APPENDIX A

ANALYTICAL DATA TABLES AND GEOGRAPHIC COORDINATES

Analytical Results –Field Screening by EPA Method 4042 (DDT Immunoassay Field Test Kits)

Location Code	Start Depth	End Depth	Depth Units	Sample Matrix	Analyte Name	Final Result	Qualifier*	Result Units	Field Sample ID
UPDD-1200	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF- UPDD-2512
UPDD-1201	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2513
UPDD-1202	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-718
UPDD-1202	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-560-0.5FT
UPDD-1202	0.75	1	Ft	SOIL	TOTAL DDTS	10	E	mg/kg	HAAF-UPDD-2514-1FT
UPDD-1202	1.25	1.5	Ft	SOIL	TOTAL DDTS	10	E	mg/kg	HAAF-UPDD-2515-1.5FT
UPDD-1202	1.75	2	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2552-2FT
UPDD-1202	2.25	2.5	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2553-2.5FT
UPDD-1203	0	0.25	Ft	SOIL	TOTAL DDTS	10	E	mg/kg	HAAF-UPDD-555
UPDD-1203	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2516-0.5FT
UPDD-1203	0.75	1	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2517-1FT
UPDD-1203	1.75	2	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2541-2FT
UPDD-1204	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2518
UPDD-1205	0	0.25	Ft	SOIL	TOTAL DDTS	10	E	mg/kg	HAAF-UPDD-558
UPDD-1205	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-573-0.5FT
UPDD-1205	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-574-1FT
UPDD-1205	1.25	1.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2523-1.5FT
UPDD-1205	1.75	2	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2524-2FT
UPDD-1206	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-575

Analytical Results –Field Screening by EPA Method 4042 (DDT Immunoassay Field Test Kits)

Location Code	Start Depth	End Depth	Depth Units	Sample Matrix	Analyte Name	Final Result	Qualifier*	Result Units	Field Sample ID
UPDD-1206	0.75	1	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2525-1FT
UPDD-1207	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2526
UPDD-1207	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2551
UPDD-1207	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2527-0.5FT
UPDD-1208	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2519
UPDD-1209	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-579
UPDD-1209	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2528-0.5FT
UPDD-1209	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2529-1FT
UPDD-1209	1.25	1.5	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-579-1.5FT
UPDD-1209	1.75	2	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-579-2FT
UPDD-1210	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-581
UPDD-1210	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2531-0.5FT
UPDD-1210	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2532-1FT
UPDD-1210	1.25	1.5	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-581-1.5FT
UPDD-1210	1.75	2	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-581-2FT
UPDD-1211	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2533
UPDD-1211	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2547-0.5FT
UPDD-1211	0.75	1	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2548-1FT
UPDD-1212	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2554

Analytical Results –Field Screening by EPA Method 4042 (DDT Immunoassay Field Test Kits)

Location Code	Start Depth	End Depth	Depth Units	Sample Matrix	Analyte Name	Final Result	Qualifier*	Result Units	Field Sample ID
UPDD-1212	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2554-0.5FT
UPDD-1212	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2554-1FT
UPDD-1212	1.25	1.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2554-1.5FT
UPDD-1212	1.75	2	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2554-2FT
UPDD-1213	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2556
UPDD-1213	0.25	0.5	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2556-0.5
UPDD-1213	0.75	1	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2556-1FT
UPDD-1214	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2557
UPDD-1215	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-2534
UPDD-1215	0.25	0.5	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2545-0.5FT
UPDD-1215	0.75	1	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2546-1FT
UPDD-1216	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2555
UPDD-1217	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2544
UPDD-1218	0.75	1	Ft	SOIL	TOTAL DDTS	1	*	mg/kg	HAAF-UPDD-2520-1FT
UPDD-1218	1.25	1.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2542-1.5FT
UPDD-1219	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-2530
UPDD-1220	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-554
UPDD-1221	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-562
UPDD-1222	0.75	1	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-563-1FT

Analytical Results –Field Screening by EPA Method 4042 (DDT Immunoassay Field Test Kits)

Location Code	Start Depth	End Depth	Depth Units	Sample Matrix	Analyte Name	Final Result	Qualifier*	Result Units	Field Sample ID
UPDD-1223	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-564
UPDD-1224	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-565
UPDD-1225	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-566
UPDD-1225	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-577-0.5FT
UPDD-1225	0.75	1	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-578-1FT
UPDD-1227	0.75	1	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-569-1FT
UPDD-1228	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-570
UPDD-1229	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-714-1FT
UPDD-1229	1.75	2	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-551-2FT
UPDD-1230	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-715
UPDD-1231	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-716
UPDD-1231	0.75	1	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-553-1FT
UPDD-1232	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-717-1FT
UPDD-1232	1.25	1.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-567-1.5FT
UPDD-1233	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-719
UPDD-1233	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-559-0.5FT
UPDD-1234	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-572-1.5FT
UPDD-1234	0.75	1	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-720-1FT
UPDD-1235	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-721

Analytical Results –Field Screening by EPA Method 4042 (DDT Immunoassay Field Test Kits)

Location Code	Start Depth	End Depth	Depth Units	Sample Matrix	Analyte Name	Final Result	Qualifier*	Result Units	Field Sample ID
UPDD-1235	0.5	0.75	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-571-0.5FT
UPDD-1236	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-722
UPDD-1237	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-771
UPDD-1238	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-772
UPDD-1238	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-561-0.5FT
UPDD-1239	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-773
UPDD-1240	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-774
UPDD-1241	0	0.25	Ft	SOIL	TOTAL DDTS	1	U	mg/kg	HAAF-UPDD-775
UPDD-1242	0	0.25	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-776
UPDD-1242	0.25	0.5	Ft	SOIL	TOTAL DDTS	1	E	mg/kg	HAAF-UPDD-557-0.5FT
UPDD-1243	0	0.25	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2510
UPDD-1244	0.75	1	Ft	SOIL	TOTAL DDTS	0.2	U	mg/kg	HAAF-UPDD-2511-1FT

*****Laboratory Qualifier – E = exceeds result; U = not detected at or above the result; no qualifier indicates the response was equivalent to the associated standard.

