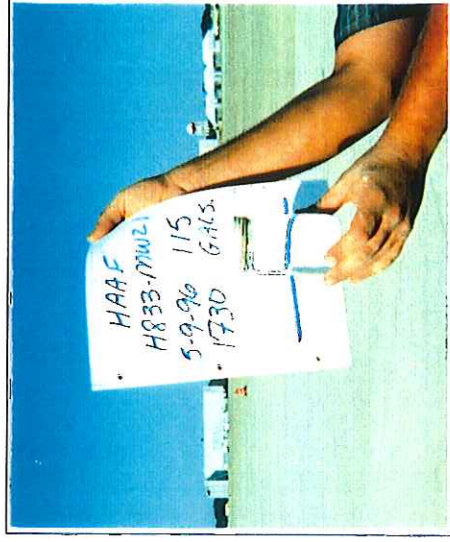
WELL DEVELOPMENT PHOTOGRAPHS



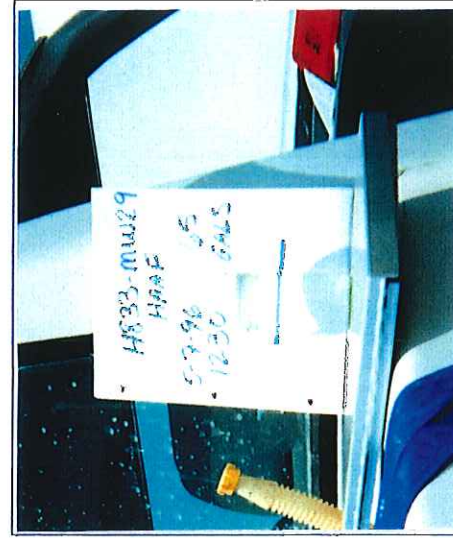
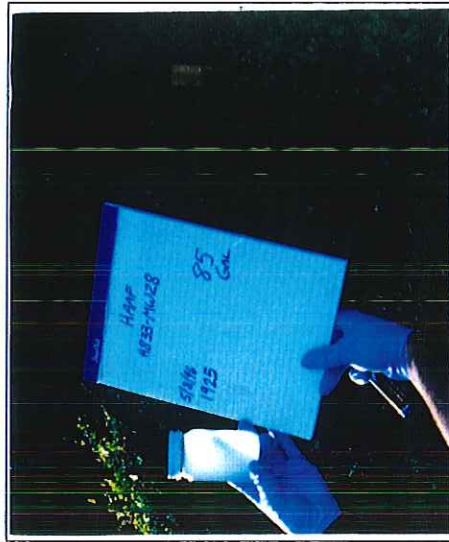
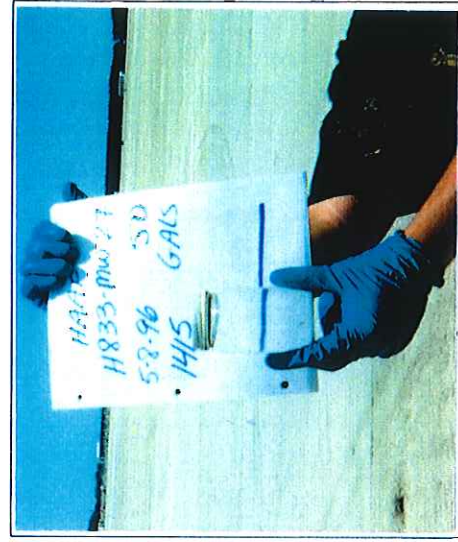
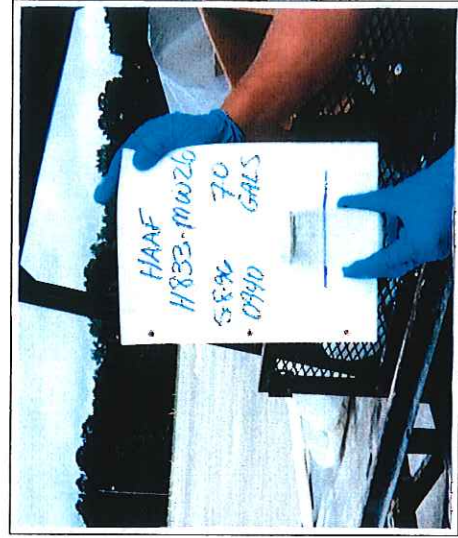
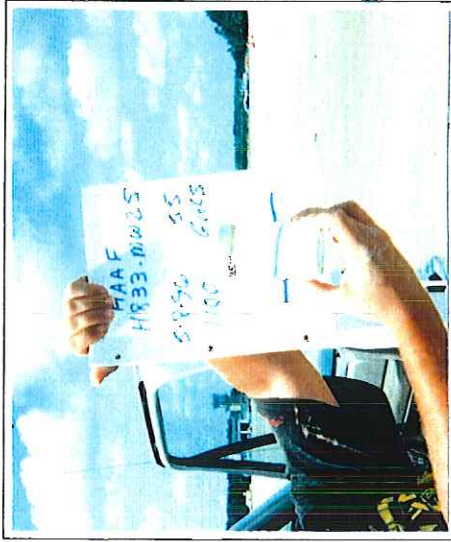
WELL DEVELOPMENT PHOTOGRAPHS



WELL DEVELOPMENT PHOTOGRAPHS



WELL DEVELOPMENT PHOTOGRAPHS



WELL DEVELOPMENT PHOTOGRAPHS



WELL DEVELOPMENT PHOTOGRAPHS

APPENDIX G
GEOTECHNICAL DATA

RECEIVED

MAY 20 1996

METCALF & EDDY, INC.

May 16, 1996

Mr. David Wilderman
Metcalf & Eddy
1201 Peachtree St. NE
400 Colony Square, Suite 1101
Atlanta, GA 30361

Reference: Laboratory Test Results for
Site Characterization and Source
Determination/Investigation at the
Hunter Army Airfield
Fort Stewart, Georgia
Task Order #015
M&E Subcontract No.: 94-016159-002
JAMIS No.: 017618-4103
PSI Project No.: 778-62009
Document ID#: 62009.006

Dear Mr. Wilderman:

Enclosed you will find the laboratory test results from the samples that were submitted to our laboratory on May 3, 1996.

Please review these results and contact us should you have any questions.

Sincerely,

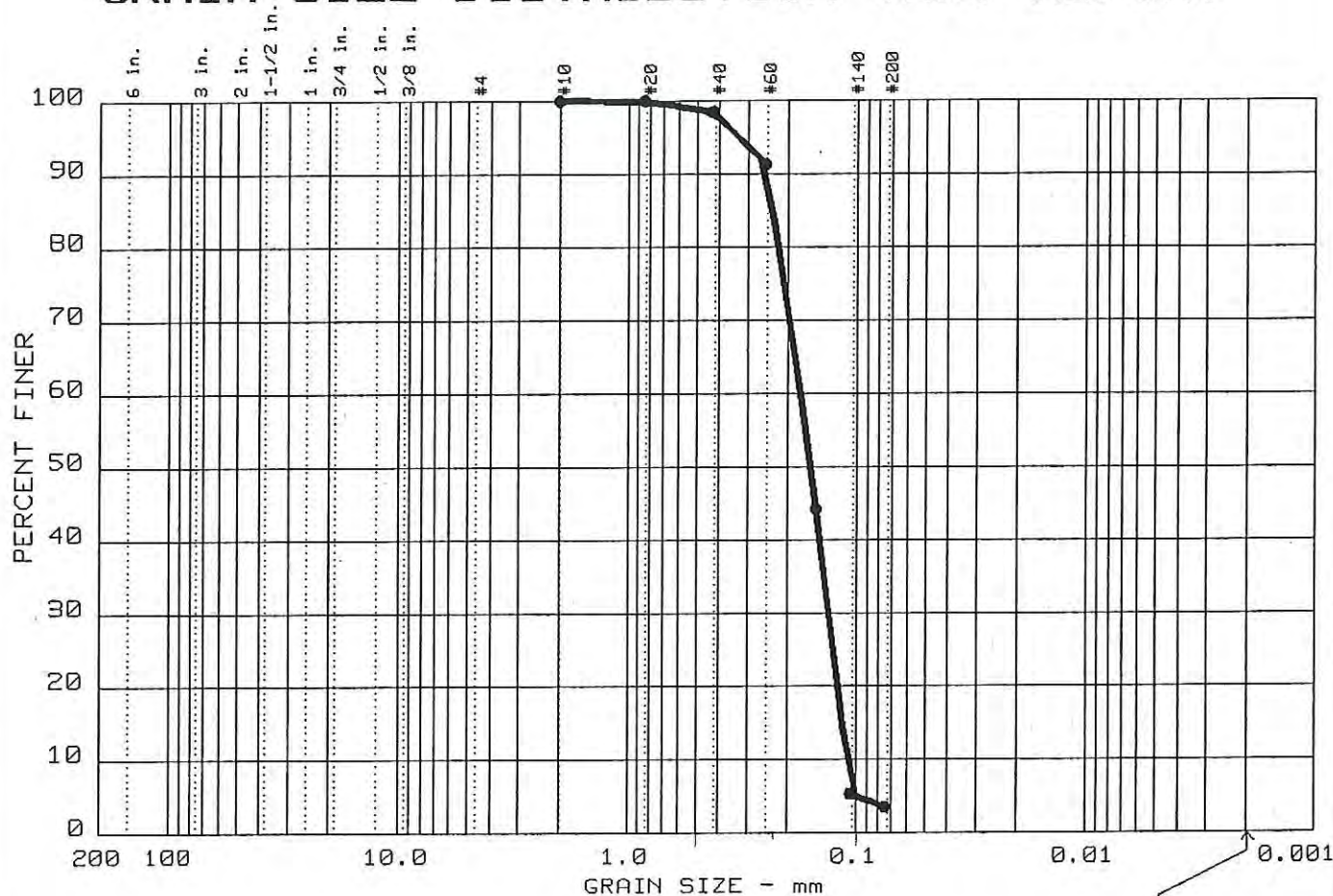
PROFESSIONAL SERVICE INDUSTRIES, INC.



Lawrence M. Colson
Project Administrator

Information To Build On

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 9	0.0	0.0	96.4	3.6	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.23	0.18	0.16	0.132	0.1155	0.1103	0.89	1.6

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 ● Location: H833 - WB-1 , 8'-10'

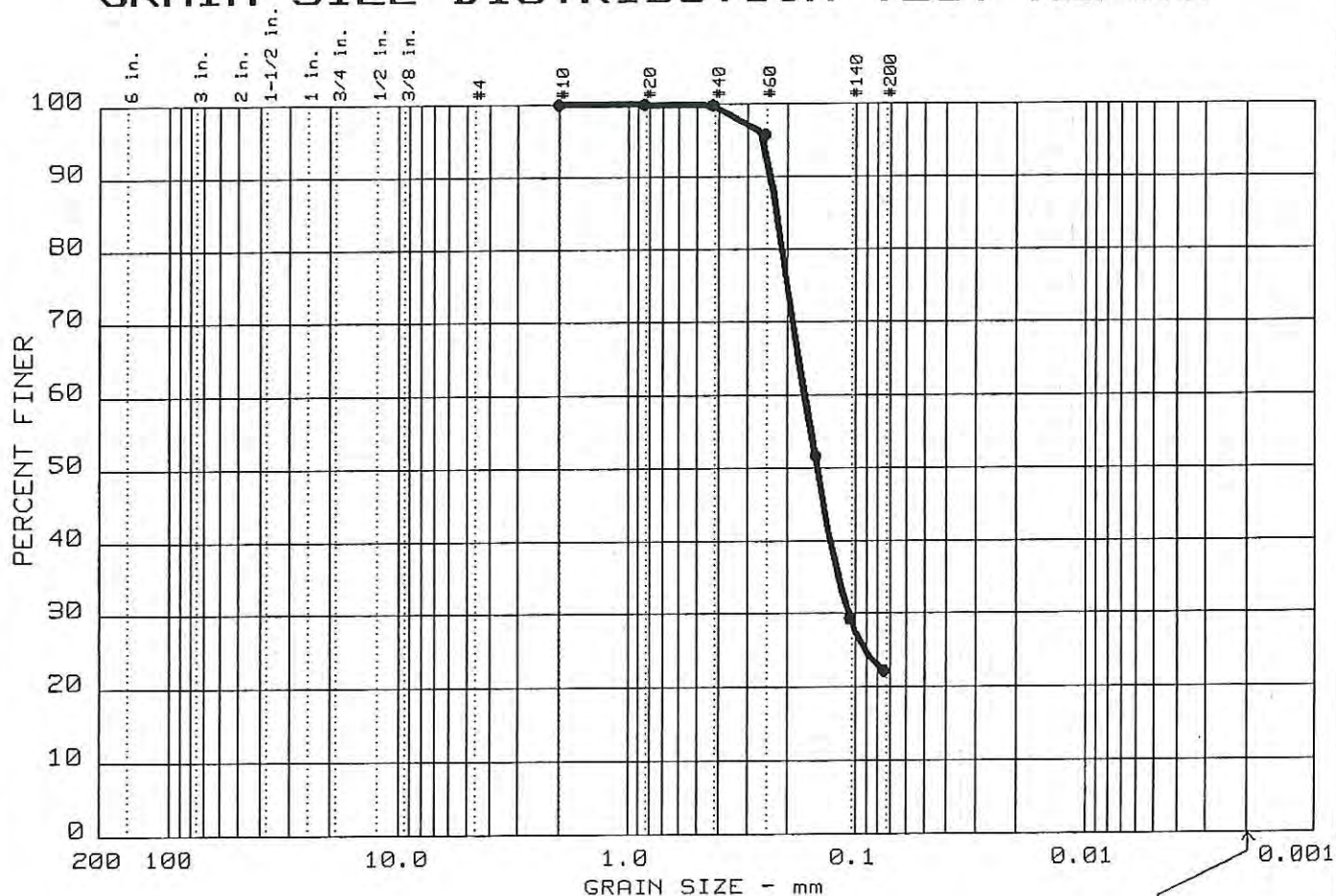
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=14.6%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 10	0.0	0.0	77.8	22.2	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.17	0.15	0.108				

MATERIAL DESCRIPTION	USCS	AASHTO
•	SM	A-2-4

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H033 - WB-2 , 8'-10'

