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Table 1. Sample station designations and locations.

Apr-99 Area	Sample ID	Closest Previous Station Designation	UTM Coordinates Meters (NAD 83)		April 1999 Field Sampling Positions Geographic Coordinates (NAD 83)	
			Easting	Northing	Latitude	Longitude
D1	D1	BN07	657222.3973	4560565.735	41° 10′ 52.309″ N	073° 07′ 31.679″ W
	D2	-	657284.7606	4560532.863	41° 10′ 51.200″ N	073° 07′ 29.034″ W
	D3	BN03	657305.6499	4560449.454	41° 10′ 48.482″ N	073° 07′ 28.215″ W
C	C1	HB09	657327.3538	4560803.935	41° 10′ 59.956″ N	073° 07′ 26.956″ W
	C2	HB22	657252.4206	4560680.356	41° 10′ 56.003″ N	073° 07′ 30.285″ W
	C3	-	657216.9057	4560718.897	41° 10′ 57.277″ N	073° 07′ 31.773″ W
D2	D4	B502	657329.8364	4560257.48	41° 10′ 42.243″ N	073° 07′ 27.355″ W
	D6	B504	657331.0511	4560200.057	41° 10′ 40.381″ N	073° 07′ 27.356″ W
	D5	-	657275.0431	4560214.801	41° 10′ 40.898″ N	073° 07′ 29.745″ W
F	F1	SP01	657255.589	4561171.334	41° 11′ 11.914″ N	073° 07′ 29.695″ W
	F2	-	657236.587	4561078.611	41° 11′ 08.922″ N	073° 07′ 30.596″ W
	F3	-	657186.4491	4561164.167	41° 11′ 11.730″ N	073° 07′ 32.668″ W
E	E1*	E02	657019	4560123	41° 10′ 38.101″ N	073° 07′ 40.813″ W
	E2	-	656962.1432	4560019.549	41° 10′ 34.788″ N	073° 07′ 43.348″ W
	E3	-	656958.2686	4559941.746	41° 10′ 32.269″ N	073° 07′ 43.586″ W
	E4	-	657018.8008	4559983.343	41° 10′ 33.575″ N	073° 07′ 40.951″ W
C	HB1		657407.0991	4561068.373	41° 11′ 08.471″ N	073° 07′ 23.290″ W
	HB2		657394.7415	4561036.142	41° 11′ 07.435″ N	073° 07′ 23.85″ W
	HB3**		657346.35	4560913.07	41° 11′ 03.480″ N	073° 07′ 26.040″ W
	HB4		657346.1909	4560915.075	41° 11′ 03.545″ N	073° 07′ 26.045″ W
	HB5		657342.7637	4560884.857	41° 11′ 02.568″ N	073° 07′ 26.220″ W
	HB6		657331.4513	4560870.08	41° 11′ 02.097″ N	073° 07′ 26.719″ W
	HB7		657335.0478	4560868.677	41° 11′ 02.049″ N	073° 07′ 26.566″ W
	HB8		657329.073	4560800.948	41° 10′ 59.858″ N	073° 07′ 26.885″ W
	HB9		657310.7445	4560720.211	41° 10′ 57.254″ N	073° 07′ 27.746″ W

* Estimated position referenced upon a nearby differentially corrected position. The actual station position was measured to be approximately 13 meters south and 62 meters east of the referenced station (Exact station location not available due to obstructed interference).

** Estimated position referenced upon a nearby differentially corrected position. The actual station position was measured to be approximately 2 meters south of the referenced station. (Exact station location not available due to obstructed interference).

Table 2. Summary of Test Conditions and Test Acceptability Criteria for the Amphipod, *Ampelisca abdita*, Acute Toxicity Sediment Tests

1.)	Test type:	Whole sediment, static, non-renewal*
2.)	Test duration:	10 d
3.)	Temperature:	20 ± 2°C
4.)	Salinity:	28 ± 2 ppt
5.)	Light quality:	Ambient laboratory illumination
6.)	Light intensity:	10-20 uE/m^2/s(50-100 ft-c)
7.)	Photoperiod:	Continuous light
8.)	Test chamber size:	1 L glass beaker or 1 quart Mason jar
9.)	Overlying water volume:	725 ml
10.)	Sediment volume:	Approximately 175 ml
11.)	Renewal of overlying water:	None*
12.)	Size and life stage of amphipods:	Subadults, 3 -5 mm, passed through a 1.0 mm sieve and retained on a 0.7 mm sieve, no mature males or females.
13.)	Number of test organisms per chamber:	20
14.)	Number of replicates per sediment:	5
15.)	Feeding regime:	None
16.)	Test chamber cleaning:	None
17.)	Treatments:	Performance control (LIS) and test sediment
18.)	Overlying water:	Natural seawater
19.)	Overlying water aeration:	Water in each test chamber is aerated overnight before start of test, and throughout the test. Trickle-flow (< 100

		bubbles/min) is used.
20.)	Overlying water quality:	DO, pH, salinity, and ammonia are measured daily. Temperature is recorded daily.
21.)	Endpoint:	Survival
22.)	Test acceptability criterion:	Minimum mean control survival of 90%, where no individual chamber exhibits greater than 20% mortality.

* Static renewal, intermittent flow or continuous flow tests may be used where pore water total and un-ionized ammonia values at pH 7.7 exceed 30 and 0.5 mg/L, respectively. During static renewal tests the overlying dilution water is changed every 48 h.

Table 3. List of analytes for chemical analysis.

Metals

Reporting Name	Analyte	CAS NO	Sediment Analysis Method	Sediment MDL mg/Kg dry	Sediment Reporting Lir mg/Kg dry
As	Arsenic	7440-38-2	GFAA 7060	0.04	0.5
Cd	Cadmium	7440-43-9	GFAA 7131	0.06	0.2
Cr	Chromium	7440-47-3	ICP 6010B	0.34	1.0
Cu	Copper	7440-50-8	GFAA 7211	0.1	0.5
Pb	Lead	7439-92-1	GFAA 7421	0.14	0.2
Hg	Total Mercury (cold vapor)	7439-97-6	CVAA 7471	0.005	0.006
Ni	Nickel	7440-02-0	ICP 6010B	1.2	2.0
Ag	Silver	7440-22-4	GFAA 7761	0.03	0.2
Zn	Zinc	7440-66-6	ICP 6010B	2.0	0.43

SEM:AVS

Reporting Name	Analyte	CAS NO	Analysis Method	Sediment MDL mg/Kg dry	Sediment Reporting Lir mg/Kg dry
SEM-Cu	Copper	7440-50-8	ICP 6010B	0.53	2.0
SEM-Cd	Cadmium	7440-43-9	ICP 6010B	0.23	0.5
SEM-Pb	Lead	7439-92-1	ICP 6010B	5.0	10
SEM-Ni	Nickel	7440-02-0	ICP 6010B	0.99	5
SEM-Zn	Zinc	7440-66-6	ICP 6010B	5.9	10
AVS	Acid Volatile Sulfide		Ag_2S Probe EPA, 1992	0.1	20

SEM Reporting Limits based on 2.0 g digested, 50% moisture, and 100-mL final volume.

Table 3. continued.

Metals

Reporting Name	Analyte	CAS NO	Tissue Analysis Method	Tissue MDL mg/Kg dry	Tissue Reporting Lir mg/Kg dry
As	Arsenic	7440-38-2	GFAA 7060		0.5
Cd	Cadmium	7440-43-9	GFAA 7131		0.2
Cr	Chromium	7440-47-3	GFAA 7191		0.5
Cu	Copper	7440-50-8	GFAA 7211		0.5
Pb	Lead	7439-92-1	GFAA 7421		0.2
Hg	Total Mercury (cold vapor)	7439-97-6	CVAA 7471		0.006
Ni	Nickel	7440-02-0	GFAA 7521		0.5
Ag	Silver	7440-22-4	GFAA 7761		0.2
Zn	Zinc	7440-66-6	ICP 6010B		0.43

Tissue MDL studies are in progress and due for completion 04/05/99.

Metals

Reporting Name	Analyte	CAS NO	Porewater Analysis Method	Seawater MDL Ug/L	Seawater Reporting Lirr ug/L dry
As	Arsenic	7440-38-2	Hydride 7061	0.30	4.0
Cd	Cadmium	7440-43-9	ICP 6010B	0.15	0.5
Cr	Chromium	7440-47-3	GFAA 7191	0.60	10
Cu	Copper	7440-50-8	GFAA 7211	0.26	0.6
Pb	Lead	7439-92-1	GFAA 7421	0.007	0.04
Ni	Nickel	7440-02-0	ICP 6010B	0.59	2.0
Ag	Silver	7440-22-4	ICP 6010B	0.12	1.0
Zn	Zinc	7440-66-6	ICP 6010B	4.0	0.59

Porewater limits are based on having 50 mL porewater after filtering to chelate/extract and preconcentrate for analysis.

Table 3. continued.