Sample Locations and Geographic Coordinates (North American Datum 1927, California State Plane Zone III, measured in feet)

Location Code	Northing (ft)	Easting (ft)
UPDD-1200	578144.754	1418422.393
UPDD-1201	578137.6872	1418421.012
UPDD-1202	578188.5394	1418489.591
UPDD-1203	578160.3188	1418572.814
UPDD-1204	578158.122	1418572.774
UPDD-1205	578138.8959	1418645.193
UPDD-1206	578137.0193	1418645.011
UPDD-1207	578133.6626	1418643.218
UPDD-1208	578139.266	1418704.703
UPDD-1209	578094.0265	1418728.072
UPDD-1210	578035.5118	1418791.242
UPDD-1211	578031.9762	1418788.819
UPDD-1212	578027.9081	1418783.93
UPDD-1213	578023.8755	1418782.465
UPDD-1214	578019.6456	1418779.252
UPDD-1215	577976.6092	1418846.301
UPDD-1216	577974.2315	1418844.719
UPDD-1217	577913.4947	1418890.955
UPDD-1218	578136.8136	1418702.222
UPDD-1219	578092.7574	1418726.132
UPDD-1220	578147.129	1418615.851
UPDD-1221	578136.058	1418401.631
UPDD-1222	578144.037	1418397.436
UPDD-1223	578149.627	1418399.023
UPDD-1224	578168.22	1418521.374
UPDD-1225	578095.702	1418739.789
UPDD-1227	578098.324	1418743.099
UPDD-1228	578105.848	1418744.58
UPDD-1229	578177.58	1418567.302

Sample Locations and Geographic Coordinates (North American Datum 1927, California State Plane Zone III, measured in feet)

Location Code	Northing (ft)	Easting (ft)
UPDD-1230	578181.966	1418571.109
UPDD-1231	578169.299	1418573.517
UPDD-1232	578174.406	1418500.402
UPDD-1233	578171.767	1418519.034
UPDD-1234	578155.691	1418657.169
UPDD-1235	578162.203	1418658.53
UPDD-1236	578151.543	1418653.447
UPDD-1237	578199.502	1418488.648
UPDD-1238	578167.771	1418521.149
UPDD-1239	578189.386	1418572.864
UPDD-1240	578163.138	1418573.907
UPDD-1241	578165.356	1418665.194
UPDD-1242	578139.098	1418649.986
UPDD-1243	578156.2436	1418417.508
UPDD-1244	578149.0785	1418422.538

APPENDIX B

Analytical Report Forms

EMAX Laboratories, Inc.

SDG Login Review Sheet

Due Date: 2/7/04

Date: 1/23/04

Client Code: US_0401_

Client: USACE

Project: HAAF, Misc.S.I.

EMAX PM: Richard

SDG: 04A097

OK
RMB
1/23/04

Send Report To: Attn: John Yaremchuk

Company: USACE

Address: 1325 J Street
Sacramento CA 95814
NA

Lwks ID	Control #	Sample ID	Matrix	Coll Date	Time	Date Rcvd	Lwks Method	Analysis
EM86315	A097-01	HAAF-B35-760-V	SOIL	1/13/04	10:21	1/17/04	PESTS	Pesticides Organochlorine
EM86316	A097-02	HAAF-B35-761-V	SOIL	1/13/04	10:22	1/17/04	PESTS	Pesticides Organochlorine
EM86317	A097-03	HAAF-B35-762-V	SOIL	1/13/04	9:58	1/17/04	PESTS	Pesticides Organochlorine
EM86318	A097-04	HAAF-B41PD-680	SOIL	1/13/04	9:05	1/17/04	PESTS	Pesticides Organochlorine
EM86319	A097-05	HAAF-B41PD-681-8ft	SOIL	1/13/04	9:20	1/17/04	PESTS	Pesticides Organochlorine
EM86320	A097-06	HAAF-B41PD-682-8ft	SOIL	1/13/04	9:10	1/17/04	PESTS	Pesticides Organochlorine
EM86321	A097-07	HAAF-B41PD-683-8ft	SOIL	1/13/04	9:11	1/17/04	PESTS	Pesticides Organochlorine
EM86322	A097-08	HAAF-B41PD-684-8.5ft	SOIL	1/13/04	9:24	1/17/04	PESTS	Pesticides Organochlorine
EM86323	A097-09	HAAF-FITB-729	SOIL	1/15/04	9:10	1/17/04	MTLS	Metals by ICP
EM86324	A097-10	HAAF-FITB-730	SOIL	1/15/04	9:14	1/17/04	MTLS	Metals by ICP
EM86325	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	MTLS	Metals by ICP
	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86326	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	MTLS	Metals by ICP
	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86327	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	MTLS	Metals by ICP
	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86328	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	MTLS	Metals by ICP
	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86329	A097-15	HAAF-SRW-757-V	SOIL	1/14/04	17:47	1/17/04	PESTS	Pesticides Organochlorine
EM86330	A097-16	HAAF-SRW-758-V	SOIL	1/14/04	17:26	1/17/04	PESTS	Pesticides Organochlorine
EM86331	A097-17	HAAF-SRW-759-V	SOIL	1/14/04	17:10	1/17/04	PESTS	Pesticides Organochlorine
EM86332	A097-18	HAAF-TR-747	SOIL	1/15/04	11:03	1/17/04	MTLS	Metals by ICP
EM86333	A097-19	HAAF-TR-748	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86334	A097-20	HAAF-TR-749	SOIL	1/15/04	11:22	1/17/04	MTLS	Metals by ICP
EM86335	A097-21	HAAF-TR-750	SOIL	1/15/04	11:28	1/17/04	MTLS	Metals by ICP
EM86336	A097-22	HAAF-TR-751	SOIL	1/15/04	11:34	1/17/04	MTLS	Metals by ICP
EM86337	A097-23	HAAF-TR-D-505	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86338	A097-24	HAAF-UPDD-763-V	SOIL	1/14/04	16:22	1/17/04	PESTS	Pesticides Organochlorine
EM86339	A097-25	HAAF-UPDD-764-V	SOIL	1/14/04	14:35	1/17/04	PESTS	Pesticides Organochlorine
EM86340	A097-26	HAAF-UPDD-765-V	SOIL	1/14/04	15:23	1/17/04	PESTS	Pesticides Organochlorine
EM86341	A097-27	HAAF-UPDD-D-506-V	SOIL	1/14/04	0:00	1/17/04	PESTS	Pesticides Organochlorine
EM86342	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	MTLW	Metals by ICP
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	PESTW	Pesticides Organochlorine
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	SVSIMW	Semivolatile Organics SIM

USEPA Contract Laboratory Program
Generic Chain of Custody

C2

Reference Case
Client No:
SDG No: 04A097

L

Date Shipped: 1/16/2004	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No:
Airbill: 840946764285	Teresa M Lodgers 1/16/04	1-17-04 1115	Unit Price:
Shipped to: EMAX Laboratories, 1835 W. 205th Street, Torrance CA 90501, (310) 618-8889	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11	HAAF-SR-766	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-766	S: 1/13/2004	16:57	
12	HAAF-SR-768	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-768	S: 1/13/2004	15:05	
13	HAAF-SR-769	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-769	S: 1/13/2004	15:11	
14	HAAF-SR-770	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-770	S: 1/13/2004	15:29	
15	HAAF-SRW-757-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-757-V	S: 1/14/2004	17:47	
16	HAAF-SRW-758-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-758-V	S: 1/14/2004	17:26	
17	HAAF-SRW-759-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-759-V	S: 1/14/2004	17:10	
18	HAAF-TR-747	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-747	S: 1/15/2004	11:03	
19	HAAF-TR-748	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-748	S: 1/15/2004	11:11	
20	HAAF-TR-749	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-749	S: 1/15/2004	11:22	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Generic Chain of Custody