Date: 05-14-96

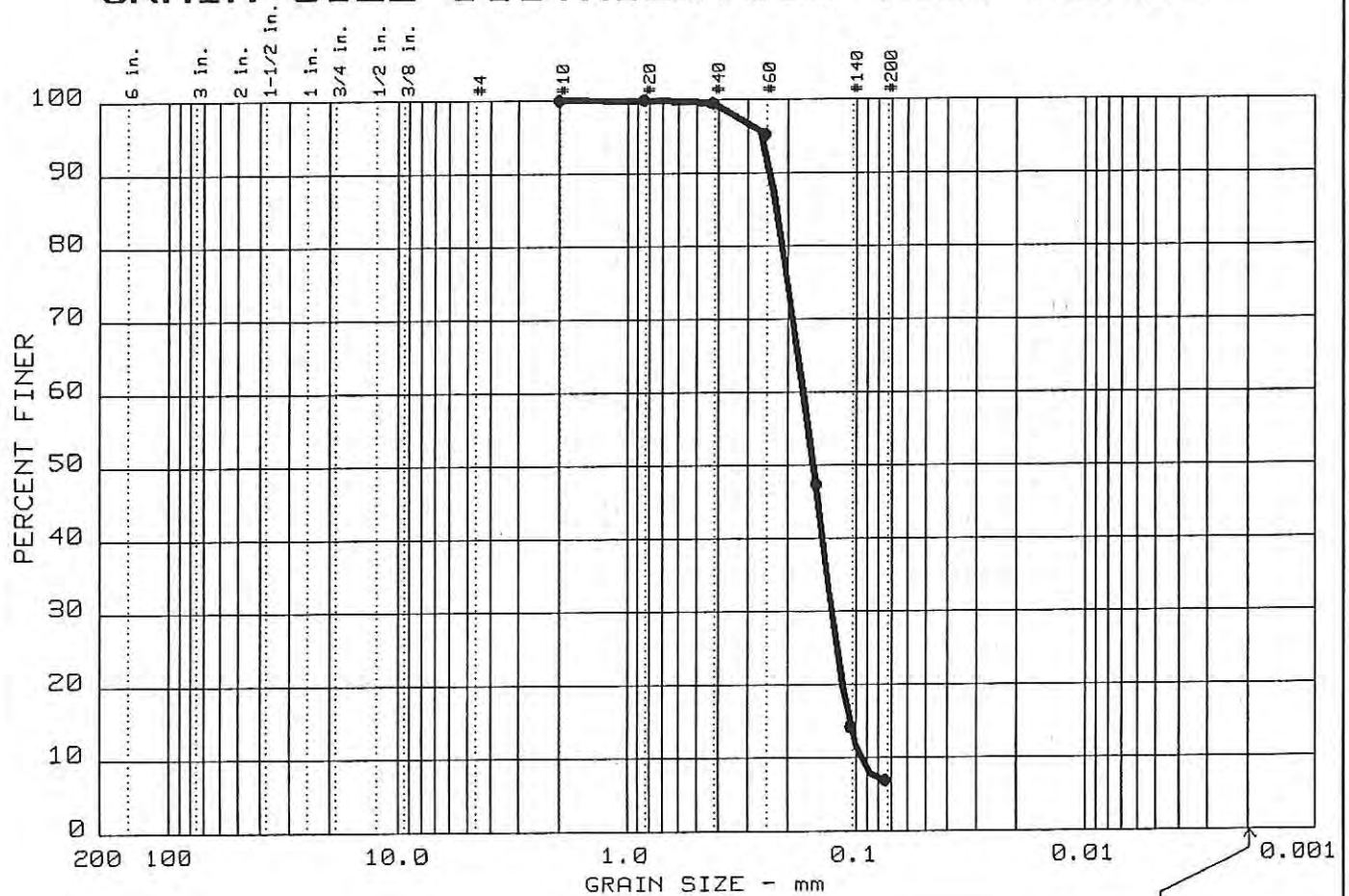
GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:

TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=11.2%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
1	0.0	0.0	93.0	7.0	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.22	0.17	0.15	0.128	0.1073	0.0956	1.00	1.8

MATERIAL DESCRIPTION	USCS	AASHTO
	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-3 , 14'

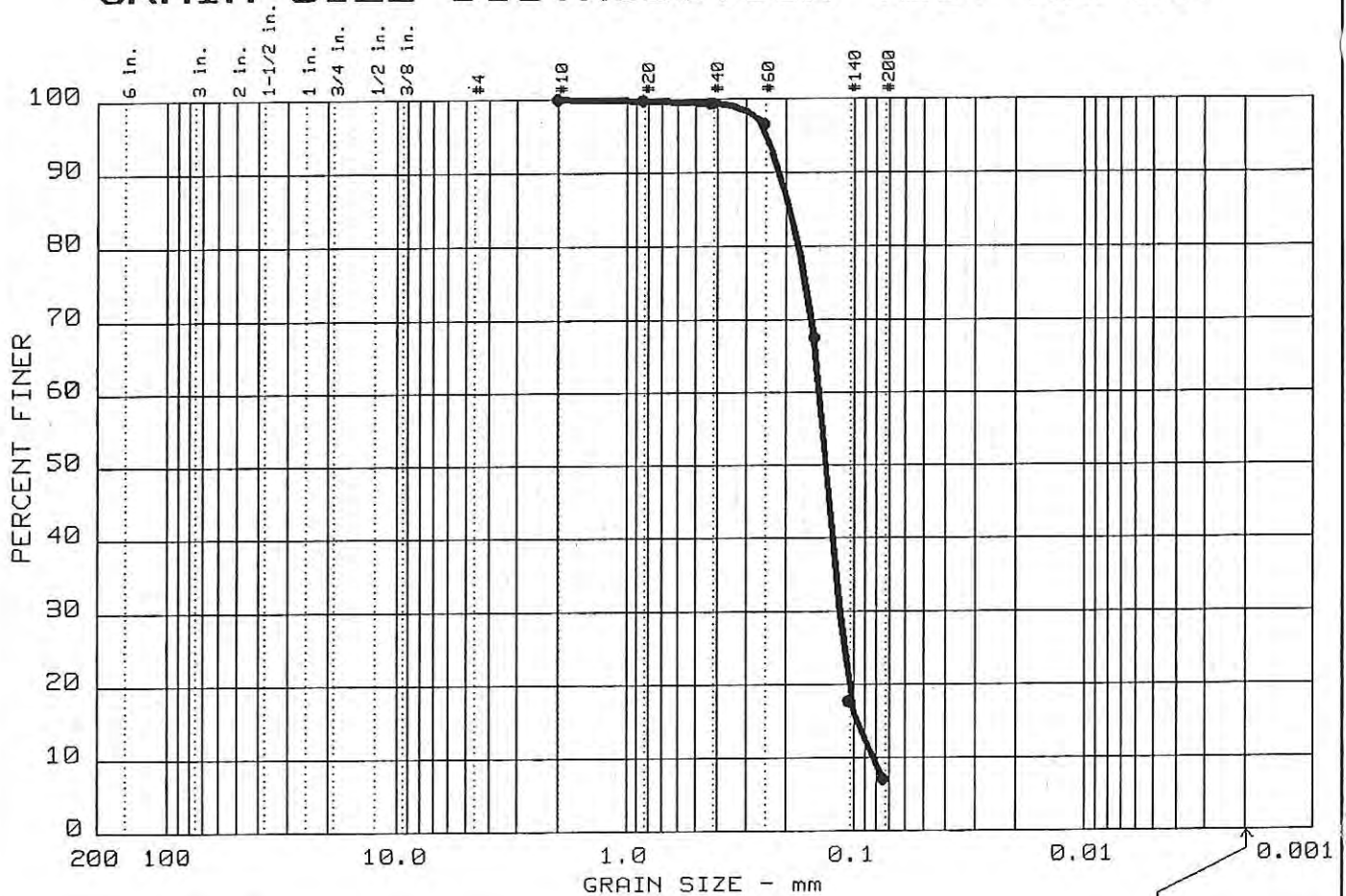
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=28.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
15	0.0	0.0	92.9	7.1	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.19	0.14	0.13	0.115	0.0967	0.0823	1.14	1.7

MATERIAL DESCRIPTION	USCS	AASHTO
	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H033 - WB-4 , 13'-15'

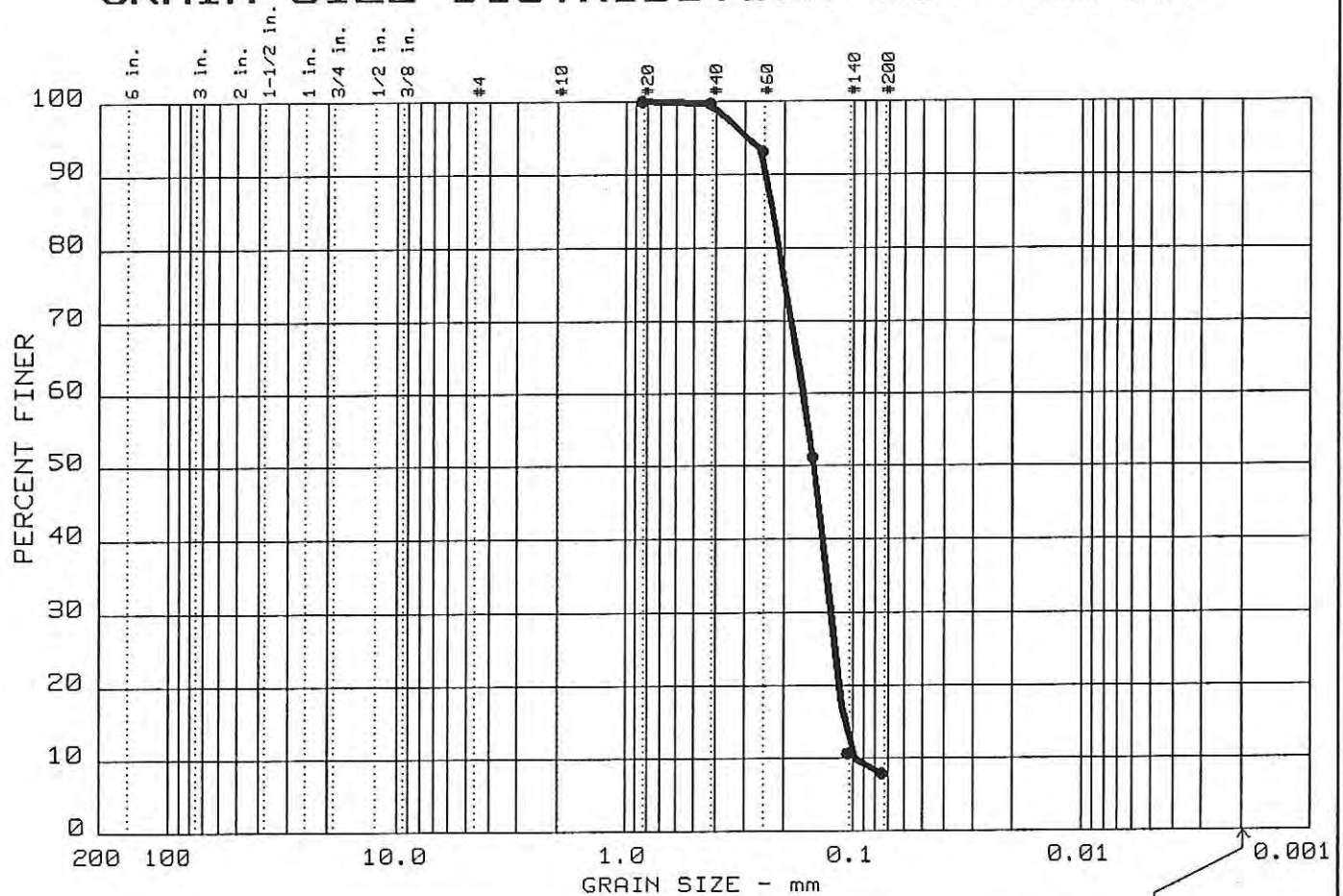
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

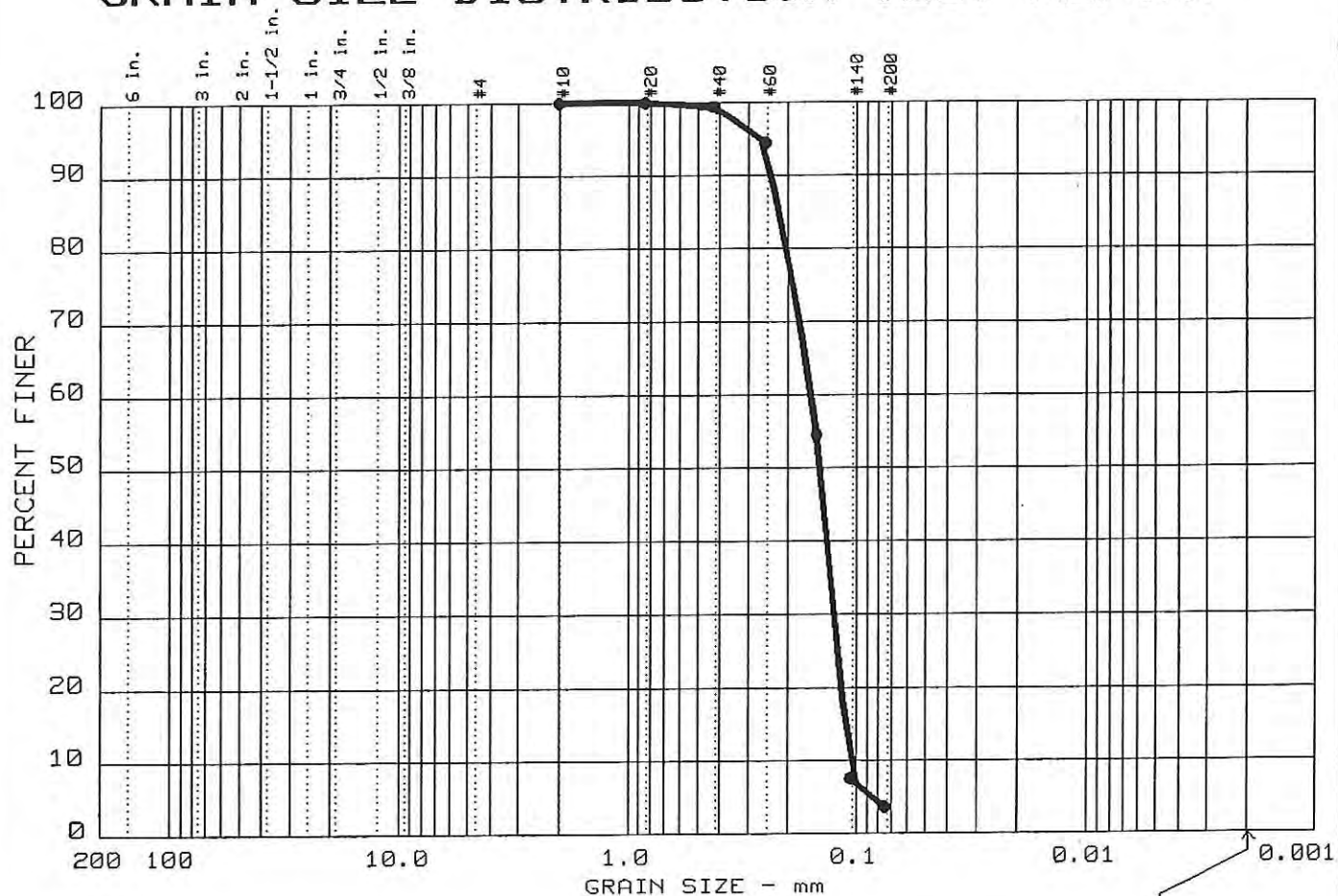
Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=25.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 14	0.0	0.0	96.3	3.7	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.16	0.15	0.125	0.1119	0.1079	0.91	1.5

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H893 - WB-6 , 13'-15'