PAHs

Reporting Name	Analyte	CAS NO	Sediment MDL ug/Kg dry	Sediment Reporting Limit ug/Kg dry
T167NAP	1,6,7-Trimethylnaphthalene	2245387	0.10	2
M1NAPH	1-Methylnaphthalene	90120	0.11	2
M1PHEN	1-Methylphenanthrene	832699	0.16	2
D26NAPH	2,6-Dimethylnaphthalene	581420	0.17	2
M2NAPH	2-Methylnaphthalene	91-57-6	0.19	2
ACENAPH	Acenaphthene	83-32-9	0.14	2
ACENAPL	Acenaphthylene	208-96-8	0.13	2
ANTHRAC	Anthracene	120-12-7	0.23	2
BENAAN	Benzo(a)anthracene	56-55-3	0.19	2
BENAPYR	Benzo(a)pyrene	50-32-8	0.065	2
BENBFLU	Benzo(b)fluoranthene	205-99-2	0.34	2
BENEPYR	Benzo(e)pyrene	192972	0.19	2
BGHIPER	Benzo(g,h,i)perylene	191-24-2	0.19	2
BENKFLU	Benzo(k)fluoranthene	207-08-9	0.47	2
BIPHEN	Biphenyl	92524	0.46	2
CHRYSEN	Chrysene	218-01-9	0.18	2
DBAHANT	Dibenz(a,h)anthracene	53-70-3	0.26	2
FLUORAN	Fluoranthene	206-44-0	0.22	2
FLUOREN	Fluorene	86-73-7	0.082	2
I123CDP	Indeno(1,2,3-cd)pyrene	193-39-5	0.093	2
NAPH	Naphthalene	91-20-3	0.28	2
PERYL	Perylene	198550	0.13	2
PHENAN	Phenanthrene	85-01-8	0.22	2
PYRENE	Pyrene	129-00-0	0.24	2

Methods follow NS&T Program guidelines, and SW-846 Method 8270 Modified. Reporting limits based on 20-g sample, 50% moisture content, and 2-mL final extract volume.

Table 3. continued.

PAHs

Reporting Name	Analyte	CAS NO	Tissue MDL ug/Kg dry	Tissue Reporting Limit ug/Kg dry
T167NAP	1,6,7-Trimethylnaphthalene	2245387	5.3	10
M1NAPH	1-Methylnaphthalene	90120	3.8	10
M1PHEN	1-Methylphenanthrene	832699	10	10
D26NAPH	2,6-Dimethylnaphthalene	581420	4.3	10
M2NAPH	2-Methylnaphthalene	91-57-6	6.1	10
ACENAPH	Acenaphthene	83-32-9	4.2	10
ACENAPL	Acenaphthylene	208-96-8	4.5	10
ANTHRAC	Anthracene	120-12-7	3.7	10
BENAAN	Benzo(a)anthracene	56-55-3	9.3	10
BENAPYR	Benzo(a)pyrene	50-32-8	4.7	10
BENBFLU	Benzo(b)fluoranthene	205-99-2	5.5	10
BENEPYR	Benzo(e)pyrene	192972	5.2	10
BGHIPER	Benzo(g,h,i)perylene	191-24-2	3.7	10
BENKFLU	Benzo(k)fluoranthene	207-08-9	5.5	10
BIPHEN	Biphenyl	92524	3.6	10
CHRYSEN	Chrysene	218-01-9	4.2	10
DBAHANT	Dibenz(a,h)anthracene	53-70-3	5.4	10
FLUORAN	Fluoranthene	206-44-0	6.6	10
FLUOREN	Fluorene	86-73-7	4.9	10
I123CDP	Indeno(1,2,3-cd)pyrene	193-39-5	5.1	10
NAPH	Naphthalene	91-20-3	5.1	10
PERYL	Perylene	198550	3.4	10
PHENAN	Phenanthrene	85-01-8	7.6	10
PYRENE	Pyrene	129-00-0	6.0	10

Methods follow NS&T Program guidelines and SW-846 Method 8270 Modified. Reporting limits based on 20-g sample, 90% moisture content, and 2-mL final extract volume.

Table 3. continued.

PCB congeners

Reporting Name	Analyte	CAS NO	Sediment MDL ug/Kg dry	Sediment Reporting Limit ug/Kg dry
PCB008	8 (2 4)	34883437	0.063	1
PCB018	18 (2 2'5)	37680652	0.29	1
PCB028	28 (2 4 4')	7012375	0.025	1
PCB029	29 (2 4 5)	15862074	NA	1
PCB044	44 (2 2'3 5')	41464395	0.18	1
PCB050	50 (2 2' 4 6)	62796650	NA	1
PCB052	52 (2 2'5 5)	35693993	0.083	1
PCB066	66 (2 3'4 4')	32598100	0.030	1
PCB077	77(3 3' 4 4')	32598133	0.047	1
PCB087	87(2 2' 3 4 5')	38380028	0.063	1
PCB101	101 (2 2'4 5 5')	37680732	0.086	1
PCB104	104 (2 2' 4 6 6')		NA	1
PCB105	105 (2 3 3'4 4')	32598144	0.040	1
PCB118	118 (2 3'4 4'5)	31508006	0.046	1
PCB126	126 (3 3' 4 4' 5)	57465288	0.060	1
PCB128	128 (2 2'3 3'4 4')	39380073	0.15	1
PCB138	138 (2 2'3 4 4'5)	35065282	0.075	1
PCB153	153 (2 2'4 4'5 5')	35065271	0.069	1
PCB154	154(2 2 4 4' 5 6')		NA	1
PCB170	170 (2 2'3 3'4 4'5)	35065306	0.14	1
PCB180	180 (2 2'3 4 4'5 5')	35065293	0.058	1
PCB187	187 (2 2'3 4'5 5'6)	52663680	0.046	1
PCB188	188 (2 2' 3 4' 5 6 6')		NA	1
PCB195	195 (2 2'3 3'4 4'5 6)	52663782	0.052	1
PCB200	200 (2 2' 3 3' 4 5 6 6')		NA	1
PCB206	206 (2 2'3 3'4 4'5 5'6)	40186729	0.050	1
PCB209	209 (2 2'3 3'4 4'5 5'6 6')	2051243	0.075	1

Methods follow NS&T Program guidelines and SW-846 Method 8082 Modified. Reporting limit based on 20-g sample, 50% moisture, 2-mL final extract volume; lower reporting limits may be achieved if required by the project QAPjP.

NA – Not available, congener not included in most recent MDL study.

Table 3. continued.

PCB congeners

Reporting Name	Analyte	CAS NO	Tissue MDL ug/Kg dry	Tissue Reporting Limit ug/Kg dry
PCB008	8 (2 4)	34883437	5.1	5
PCB018	18 (2 2'5)	37680652	2.6	5
PCB028	28 (2 4 4')	7012375	3.5	5
PCB029	29 (2 4 5)	15862074	NA	5
PCB044	44 (2 2'3 5')	41464395	6.1	5
PCB050	50 (2 2' 4 6)	62796650	NA	5
PCB052	52 (2 2'5 5)	35693993	1.4	5
PCB066	66 (2 3'4 4')	32598100	3.2	5
PCB077	77(3 3' 4 4')	32598133	2.7	5
PCB087	87(2 2' 3 4 5')	38380028	1.7	5
PCB101	101 (2 2'4 5 5')	37680732	1.7	5
PCB104	104 (2 2' 4 6 6')		NA	5
PCB105	105 (2 3 3'4 4')	32598144	1.5	5
PCB118	118 (2 3'4 4'5)	31508006	5.3	5
PCB126	126 (3 3' 4 4' 5)	57465288	0.67	5
PCB128	128 (2 2'3 3'4 4')	39380073	4.8	5
PCB138	138 (2 2'3 4 4'5)	35065282	3.4	5
PCB153	153 (2 2'4 4'5 5')	35065271	4.2	5
PCB154	154(2 2 4 4' 5 6')		NA	5
PCB170	170 (2 2'3 3'4 4'5)	35065306	NA	5
PCB180	180 (2 2'3 4 4'5 5')	35065293	5.4	5
PCB187	187 (2 2'3 4'5 5'6)	52663680	1.7	5
PCB188	188 (2 2' 3 4' 5 6 6')		NA	5
PCB195	195 (2 2'3 3'4 4'5 6)	52663782	3.9	5
PCB200	200 (2 2' 3 3' 4 5 6 6')		NA	5
PCB206	206 (2 2'3 3'4 4'5 5'6)	40186729	1.0	5
PCB209	209 (2 2'3 3'4 4'5 5'6 6')	2051243	0.75	5

Methods follow NS&T Program guidelines and SW-846 Method 8082 Modified. Reporting limit based on 20-g sample, 90% moisture, 2-mL final extract volume.

NA – Not available, congener not included in most recent MDL study.

Table 3. continued.