C2

Reference Case
Client No:
SDG No: 04A097

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Teresa M Rodgers	1/16/04	[illegible]	1-17-04 1115
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
21	HAAF-TR-750	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-750	S: 1/15/2004	11:28	
22	HAAF-TR-751	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-751	S: 1/15/2004	11:34	
23	HAAF-TR-D-505	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-D-505	S: 1/15/2004	11:11	
24	HAAF-UPDD-763-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-763-V	1/14/04	16:22	
25	HAAF-UPDD-764-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-764-V	S: 1/14/2004	14:35	
26	HAAF-UPDD-765-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-765-V	S: 1/14/2004	15:23	
27	HAAF-UPDD-D-506-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-D-506-V	1/14		
28	HAAF-IDW-1-W				(3)	water			

PAHs by 8270C 1/16/04
Metals by 6010B 1400.
DDTs by 8081A

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	04A097
☐ EMAX Courier		Recepient	Jon Luna
☐ Client Delivery		Date	1-17-04
☑ Third Party FEDEX	840946764285	Time	1115

COC Inspection

☑ Client Name	☐ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☐ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☐ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☑ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☐ Intact	☐ Damaged	☐
Packaging	☑ Bubble Pack	☐ Styrofoam	☑ Sufficient	☑ Plastic bag
Temperatures	☑ Cooler 3.4°C	☑ Cooler 2 ____	☐ Cooler 3 ____	☐ Cooler 4 ____
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
A097-24	HAAF-VOOO-763-V	DATE = TIME ON LABEL READS 1/14/04, 1622, (NO DATE = TIME ON COC)	Use date & time from label
-27	HAAF-VOOO-506-V		
-28	HAAF-10W-1-W	DATE = TIME ON LABEL READS 1/16/04, 1400, ALL ANALYSIS ARE REQ'STD ON EACH CONTAINER (WATER)	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling [signature] Date 01-17-04

SRF [signature] Date 1/21/04

PM [signature] Date 1/21/04

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-764-V	Date Analyzed:	01/29/04 14:49
Lab Samp ID:	A097-25	Dilution Factor:	1
Lab File ID:	SA27107A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	12.7
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.01|(.011)	.0023	.0011|.0011
4,4'-DDD	(.017)|.016	.0023	.0011|.0011
4,4'-DDT	(.0059)|.005	.0023	.00073|.00073
TOTAL DDT	(.033)|.032	.0023	.00073|.00073

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(96)|96	50-130
DECACHLOROBIPHENYL	80|(84)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-763-VDL	Date Analyzed:	01/29/04 12:14
Lab Samp ID:	A097-24T	Dilution Factor:	3
Lab File ID:	SA27101A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	21.1
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.037|(.04)	.0076	.0035|.0035
4,4'-DDD	.014|(.015)	.0076	.0037|.0037
4,4'-DDT	(.14)|.14	.0076	.0024|.0024
TOTAL DDT	(.19)|.19	.0076	.0024|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(114)|86	50-130
DECACHLOROBIPHENYL	93|(96)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-765-VDL	Date Analyzed:	01/29/04 13:08
Lab Samp ID:	A097-26T	Dilution Factor:	100
Lab File ID:	SA27103A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	10.6
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.71|(.82)	.22	.1|.1
4,4'-DDD	(.4)|.33	.22	.11|.11
4,4'-DDT	(2.8)|2.6	.22	.071|.071
TOTAL DDT	(3.9)|3.7	.22	.071|.071

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	DO|DO	50-130
DECACHLOROBIPHENYL	DO|DO	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-D-506-VDL	Date Analyzed:	01/29/04 13:33
Lab Samp ID:	A097-27T	Dilution Factor:	3
Lab File ID:	SA27104A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	21.2
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.038|(.044)	.0076	.0035|.0035
4,4'-DDD	(.016)|.015	.0076	.0037|.0037
4,4'-DDT	(.15)|.15	.0076	.0024|.0024
TOTAL DDT	(.21)|.21	.0076	.0024|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(102)|77	50-130
DECACHLOROBIPHENYL	83|(101)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3520C/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	01/22/04
Batch No.	: 04A097	Date Extracted:	01/22/04 18:00
Sample ID:	MBLK1W	Date Analyzed:	01/28/04 22:21
Lab Samp ID:	CPA017WB	Dilution Factor:	1
Lab File ID:	SA27068A	Matrix :	WATER
Ext Btch ID:	CPA017W	% Moisture :	NA
Calib. Ref.:	SA27058A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
4,4'-DDE	(ND)|ND	.2	.03|.03
4,4'-DDD	(ND)|ND	.2	.03|.03
4,4'-DDT	(ND)|ND	.2	.02|.02
TOTAL DDT	(ND)|ND	.2	.02|.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	97|(102)	50-130
DECACHLOROBIPHENYL	83|(90)	60-140

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	01/23/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	MBLK1S	Date Analyzed:	01/29/04 00:02
Lab Samp ID:	CPA018SB	Dilution Factor:	1
Lab File ID:	SA27072A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	NA
Calib. Ref.:	SA27058A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.002	.00092|.00092
4,4'-DDD	(ND)|ND	.002	.00097|.00097
4,4'-DDT	(ND)|ND	.002	.00063|.00063
TOTAL DDT	(ND)|ND	.002	.00063|.00063

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(97)|96	50-130
DECACHLOROBIPHENYL	86|(90)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPA018SB CPA018SL
LAB FILE ID: SA27072A SA27031A
DATE EXTRACTED: 01/23/0413:00 01/23/0413:00 DATE COLLECTED: NA
DATE ANALYZED: 01/29/0400:02 01/28/0404:36 DATE RECEIVED: 01/23/04
PREP. BATCH: CPA018S CPA018S
CALIB. REF: SA27058A SA27027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
4,4'-DDT	(ND)|ND	.0133	.00969|(.0107)	73|(80)	40-160

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	.01|(.0101)	(75)|75	50-130
Decachlorobiphenyl	.0266	.0218|(.0222)	82|(83)	50-150