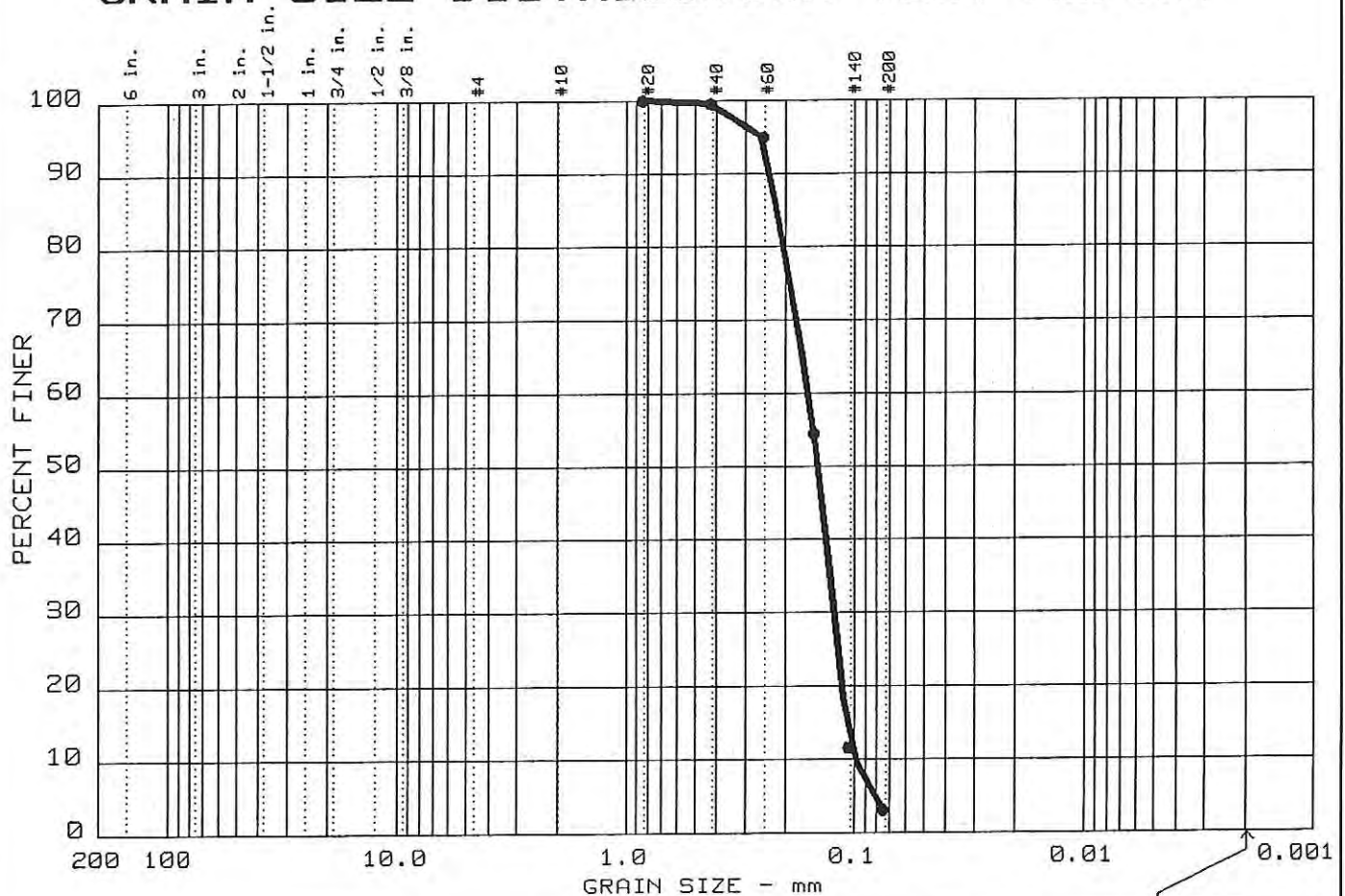
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

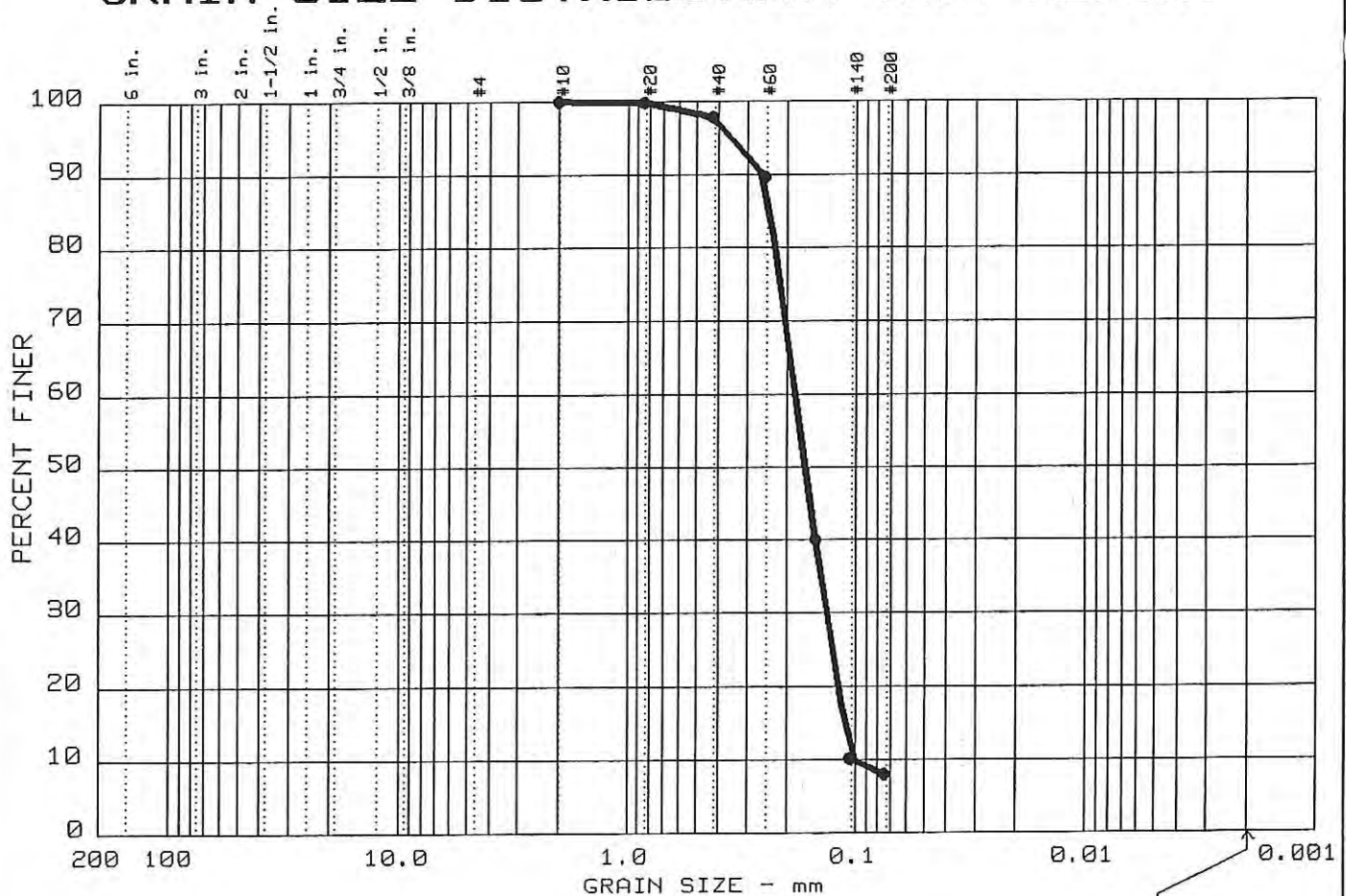
Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=23.6%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 18	0.0	0.0	91.9	8.1	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.24	0.18	0.17	0.133	0.1119	0.1009	0.95	1.8

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H893 - WB-B , 14'

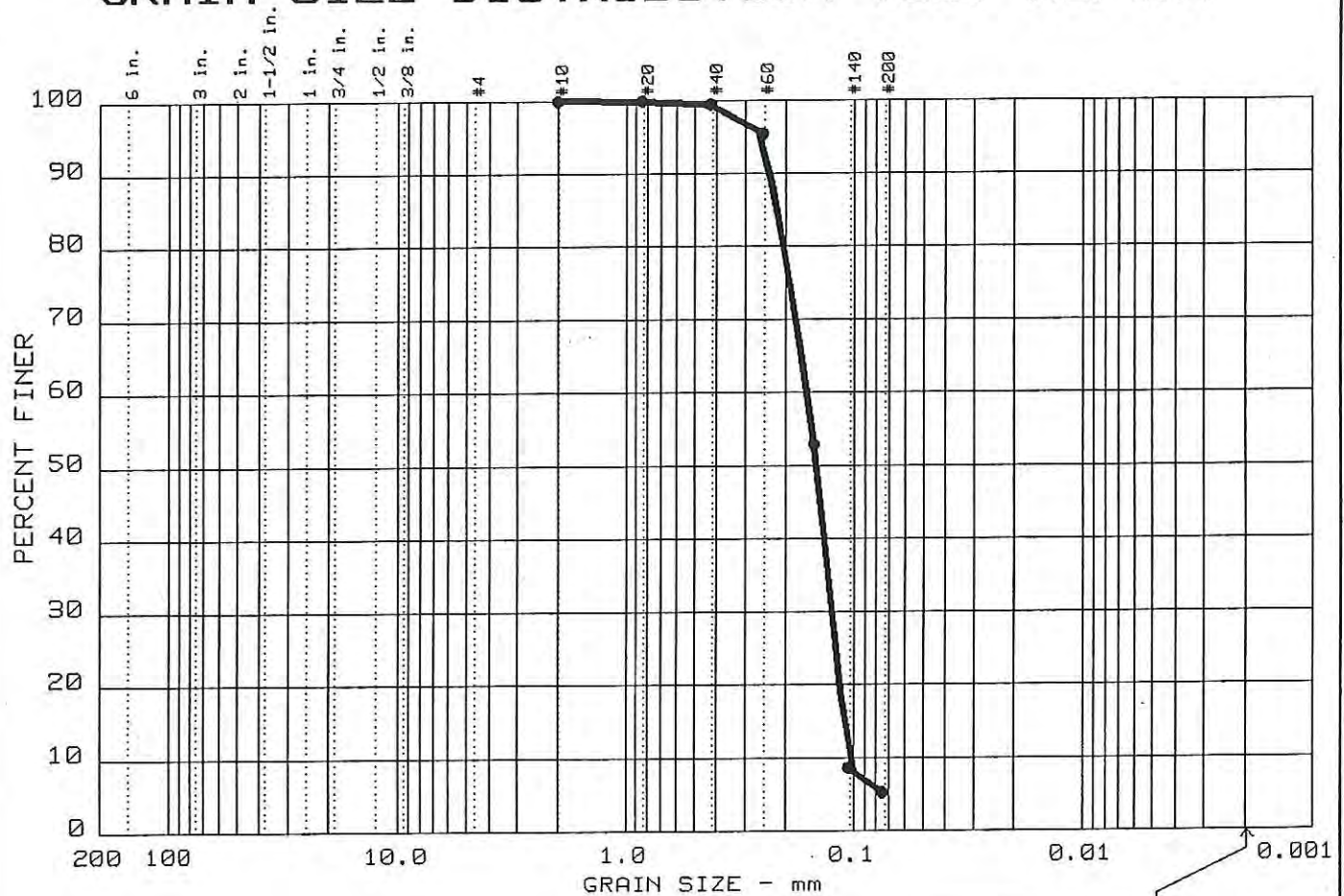
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=24.6%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 11	0.0	0.0	94.7	5.3	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.22	0.16	0.15	0.125	0.1113	0.1070	0.91	1.5

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 ● Location: H833 - WB-9 , 13'-15'

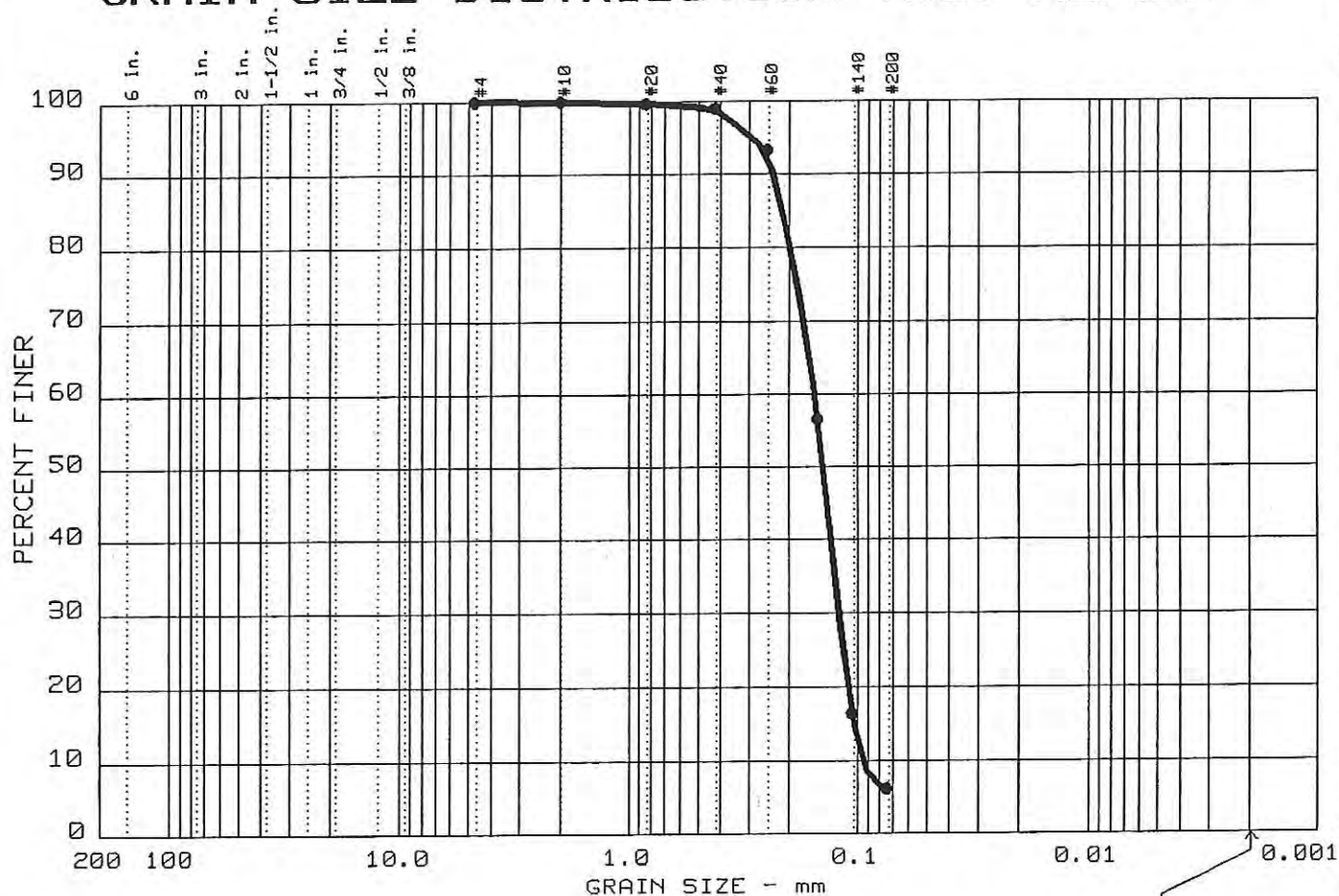
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=20.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 5	0.0	0.0	93.8	6.2	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.16	0.14	0.121	0.1039	0.0945	1.00	1.6

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H033 - WB-10, 13'-15'

Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC = 28.2%

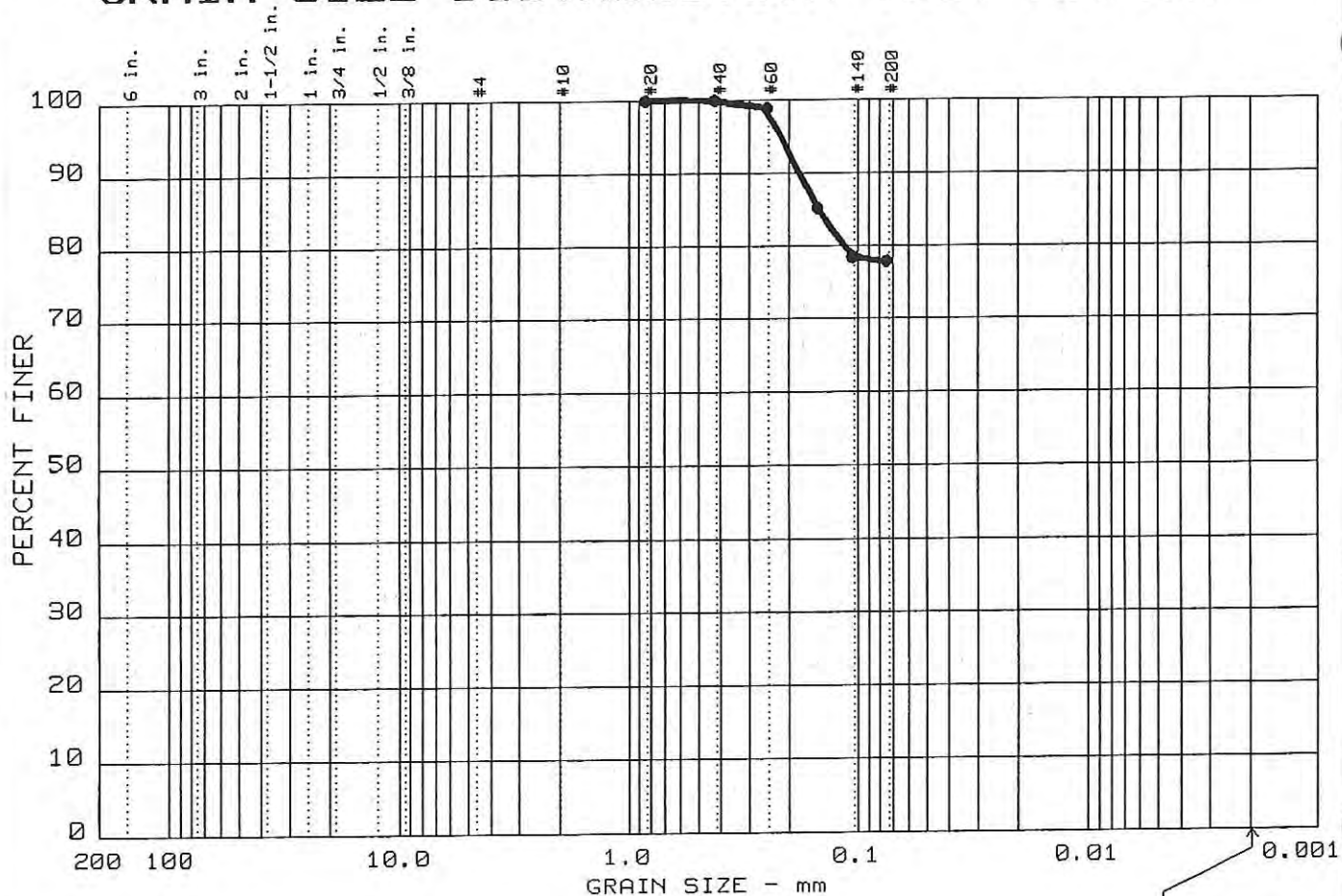
Figure No. _____

Grain size distribution curve showing Percent Finer versus Grain Size (mm). The curve indicates a sharp drop in percent finer between 0.25 mm and 0.075 mm, suggesting a well-graded material.

Grain Size (mm)	Percent Finer (%)
2.0	100
0.85	100
0.425	100
0.25	98
0.15	38
0.075	6
0.0475	1

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
8	0.0	0.0	22.2	77.8	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
67	41	0.15							

MATERIAL DESCRIPTION	USCS	AASHTO
	CH	A-7-6

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-12, 10'

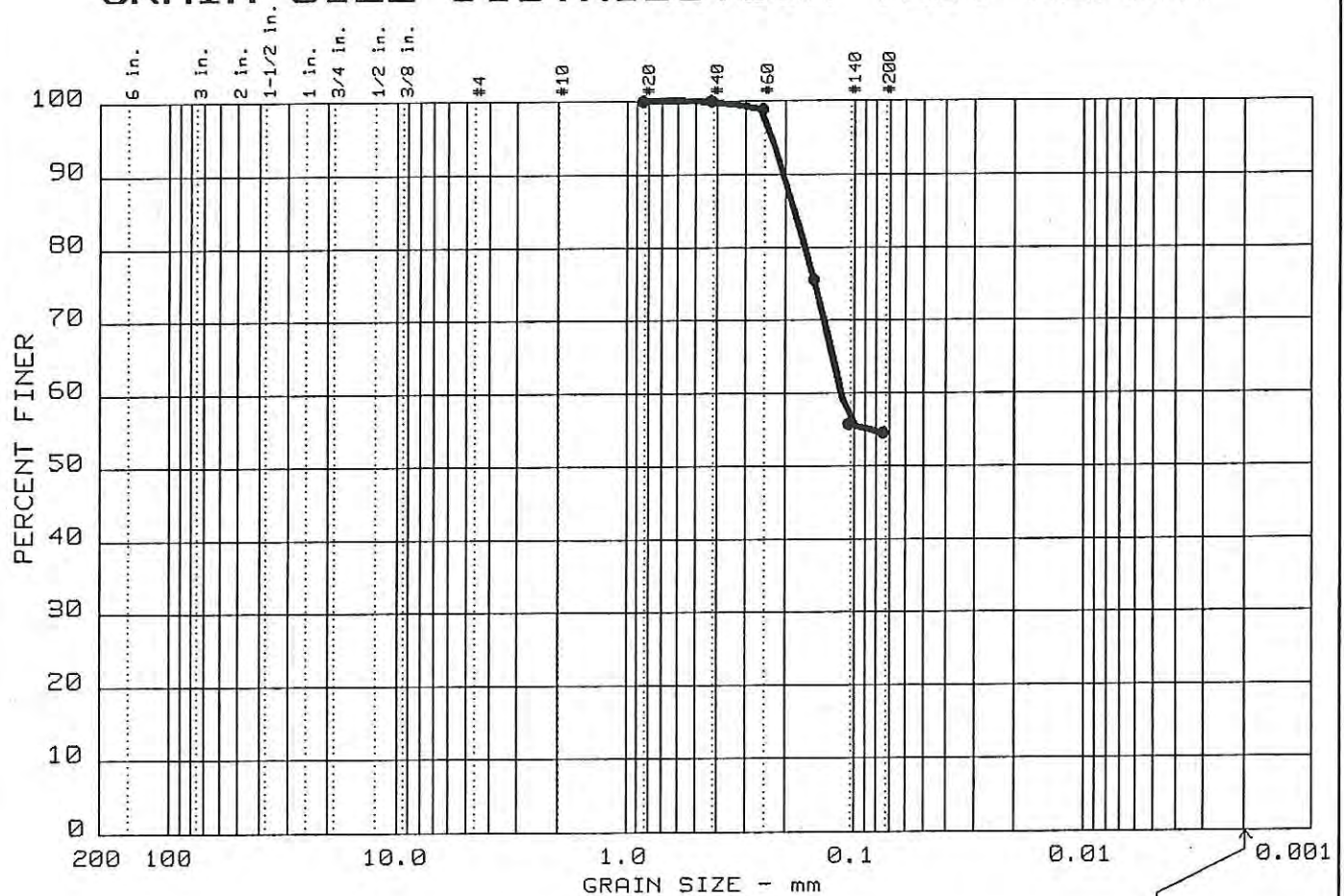
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

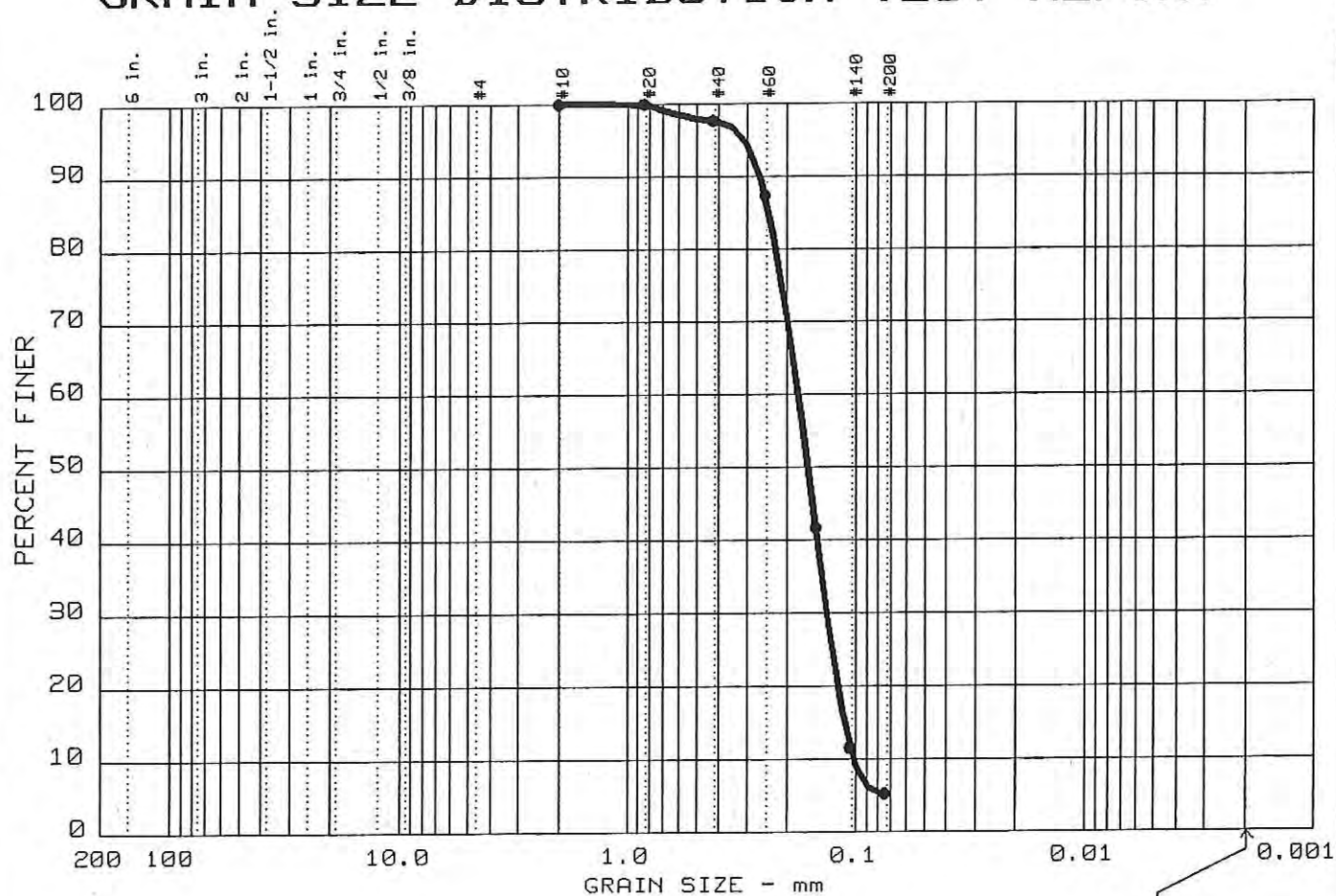
Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=32.4%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



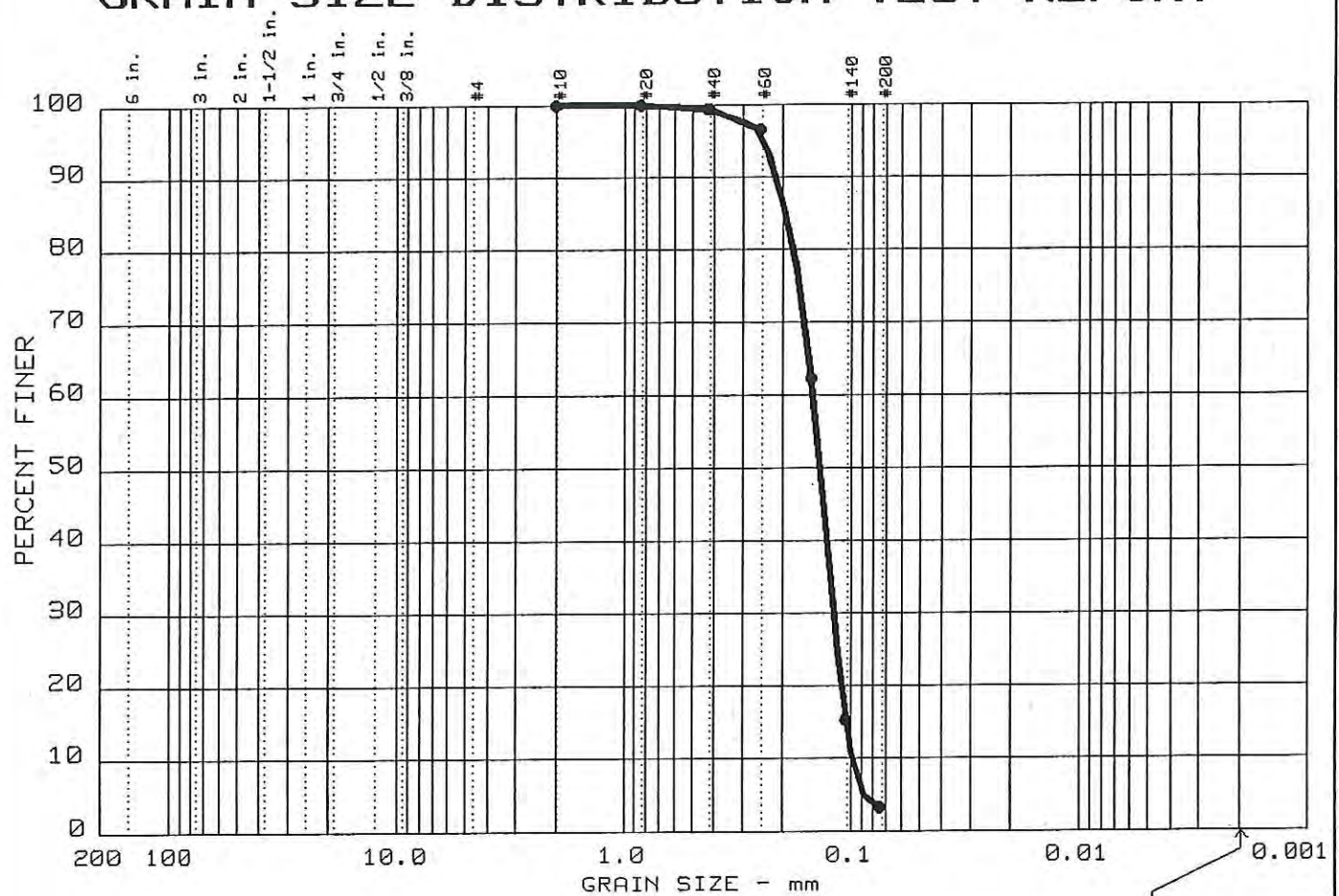
Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
11	0.0	0.0	94.7	5.3	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.24	0.18	0.16	0.134	0.1121	0.1022	0.98	1.8

