APPENDIX A

ATTACHMENTS 5.1 THROUGH 5.4 OF THE SADMP

ATTACHMENT 5.1
SAMPLE COLLECTION PROCEDURES AND ANALYTICAL METHODS

Analyte/Parameter	Procedure	SW-846 Method (solids)	EPA Method (water)
PCBs - Solids (soils, sediments)	SOP 3.1	8080	
PCBs - Solids (paint chips, insulation, asbestos)	MY 24-105-2 MYAP-CHR-101 MYAP-CHR-102 MYAP-CHR-103	8080	
PCBs - Water (groundwater, surface water, cooling water)	FP-3 FP-11 SOP 10.2		8080
PCBs - Oil	MYAP-CHR-101 MYAP-CHR-102	8080	
RCRA metals - solids and hydraulic fluid	SOP 3.1 SOP 10.2 MYAP-CHR-101 MYAP-CHR-102	6010/7470	
RCRA metals - Water (ground and cooling)	FP-11 SOP 10.2 MYAP-CHR-102		6010/7470
TPH/DRO - Solids	SOP 3.1 SOP 10.2	Maine 4.1.25	
TPH/DRO - Water	FP-3 FP-11 SOP 10.2		Maine 4.1.25
VOCs - Solids	SOP 3.1 SOP 10.2	8260	
VOCs - Water	FP-3 FP-11 SOP 10.2		8260
Semi - VOCs - Solids	SOP 3.1 SOP 10.2	8270	
Semi - VOCs -Water	FP-3 FP-11 SOP 10.2		8270

ATTACHMENT 5.2
MISCELLANEOUS SAMPLE REQUIREMENTS

Analyte/Parameter	Holding Time (days) Extraction/Analysis	Container Type	Container Size	Preservative	Shipping Container
PCBs - Solids (soils, sediments)	7/40	amber glass	8 oz	Cool 4°C	Cooler
PCBs - Solids (paint chips, insulation, asbestos)	7/40	amber glass	8 oz	Cool 4°C	Cooler
PCBs - Water (groundwater, surface water, cooling water)	7/40	amber glass	2.5L	Cool 4°C	Cooler
PCBs - Oil	7/40	amber glass	20 or 40 ml vial	Cool 4°C	Cooler
RCRA Metals - Solids and Hydraulic Fluid	180 mercury - 28	clear glass	4 oz	Cool 4°C	Cooler
RCRA Metals - Water (ground and cooling)	180 mercury - 28	HDPE	1 L	pH<2 HNO_3	Cooler
TPH/DRO - Solids	28	amber glass	4 oz	Cool 4°C	Cooler
TPH/DRO - Water	28	amber glass	1 L	pH<2, H_2S0_4/HCl Cool 4°C	Cooler
VOCs - Solids	14	clear glass	40 ml	Cool 4°C	Cooler
VOCs - Water	14	clear glass	3-40 ml	pH<2 HCl Cool 4°C	Cooler
Semi-VOCs-Solids	14	clear glass	250 ml	Cool 4°C	Cooler
Semi-VOCs-Water	14	amber glass	3-1L	Cool 4°C	Cooler

ATTACHMENT 5.3
QUANTERRA METHOD DETECTION LIMITS

ST. LOUIS LABORATORY
ICAP Metals
Contract Required Detection Limits (CRDL)[1],
Method Detection Limits (MDL),
and Reporting Limits (RLs)[2]