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3520C/8081A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPA017WB	CPA017WL	CPA017WC		
LAB FILE ID:	SA27068A	SA27069A	SA27070A		
DATE EXTRACTED:	01/22/0418:00	01/22/0418:00	01/22/0418:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/28/0422:21	01/28/0422:46	01/28/0423:12	DATE RECEIVED:	01/22/04
PREP. BATCH:	CPA017W	CPA017W	CPA017W		
CALIB. REF:	SA27058A	SA27058A	SA27058A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDT	(ND)|ND	.4	(.41)|.351	(102)|88	.4	(.408)|.351	(102)|88	(0)|0	50-160	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.4	(.329)|.326	(82)|81	.4	.329|(.33)	82|(82)	50-130
Decachlorobiphenyl	.8	.644|(.645)	80|(81)	.8	(.652)|.648	(81)|81	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3550B/8081A

MATRIX: SOIL % MOISTURE: 12.7

DILUTION FACTOR:	1	1	1
SAMPLE ID:	HAAF-UPDD-764-V		
LAB SAMP ID:	A097-25	A097-25M	A097-25S
LAB FILE ID:	SA27107A	SA27108A	SA27109A
DATE EXTRACTED:	01/23/0413:00	01/23/0413:00	01/23/0413:00
DATE ANALYZED:	01/29/0414:49	01/29/0415:14	01/29/0415:40
PREP. BATCH:	CPA018S	CPA018S	CPA018S
CALIB. REF:	SA27097A	SA27097A	SA27097A

DATE COLLECTED: 01/14/04
DATE RECEIVED: 01/17/04

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDT	(.0059)|.005	.0153	(.0184)|.0158	(82)|71	.0153	(.0164)|.0147	(69)|64	(11)|7	40-160	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0153	.0124|(.0127)	81|(83)	.0153	.0108|(.0109)	70|(72)	50-130
Decachlorobiphenyl	.0306	.0247|(.0251)	81|(82)	.0306	.0238|(.024)	78|(78)	50-150

* : Out side of QC Limit.

04B154

E1

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Page 1 of 1

Project Name/No. 1 HAAF BRAC Misc. II
Sample Team Members 2 Tim Crummett, Fred Hart
Profit Center No. 3 —
Project Manager 4 Kathy Siebenmann
Purchase Order No. 6 PRC# 02460
Required Report Date 11 March 12, 2004

Samples Shipment Date 7 Feb. 26, 2004
Lab Destination 8 E-Max
Lab Contact 9 Richard ~~Bauer~~ Beauvil TMR
Project Contact/Phone 12 310/618-8889
Carrier/Waybill No. 13 841820086696 / FedEx

Bill to: 5 Kathy Siebenmann
USACE SPK
1325 J Street
Sacramento, CA 95814

Report to: 10 Same as "Bill to" address

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

ONE CONTAINER PER LINE

	Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
1.	HAAF-BRAC IDW-W2	IDW water	2-24-04 1400	Amber Glass	2x 1L	4°C	SW 8081-DDT, DDE, DDD, Total DDT		
2.	HAAF-SRW-2410-1FT	SOIL	2-24-04 0830	Glass jar	8 oz			FOR LAB USE ONLY	
3.	HAAF-SRW-2452		2-23-04 1733						
4.	HAAF-SRW-2444		2-23-04 0832						
5.	HAAF-WPDD-2552-2FT		2-23-04 1540						
6.	HAAF-WPDD-2554		2-24-04 1504					FOR LAB USE ONLY	
7.	HAAF-WPDD-2544		2-23-04 1445						
							T Rodgers 2/26/04		T=2.9°C

Special Instructions: 23 Call Teresa Rodgers or Kathy Siebenmann for applicable QAPP "Hamilton BRAC Misc. Sampling" requirements

Possible Hazard Identification: 24
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☒ 14-day Turn-around

QC Level: 27
I. ☐ II. ☐ III. ☒ TMR Project Specific (specify): According to SOW

1. Relinquished by 28 (Signature/Affiliation) Teresa M Rodgers USACE	Date: 2/26/04 Time: 1600	1. Received by 28 FED EX (Signature/Affiliation)	Date: Time:
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: 02.27.04 Time: 9:15
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29 * Invoice separately from other project (the CSM samples). Please provide separate data package for the BRAC Misc. II samples. Thanks, Teresa Rodgers 2/26/04

PLEASE INCLUDE PRC# 02460 WHEN BILLING

1001

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/23/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2552-2FT	Date Analyzed:	03/04/04 10:25
Lab Samp ID:	B154-05	Dilution Factor:	1
Lab File ID:	SC03052A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	33.9
Calib. Ref.:	SC03045A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.058)|.058	.003	.0014|.0014
4,4'-DDD	(.0025J)|.0019J	.003	.0015|.0015
4,4'-DDT	(.032)|.03	.003	.00096|.00096
TOTAL DDT	(.093)|.09	.003	.00096|.00096

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81)|78	50-130
DECACHLOROBIPHENYL	64|(69)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/24/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2554DL	Date Analyzed:	03/04/04 18:01
Lab Samp ID:	B154-06T	Dilution Factor:	6
Lab File ID:	SC03067A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	26.6
Calib. Ref.:	SC03060A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.062|(.086)	.016	.0075|.0075
4,4'-DDD	(.093)|.092	.016	.0079|.0079
4,4'-DDT	(.28)|.26	.016	.0052|.0052
TOTAL DDT	(.46)|.41	.016	.0052|.0052

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(84)	50-130
DECACHLOROBIPHENYL	(70)|67	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/23/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2544DL	Date Analyzed:	03/04/04 18:26
Lab Samp ID:	B154-07T	Dilution Factor:	3
Lab File ID:	SC03068A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	30.4
Calib. Ref.:	SC03060A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.026|(.037)	.0086	.004|.004
4,4'-DDD	(.031)|.024	.0086	.0042|.0042
4,4'-DDT	(.11)|.1	.0086	.0027|.0027
TOTAL DDT	(.18)|.15	.0086	.0027|.0027

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(90)|79	50-130
DECACHLOROBIPHENYL	63|(68)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	03/01/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	MBLK1S	Date Analyzed:	03/04/04 05:21
Lab Samp ID:	CPC001SB	Dilution Factor:	1
Lab File ID:	SC03040A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	NA
Calib. Ref.:	SC03029A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.002	.00092|.00092
4,4'-DDD	(ND)|ND	.002	.00097|.00097
4,4'-DDT	(ND)|ND	.002	.00063|.00063
TOTAL DDT	(ND)|ND	.002	.00063|.00063