OCPs

Reporting Name	Analyte	CAS NO	Sediment MDL ug/Kg dry	Sediment Reporting Limit ug/Kg dry
ABHC	Alpha-BHC	319846	0.014	1
ACHLOR	Alpha-Chlordane	5103719	0.022	1
BBHC	Beta-BHC	319857	0.026	1
DBHC	Delta-BHC	319868	0.017	1
DIELDRIN	Dieldrin	6057	0.049	1
ENDOSFN1	Endosulfan I	959988	0.022	1
ENDOSFN2	Endosulfan II	33212659	0.031	1
ENDOSO4	Endosulfan Sulfate	1031078	0.059	1
ENDRIN	Endrin	72208	0.039	1
ENDRINAD	Endrin Aldehyde	7421934	0.048	1
GBHC	Gamma-BHC(Lindane)	58899	0.014	1
GCHLOR	Gamma-Chlordane	5103742	0.030	1
HPTCHLOR	Heptachlor	76448	0.037	1
HPTEPOX	Heptachlor Epoxide	1024573	0.032	1
MTXYCHLR	Methoxychlor		0.23	5
TOXPHNE	Toxaphene	8001352	NA	10
ALDRIN	Aldrin	309002	0.012	1
HCB	Hexachlorobenzene	118-74-1	NA	1
MIREX	Mirex	2385855	NA	1
DDD_PP	p,p'-DDD	72548	0.026	1
DDE_PP	p,p'-DDE	72559	0.033	1
DDT_PP	p,p'-DDT	50293	0.030	1
DDD_OP	o,p'-DDD	3424826	NA	1
DDE_PP	o,p'-DDE		NA	1
DDT_PP	o,p'-DDT		NA	1

Methods follow NS&T Program guidelines and SW-846 Method 8081 Modified. Reporting limit based on 20-g sample, 50% moisture, 2-mL final extract volume; lower reporting limits may be achieved if required by the project QAPjP.

NA – Not available, pesticide not included in most recent MDL study.

Table 3. continued.

OCPs

Reporting Name	Analyte	CAS NO	Tissue MDL ug/Kg dry	Tissue Reporting Limit ug/Kg dry
ABHC	Alpha-BHC	319846		5
ACHLOR	Alpha-Chlordane	5103719		5
BBHC	Beta-BHC	319857		5
DBHC	Delta-BHC	319868		5
DIELDRIN	Dieldrin	6057		5
ENDOSFN1	Endosulfan I	959988		5
ENDOSFN2	Endosulfan II	33212659		5
ENDOSO4	Endosulfan Sulfate	1031078		5
ENDRIN	Endrin	72208		5
ENDRINAD	Endrin Aldehyde	7421934		5
GBHC	Gamma-BHC(Lindane)	58899		5
GCHLOR	Gamma-Chlordane	5103742		5
HPTCHLOR	Heptachlor	76448		5
HPTEPOX	Heptachlor Epoxide	1024573		5
MTXYCHLR	Methoxychlor			25
TOXPHNE	Toxaphene	8001352		50
ALDRIN	Aldrin	309002		5
HCB	Hexachlorobenzene	118-74-1		5
MIREX	Mirex	2385855		5
DDD_PP	p,p'-DDD	72548		5
DDE_PP	p,p'-DDE	72559		5
DDT_PP	p,p'-DDT	50293		5
DDD_OP	o,p'-DDD	3424826		5
DDE_PP	o,p'-DDE			5
DDT_PP	o,p'-DDT			5

Methods follow NS&T Program guidelines and SW-846 Method 8081 Modified. Reporting limit based on 20-g sample, 90% moisture, 2-mL final extract volume.

Tissue MDL studies are in progress and due for completion 04/05/99.

Table 3. continued.

Dioxins/Dibenzofurans

Reporting Name	Analyte	CAS NO	Sediment Reporting Limit ng/g dry
1,2,3,4,6,7,8,9-OCDD	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268879	0.001
1,2,3,4,6,7,8,9-OCDF	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020	0.001
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822394	0.001
1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	0.001
1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	0.001
1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227286	0.001
1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	0.001
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653857	0.001
1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	0.001
1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408743	0.001
1,2,3,7,8,9-HxCDF	1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	0.001
1,2,3,7,8-PeCDD	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321764	0.001
1,2,3,7,8-PeCDF	1,2,3,7,8-Pentachlorodibenzofuran	57117416	0.001
2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-Hexachlorodibenzofuran	60581345	0.001
2,3,4,7,8-PeCDF	2,3,4,7,8-Pentachlorodibenzofuran	57117314	0.001
2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	0.001
2,3,7,8-TCDF	2,3,7,8-Tetrachlorodibenzofuran	51207319	0.001
Dibenzofuran	Dibenzofuran	132649	0.001
Total HpCDD	Total HpCDD		0.001
Total HpCDF	Total HpCDF		0.001
Total HxCDD	Total HxCDD		0.001
Total HxCDF	Total HxCDF		0.001
Total PeCDD	Total PeCDD		0.001
Total PeCDF	Total PeCDF		0.001
Total TCDD	Total TCDD		0.001
Total TCDF	Total TCDF		0.001

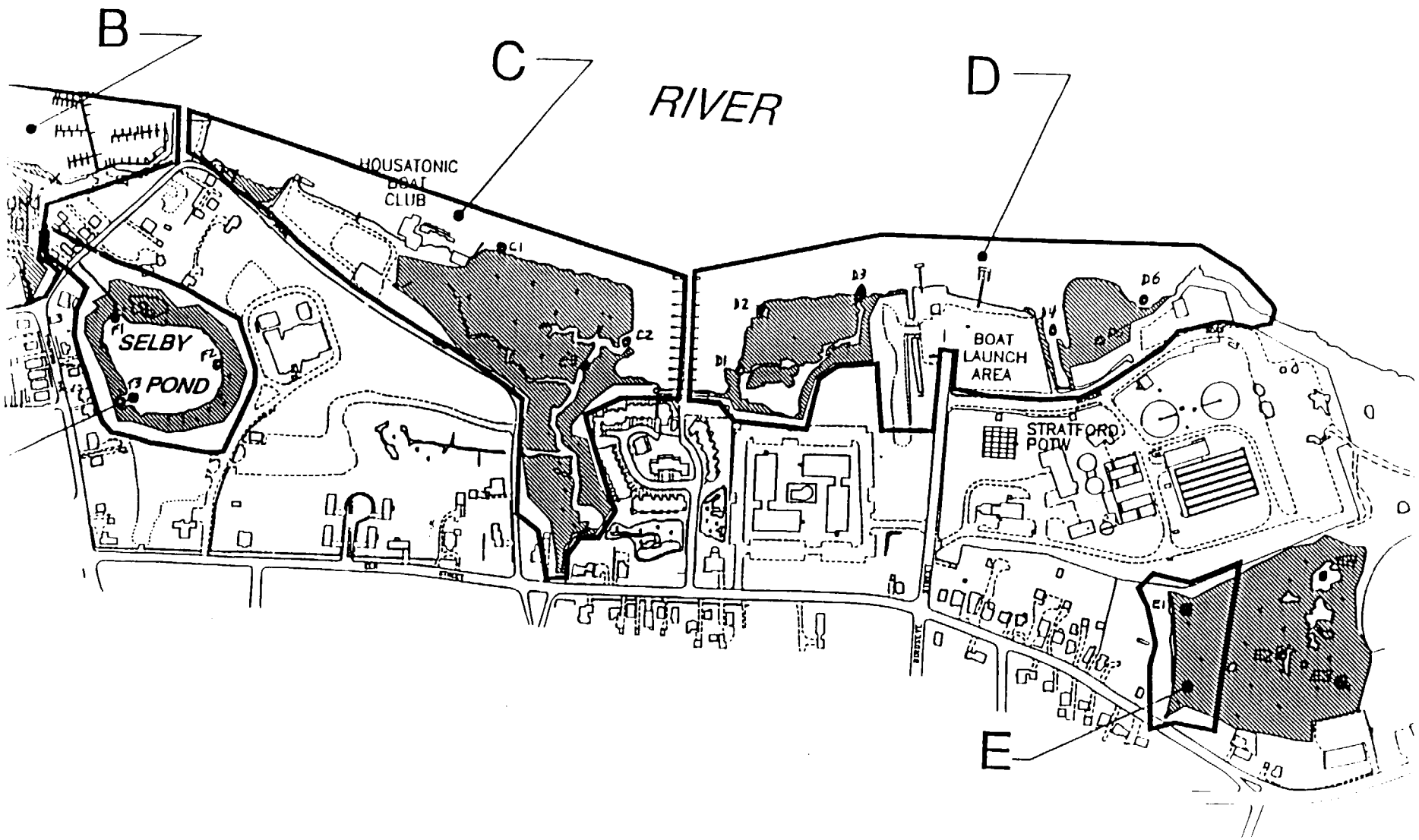
Methods follow SW-846 Method 1613B.

Table 4. Task schedule with completion dates.