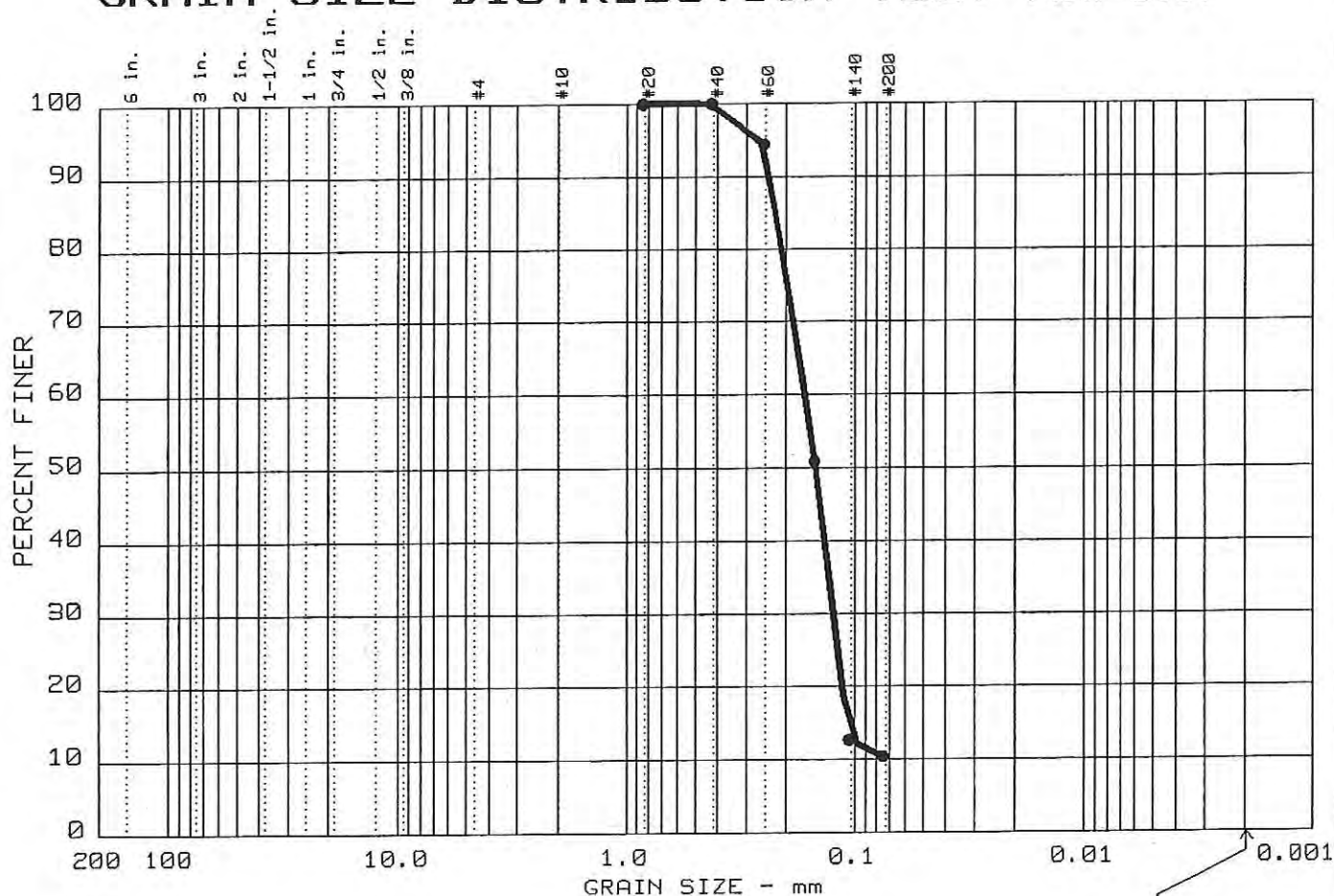
MATERIAL DESCRIPTION	USCS	AASHTO
	SP-SM	A-3

Project No.: 778-62009 Project: HUNTER II (METCALF & EDDY) • Location: H833 - WB-14, 8'-10' Date: 05-14-96	Remarks: TESTED BY: D MOORE CHECKED BY: A WALSH NMC=21.1% Figure No. _____
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 4	0.0	0.0	89.5	10.5	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.17	0.15	0.124	0.1081			

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H893 - WB-16, 5.3'-7.3'

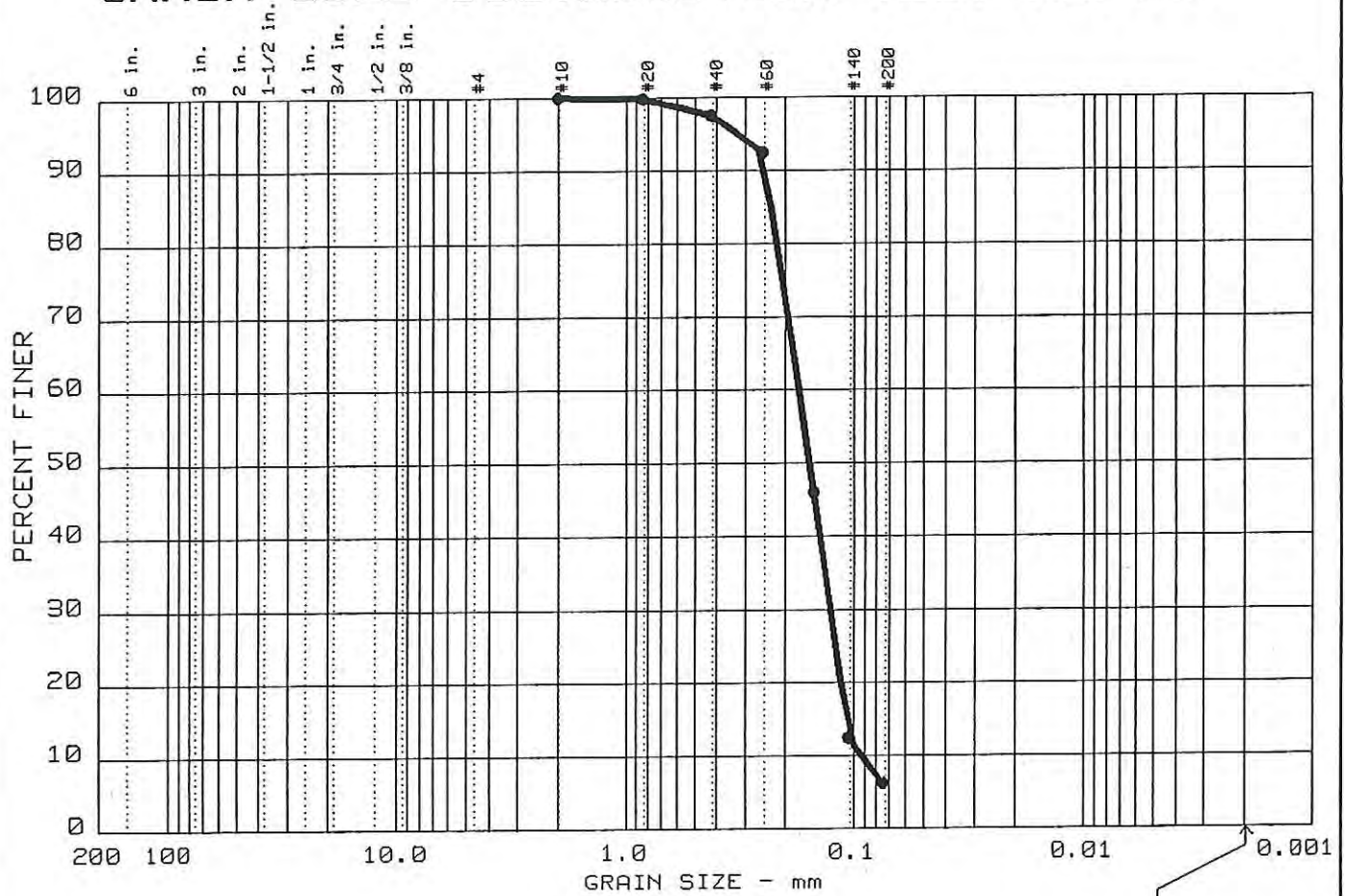
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=18.0%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 9	0.0	0.0	93.7	6.3	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.23	0.17	0.16	0.127	0.1086	0.0914	1.01	1.9

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 ● Location: H833 - WB-17, 15'

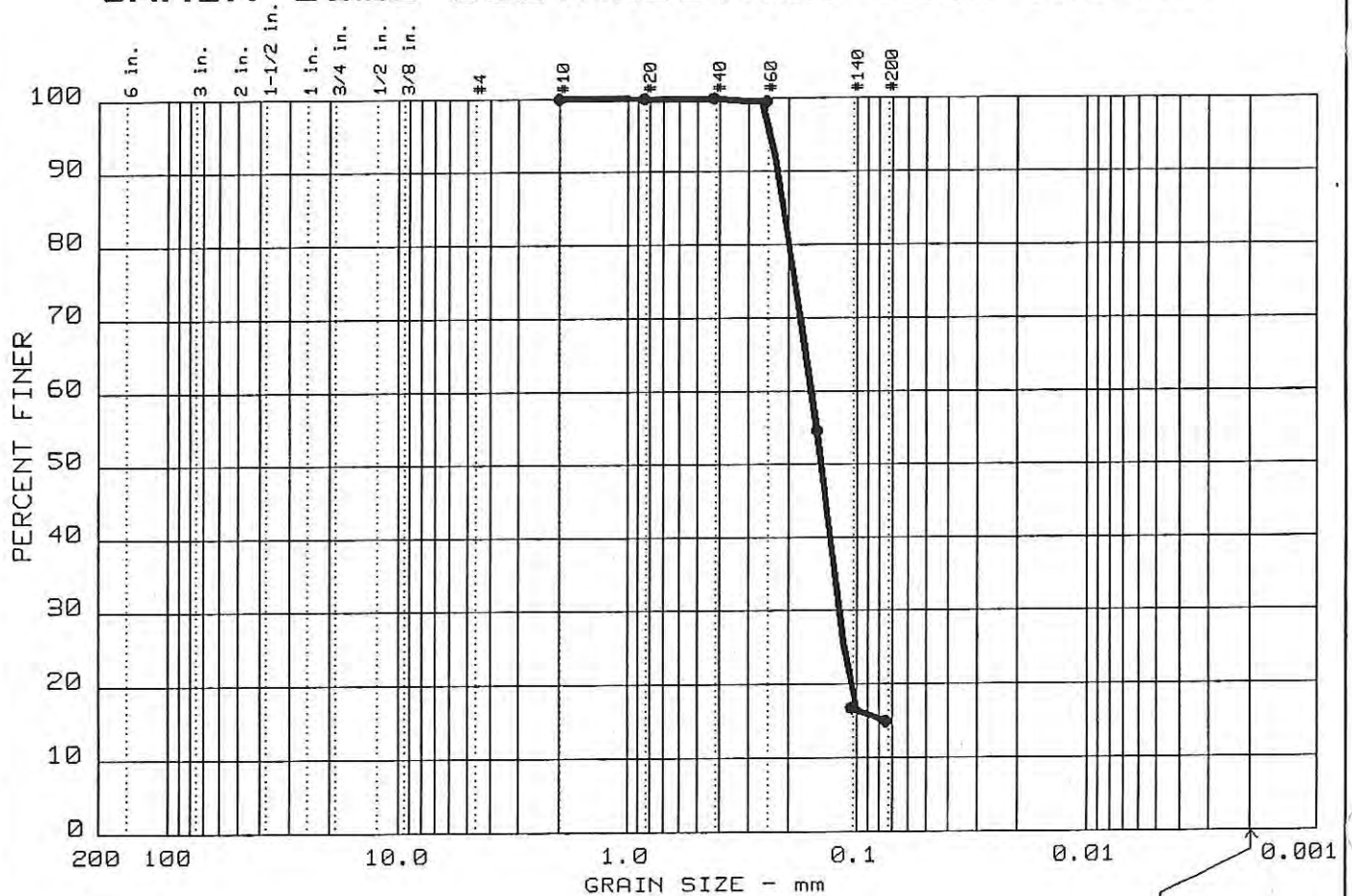
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=26.7%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 16	0.0	0.0	85.0	15.0	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.21	0.16	0.14	0.120				

MATERIAL DESCRIPTION	USCS	AASHTO
•	SM	A-2-4

Project No.: 778-62009 Project: HUNTER II (METCALF & EDDY) • Location: H833 - WB-18, 15' Date: 05-14-96	Remarks: TESTED BY: D MOORE CHECKED BY: A WALSH NMC=29.1%
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	
Figure No. _____	

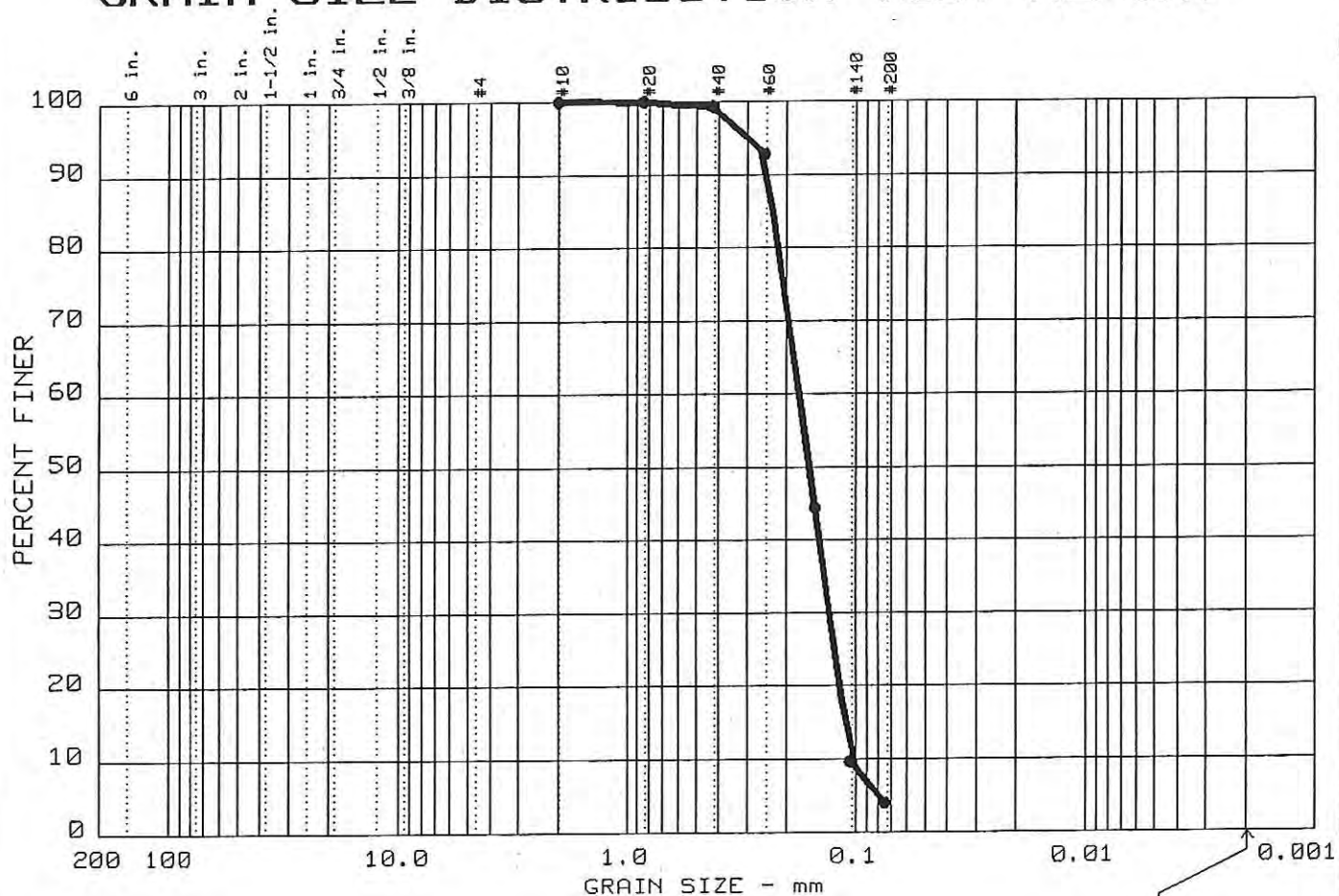
Grain size distribution plot showing Percent Finer versus Grain Size (mm). The curve indicates a distribution that is predominantly fine-grained, with most material passing through a No. 40 sieve (0.425 mm) and a significant portion passing through a No. 200 sieve (0.075 mm).