Element	CAS Number	Water CRDL (µg/L)	Soil CRDL[2] (mg/Kg)	Water MDL (µg/L)	Soil MDL[2] (mg/Kg)	Water RL (µg/L)	Soil RL[2] (mg/Kg)
Aluminum	7429-90-5	200	40	26.5	4.26	200	20
Antimony	7440-36-0	60	12	15.7	1.31	60	6
Arsenic	7440-38-2	10	2	66.9	5.09	300	30
Barium	7440-39-3	200	40	0.6	0.25	200	20
Beryllium	7440-41-7	5	1	0.5	0.07	5	0.5
Boron	7440-42-8	—	—	14.8	2.49	200	20
Bismuth	7440-69-9	—	—	37.7	4.94	200	20
Cadmium	7440-43-9	5	1	2.2	0.15	5	0.5
Calcium	7440-70-2	5000	1000	70.5	7.93	5000	500
Chromium	7440-47-3	10	2	2.4	0.15	10	1
Cobalt	7440-48-4	50	10	2.0	0.43	50	5
Copper	7440-50-8	25	5	4.0	0.45	25	2.5
Iron	7439-89-6	100	20	22.7	3.66	100	10
Lead	7439-92-1	3	0.6	50.6	4.52	100	10
Lithium	7439-93-2	—	—	2.7	0.85	50	5
Magnesium	7439-95-4	5000	1000	16.5	5.12	5000	500
Manganese	7439-96-5	15	3	0.7	0.24	15	1.5
Molybdenum	7439-98-7	—	—	7.1	0.86	40	4
Nickel	7440-02-0	40	8	10.2	1.29	40	4
Potassium	7440-09-7	5000	1000	1165	93.59	5000	500
Selenium	7782-49-2	5	1	62.1	6.78	250	25
Silicon	7440-21-3	—	—	101.8	17.10	500	50
Silver	7440-22-4	10	2	2.6	0.71	10	1

ST. LOUIS LABORATORY
ICAP Metals
Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL), and Reporting Limits (RLs)[2]
(Continued)

Element	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (mg/Kg)	Water MDL (µg/L)	Soil MDL[3] (mg/Kg)	Water RL (µg/L)	Soil RL[3] (mg/Kg)
Sodium	7440-22-4	5000	1000	30.5	12.93	5000	500
Strontium	7440-24-6	—	—	0.4	0.12	50	5
Tellurium	13494-80-9	—	—	11.7	6.61	500	50
Thallium	7440-28-0	10	2	28.8	4.00	2000	200
Thorium	7440-29-1	—	—	16.9	1.15	500	50
Tin	7440-31-5	—	—	26.9	2.32	100	10
Titanium	7440-32-6	—	—	6.4	0.83	50	5
Uranium	7440-62-2	—	—	79.6	4.96	500	50
Vanadium	7440-62-2	50	10	2.0	0.55	50	5
Zinc	7440-66-6	20	4	8.4	1.72	20	2
Zirconium	7440-67-7	—	—	8.4	0.70	100	10
ICAP Metals, TJA61E "Supertrace"							
Arsenic	7440-38-2	10	2	2.45	0.12	10	1.0
Lead	7439-92-1	3	0.6	0.73	0.07	3	0.3
Selenium	7782-49-2	5	1	4.22	0.34	5	0.5
Thallium	7440-66-6	10	2	4.15	0.23	10	1.0
Antimony	7440-36-0	60	12	3.29	0.36	10	1.0
Cadmium	7440-43-9	5	1	0.65	0.03	2	0.2
Chromium	7440-47-3	10	2	1.10	0.11	5	0.5
Silver	7440-22-4	10	2	1.45	0.08	5	0.5

Footnotes

(1) CRDLs apply to work performed according to the USEPA Statement of Work ILM03.0 and its revisions.
(2) RLs are taken from Quanterra SOP CORP-MT-0001.
(3) Soil detection limits are based on wet weight of sample, and will be higher when converted to a dry weight basis.

ST. LOUIS LABORATORY
AA Metals
Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL), and Reporting Limits (RLs)[2]

Element	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (mg/Kg)	Water MDL (µg/L)	Soil MDL[3] (mg/Kg)	Water RL (µg/L)	Soil RL[3] (mg/Kg)
Arsenic	7440-38-2	10	2	2.0	0.21	10	1
Cadmium	7440-43-9	10	2	0.09	0.02	1	0.1
Lead	7439-92-1	3	0.6	0.8	0.11	3	0.3
Selenium	7782-49-2	5	1	0.9	0.07	5	0.5
Thallium	7440-28-0	10	2	0.6	0.12	10	1
Tin	7440-31-5	—	—	2.5	0.20	200	20
Antimony	7440-36-0	60	12	1.1	0.18	10	1
Silver	7440-22-4	10	2	0.5	0.02	1	0.1
Mercury[4]	7439-97-6	0.2	0.1	0.011	0.005	0.2	0.033
Chromium	7440-47-3	10	2	0.47	0.01	1	0.1
Copper	7440-50-8	25	5	0.81	0.16	3	0.3
Iron	7439-89-6	100	20	4.96	0.63	8	0.8

Footnotes

[1] CRDLs apply to analyses performed under the Statement of Work of the USEPA Scope of Work ILM03.0 and its revisions.