Task	Description	Completion Date
1	Develop Draft Work Plan	9-Apr
	Develop Final Work Plan	20-Apr
2,3,4	Collect Samples	23-Apr
5,6,7	Conduct Chemical Analyses/Validation	15-Jun
8	Perform Data Analysis and Prepare Draft Report	1-Jul
	Prepare Final Report	1-Aug

Attachment A

Schematic of Raymark Sampling Site



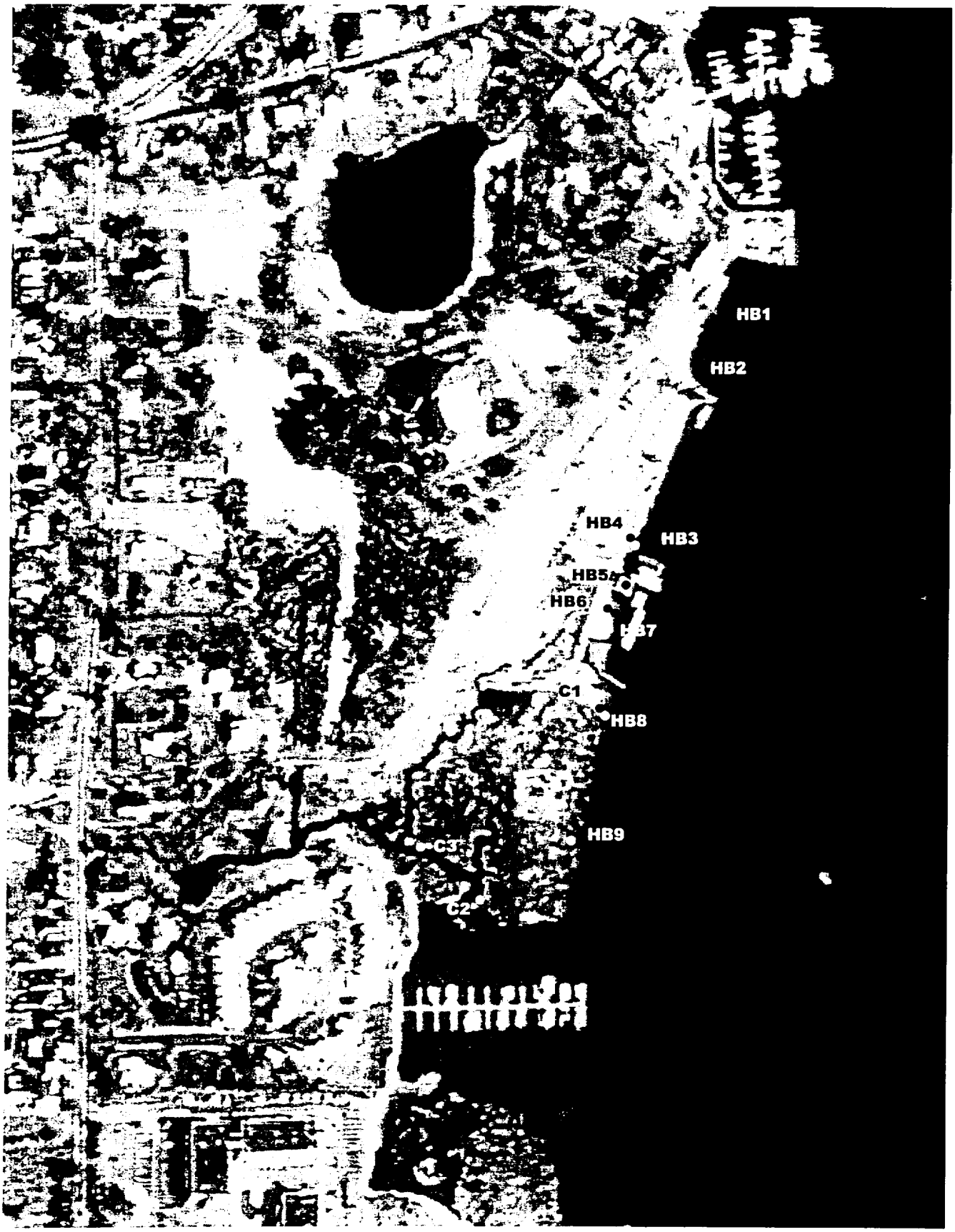
C1
C3
C2

D1
D2
D3

D4
D5
D6

E2
E4
E3

F1
F3
F2


HB1
HB2
HB4
HB3
HB5a
HB6
HB7
C1
HB8
HB9
C3
C2

APPENDIX E-2

SAMPLE LOG SHEETS FOR RAYMARK SUPERFUND SITE AREAS C-F.

SAMPLE LOG SHEET

Project Site Name: C-02-SED-SMP
Project Number: RAYMARK, CT

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: C-02-SED-SMP
Sample Location: AREA C
Sampled By: MORRIS/INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 4/13/99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 5:30 PM		BLACK SILTY SAND - Fairly Dry - H_2S smell
Method:		remnants of vegetation
Scoop		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
SEDIMENT CHEMISTRY	5 gal bucket (1)	✓	—
(METALS PCBS Pesticides DAHS DIOXIN)			
SEDIMENT TOXICITY			
PORE WATER CHEMISTRY			
(METALS)			
OTHER (AVS/SEM GRAINSIZE/TOC)			

OBSERVATIONS/NOTES

* Sampled with a plastic scoop

MAP

AREA C

41 10 59.956
73 07 26.956

Signature(s): Jason M deFonte

SAMPLE LOG SHEET

Project Site Name: C-02-SED-SMP
Project Number: RAYMARK, CT

Sample ID No.: C-02-SED-SMP
Sample Location: AREA C
Sampled By: MATTIS/INFANTINO
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[x] Sediment
[ ] Other:
[ ] QA Sample Type:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/13/99		
Time: 5:45 PM		Firm silty clay, H_2S smell
Method: SCOOP		

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
sediment chemistry	5 gal bucket (1)	✓	—
(metals PCB pest PAH dioxin)			
sediment toxicity			
pore water chemistry			
(metals)			
other (avs/sem, grain size/TOC)			

OBSERVATIONS/NOTES	MAP
*sampled with a plastic scoop	AREA C 41 10 56.003 73 07 30.285

Signature(s): Jason V. Infantino

SAMPLE LOG SHEET

Project Site Name: C-03-SED-SMP
Project Number: RAYMARK, CT

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: C-03-SED-SMP
Sample Location: AREA C
Sampled By: MORRIS/INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/13/99		
Time: 5:55 PM		Silt + clay, consolidated, firm
Method: SCOOP		H_2S smell

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals PCB pesticide PAH dioxin)	5 gal bucket (1)	✓	—
Sediment toxicity			
Core water chemistry (metals)			
other (avs/sem, grain/TOC)			

OBSERVATIONS/NOTES

* Sampled with a plastic scoop

MAP

AREA C

41 10 57.277
73 07 31.773

Signature(s): Jean M [signature]

SAMPLE LOG SHEET

Project Site Name: D-01-sed-samp
Project Number: RAYMARK, CT

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: D-01-SED-SMP
Sample Location: AREA D
Sampled By: ROSENBERGER/INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/14/99		
Time: 4:10 PM		Clay, fine sand layer, Brown, little odor
Method: SCOOP		worms

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry	5 gal bucket (1)	✓	—
(metals/PAH/pesticide/dioxin)			
sediment toxicity			
Pore water chemistry			
(metals)			
other (AVS/SEM grainsize/TOC)			

OBSERVATIONS/NOTES

* Sampled w/a plastic scoop

MAP

AREA D
41 10 52.309
73 07 31.679

Signature(s): Joan M Infantino

SAMPLE LOG SHEET

Project Site Name: D-02-Sed-Smp
Project Number: RAYMARK, CT

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: D-02-SED-SMP
Sample Location: AREA D
Sampled By: ROSENBERGER/INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/14/99		
Time: 4:00PM		Brown, Black, Fine, silty
Method: SCOOP		

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry	5 gal bucket (1')	✓	—
(metal pcb pH pesticide cotin)			
sediment toxicity			
pore water chemistry			
(metals)			
other (AVS/SEM grain size/TOC)			

OBSERVATIONS/NOTES	MAP
* Sampled w/a plastic scoop	AREA D 41 10 51.200 73 07 29.034

Signature(s): Joseph N Infantino

SAMPLE LOG SHEET

Project Site Name: D-03-sed-smp
Project Number: RAYMARK, CT

Sample ID No.: D-03-SED-SMP
Sample Location: AREA D
Sampled By: ROSENBERGER, INFANTINO
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

GRAB SAMPLE DATA			
Date: 4/14/99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time: 3:45 PM		Sand, gravel, glass, brown, shell	
Method: SCOOP		Black	

CORE SAMPLE DATA			
Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time:			
Method:			

COMPOSITE SAMPLE DATA		
Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION			
Analysis	Container Requirements	Collected	Other
Sediment chemistry, (total pcb PAH pest, dioxin)	5 gal bucket(s)	✓	—
Sediment toxicity,			
Pore water chemistry (metals)			
Other (AVS/SEM, grain size/TOC)			

OBSERVATIONS/NOTES	MAP
* Sampled w/ a plastic scoop	AREA D 41 10 48.482 73 07 28.215

Signature(s): Joan M. Infantino

SAMPLE LOG SHEET

Project Site Name: D-04-SED RAYMARK CT
Project Number:

Sample ID No.: D-04-SED-SMP
Sample Location: AREA-D
Sampled By: ROSENBERGER/INFANTINO
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/14/99		
Time: 3:25 PM		Silty, Clay, brown, black, shell
Method: SCOOP		slight sulfuric smell

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals, PAH, pest, dioxin)	5 gal bucket (1)	✓	—
sediment toxicity			
surface water chemistry (metals)			
other (AVS/SEM, grain size/TOC)			

OBSERVATIONS/NOTES

* Sampled w/a plastic scoop

MAP

AREA D

41 10 42.243
73 07 27.355

Signature(s): Joann M Infantino

SAMPLE LOG SHEET

Project Site Name: D-05 RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: D-05-SED-SMP
Sample Location: AREA D
Sampled By: ROSENBERGER/INFANTINO
C.O.C. No.:

GRAB SAMPLE DATA

Date: 4/14/99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2:35 PM		Sandy, gravel, black, brown, shell
Method: SCOOP		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals pah, pcb pest dioxin)	5 gal bucket (1)	✓	—
Sediment toxicity			
Pore water chemistry (metals)			
other (AVS/SEM, grain sz/TOC)			

OBSERVATIONS/NOTES

*No bivalves present @ site.
*sampled w/a plastic scoop

MAP

AREA D

41 10 40.898
73 07 29.745

Signature(s): Joan M Infantino

SAMPLE LOG SHEET

Project Site Name: D Ø6-SED RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: D-06-SED-SMP
Sample Location: AREA D
Sampled By: ROSENBERGER / INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/14/99		
Time: 2:55 PM		Fines, clay, very dense, black/brown
Method: SCOOP		shell

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment Chemistry (metals, pesticides, dioxin)	5 gal bucket (1)	✓	—
Sediment Toxicity			
Pore water chemistry (metals)			
other (AVS/SEM, grain size/TOC)			

OBSERVATIONS/NOTES

* sampled w/ a plastic scoop

MAP

AREA D

41 10 40.381
73 07 27.356

Signature(s): Jason M Infantino

SAMPLE LOG SHEET

Project Site Name: D-06-SED * (Duplicate) * RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: D-06-SED-FD
Sample Location: AREA D
Sampled By: ROSENBERGER / INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 4/14/99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 3:00 PM		Fines, clay, very dense, black/brown
Method:		shell
SCOOP		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals pH pcb dioxin pest)	5 gal bucket (1)	✓	—
Sediment toxicity			
Pore water chemistry (metals)			
Other (AVS/SEM grainsize/TOC)			

OBSERVATIONS/NOTES

* Sampled w/a plastic scoop

MAP

AREA D

41 10 40.381
73 07 27.356

Signature(s): Joan M Infantino

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: E-01-SED-SMP
Sample Location: AREA E
Sampled By: TIETJEN
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 15 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1220 pm		Black, small cobbles and rocks
Method:		in sediment.
SCOOP		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals, pcb, pah, pesticides)	5 gal bucket (4)	✓	—
Sediment toxicity			
Pore water chemistry (metals)			
Other (AVS/SEM, grainsize/TOC)			

OBSERVATIONS/NOTES

Picture Frame # 11
* sampled w/ a plastic scoop

MAP

AREA E

41 10 38.101
73 07 40.813

Signature(s): [illegible]

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: E-02-SED-SMP
Sample Location: AREA E
Sampled By: TIETJEN
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 15 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1200pm		Black, alot of vegetative matter
Method:		
SCOOP		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment Chemistry	5 gal bucket (1)	✓	—
(metals, pcb, pest, dioxin)			
Sediment Toxicity			
Pore water chemistry			
(metals)			
Other (VOS/SVOC, grain size/TOC)			

OBSERVATIONS/NOTES

Picture Frames # 13, 12
* Sampled w/ a plastic scoop

MAP

AREA E

41 10 34.788
73 07 43.348

Signature(s): Jason M Defontes

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: E-03-SED-Sm
Sample Location: AREA E
Sampled By: INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 15 APR 99		
Time: 1000A		Black, organic, alot of vegetative matter
Method:		high moisture content
SCOOP		

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry	5 gal bucket (1)	✓	—
(metals, pah, pesticides)			
Sediment toxicity			
Pore water chemistry			
(metals)			
other (AVS/SEM, grainsz/TOC)			

OBSERVATIONS/NOTES

Picture Frame #15

Black, alot of vegetative matter

* sampled w/a plastic scoop

MAP

AREA E

41 10 32.269
73 07 43.586

Signature(s): Jason M Infantino

SAMPLE LOG SHEET

Project Site Name: Raymark, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: E-04-SED-SMP
Sample Location: AREA E
Sampled By: ROSENBERGER
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 15 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 10:30A		Black, alot of organic / plant matter
Method: GRAB/SCOOP		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry	5 gal bucket (1)	✓	—
(metals pch pah pest dioxin			
Sediment toxicity			
Pore water chemistry			
(metals)			
other (AVS/SEM, grainsize, etc)			

OBSERVATIONS/NOTES

Picture Frame # 14

Took one grab, then decided it was easier to scoop.

* sampled w/a plastic scoop

MAP

AREA E

41 10 33.575
73 07 40.951

Signature(s): Jason M Defonte

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: F-01-SED-SMP
Sample Location: SELBY POND
Sampled By: K. ROSENBERGER / J. FANTINI
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 14 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 10:10 A	1 FOOT	Sandy, Silt, Dark Brown
Method: Scoop		near culvert opening - stream
		that runs into pond, higher flow

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals, pcb, pah, pest, dioxin)	5 gal bucket (1)	✓	—
Sediment toxicity			
Porewater chemistry (metals)			
other (ANS/SEDI grain sz / TOC)			

OBSERVATIONS/NOTES

more flow near stream - shell fragments
Picture Frame #7
* Sampled w/a plastic scoop

MAP

AREA F
41 11 11.914
73 07 29.695

Signature(s): [signature]

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: F-2-SED-SMP
Sample Location: SELBY POND
Sampled By: K ROSENBERG, J INFANTINO
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 14 APRIL 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 08:50AM	1 1/2 FOOT DEEP	odor, black, fine
Method: SCOOP SAMPLE	(1 1/2 FOOT WATER DEPTH)	

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals, pcb, pah, pest, dioxin)	5 gal bucket (4)	✓	—
Sediment toxicity			
Pore water chemistry (metals)			
other (AVS/SEM, grain sz/TOC)			

OBSERVATIONS/NOTES

Swan nests, ducks, phragmites, marsh grass lower near H_2O
Picture. Frame #6
* sampled w/ a plastic scoop

MAP

AREA F
41 11 08.922
73 07 30.596

Signature(s): Joseph A. Infantino

SAMPLE LOG SHEET

Project Site Name: ARMARK CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[✓] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: F-3-SED-SMP
Sample Location: SELBY POND
Sampled By: JUNFANTINO K. ROSENBURG
C.O.C. No.:

* GRAB SAMPLE DATA

Date: 14 APRIL 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 08:30 AM	1 FOOT (water depth)	Fine, black, very dark, high water content, odor
Method: SCOOP SAMPLE		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
Sediment chemistry (metals, pcb, pah, pest, dioxin)	5 gal bucket	✓	—
Sediment toxicity			
Pore water chemistry (metals)			
other (PAHs/SEM, grain size, TOC)			

OBSERVATIONS/NOTES

* sampled w/a plastic scoop

MAP

AREA F

41 11 11.730
73 07 32.668

Signature(s): Jean M Defante

SAMPLE LOG SHEET

Project Site Name: Raymark, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE
[ ] QA Sample Type:

Sample ID No.: C-1-TISS-~~MUSS~~ SHP
Sample Location: AREA C
Sampled By: C. TIETJEN, K. ROSENBERG, J. INFANTINO, S. BEHR
~~C.O.C. No.:~~

~~GRAB~~ TISSUE SAMPLE DATA

Date: 14 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time: 07:00 am			
Method: hand sampled			

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time:			
Method:			

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metals pcb pest PAH, lipids	Ziploc Bags - Foil	✓	—

OBSERVATIONS/NOTES

Medium sized ribbed mussels

Phragmites - hand picked out of bank - Colocated with sediment Samples

30 mussels collected

MAP

Area adjacent to Housatonic Boat club.

41 10 59.956
73 07 26.956

Signature(s): Shannon Behr

SAMPLE LOG SHEET

Project Site Name: Raymark, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE · MUSSELS
[ ] QA Sample Type:

Sample ID No.: C-2-TISS-MUSS SMP
Sample Location: AREA C
Sampled By: CTIETJEN/KROSENBERG/JINFANTINO/SBEHR
~~C.O.C. No.:~~

~~GRAB~~ TISSUE SAMPLE DATA

Date: 14 APRIL 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time: 07:15AM			
Method: hand sampled			

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time:			
Method:			

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metals pcb pest pah, lipids	Ziploc Bags & Foil	✓	—

OBSERVATIONS/NOTES

Ribbed mussels - Hand picked out of bank. Co-located with sediment grab samples.