Sieve Size (mm)	Percent Finer (%)
2.0	100
0.85	100
0.425	98
0.25	95
0.15	60
0.075	10
0.06	7

[illegible]

Project No.: 778-62009 Project: HUNTER II (METCALF & EDDY) • Location: H893 - WB-19, 13'-15' Date: 05-14-96	Remarks: TESTED BY: D MOORE CHECKED BY: A WALSH NMC= 25.8%
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	
Figure No. _____	

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
7	0.0	0.0	95.9	4.1	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.23	0.18	0.16	0.130	0.1117	0.1060	0.90	1.7

MATERIAL DESCRIPTION	USCS	AASHTO
	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-20, 8'-10'

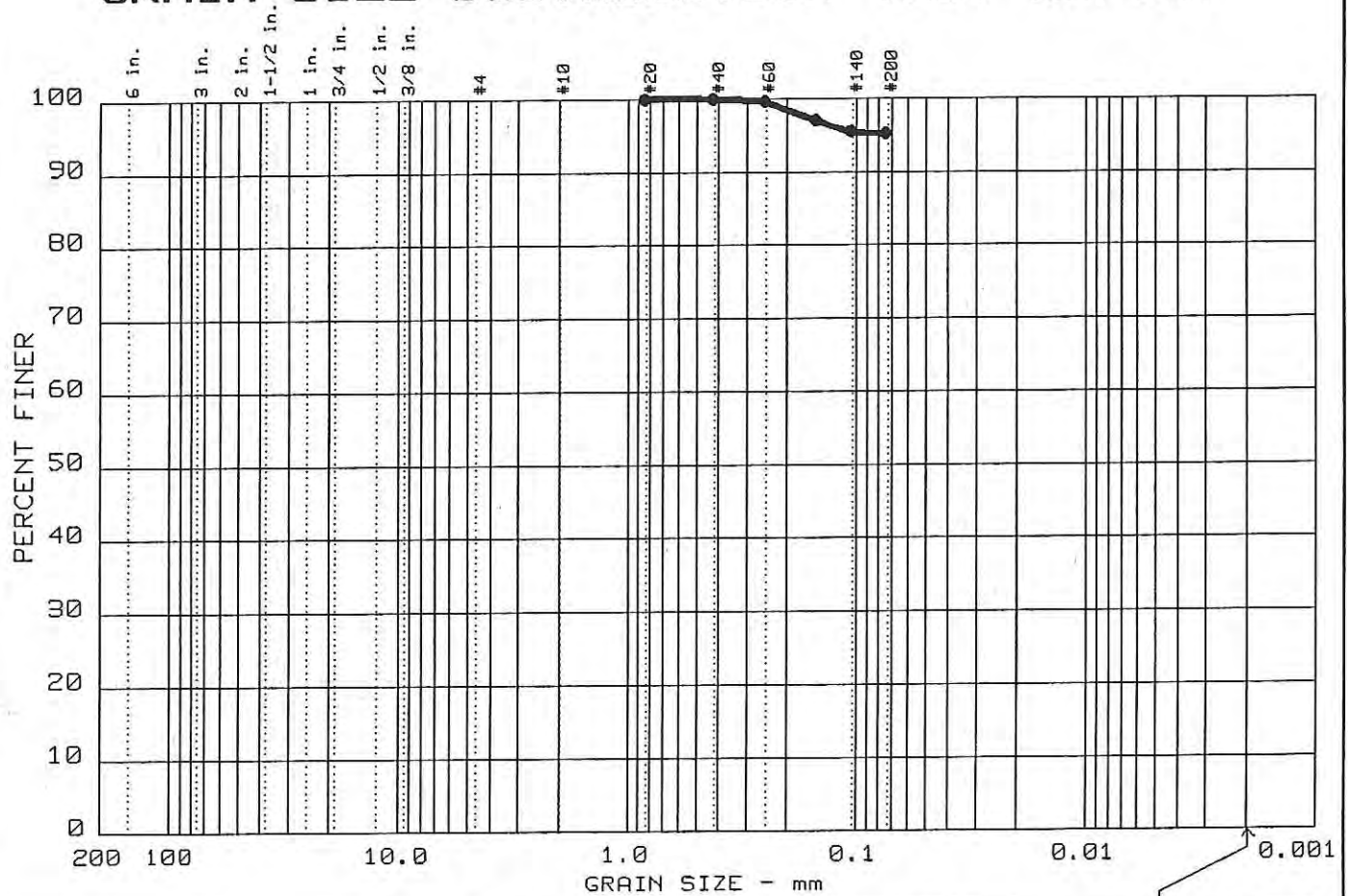
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC = 19.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
3	0.0	0.0	4.8	95.2	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
81	49								

MATERIAL DESCRIPTION	USCS	AASHTO
	CH	A-7-5

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-21, 15'

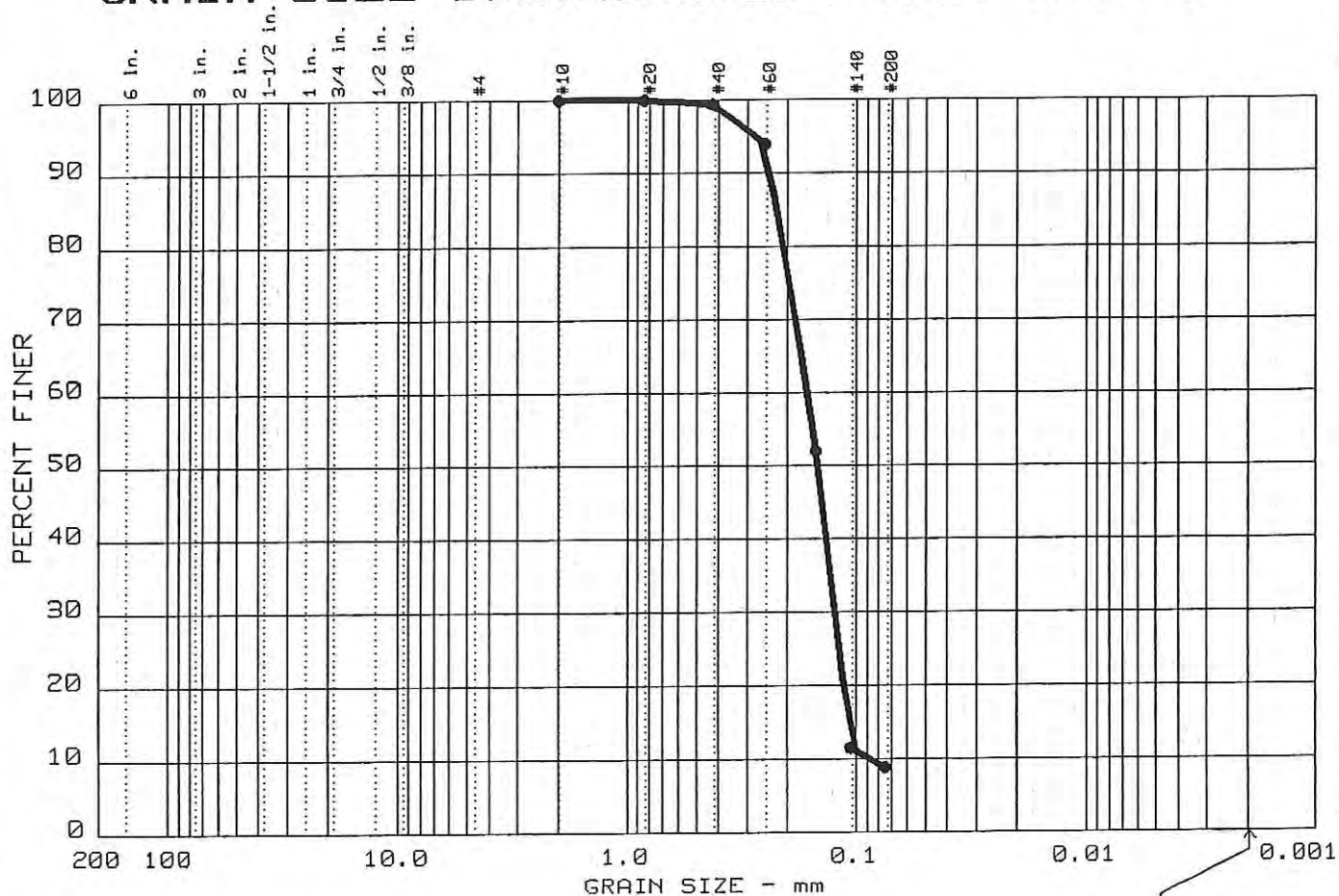
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=60.3%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 2	0.0	0.0	91.1	8.9	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.16	0.15	0.124	0.1091	0.0857	1.10	1.9

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP-SM	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H893 - WB-22, 14'

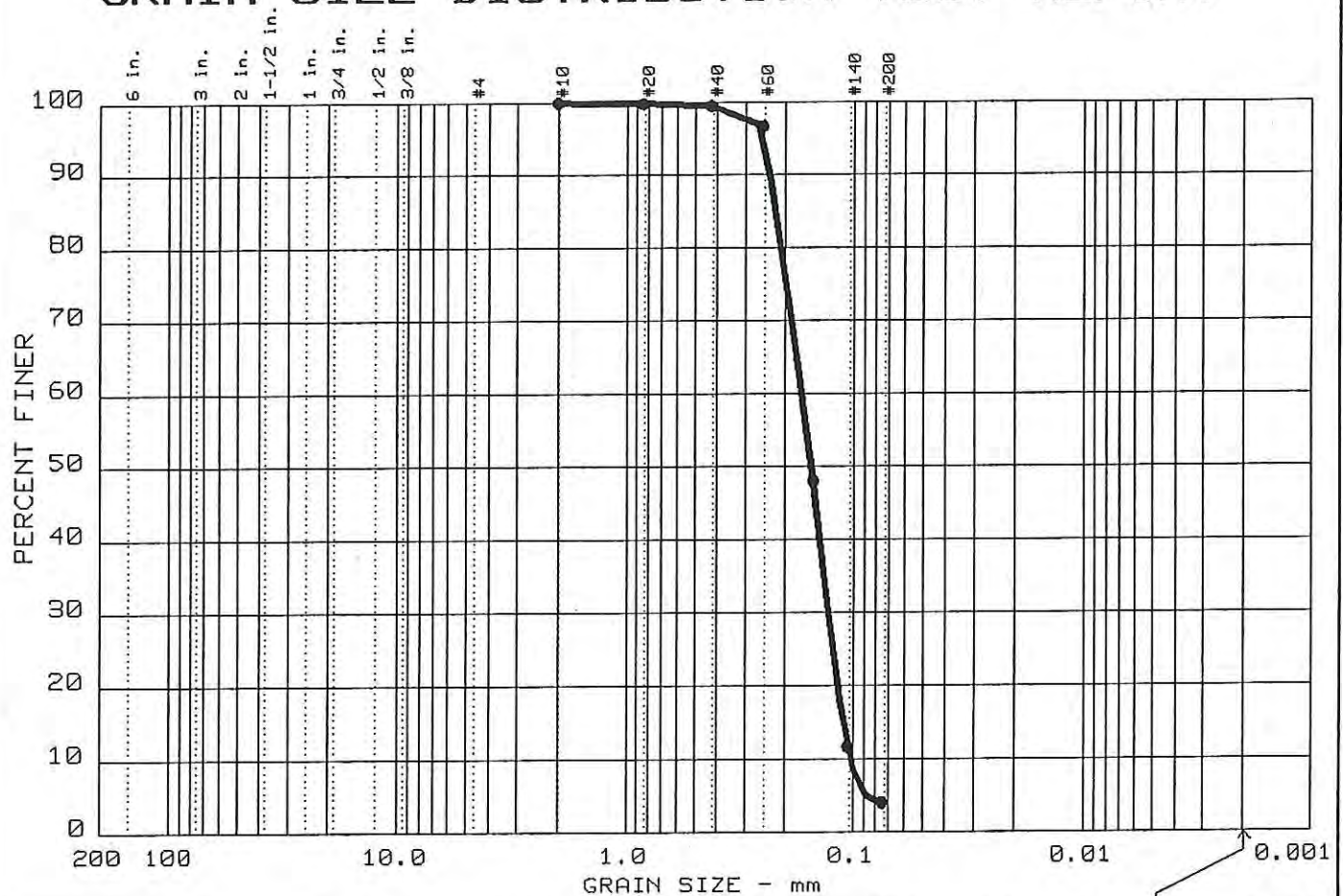
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=28.1%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 19	0.0	0.0	95.9	4.1	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.22	0.17	0.15	0.129	0.1109	0.1029	0.96	1.6

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 ● Location: H833 - WB-23, 8'-10'

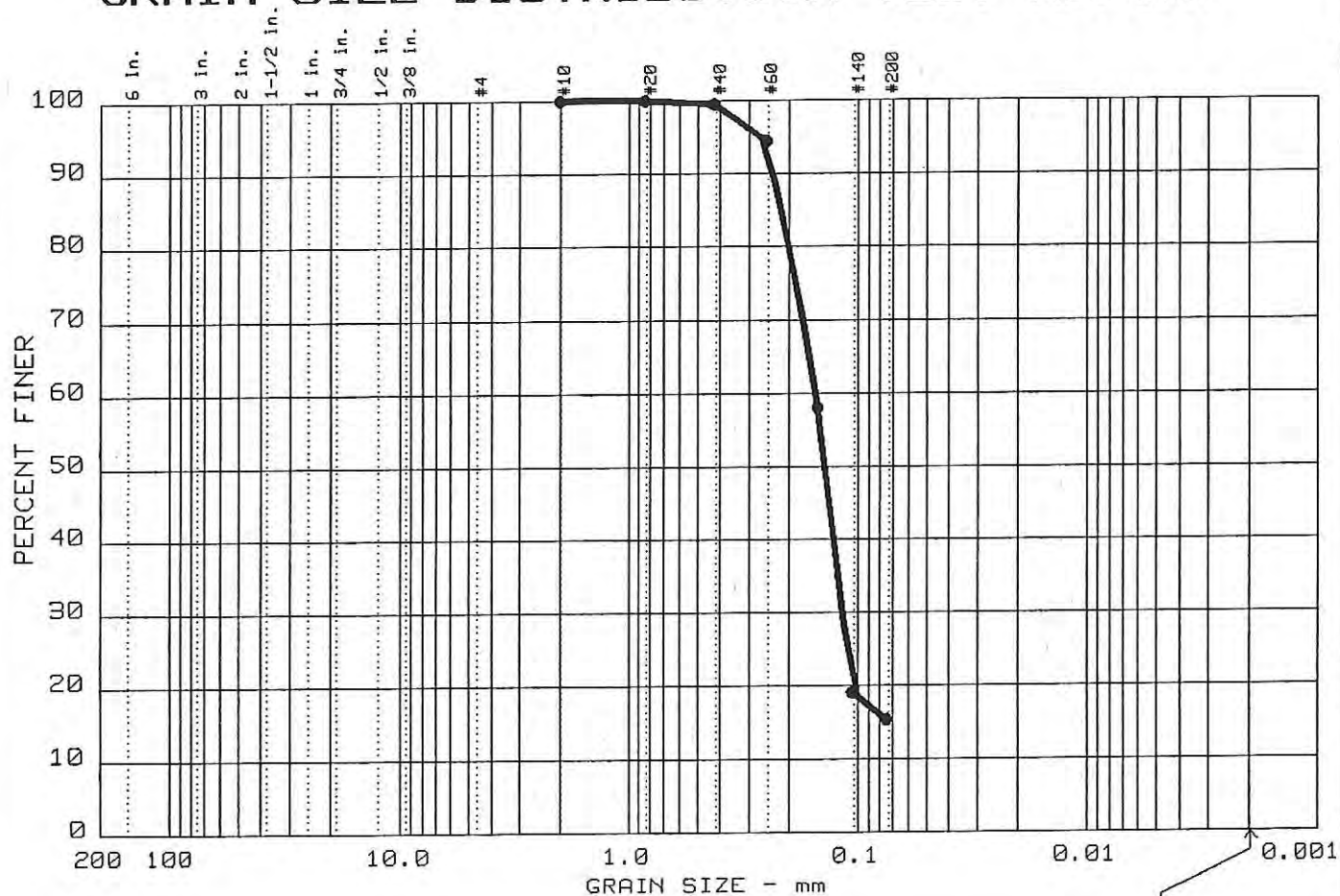
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=30.2%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 20	0.0	0.0	84.6	15.4	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.22	0.15	0.14	0.117				