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	77|(80)	50-130
DECACHLOROBIPHENYL	75|(79)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3520C/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	03/01/04
Batch No.	: 04B154	Date Extracted:	03/01/04 17:00
Sample ID:	MBLK1W	Date Analyzed:	03/04/04 03:40
Lab Samp ID:	CPC004WB	Dilution Factor:	1
Lab File ID:	SC03036A	Matrix :	WATER
Ext Btch ID:	CPC004W	% Moisture :	NA
Calib. Ref.:	SC03029A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
4,4'-DDE	(ND)|ND	.2	.03|.03
4,4'-DDD	(ND)|ND	.2	.03|.03
4,4'-DDT	(ND)|ND	.2	.02|.02
TOTAL DDT	(ND)|ND	.2	.02|.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(83)|82	50-130
DECACHLOROBIPHENYL	79|(85)	60-140

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04B154
METHOD: SW3550B/8081A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPC001SB	CPC001SL	CPC001SC		
LAB FILE ID:	SC03040A	SC03041A	SC03042A		
DATE EXTRACTED:	03/01/0415:00	03/01/0415:00	03/01/0415:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/04/0405:21	03/04/0405:47	03/04/0406:12	DATE RECEIVED:	03/01/04
PREP. BATCH:	CPC001S	CPC001S	CPC001S		
CALIB. REF:	SC03029A	SC03029A	SC03029A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDE	(ND)|ND	.0133	.0108|(.011)	81|(83)	.0133	.0107|(.0109)	80|(82)	1|(1)	60-150	50
4,4'-DDD	(ND)|ND	.0133	(.0103)|.00772	(77)|58*	.0133	(.0105)|.00785	(79)|59*	(2)|2	60-160	50
4,4'-DDT	(ND)|ND	.0133	(.013)|.0127	(98)|95	.0133	(.0132)|.0128	(99)|96	(2)|1	40-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	.00966|(.0103)	72|(77)	.0133	.0092|(.00978)	69|(73)	50-130
Decachlorobiphenyl	.0266	.0221|(.0222)	83|(83)	.0266	(.0231)|.023	(86)|86	50-150

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04B154
METHOD: SW3520C/8081A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC004WB	CPC004WL	CPC004WC		
LAB FILE ID:	SC03036A	SC03037A	SC03038A		
DATE EXTRACTED:	03/01/0417:00	03/01/0417:00	03/01/0417:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/04/0403:40	03/04/0404:06	03/04/0404:31	DATE RECEIVED:	03/01/04
PREP. BATCH:	CPC004W	CPC004W	CPC004W		
CALIB. REF:	SC03029A	SC03029A	SC03029A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDE	(ND)|ND	.4	.296|(.314)	74|(78)	.4	.285|(.295)	71|(74)	4|(6)	60-150	30
4,4'-DDD	(ND)|ND	.4	(.306)|.23	(76)|58*	.4	(.297)|.2J	(74)|50*	(3)|14	70-150	30
4,4'-DDT	(ND)|ND	.4	(.37)|.359	(92)|90	.4	(.372)|.366	(93)|92	(1)|2	50-160	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.4	.271|(.286)	68|(71)	.4	.217|(.231)	54|(57)	50-130
Decachlorobiphenyl	.8	.679|(.687)	85|(86)	.8	(.69)|.687	(86)|86	60-140

EMAX Laboratories, Inc.

SDG Login Review Sheet

Due Date: 2/7/04

Date: 1/23/04

Client Code: US_0401_

Client: USACE

Project: HAAF, Misc.S.I.

EMAX PM: Richard

SDG: 04A097

OK
RMB
1/23/04

Send Report To: Attn: John Yaremchuk

Company: USACE

Address: 1325 J Street
Sacramento CA 95814
NA

Lwks ID	Control #	Sample ID	Matrix	Coll Date	Time	Date Rcvd	Lwks Method	Analysis
EM86315	A097-01	HAAF-B35-760-V	SOIL	1/13/04	10:21	1/17/04	PESTS	Pesticides Organochlorine
EM86316	A097-02	HAAF-B35-761-V	SOIL	1/13/04	10:22	1/17/04	PESTS	Pesticides Organochlorine
EM86317	A097-03	HAAF-B35-762-V	SOIL	1/13/04	9:58	1/17/04	PESTS	Pesticides Organochlorine
EM86318	A097-04	HAAF-B41PD-680	SOIL	1/13/04	9:05	1/17/04	PESTS	Pesticides Organochlorine
EM86319	A097-05	HAAF-B41PD-681-8ft	SOIL	1/13/04	9:20	1/17/04	PESTS	Pesticides Organochlorine
EM86320	A097-06	HAAF-B41PD-682-8ft	SOIL	1/13/04	9:10	1/17/04	PESTS	Pesticides Organochlorine
EM86321	A097-07	HAAF-B41PD-683-8ft	SOIL	1/13/04	9:11	1/17/04	PESTS	Pesticides Organochlorine
EM86322	A097-08	HAAF-B41PD-684-8.5ft	SOIL	1/13/04	9:24	1/17/04	PESTS	Pesticides Organochlorine
EM86323	A097-09	HAAF-FITB-729	SOIL	1/15/04	9:10	1/17/04	MTLS	Metals by ICP
EM86324	A097-10	HAAF-FITB-730	SOIL	1/15/04	9:14	1/17/04	MTLS	Metals by ICP
EM86325	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	MTLS	Metals by ICP
	A097-11	HAAF-SR-766	SOIL	1/13/04	16:57	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86326	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	MTLS	Metals by ICP
	A097-12	HAAF-SR-768	SOIL	1/13/04	15:05	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86327	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	MTLS	Metals by ICP
	A097-13	HAAF-SR-769	SOIL	1/13/04	15:11	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86328	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	MTLS	Metals by ICP
	A097-14	HAAF-SR-770	SOIL	1/13/04	15:29	1/17/04	SVSIMS	Semivolatile Organics SIM
EM86329	A097-15	HAAF-SRW-757-V	SOIL	1/14/04	17:47	1/17/04	PESTS	Pesticides Organochlorine
EM86330	A097-16	HAAF-SRW-758-V	SOIL	1/14/04	17:26	1/17/04	PESTS	Pesticides Organochlorine
EM86331	A097-17	HAAF-SRW-759-V	SOIL	1/14/04	17:10	1/17/04	PESTS	Pesticides Organochlorine
EM86332	A097-18	HAAF-TR-747	SOIL	1/15/04	11:03	1/17/04	MTLS	Metals by ICP
EM86333	A097-19	HAAF-TR-748	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86334	A097-20	HAAF-TR-749	SOIL	1/15/04	11:22	1/17/04	MTLS	Metals by ICP
EM86335	A097-21	HAAF-TR-750	SOIL	1/15/04	11:28	1/17/04	MTLS	Metals by ICP
EM86336	A097-22	HAAF-TR-751	SOIL	1/15/04	11:34	1/17/04	MTLS	Metals by ICP
EM86337	A097-23	HAAF-TR-D-505	SOIL	1/15/04	11:11	1/17/04	MTLS	Metals by ICP
EM86338	A097-24	HAAF-UPDD-763-V	SOIL	1/14/04	16:22	1/17/04	PESTS	Pesticides Organochlorine
EM86339	A097-25	HAAF-UPDD-764-V	SOIL	1/14/04	14:35	1/17/04	PESTS	Pesticides Organochlorine
EM86340	A097-26	HAAF-UPDD-765-V	SOIL	1/14/04	15:23	1/17/04	PESTS	Pesticides Organochlorine
EM86341	A097-27	HAAF-UPDD-D-506-V	SOIL	1/14/04	0:00	1/17/04	PESTS	Pesticides Organochlorine
EM86342	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	MTLW	Metals by ICP
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	PESTW	Pesticides Organochlorine
	A097-28	HAAF-IDW-1-W	WATER	1/16/04	14:00	1/17/04	SVSIMW	Semivolatile Organics SIM