30 mussels collected

MAP

Area adjacent to Housatonic Boat club

41 10 56.003
73 07 30.285

Signature(s):
Shannon Behr

SAMPLE LOG SHEET

Project Site Name: Raymark, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE
[ ] QA Sample Type:

Sample ID No.: C-3-TISS-~~MUSS~~ SMP
Sample Location: AREA C
Sampled By: C. DIETJEN, K. ROSENBERG
C.O.C. No.: S. BEHR / J. INFANTINO

~~GRAB~~ TISSUE SAMPLE DATA

Date: 14 APRIL 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time: 07:30AM			
Method: hand sampled			

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)	
Time:			
Method:			

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metals pcb pesticides	Ziplock Bags & Foil	✓	—

OBSERVATIONS/NOTES

Fewer mussels here than other two "C" Stations

C-3-Phab-transect #5

Mussels were hand picked out of bank. Colocated tissue samples with sediment grab sample locations.

28 mussels collected

MAP

Area adjacent to Housatonic Boat Club

41 10 57.277
73 07 31.773

Signature(s):

Shannon Behr

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE
[ ] QA Sample Type:

Sample ID No.: D-01-TISS-SMP
Sample Location: AREA D
Sampled By: Behr/Tietjen
C.O.C. No.:

~~GRAB~~ TISSUE SAMPLE DATA

Date: 14 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 15:40		
Method: hand sampled		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metals pest pcb pah hpid	Ziplock Bags & Foil	✓	—

OBSERVATIONS/NOTES

No oysters or mummichogs here - only mussels

30 mussels collected

MAP

41 10 52.309
73 07 31.679

Signature(s): Shannon Behr

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE - MUSSELS
[ ] QA Sample Type:

Sample ID No.: D-02-TISS-~~MUSS~~ SMP
Sample Location: AREA D
Sampled By: Bohr/Zitzjan
C.O.C. No.:

GRAB SAMPLE DATA

Date: 14 APR 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 15:50		
Method: hand sampled		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metal pch pest patt lipid	Ziploc Bags & Foil	✓	—

OBSERVATIONS/NOTES	MAP
No oysters here, only mussels 30 mussels collected	41 10 51.200 73 07 29.034

Signature(s): Shannon Bohr

SAMPLE LOG SHEET

Project Site Name: Raymark, CT
Project Number:

Sample ID No.: D-03-~~TISS~~ SMP-[illegible]
Sample Location: AREAD
Sampled By: Hetjen Bohn
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE
[ ] QA Sample Type:

~~GRAB~~ Tissue SAMPLE DATA

Date: 14 Apr 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600		
Method: hand sampled		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metal pcb pest PAH lipid	Ziploc Bags & Foil	✓	—

OBSERVATIONS/NOTES	MAP
Mussels and oysters collected here No ~~[illegible]~~ mummichogs in trap 30 mussels collected	41 10 48.482 73 07 28.215

Signature(s): Shannon Bohn

SAMPLE LOG SHEET

Project Site Name: RAYMARK, CT
Project Number:

Sample ID No.: D-04-TISS-MUSS
Sample Location: AREA D
Sampled By: TETTEN PEHR
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: TISSUE
[ ] QA Sample Type:

GRAB SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 14 APR 99		
Time: 14:30		~~30~~ MUSSELS
Method: hand sample		29

CORE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

COMPOSITE SAMPLE DATA

	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Date:		
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
metal pcb pah pest lipid	Ziploc Bags & Foil	✓	—

OBSERVATIONS/NOTES

No mummi trap here
No oysters around, only a few empty shells

29 mussels collected

MAP

41 10 42.243
73 07 27.355

Signature(s): Shannon Bohn

SAMPLE LOG SHEET

SMP
MUSS

Project Site Name: RAYMARK, CT
Project Number:

Sample ID No.: D-06- TISS
Sample Location: AREA D
Sampled By: TIETJEN / BEHR
C.O.C. No.:

[ ] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[✓] Other: Tissue
[ ] QA Sample Type:

TISSUE

~~GRAB~~ SAMPLE DATA

Date: 14 Apr 99	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 14:40		~~35~~ Ribbed Mussels Collected
Method:		31
hand sampled mussels		
hand removed fish from trap		

CORE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

COMPOSITE SAMPLE DATA

Date:	Depth	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		
Method:		

SAMPLE COLLECTION INFORMATION

Analysis	Container Requirements	Collected	Other
retal pcb pattpest lipid	Ziploc Bags / Foil	✓	—

OBSERVATIONS/NOTES	MAP
Mummi trap here, but only one fish in trap. No oysters around at all.	41 10 40.381 73 07 27.356
31 mussels collected	

Signature(s): Shannon Behr

Science Applications International Corporation

Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: Raymark Field Sampling 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description	Requested Parameters
HB-1-SED-SMP	1	Poly Core Tube	4/13/99	17:02	Single 3" + Core Sample	Sediment Chemistry
HB-2-SED-SMP	1			16:48		
HB-3-SED-SMP	1			15:22		
HB-4-SED-SMP	1			14:42		
HB-5-SED-SMP	1			14:27		
HB-6-SED-SMP	1			14:20		
HB-6-SED-FD	1			14:20		
HB-7-SED-SMP	1			15:06		
HB-8-SED-SMP	1			16:10		
HB-9-SED-SMP	1			16:22		
C-1-SED-SMP	1	5gal pail	4/13/99	17.30	Composite Sediment Sample (5gal)	Sed Chem; Sed Tox; Pore Water
C-2-SED-SMP	1			17:45		
C-3-SED-SMP	1			17:55		

Total: 13

Packed/Released By:	Date Time	Received By:	Date Time	Remarks:
SAIC Signature: John T. Morris Printed Name: John T. Morris (SAIC)	4/14/99 09:06	Cornelia Mueller SAIC Signature: Printed Name:	4/14/99 0906	SAMPLES WERE ICED UNTIL RELEASED SAIC 4/14/99 4/15/99
Released By: Signature: Printed Name:	Date Time	Received By: Signature: Printed Name:	Date Time	SAMPLES WERE REFRIGERATED UNTIL SUBSAMPLED. SAIC 4/15 4/16/99
Final Destination: SAIC at GSO, HERL, ORI Room 107		Contact Name and Phone Number SAIC Greg Tracey 401 848 9631		
Shipping Method: Hand delivered by SAIC		Page 1 of 1		

Original Form Accompanies Shipment

Chain of Custody Record

Science Applications International Corporation

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: Raymark Field Sampling 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description	Requested Parameters
F-3-SED-SMP	1	5gal. Pail	4/14/99	08:30	Composite Sed. Sample (5gal)	Sed. Chem, Sed. Tox.; Pore Water
F-2-SED-SMP				08:50		
F-1-SED-SMP				10:10		
D-5-SED-SMP				14:35		
D-6-SED-SMP				14:55		
D-6-SED-FD				15:00		
D-4-SED-SMP				15:25		
D-3-SED-SMP				15:45		
D-2-SED-SMP				16:00		
D-1-SED-SMP				16:10		
Total:	10					

Packed/Released By: SAIC Date Time Signature: 0855 Printed Name: PHILIP FISCHMAN 4/15/99	Received By: SAIC Date Time Signature: 0855 Printed Name: Cornelia Mueller 4/15/99	Remarks: SAMPLES WERE ICED UNTIL RELEASED. SAIC 4/14-4/15 SAMPLES WERE REFRIGERATED UNTIL SUBSAMPLED SAIC 4/15/99-4/20/99
Released By: Date Time Signature: Printed Name:	Received By: Date Time Signature: Printed Name:	
Final Destination: SAIC at OSD, NERL, ORD Room 107	Contact Name and Phone Number Cornelia Mueller SAIC 401 848 4632	
Shipping Method: HAND DELIVERED BY SAIC	Page 1 of 1	

Chain of Custody Record

Science Applications International Corporation

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: Raymark Field Sampling 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
E-3-SED-SMP	1	5 Gal. Pail	4/15/99	10:00	Composite Sediment Sample (5gal.)			Sed. Chem; Sed. Tox; Pore Water
E-4-SED-SMP	↓	↓	↓	10:30	↓			↓
E-2-SED-SMP	↓	↓	↓	12:40	↓			↓
E-1-SED-SMP	↓	↓	↓	12:20	↓			↓

Total: 4

Packed/Released By: SAIC Signature: Printed Name: Shannon Behr Date Time: Apr 15 4:00 pm	Received By: SAIC Signature: Printed Name: Melissa Swanson Date Time: Apr 15 4:00 pm	Remarks: SAMPLES WERE ICED UNTIL RELEASED. 4/15/99 SAIC SAMPLES WERE REFRIGERATED UNTIL SUBSAMPLED 4/15-4/20 SAIC
Released By: Signature: Printed Name: Date Time:	Received By: Signature: Printed Name: Date Time:	
Final Destination: SAIC at GSD, MERL, URI Room 107	Contact Name and Phone Number: Cornelia Mueller SAIC 401 848 4632	
Shipping Method: HAND DELIVERED BY SAIC	Page 1 of 1	