MATERIAL DESCRIPTION	USCS	AASHTO
•	SM	A-2-4

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H833 - WB-24, 8'-10'

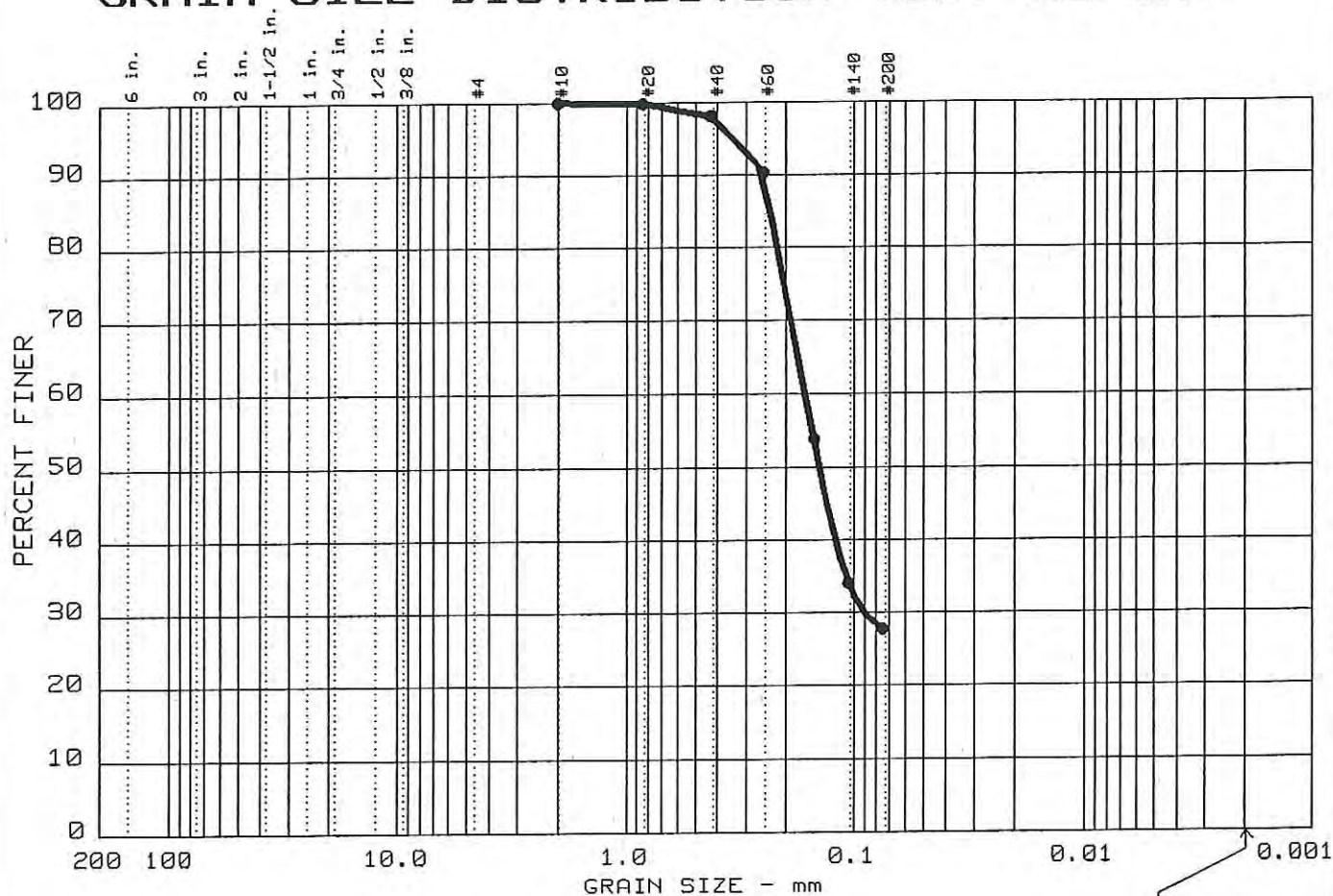
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=23.7%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
17	0.0	0.0	72.3	27.7	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.23	0.17	0.14	0.090				

MATERIAL DESCRIPTION	USCS	AASHTO
	SM	A-2-4

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-25, 13'-15'

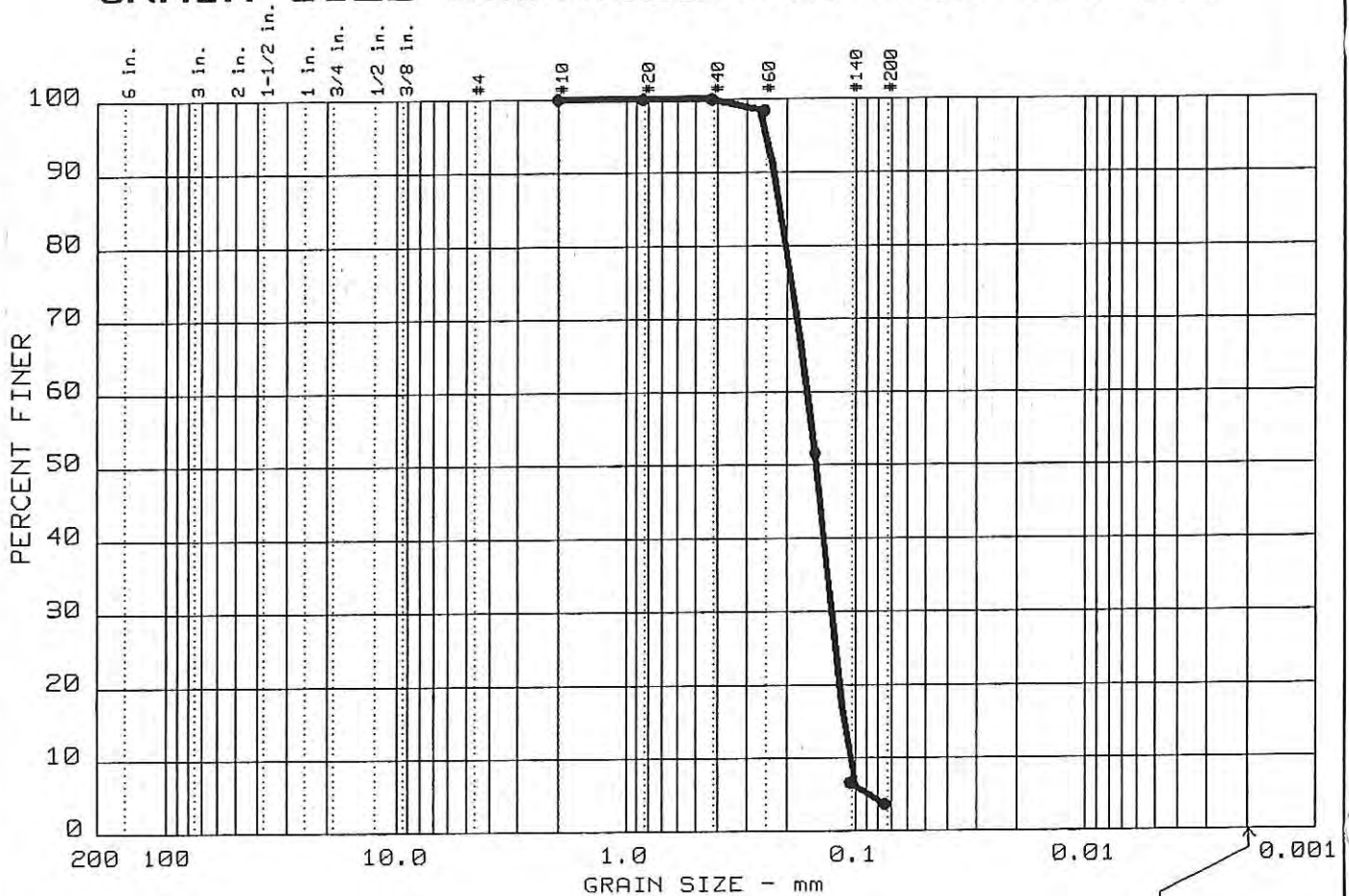
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=33.5%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
4	0.0	0.0	96.3	3.7	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.21	0.16	0.15	0.127	0.1130	0.1088	0.91	1.5

MATERIAL DESCRIPTION	USCS	AASHTO
	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H833 - WB-26, 3.3'-5.3'

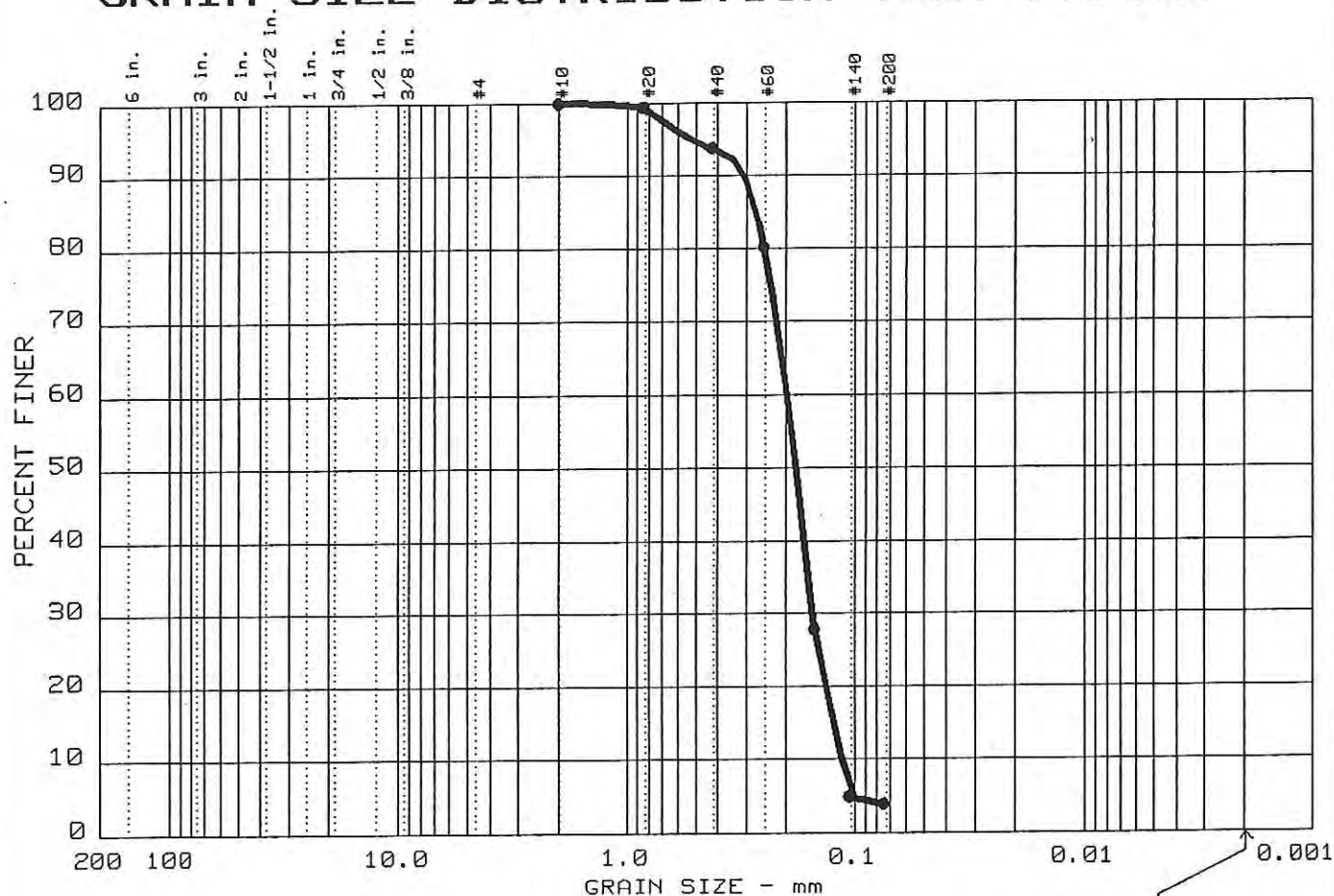
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC = 5.5%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 12	0.0	0.0	96.1	3.9	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.27	0.20	0.18	0.153	0.1233	0.1143	1.03	1.7

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 ● Location: H833 - WB-27, 13'-15'

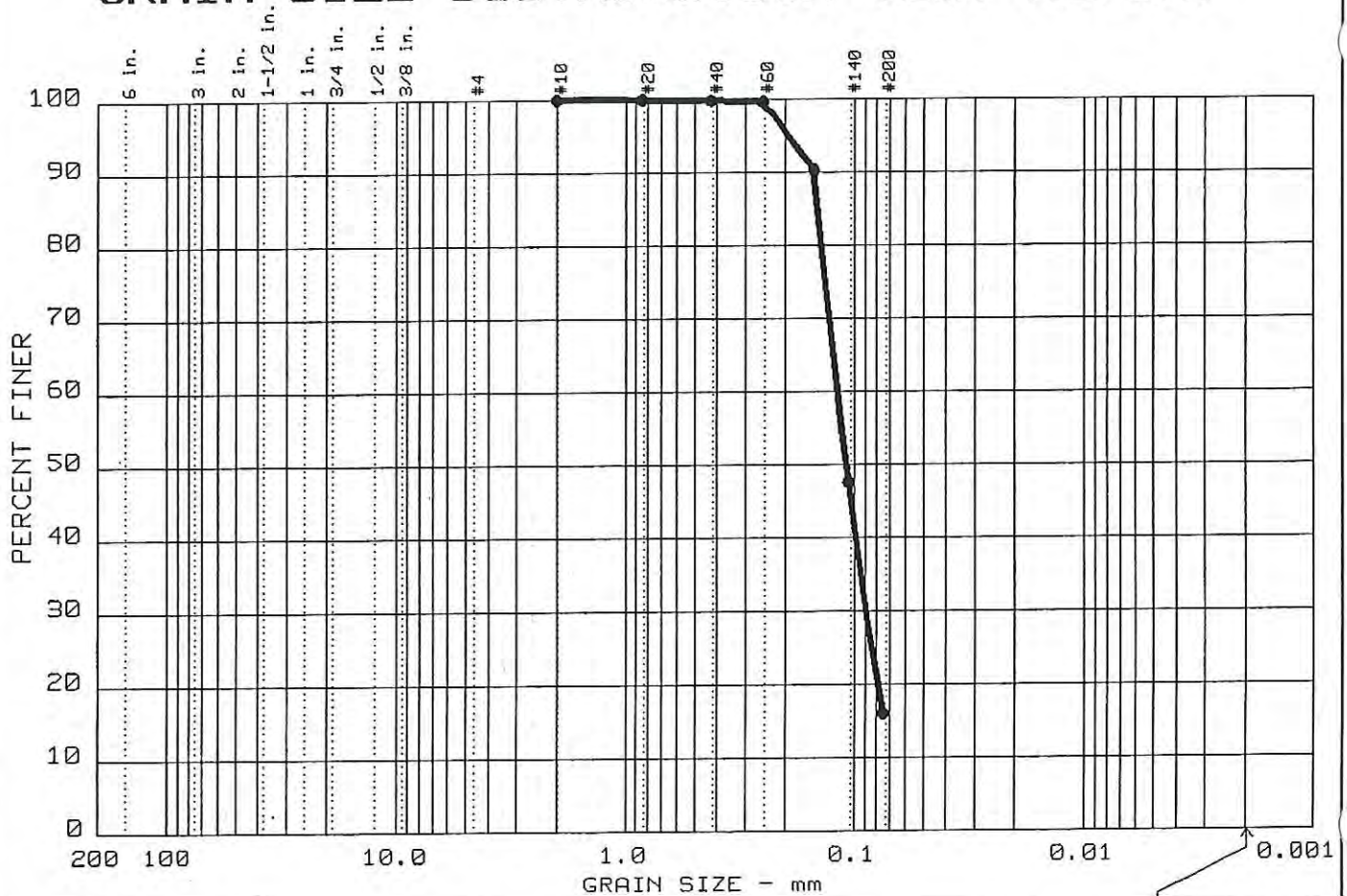
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=25.6%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 2	0.0	0.0	83.8	16.2	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.14	0.12	0.11	0.089				