USEPA Contract Laboratory Program
Generic Chain of Custody

C2

Reference Case
Client No:
SDG No: 04A097

L

Date Shipped: 1/16/2004	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No:
Airbill: 840946764285	Teresa M Lodgers 1/16/04	1-17-04 1115	Unit Price:
Shipped to: EMAX Laboratories, 1835 W. 205th Street, Torrance CA 90501, (310) 618-8889	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11	HAAF-SR-766	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-766	S: 1/13/2004	16:57	
12	HAAF-SR-768	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-768	S: 1/13/2004	15:05	
13	HAAF-SR-769	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(2)	HAAF-SR-769	S: 1/13/2004	15:11	
14	HAAF-SR-770	Soil/Sediment	/G	8270C SIM (21), SW 6010B (21)	(Not preserved) (2)	HAAF-SR-770	S: 1/13/2004	15:29	
15	HAAF-SRW-757-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-757-V	S: 1/14/2004	17:47	
16	HAAF-SRW-758-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-758-V	S: 1/14/2004	17:26	
17	HAAF-SRW-759-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-SRW-759-V	S: 1/14/2004	17:10	
18	HAAF-TR-747	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-747	S: 1/15/2004	11:03	
19	HAAF-TR-748	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-748	S: 1/15/2004	11:11	
20	HAAF-TR-749	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-749	S: 1/15/2004	11:22	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Generic Chain of Custody

C2

Reference Case
Client No:
SDG No: 04A097

L

Date Shipped:	1/16/2004
Carrier Name:	FedEx
Airbill:	840946764285
Shipped to:	EMAX Laboratories 1835 W. 205th Street Torrance CA 90501 (310) 618-8889

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Teresa M Rodgers	1/16/04	[illegible]	1-17-04 1115
2			
3			
4			

Sampler Signature:

For Lab Use Only
Lab Contract No:
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

	SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
21	HAAF-TR-750	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-750	S: 1/15/2004	11:28	
22	HAAF-TR-751	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-751	S: 1/15/2004	11:34	
23	HAAF-TR-D-505	Soil/Sediment	/G	SW 6010B (21)	(1)	HAAF-TR-D-505	S: 1/15/2004	11:11	
24	HAAF-UPDD-763-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-763-V	1/14/04	16:22	
25	HAAF-UPDD-764-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-764-V	S: 1/14/2004	14:35	
26	HAAF-UPDD-765-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-765-V	S: 1/14/2004	15:23	
27	HAAF-UPDD-D-506-V	Soil/Sediment	/G	8081A (21)	111 (1)	HAAF-UPDD-D-506-V	1/14		
28	HAAF-IDW-1-W				(3)	water			

PAHs by 8270C 1/16/04
Metals by 6010B 1400.
DDTs by 8081A

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: HAAF-SPF-704, HAAF-SR-740	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.4	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

8081A = DDD,DDE,DDT, 8270C SIM = PAH, SW 6010B = Sb, As, Cd, Cr, Cu, Pb, Ni, Zn, SW 7471 = Hg

TR Number: Non-EPA-360645727-011604-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	04A097
☐ EMAX Courier		Recepient	Jon Luna
☐ Client Delivery		Date	1-17-04
☑ Third Party FEDEX	840946764285	Time	1115

COC Inspection

☑ Client Name	☐ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☐ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☐ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☑ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☐ Intact	☐ Damaged	☐
Packaging	☑ Bubble Pack	☐ Styrofoam	☑ Sufficient	☑ Plastic bag
Temperatures	☑ Cooler 3.4°C	☑ Cooler 2 ____	☐ Cooler 3 ____	☐ Cooler 4 ____
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
A097-24	HAAF-VOOO-763-V	DATE = TIME ON LABEL READS 1/14/04, 1622, (NO DATE = TIME ON COC)	Use date & time from label
-27	HAAF-VOOO-506-V		
-28	HAAF-10W-1-W	DATE = TIME ON LABEL READS 1/16/04, 1400, ALL ANALYSIS ARE REQ'STD ON EACH CONTAINER (WATER)	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling [signature] Date 01-17-04

SRF [signature] Date 1/21/04

PM [signature] Date 1/21/04

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-764-V	Date Analyzed:	01/29/04 14:49
Lab Samp ID:	A097-25	Dilution Factor:	1
Lab File ID:	SA27107A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	12.7
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.01|(.011)	.0023	.0011|.0011
4,4'-DDD	(.017)|.016	.0023	.0011|.0011
4,4'-DDT	(.0059)|.005	.0023	.00073|.00073
TOTAL DDT	(.033)|.032	.0023	.00073|.00073

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(96)|96	50-130
DECACHLOROBIPHENYL	80|(84)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-763-VDL	Date Analyzed:	01/29/04 12:14
Lab Samp ID:	A097-24T	Dilution Factor:	3
Lab File ID:	SA27101A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	21.1
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.037|(.04)	.0076	.0035|.0035
4,4'-DDD	.014|(.015)	.0076	.0037|.0037
4,4'-DDT	(.14)|.14	.0076	.0024|.0024
TOTAL DDT	(.19)|.19	.0076	.0024|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(114)|86	50-130
DECACHLOROBIPHENYL	93|(96)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-765-VDL	Date Analyzed:	01/29/04 13:08
Lab Samp ID:	A097-26T	Dilution Factor:	100
Lab File ID:	SA27103A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	10.6
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.71|(.82)	.22	.1|.1
4,4'-DDD	(.4)|.33	.22	.11|.11
4,4'-DDT	(2.8)|2.6	.22	.071|.071
TOTAL DDT	(3.9)|3.7	.22	.071|.071