[2] RLs are taken from Quanterra SOPs CORP-MT-0003, CORP-MT-0005, and CORP-MT-0007.

[3] Soil detection limits are based on wet weight of sample; detection limits will be higher when corrected for percent solids.

[4] Mercury is performed by cold vapor atomic absorption. The other elements are performed by graphite furnace techniques. Soil MDLs and RLs are given for method 7471, where three aliquots of 0.2 g are analyzed. For solids by Method 7470, a reporting limit of 0.1 mg/kg is achieved.

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Volatile Organics
with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water/Soil ug/Lor ug/kg MDL 8240	Water/ Soil ug/L or ug/kg MDL 8260	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Chloromethane	74-87-3	10	10	1.82	2.3	10	10
Bromomethane	74-83-9	10	10	2.33	1.4	10	10
Vinyl Chloride	75-01-4	10	10	2.21	3.4	10	10
Chloroethane	75-00-3	10	10	2.74	1.0	10	10
Methylene Chloride	75-09-2	10	10	0.65	3.8	5	5
Acetone	67-64-1	10	10	5.63	9.7	20	20
Carbon Disulfide	75-15-0	10	10	0.78	0.74	5	5
1,1-Dichloroethene	75-35-4	10	10	1.23	0.97	5	5
1,1-Dichloroethane	75-34-3	10	10	0.62	1.0	5	5
trans-1,2-Dichloroethene	156-60-5			0.86	0.63	2.5	2.5
cis-1,2-Dichloroethene	156-59-2			0.63	0.51	2.5	2.5
1,2-Dichloroethene (total)	540-59-0	10	10			5	5
Chloroform	67-66-3	10	10	0.92	0.86	5	5
1,2-Dichloroethane	107-06-2	10	10	1.39	0.72	5	5
2-Butanone	78-93-3	10	10	2.06	2.1	20	20
1,1,1-Trichloroethane	71-55-6	10	10	0.72	0/89	5	5
Carbon Tetrachloride	56-23-5	10	10	0.66	0.71	5	5
Vinyl Acetate	108-05-4	NA	NA	0.95	3.6	50	50
Bromodichloromethane	75-27-4	10	10	0.57	0.50	5	5
1,2-Dichloropropane	78-87-5	10	10	0.66	1.0	5	5
cis-1,3-Dichloropropene	10061-01-5	10	10	0.74	0.51	5	5
2-chloroethylvinylether	110-75-8	NA	NA	1.64	3.1	50	50
Trichloroethene	79-01-6	10	10	0.94	2.0	5	5
Dibromochloromethane	124-48-1	10	10	0.53	0.33	5	5

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Volatile Organics
with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water/Soil ug/Lor ug/kg MDL 8240	Water/ Soil ug/L or ug/kg MDL 8260	Water RL (µg/L)	Soil RL[3] (µg /Kg)
1,1,2-Trichloroethane	79-00-5	10	10	0.74	0.50	5	5
Benzene	71-43-2	10	10	0.73	0.84	5	5
trans-1,3-Dichloropropene	10061-02-6	10	10	0.59	0.29	5	5
Bromoform	75-25-2	10	10	0.76	0.36	5	5
4-Methyl-2-Pentanone	108-10-1	10	10	1.16	1.0	20	20
2-Hexanone	591-78-6	10	10	2.92	1.8	20	20
Tetrachloroethene	127-18-4	10	10	1.36	0.92	5	5
Toluene	108-88-3	10	10	1.18	0.79	5	5
1,1,2,2-Tetrachloroethane	79-34-5	10	10	0.97	1.5	5	5
Chlorobenzene	108-90-7	10	10	1.83	0.75	5	5
Ethylbenzene	100-41-4	10	10	0.70	1.3	5	5
Styrene	100-42-5	10	10	0.46	0.64	5	5
m,p-Xylene	108-38-3 106-42-3	—	—	0.96	1.0	5	5
(o-Xylene)	95-47-6			0.74	0.71	5	5
Xylene (total)	1330-20-7	10	10	0.71		5	
Acrolein	107-02-8	—	—	8.13	21.4	100	100
Acetonitrile	75-05-8	—	—	42.9	23.5	100	100
Iodomethane	74-88-4	—	—	0.63	0.69	5	5
Allyl Chloride	107-05-1	—	—		1.2	5	5
Acrylonitrile	107-13-1	—	—	5.49	8.5	100	100
2-Chloro-1,3-butadiene	126-99-8	—	—		0.85	5	5
Propionitrile	107-12-0	—	—		4.8	20	20
Diethylether	60-29-7			0.84		10	