MATERIAL DESCRIPTION	USCS	AASHTO
•	SM	A-2-4

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H833 - WB-28, 18'-20'

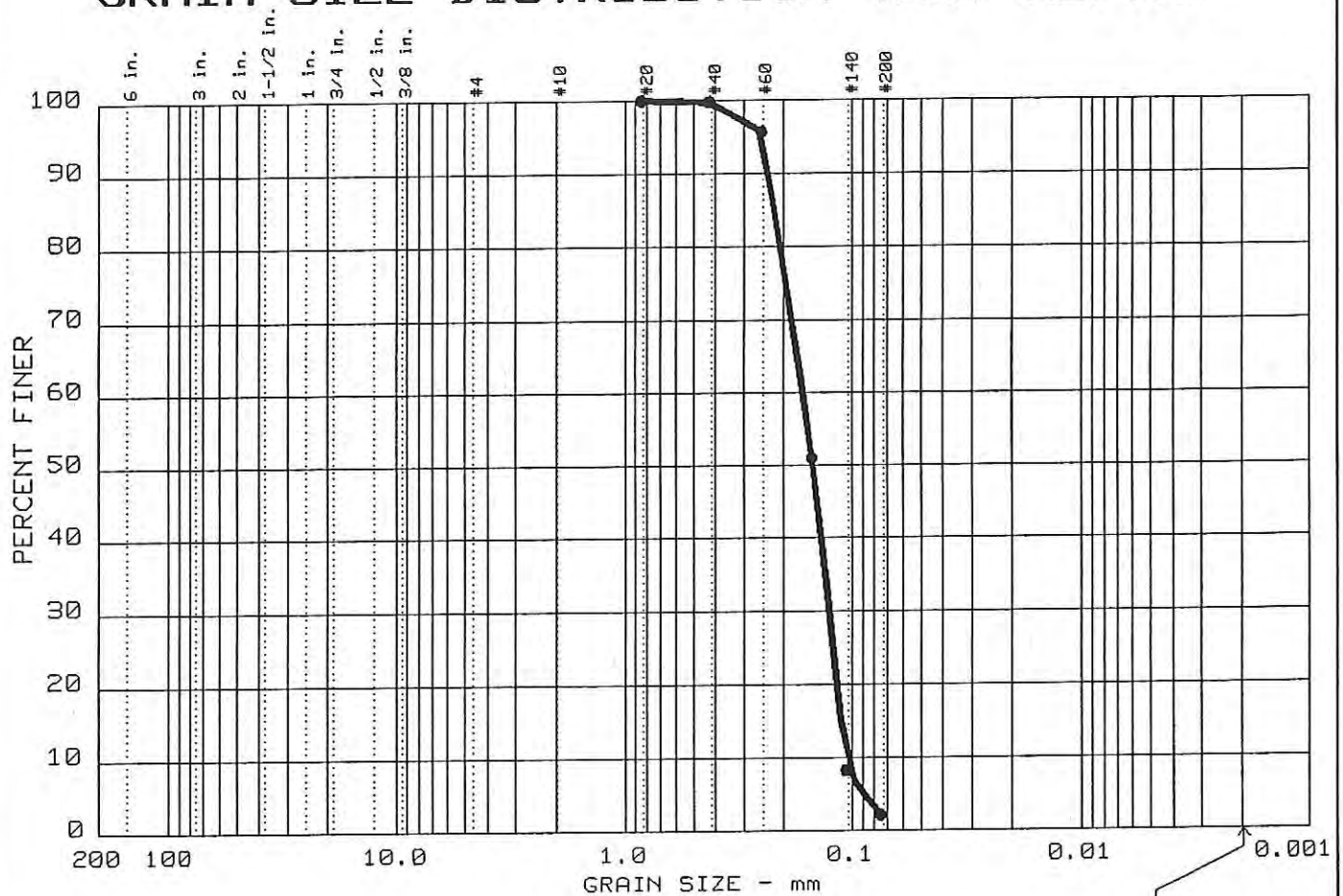
Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=30.9%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
7	0.0	0.0	97.8	2.2	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.22	0.16	0.15	0.126	0.1118	0.1074	0.90	1.5

MATERIAL DESCRIPTION	USCS	AASHTO
	SP	A-3

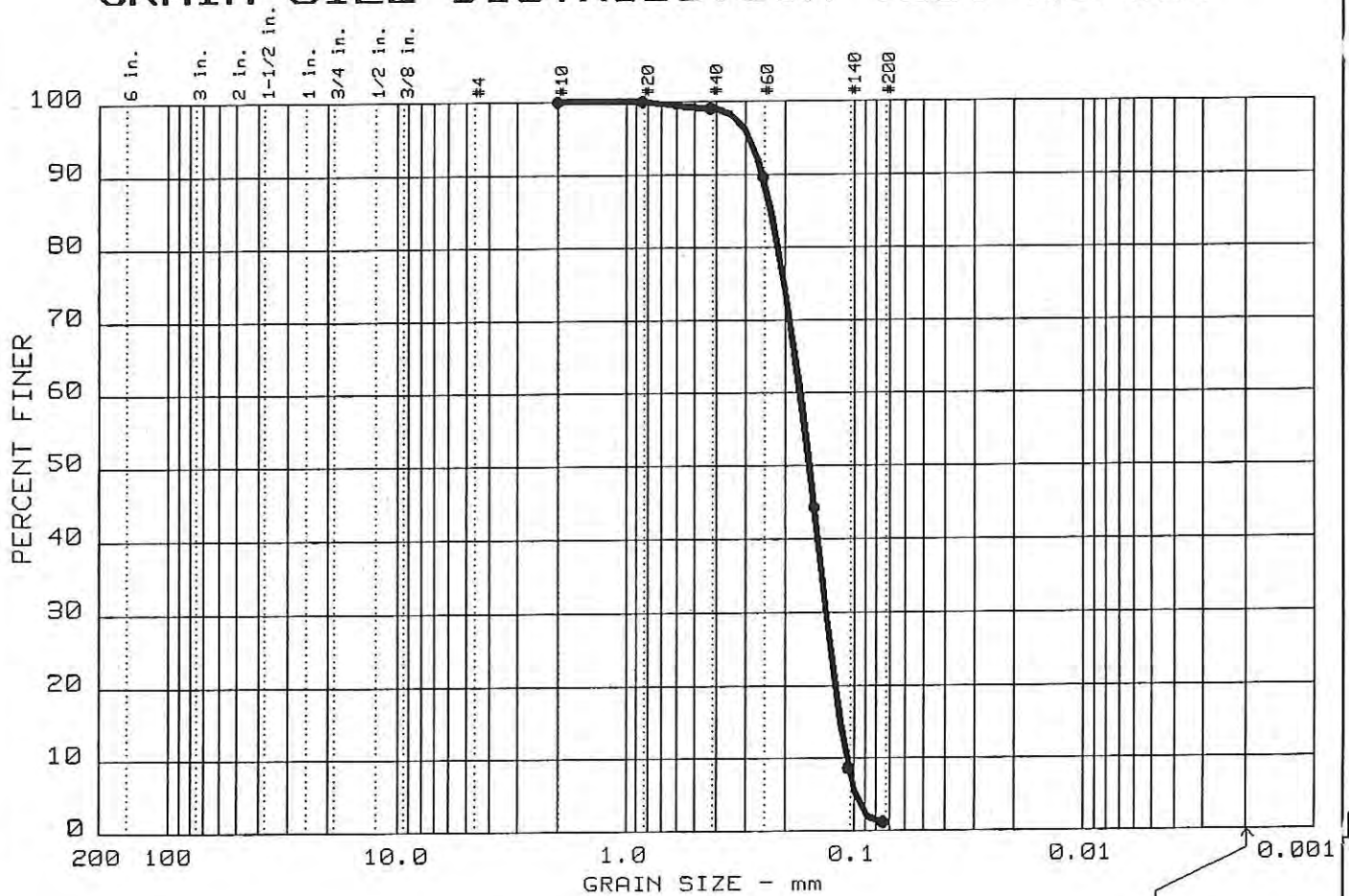
Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 Location: H033 - WB-29, 8'-10'
 Date: 05-14-96

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=24.3%

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 5	0.0	0.0	98.7	1.3	

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.23	0.17	0.16	0.133	0.1149	0.1080	0.94	1.6

MATERIAL DESCRIPTION	USCS	AASHTO
•	SP	A-3

Project No.: 778-62009
 Project: HUNTER II (METCALF & EDDY)
 • Location: H833 - WB-32, 13'-15'

Date: 05-14-96

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: D MOORE
 CHECKED BY: A WALSH
 NMC=26.6%

Figure No. _____

APPENDIX H
SURVEY DATA

HUNTER ARMY AIRFIELD
STORM WATER DRAINAGE SYSTEMS

MONITORING WELLS FOR AREA H8024

MONITOR WELL #	N - COORD	E - COORD	TOC	BOC	GROUND
H8024MW01	734794.05	816370.26	38.42	36.7	36.7
H8024MW02	734786.30	816363.18	37.93	36.7	36.7
H8024MW03	734718.85	816012.05	29.75	28.0	28.0
H8024MW04	734718.26	816018.31	30.42	28.4	28.4
H8024MW05	734494.40	816074.78	31.94	29.9	29.9
H8024MW06	734497.06	816067.87	31.53	29.8	29.8
H8024MW07	734579.41	816022.87	28.88	28.3	28.3
H8024MW08	734779.39	816009.56	27.50	25.9	25.9
H8024MW09	734790.32	816129.69	34.39	32.3	32.3
H8024MW10	734613.19	815936.89	27.41	24.7	24.7
H8024MW11	734490.83	815972.75	31.05	28.6	28.6
H8024MW12	734397.13	815999.76	31.78	29.2	29.2
H8024MW13	734857.94	816186.18	34.88	32.8	32.8

MONITORING WELLS FOR AREA H833

MONITOR WELL #	N - COORD	E - COORD	TOC	BOC	GROUND
H833MW01	734764.44	816843.96	36.83	37.0	37.0
H833MW02	734653.31	817002.21	37.45	37.6	37.6
H833MW03	734558.75	817390.89	37.55	37.8	37.8
H833MW04	734518.27	817549.48	37.87	38.1	38.0
H833MW05	734426.01	817923.19	37.98	38.3	38.3
H833MW06	734468.85	818043.86	37.71	37.9	37.9
H833MW07	734384.44	818228.96	38.16	38.5	38.5
H833MW08	734706.85	817205.14	37.10	37.4	37.4
H833MW09	734686.69	817446.96	36.76	37.0	37.0
H833MW10	734636.44	817649.37	37.15	37.3	37.3
H833MW11	734929.46	817031.94	34.66	34.8	34.8
H833MW12	734813.64	817216.45	36.40	36.6	36.6
H833MW13	734844.60	817383.08	36.75	36.9	36.9
H833MW14	734811.44	817527.77	35.62	35.8	35.8
H833MW15	734748.40	817786.05	35.74	35.9	35.9
H833MW16	734785.38	817869.70	36.06	36.3	36.3
H833MW17	734966.34	817301.80	35.88	36.1	36.1
H833MW18	735141.89	817067.58	35.40	35.6	35.6
H833MW19	735089.39	817265.90	35.46	35.8	35.8
H833MW20	735006.49	817524.61	36.81	37.0	37.0
H833MW21	735171.37	817205.01	35.82	36.0	36.0
H833MW22	735111.33	817403.35	35.44	35.7	35.7
H833MW23	735340.33	817538.60	34.37	34.6	34.6
H833MW24	735455.00	817520.77	34.79	34.9	34.9
H833MW25	735402.80	817697.46	35.09	35.3	35.3
H833MW26	735393.63	817866.66	36.17	36.4	36.4

MONITORING WELLS FOR AREA H833

MONITOR WELL #	N - COORD	E - COORD	TOC	BOC	GROUND
H833MW27	735558.27	817642.34	34.79	35.0	35.0
H833MW28	735976.92	817164.02	35.18	35.3	35.3
H833MW29	735682.64	818408.23	36.57	36.7	36.7
H833MW30	735747.03	818433.62	36.76	36.9	36.9
H833MW31	734378.30	819001.90	36.79	37.0	37.0
H833MW32	734427.67	819055.60	36.40	36.6	36.6

SOIL BORINGS FOR AREA H833

SOIL BORING #	N - COORD	E - COORD	GROUND
H833SB01	734763.22	816770.27	37.0
H833SB02	734688.42	816910.53	37.5
H833SB03	734642.17	817145.57	37.8
H833SB04	734588.50	817317.85	37.9
H833SB05	734860.54	816971.33	35.5
H833SB06	734829.96	817161.30	36.3
H833SB07	734760.52	817385.51	36.2
H833SB08	735104.41	816910.44	35.4
H833SB09	735013.48	817087.84	34.5
H833SB10	734999.53	817326.61	36.0
H833SB11	735008.30	817517.46	37.0
H833SB12	735185.92	817179.47	36.3
H833SB13	735173.30	817374.52	35.4
H833SB14	735417.08	817207.30	36.4
H833SB15	735381.74	817358.94	35.5
H833SB16	735281.59	817667.61	36.0
H833SB17	735462.12	817490.14	35.2
H833SB18	735394.10	817881.29	36.6
H833SB19	735502.77	817926.45	36.0
H833SB20	735871.58	817597.07	35.5
H833SB21	734509.50	817637.56	38.2
H833SB22	734447.58	817914.62	38.2
H833SB23	734415.73	817999.79	38.4
H833SB24	734374.51	818165.05	38.5
H833SB25	734575.38	817894.96	37.3
H833SB26	734516.03	818054.30	37.5
H833SB27	734744.71	817668.81	35.3
H833SB28	734890.82	817756.18	35.5
H833SB29	734775.21	817872.41	36.4
H833SB30	734828.88	818000.29	36.8
H833SB31	735026.76	817819.84	35.7
H833SB32	734958.07	817959.93	35.2
H833SB33	735060.16	818051.72	35.5
H833SB34	735165.26	818141.02	34.9
H833SB35	735298.59	818315.55	35.4
H833SB36	735614.26	818363.54	36.4

SOIL BORINGS FOR AREA H833

SOIL BORING #	N - COORD	E - COORD	GROUND
H833SB37	735676.92	818415.72	36.7
H833SB38	735002.29	818828.24	36.1
H833SB39	735011.85	818627.39	34.8
H833SB40	734902.24	818637.16	35.2
H833SB41	734851.80	818463.30	35.2
H833SB42	734728.03	818760.86	37.3
H833SB43	734612.01	818779.40	36.6
H833SB44	734538.27	818639.73	36.9
H833SB45	734394.93	818636.45	37.6
H833SB46	734235.86	818706.94	38.8
H833SB47	734513.51	818953.03	36.1
H833SB48	734438.59	819050.79	36.6
H833SB49	734346.53	819045.45	37.2
H833SB50	734116.55	819177.78	39.3

(95204wel.txt)