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	DO|DO	50-130
DECACHLOROBIPHENYL	DO|DO	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	01/14/04
Project	: HAAF, MISC.S.I.	Date Received:	01/17/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	HAAF-UPDD-D-506-VDL	Date Analyzed:	01/29/04 13:33
Lab Samp ID:	A097-27T	Dilution Factor:	3
Lab File ID:	SA27104A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	21.2
Calib. Ref.:	SA27097A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.038|(.044)	.0076	.0035|.0035
4,4'-DDD	(.016)|.015	.0076	.0037|.0037
4,4'-DDT	(.15)|.15	.0076	.0024|.0024
TOTAL DDT	(.21)|.21	.0076	.0024|.0024

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(102)|77	50-130
DECACHLOROBIPHENYL	83|(101)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3520C/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	01/22/04
Batch No.	: 04A097	Date Extracted:	01/22/04 18:00
Sample ID:	MBLK1W	Date Analyzed:	01/28/04 22:21
Lab Samp ID:	CPA017WB	Dilution Factor:	1
Lab File ID:	SA27068A	Matrix :	WATER
Ext Btch ID:	CPA017W	% Moisture :	NA
Calib. Ref.:	SA27058A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
4,4'-DDE	(ND)|ND	.2	.03|.03
4,4'-DDD	(ND)|ND	.2	.03|.03
4,4'-DDT	(ND)|ND	.2	.02|.02
TOTAL DDT	(ND)|ND	.2	.02|.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	97|(102)	50-130
DECACHLOROBIPHENYL	83|(90)	60-140

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	01/23/04
Batch No.	: 04A097	Date Extracted:	01/23/04 13:00
Sample ID:	MBLK1S	Date Analyzed:	01/29/04 00:02
Lab Samp ID:	CPA018SB	Dilution Factor:	1
Lab File ID:	SA27072A	Matrix :	SOIL
Ext Btch ID:	CPA018S	% Moisture :	NA
Calib. Ref.:	SA27058A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.002	.00092|.00092
4,4'-DDD	(ND)|ND	.002	.00097|.00097
4,4'-DDT	(ND)|ND	.002	.00063|.00063
TOTAL DDT	(ND)|ND	.002	.00063|.00063

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(97)|96	50-130
DECACHLOROBIPHENYL	86|(90)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPA018SB CPA018SL
LAB FILE ID: SA27072A SA27031A
DATE EXTRACTED: 01/23/0413:00 01/23/0413:00 DATE COLLECTED: NA
DATE ANALYZED: 01/29/0400:02 01/28/0404:36 DATE RECEIVED: 01/23/04
PREP. BATCH: CPA018S CPA018S
CALIB. REF: SA27058A SA27027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
4,4'-DDT	(ND)|ND	.0133	.00969|(.0107)	73|(80)	40-160

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	.01|(.0101)	(75)|75	50-130
Decachlorobiphenyl	.0266	.0218|(.0222)	82|(83)	50-150

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3520C/8081A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPA017WB	CPA017WL	CPA017WC		
LAB FILE ID:	SA27068A	SA27069A	SA27070A		
DATE EXTRACTED:	01/22/0418:00	01/22/0418:00	01/22/0418:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/28/0422:21	01/28/0422:46	01/28/0423:12	DATE RECEIVED:	01/22/04
PREP. BATCH:	CPA017W	CPA017W	CPA017W		
CALIB. REF:	SA27058A	SA27058A	SA27058A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDT	(ND)|ND	.4	(.41)|.351	(102)|88	.4	(.408)|.351	(102)|88	(0)|0	50-160	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.4	(.329)|.326	(82)|81	.4	.329|(.33)	82|(82)	50-130
Decachlorobiphenyl	.8	.644|(.645)	80|(81)	.8	(.652)|.648	(81)|81	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04A097
METHOD: SW3550B/8081A

MATRIX: SOIL % MOISTURE: 12.7

DILUTION FACTOR:	1	1	1
SAMPLE ID:	HAAF-UPDD-764-V		
LAB SAMP ID:	A097-25	A097-25M	A097-25S
LAB FILE ID:	SA27107A	SA27108A	SA27109A
DATE EXTRACTED:	01/23/0413:00	01/23/0413:00	01/23/0413:00
DATE ANALYZED:	01/29/0414:49	01/29/0415:14	01/29/0415:40
PREP. BATCH:	CPA018S	CPA018S	CPA018S
CALIB. REF:	SA27097A	SA27097A	SA27097A

DATE COLLECTED: 01/14/04
DATE RECEIVED: 01/17/04

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDT	(.0059)|.005	.0153	(.0184)|.0158	(82)|71	.0153	(.0164)|.0147	(69)|64	(11)|7	40-160	35

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0153	.0124|(.0127)	81|(83)	.0153	.0108|(.0109)	70|(72)	50-130
Decachlorobiphenyl	.0306	.0247|(.0251)	81|(82)	.0306	.0238|(.024)	78|(78)	50-150

* : Out side of QC Limit.

04B154

E1

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Page 1 of 1

Project Name/No. 1 HAAF BRAC Misc. II
Sample Team Members 2 Tim Crummett, Fred Hart
Profit Center No. 3 —
Project Manager 4 Kathy Siebenmann
Purchase Order No. 6 PRC# 02460
Required Report Date 11 March 12, 2004

Samples Shipment Date 7 Feb. 26, 2004
Lab Destination 8 E-Max
Lab Contact 9 Richard ~~Bauer~~ Beauvil TMR
Project Contact/Phone 12 310/618-8889
Carrier/Waybill No. 13 841820086696 / FedEx

Bill to: 5 Kathy Siebenmann
USACE SPK
1325 J Street
Sacramento, CA 95814

Report to: 10 Same as "Bill to" address

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

ONE CONTAINER PER LINE

	Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
1.	HAAF-BRAC IDW-W2	IDW water	2-24-04 1400	Amber Glass	2x1L	4°C	SW 8081-DDT, DDE, DDD, Total DDT		
2.	HAAF-SRW-2410-1FT	SOIL	2-24-04 0830	Glass jar	8oz			FOR LAB USE ONLY	
3.	HAAF-SRW-2452		2-23-04 1733						
4.	HAAF-SRW-2444		2-23-04 0832						
5.	HAAF-WPDD-2552-2FT		2-23-04 1540						
6.	HAAF-WPDD-2554		2-24-04 1504					FOR LAB USE ONLY	
7.	HAAF-WPDD-2544		2-23-04 1445						
							T Rodgers 2/26/04		T=2.9°C

Special Instructions: 23 Call Teresa Rodgers or Kathy Siebenmann for applicable QAPP "Hamilton BRAC Misc. Sampling" requirements

Possible Hazard Identification: 24
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☒ 14-day Turn-around