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Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
HB-1-SED-SMP	1	8oz GLASS	8/4/15	11:50	SEDIMENT (WRE)	-	-	metals, pcbs, pesticides
HB-2-SED-SMP	1			12:10		-	-	
HB-3-SED-SMP	1			10:35		-	-	
HB-4-SED-SMP	1			11:01			-	
HB-5-SED-SMP	1			11:15		-	-	
HB-6-SED-SMP	1			11:26		-	-	
HB-6-SED-FD	1			11:40				
HB-7-SED-SMP	1			10:55		-	-	
HB-8-SED-SMP	1			11:58		-	-	
HB-9-SED-SMP	1			12:20		-	-	

Total: 10

Packed/Released By: SAIC Signature: [illegible] Printed Name: CORNELIA MUELLER Date Time 4/15/99 2:57	Received By: Ed Butler Signature: WOODS HOLE GROUP Printed Name: F. D BUTLER Date Time 4/15/99 2:57	Remarks: SAMPLES WERE FROZEN UNTIL RELEASED ON SAIC 4/15
Released By: Signature: Printed Name: Date Time	Received By: Signature: Printed Name: Date Time	
Final Destination: WOODS HOLE GROUP	Contact Name and Phone Number WOODS HOLE GROUP HELDER COSTA 508-822-9300	
Shipping Method: Courier from WOODS HOLE GROUP	Page 1 of 1	

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Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: Raymark Field Sampling '99

Client Name and Contact: USACOE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1-TISS-SMP	1	Foils Zipoc Bag	4/14/99	0700	Ribbed Mussels	30	—	Tissue Chem - Metals, RBs, Pest, Lipids, PAHs
C-2-TISS-SMP	↓	↓	↓	0715	↓	30	—	↓
C-3-TISS-SMP	↓	↓	↓	0730	↓	28	—	↓
D-1-TISS-SMP	↓	↓	↓	1540	↓	30	—	↓
D-2-TISS-SMP	↓	↓	↓	1550	↓	30	—	↓
D-3-TISS-SMP	↓	↓	↓	1600	↓	30	—	↓
D-4-TISS-SMP	↓	↓	↓	1430	↓	29	—	↓
D-6-TISS-SMP	↓	↓	↓	1440	↓	31	—	↓
HB-9-TISS-SMP	↓	↓	↓	1740	↓	31	—	↓
Total:	9							

Packed/Released By: SAIC
Signature: [signature]
Printed Name: Christine A Tietjen
Date Time: 4/15/99 08:55

Received By: SAIC
Signature: [signature]
Printed Name: Cornelia Mueller
Date Time: 4/15/99 0855

Released By: SAIC
Signature: [signature]
Printed Name: Cornelia Mueller
Date Time: 4/19/99

Received By: Ed Butler Woods Hole Group
Signature: [signature]
Printed Name: ED BUTLER
Date Time: 4/19 12:47

Final Destination: WOODS HOLE GROUP

Contact Name and Phone Number: WOODS HOLE GROUP HELDER COSTA 508-822-9300

Shipping Method: HAND CARRIED BY SAIC
WOODS HOLE GROUP COURIER

Page 1 of 1

Remarks: SAMPLES WERE FEED UNTIL RELEASED 4/14/99 SAIC [signature]

SAMPLES WERE FROZEN UNTIL RELEASED. 4/15/99 - 4/19/99 SAIC [signature]

Cornelia FAX 4018491585 Rel. Ed Butler 2:25 4/19

Science Applications International Corporation

Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1 - SED - SMP	1	Aoz glass	4/16	2:20	SEDIMENT (GRAB)	—	—	METALS, PCBs, PAHs, pesticides
C-2 - SED - SMP	1		4/16	1:37		—	—	
C-3 - SED - SMP	1			12:50		—	—	
D-1 - SED - SMP	1			12:15		—	—	
D-2 - SED - SMP	1			12:35		—	—	
D-3 - SED - SMP	1			2:00		—	—	
D-4 - SED - SMP	1			10:20		—	—	
D-5 - SED - SMP	1			2:46		—	—	
D-6 - SED - SMP	1			1:20		—	—	
D-6 - SED - FD	1			3:07		—	—	
E-1 - SED - SMP	1			10:55		—	—	
E-2 - SED - SMP	1			9:50		—	—	
E-3 - SED - SMP	1			11:45		—	—	
E-4 - SED - SMP	1			11:21		—	—	
F-1 - SED - SMP	1			2:35		—	—	
Total:	15							

Packed/Released By: SAIC Signature: [signature] Printed Name: Cornelia Muller Date Time 1:47 4/9/99	Received By: WOODS HOLE GROUP Signature: Ed Butler Printed Name: ED BUTLER Date Time 4/9 12:47	Remarks: SAMPLES WERE FROZEN UNTIL RELEASED. CM SAC 4/16/99 4/9/99
Released By: Signature: Printed Name: Date Time	Received By: Signature: Printed Name: Date Time	
Final Destination: WOODS HOLE GROUP	Contact Name and Phone Number WOODS HOLE GROUP HELDER COSTA 508-822-9300	
Shipping Method: Courier from woodshole group	Page 1 of 2	

Rel. Ed Butler 2:25 4/19

Cornelia FAX 401 849 1585

Science Applications International Corporation

Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
F-2-SED-SMP	1	1gal	4/16	12:00	SEDIMENT (GRAB)	—	—	TOXICITY
F-3-SED-SMP	1	1gal	4/16	3:25	SEDIMENT (GRAB)	—	—	TOXICITY

Total: 2

Packed/Released By: SAIC Signature: [signature] Printed Name: Cornelia Hueller Date Time: 4/19/99 4:30pm	Received By: Signature: [signature] Printed Name: Brian Buzby Date Time: 4/20/99 1000am	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED am 4/16/99 4/19/99
Released By: Signature: Printed Name: Date Time	Received By: Signature: Printed Name: Date Time	
Final Destination: ENVIROSYSTEMS, INC.	Contact Name and Phone Number: PETRA KARBE 6039263345	
Shipping Method: FED EX	Page 2 of 2	

CORNELIA FAX 401 849 1585

Science Applications International Corporation

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Chain of Custody Record

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1-SED-SMP	1	8oz glass	4/16	2:20	SEDIMENT (GRAB)	–	–	DIOXIN
C-2-SED-SMP	1			1:37		–	–	
C-3-SED-SMP	1			12:50		–	–	
D-1-SED-SMP	1			12:15		–	–	
D-2-SED-SMP	1			12:35		–	–	
D-3-SED-SMP	1			2:00		–	–	
D-4-SED-SMP	1			10:20		–	–	
D-5-SED-SMP	1			2:45		–	–	
D-6-SED-SMP	1			1:20		–	–	
D-6-SED-FD	1			3:07		–	–	
E-1-SED-SMP	1			10:55		–	–	
E-2-SED-SMP	1			9:50		–	–	
E-3-SED-SMP	1			11:45		–	–	
E-4-SED-SMP	1			11:21		–	–	
F-1-SED-SMP	1			2:35		–	–	
Total:	15							

Packed/Released By: SAIC
Signature: [signature]
Date Time: 4/19/99
Printed Name: Cornelia Mueller 4:30pm

Received By: Midwest Research Inst
Signature: Tracy L. Long
Date Time: 4/20/99 10:45
Printed Name: Tracy L. Long

Released By:
Signature:
Date Time:
Printed Name:

Received By:
Signature:
Date Time:
Printed Name:

Final Destination: MIDWEST RESEARCH INSTITUTE (MRI)

Contact Name and Phone Number: MRI KATHY BOGGESS 816-753-7600

Shipping Method: FEDEX

Page 1 of 12

Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED. [initials] SAIC 4/16/99 - 4/19/99

Cornelia FAX 401 849 1585

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Pg(s): NA
By / Date: [signature] 4/20/99

Science Applications International Corporation

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Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
F-2-SED-SMP	1	8oz glass	4/16	12:00	SEDIMENT (GRAB)	-	-	DIOXIN
F-3-SED-SMP	1	8oz glass	4/16	3:25	SEDIMENT (GRAB)	-	-	DIOXIN
Total:	2							

Packed/Released By: SAIC Signature: Printed Name: Cornelia Mueller Date Time 4/19/99 4:30pm	Received By: Midwest Research Institute Signature: Tracy L. Long Printed Name: Tracy L. Long Date Time 4/20/99 10:45	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED. 4/16/99 SAIC 4/19/99
Released By: Signature: Printed Name: Date Time	Received By: Signature: Printed Name: Date Time	
Final Destination: MIDWEST RESEARCH INSTITUTE (MRI)	Contact Name and Phone Number MRI Kathy Boggess 816-753-7600	
Shipping Method: FEDEX	Page 2 of 2	