QC Level: 27
I. ☐ II. ☐ III. ☒ TMR Project Specific (specify): According to SOW

1. Relinquished by 28 (Signature/Affiliation) Teresa M Rodgers USACE	Date: 2/26/04 Time: 1600	1. Received by 28 FED EX (Signature/Affiliation)	Date: Time:
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: 02.27.04 Time: 9:15
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29 * Invoice separately from other project (the CSM samples). Please provide separate data package for the BRAC Misc. II samples. Thanks, Teresa Rodgers 2/26/04

PLEASE INCLUDE PRC# 02460 WHEN BILLING

1001

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/23/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2552-2FT	Date Analyzed:	03/04/04 10:25
Lab Samp ID:	B154-05	Dilution Factor:	1
Lab File ID:	SC03052A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	33.9
Calib. Ref.:	SC03045A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(.058)|.058	.003	.0014|.0014
4,4'-DDD	(.0025J)|.0019J	.003	.0015|.0015
4,4'-DDT	(.032)|.03	.003	.00096|.00096
TOTAL DDT	(.093)|.09	.003	.00096|.00096

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(81)|78	50-130
DECACHLOROBIPHENYL	64|(69)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/24/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2554DL	Date Analyzed:	03/04/04 18:01
Lab Samp ID:	B154-06T	Dilution Factor:	6
Lab File ID:	SC03067A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	26.6
Calib. Ref.:	SC03060A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.062|(.086)	.016	.0075|.0075
4,4'-DDD	(.093)|.092	.016	.0079|.0079
4,4'-DDT	(.28)|.26	.016	.0052|.0052
TOTAL DDT	(.46)|.41	.016	.0052|.0052

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	71|(84)	50-130
DECACHLOROBIPHENYL	(70)|67	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	02/23/04
Project	: HAAF, MISC.S.I.	Date Received:	02/27/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	HAAF-UPDD-2544DL	Date Analyzed:	03/04/04 18:26
Lab Samp ID:	B154-07T	Dilution Factor:	3
Lab File ID:	SC03068A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	30.4
Calib. Ref.:	SC03060A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	.026|(.037)	.0086	.004|.004
4,4'-DDD	(.031)|.024	.0086	.0042|.0042
4,4'-DDT	(.11)|.1	.0086	.0027|.0027
TOTAL DDT	(.18)|.15	.0086	.0027|.0027

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(90)|79	50-130
DECACHLOROBIPHENYL	63|(68)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3550B/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	03/01/04
Batch No.	: 04B154	Date Extracted:	03/01/04 15:00
Sample ID:	MBLK1S	Date Analyzed:	03/04/04 05:21
Lab Samp ID:	CPC001SB	Dilution Factor:	1
Lab File ID:	SC03040A	Matrix :	SOIL
Ext Btch ID:	CPC001S	% Moisture :	NA
Calib. Ref.:	SC03029A	Instrument ID :	GCT008

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
4,4'-DDE	(ND)|ND	.002	.00092|.00092
4,4'-DDD	(ND)|ND	.002	.00097|.00097
4,4'-DDT	(ND)|ND	.002	.00063|.00063
TOTAL DDT	(ND)|ND	.002	.00063|.00063

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	77|(80)	50-130
DECACHLOROBIPHENYL	75|(79)	50-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SW3520C/8081A
PESTICIDES

Client	: USACE	Date Collected:	NA
Project	: HAAF, MISC.S.I.	Date Received:	03/01/04
Batch No.	: 04B154	Date Extracted:	03/01/04 17:00
Sample ID:	MBLK1W	Date Analyzed:	03/04/04 03:40
Lab Samp ID:	CPC004WB	Dilution Factor:	1
Lab File ID:	SC03036A	Matrix :	WATER
Ext Btch ID:	CPC004W	% Moisture :	NA
Calib. Ref.:	SC03029A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
4,4'-DDE	(ND)|ND	.2	.03|.03
4,4'-DDD	(ND)|ND	.2	.03|.03
4,4'-DDT	(ND)|ND	.2	.02|.02
TOTAL DDT	(ND)|ND	.2	.02|.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(83)|82	50-130
DECACHLOROBIPHENYL	79|(85)	60-140

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04B154
METHOD: SW3550B/8081A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPC001SB	CPC001SL	CPC001SC		
LAB FILE ID:	SC03040A	SC03041A	SC03042A		
DATE EXTRACTED:	03/01/0415:00	03/01/0415:00	03/01/0415:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/04/0405:21	03/04/0405:47	03/04/0406:12	DATE RECEIVED:	03/01/04
PREP. BATCH:	CPC001S	CPC001S	CPC001S		
CALIB. REF:	SC03029A	SC03029A	SC03029A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDE	(ND)|ND	.0133	.0108|(.011)	81|(83)	.0133	.0107|(.0109)	80|(82)	1|(1)	60-150	50
4,4'-DDD	(ND)|ND	.0133	(.0103)|.00772	(77)|58*	.0133	(.0105)|.00785	(79)|59*	(2)|2	60-160	50
4,4'-DDT	(ND)|ND	.0133	(.013)|.0127	(98)|95	.0133	(.0132)|.0128	(99)|96	(2)|1	40-160	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.0133	.00966|(.0103)	72|(77)	.0133	.0092|(.00978)	69|(73)	50-130
Decachlorobiphenyl	.0266	.0221|(.0222)	83|(83)	.0266	(.0231)|.023	(86)|86	50-150

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: USACE
PROJECT: HAAF, MISC.S.I.
BATCH NO.: 04B154
METHOD: SW3520C/8081A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	CPC004WB	CPC004WL	CPC004WC		
LAB FILE ID:	SC03036A	SC03037A	SC03038A		
DATE EXTRACTED:	03/01/0417:00	03/01/0417:00	03/01/0417:00	DATE COLLECTED:	NA
DATE ANALYZED:	03/04/0403:40	03/04/0404:06	03/04/0404:31	DATE RECEIVED:	03/01/04
PREP. BATCH:	CPC004W	CPC004W	CPC004W		
CALIB. REF:	SC03029A	SC03029A	SC03029A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
4,4'-DDE	(ND)|ND	.4	.296|(.314)	74|(78)	.4	.285|(.295)	71|(74)	4|(6)	60-150	30
4,4'-DDD	(ND)|ND	.4	(.306)|.23	(76)|58*	.4	(.297)|.2J	(74)|50*	(3)|14	70-150	30
4,4'-DDT	(ND)|ND	.4	(.37)|.359	(92)|90	.4	(.372)|.366	(93)|92	(1)|2	50-160	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	.4	.271|(.286)	68|(71)	.4	.217|(.231)	54|(57)	50-130
Decachlorobiphenyl	.8	.679|(.687)	85|(86)	.8	(.69)|.687	(86)|86	60-140