Cornelia fax 401 819 1585

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Date: 4/20/99

Science Applications International Corporation

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Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1 - PW - SMP	1	500ml poly	4/19	9:02	PREWATER (SEDIMENT GRAB)	-	-	METALS
C-2 - PW - SMP				9:17		-	-	
C-3 - PW - SMP				9:32		-	-	
D-1 - PW - SMP				9:33		-	-	
D-2 - PW - SMP				9:27		-	-	
D-3 - PW - SMP				9:16		-	-	
D-4 - PW - SMP				8:58		-	-	
D-5 - PW - SMP				9:31		-	-	
D-6 - PW - SMP				9:15		-	-	
D-6 - PW - FD				9:01		-	-	
E-1 - PW - SMP				8:15		-	-	
E-2 - PW - SMP				9:26		-	-	
E-3 - PW - SMP				9:19		-	-	
E-4 - PW - SMP				9:00		-	-	
F-1 - PW - SMP				9:20		-	-	

Total: 15

Packed/Released By: SAIC Signature: Printed Name: CORNELIA MUELLER Date Time 4/20/99	*Received By:* GSO/URI Signature: Carol L. Gibson Printed Name: Carol L. Gibson Date Time 4/20/99 10:45	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED. SAC on 4/19-4/20
Released By: SAIC Signature: Christine A Tietjen Printed Name: Christine A Tietjen Date Time 4/20/99 10:45	*Received By:* Signature: Printed Name: Date Time	
Final Destination: URI JOHN KING	Contact Name and Phone Number 401- JOHN KING URI 874-6182	
Shipping Method: HAND DELIVERED BY SAIC	Page 1 of 2	

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Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
F-2 - PW - SMP	1	500 mL BOTTLE	4/19	9:04	PORE WATER (SEDIMENT GRAB)	—	—	METALS
F-3 - PW - SMP	1	500 mL BOTTLE	4/19	9:35	PORE WATE (SEDIMENT GRAB)	—	—	METALS
Total :	2							

Packed/Released By: SAIC Signature: Printed Name: CORNELIA MUELLER Date Time 4/22/99	Received By: GSO/URI Signature: Carol L. Gibson Printed Name: Carol L. Gibson Date Time 4/20/99 10:45	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED. CM SAIC 4/19-4/20
Released By: SAIC Signature: Christine A Tietjen Printed Name: Christine A Tietjen Date Time 4/20/99 10:45	Received By: Signature: Printed Name: Date Time	
Final Destination: URI JOHN KING	Contact Name and Phone Number URI JOHN KING 401 874 6182	
Shipping Method: HAND DELIVERED BY SAIC	Page 2 of 2	

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Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAY HARIL 1997

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
HB-1-SED-SMP	1	50 ml tube	4/12/99	11:50	SEDIMENT (CORE)	-	-	TOC / GRAIN SIZE
HB-2-SED-SMP	1			12:10		-	-	
HB-3-SED-SMP	1			10:35		-	-	
HB-4-SED-SMP	1			11:01		-	-	
HB-5-SED-SMP	1			11:15		-	-	
HB-6-SED-SMP	1			11:26		-	-	
HB-6-SED-FD	1			11:40		-	-	
HB-7-SED-SMP	1			10:55			-	
HB-8-SED-SMP	1			11:58		-	-	
HG-9-SED-SMP	1			12:20		-	-	

Total: 10

Packed/Released By: SAIC Signature: Christine A Tietjen Printed Name: Christine A Tietjen Date Time 4/19/99 13:00	Received By: URI Signature: Carol L. Gibson Printed Name: Carol L. Gibson Date Time 4/19/99 13:00	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED CLL SAIC 4-15 4/19/99
Released By: Signature: Printed Name: Date Time	Received By: Signature: Printed Name: Date Time	
Final Destination: URI JOHN KING	Contact Name and Phone Number URI JOHN KING 401 874 6182	
Shipping Method: HANDDELIVERED BY SAIC	Page 1 of 1	

Chain of Custody Record

Science Applications International Corporation

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAI/MARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1-SED-SMP	1	50mL tube	4/16	2:20	SEDIMENT (GRAB)	–	–	SEM/AVS
C-2-SED-SMP	1			1:37		–	–	
C-3-SED-SMP	1			12:50		–	–	
D-1-SED-SMP	1			12:15		–	–	
D-2-SED-SMP	1			12:35		–	–	
D-3-SED-SMP	1			2:00		–	–	
D-4-SED-SMP	1			10:20		–	–	
D-5-SED-SMP	1			2:45		–	–	
D-6-SED-SMP	1			1:20		–	–	
D-6-SED-FD	1			2:07		–	–	
DE1-SED-SMP	1			10:55		–	–	
E-2-SED-SMP	1			9:50		–	–	
E-3-SED-SMP	1			11:45		–	–	
E-4-SED-SMP	1			11:21		–	–	
F-1-SED-SMP	1			2:35		–	–	
Total:	15							

Packed/Released By: SAIC Signature: Christine A Tietjen Printed Name: Christine A Tietjen Date Time 4/16/99 13:00	*Received By:* URI Signature: Carol L Gibson Printed Name: Carol L. Gibson Date Time 4/19/99 13:00	Remarks: SAMPLES WERE FROZEN UNTIL RELEASED. SMC 4/16/99 4/19/99
Released By: Signature: Printed Name: Date Time	*Received By:* Signature: Printed Name: Date Time	
Final Destination: URI John King	Contact Name and Phone Number URI JOHN KING 401 874 6182	
Shipping Method: HAND DELIVERED BY SAIC	Page 1 of 2	

Science Applications International Corporation

Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
F-2-SED-SMP	1	50ml tube	4/16	12:00	SEDIMENT (GRAB)	—	—	SEM/AVS
F-3-SED.SMP	1	50ml tube	4/16	3:25	SEDIMENT (GRAB)	—	—	SEM/AVS

Total : 2

Packed/Released By:	Received By:
Signature: Christine A Tietjen 4/19/99 13:00	Signature: Carol L. Gibson 4/19/99 13:00
Printed Name: Christine A Tietjen	Printed Name: Carol L. Gibson
Released By: Date Time	Received By: Date Time
Signature:	Signature:
Printed Name:	Printed Name:
Final Destination: URI JOHN KING	Contact Name and Phone Number URI JOHN KING 4018746182
Shipping Method: HAND DELIVERED BY SAIC	Page 2 of 2

Remarks: SAMPLES WERE FROZEN UNTIL RELEASED. SAIC on 4/16/99 - 4/19/99

Science Applications International Corporation

Chain of Custody Record

Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
C-1-SED-SMP	1	50 mL tube	4/16	1:20	SEDIMENT (GRAB)	–	–	TOC / GRAINSIZE
C-2-SED-SMP	1			1:37		–	–	
C-3-SED-SMP	1			12:50		–	–	
D-1-SED-SMP	1			12:15		–	–	
D-2-SED-SMP	1			12:35		–	–	
D-3-SED-SMP	1			2:00		–	–	
D-4-SED-SMP	1			10:20		–	–	
D-5-SED-SMP	1			2:45		–	–	
D-6-SED-SMP	1			1:20		–	–	
D-6-SED-FD	1			3:07		–	–	
E-1-SED-SMP	1			10:55		–	–	
E-2-SED-SMP	1			9:50		–	–	
E-3-SED-SMP	1			11:45		–	–	
E-4-SED-SMP	1			11:21		–	–	
F-1-SED-SMP	1			2:35		–	–	
Total:	15							

Packed/Released By: SAIC Signature: Christine A Tietjen Printed Name: Christine A Tietjen Date Time: 4/19/99 13:00	Received By: URI Signature: Carol L. Gibson Printed Name: Carol L. Gibson Date Time: 4/19/99 13:00	Remarks: SAMPLES WERE REFRIGERATED UNTIL RELEASED. CM SAIC 4/16/99 – 4/19/99
Released By: Signature: Printed Name: Date Time:	Received By: Signature: Printed Name: Date Time:	
Final Destination: JOHN KING URI	Contact Name and Phone Number: URI JOHN KING 401-874-6182	
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Environmental Testing Center / 165 Dean Knauss Dr. / Narragansett, RI 02882 / Tel. (401) 782-1900 / Fax (401) 782-2330

Project: RAYMARK 1999

Client Name and Contact: USACE

Sample No.	Containers No.	Containers Type	Collection Date	Collection Time	Sample Description			Requested Parameters
F-2-SED-SMP	1	50mL tube	4/16	12:00	SEDIMENT (GRAB)	-	-	TOC / GRAIN SIZE
F-3-SED-SMP	1	50mL tube	4/16	3:25	SEDIMENT (GRAB)	-	-	TOC / GRAIN SIZE
Total :	2							

Packed/Released By: SAIC	Date Time	Received By: URI	Date Time	Remarks: REFRIGERATED
Signature: Christine A Tietjen	4/19/99 13:00	Signature: Carol L. Gibson	4/19/99 13:00	SAMPLES WERE ~~FROZEN~~ UNTIL RELEASED
Printed Name: Christine A Tietjen		Printed Name: Carol L. Gibson		CM 4/16/99 - 4/19/99
Released By:	Date Time	Received By:	Date Time	
Signature:		Signature:		
Printed Name:		Printed Name:		
Final Destination: JOHN KING URI		Contact Name and Phone Number JOHN KING URI 401-874-6182		
Shipping Method: HAND DELIVERED BY SAIC		Page 1 2 of 1 2		