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Volatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water/Soil ug/Lor ug/kg MDL 8240	Water/ Soil ug/L or ug/kg MDL 8260	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Methacrylonitrile	126-98-7	—	—		2.2	5	5
n-Hexane	110-54-3			0.87		5	
Ethyl Acetate	141-78-6			2.25		10	
Isobutyl Alcohol	78-83-1	—	—		380	200	200
1,4-Dioxane	123-91-1	—	—		460	500	500
Methyl Methacrylate	80-62-6	—	—		0.92	5	5
Dibromomethane	74-95-3	—	—	0.56	0.51	5	5
Ethyl Methacrylate	97-63-2	—	—		0.55	5	5
1,2-Dibromoethane	106-93-4	—	—	0.57	0.34	5	5
1,1,1,2-Tetrachlorocthane	630-20-6	—	—	0.40	0.57	5	5
trans-1,4-Dichloro-2-butene	764-41-0	—	—		3.1	5	5
1,2,3-Trichloropropane	96-18-4	—	—	3.44	0.77	5	5
1,2-Dibromo-3-chloropropane	96-12-8	—	—	1.34	1.2	10	10
Dichlorodifluoromethane	75-71-8	—	—	1.84	2.3	10	10
Trichlorofluoromethane	73-69-4	—	—	1.82	2.0	10	10
1,1,2-Trichlorotrifluorocthane	76-13-1	—	—	0.85	0.82	500	500
2,2-Dichloropropane	590-20-7	—	—	1.21	0.99	5	5
Bromochloromethane	74-97-5	—	—	—	0.54	5	5
Tetrahydrofuran	109-99-9	—	—	7.63	9.8	50	50
1,1-Dichloropropene	563-58-6	—	—	0.63	0.98	5	5
1-Butanol	71-36-3	—	—		12.6	100	100
1,3-Dichloropropane	142-28-9	—	—	0.61	0.241	5	5
Isopropylbenzene	98-82-8	—	—	0.65	0.62	5	5

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Volatile Organics
with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water/Soil ug/Lor ug/kg MDL 8240	Water/ Soil ug/L or ug/kg MDL 8260	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Cyclohexanone	108-94-1	—	—	87.6		100	100
4-Bromofluorobenzene	460-00-4	—	—		0.58	5	5
Bromobenzene	108-86-1	—	—	0.58	0.51	5	5
n-Propylbenzene	103-65-1	—	—	0.73	0.91	5	5
2-Chlorotoluene	95-49-8	—	—	0.69	0.93	5	5
4-Chlorotoluene	106-43-4	—	—	1.10	1.1	5	5
1,3,5-Trimethylbenzene	108-67-8	—	—	0.85	0.74	5	5
t-Butylbenzene	98-06-6	—	—	0.68	0.89	5	5
1,2,4-Trimethylbenzene	95-63-6	—	—	0.58	0.80	5	5
sec-Butylbenzene	135-98-8	—	—	0.82	0.82	5	5
4-Isopropyltoluene	99-87-6	—	—	0.68	0.80	5	5
1,3-Dichlorobenzene	541-73-1	—	—	0.64	0.35	5	5
1,4-Dichlorobenzene	106-46-7	—	—	1.83	0.92	5	5
n-Butylbenzene	104-51-8	—	—	0.85	0.98	5	5
1,2-Dichlorobenzene	95-50-1	—	—	0.68	0.72	5	5
1.2-Diethylbenzene	135-01-3	—	—	0.74		5	
1,2,4-Trichlorobenzene	120-82-1	—	—	1.07	0.45	5	5
Hexachlorobutadiene	87-68-3	—	—	1.02	1.2	5	5
Naphthalene	91-20-3	—	—	1.58	0.54	5	5
1,2,3-Trichlorobenzene	87-61-6	—	—	1.09	0.95	5	5

(1) CRDLs apply to analyses performed under the USEPA CLP Statement of Work OLM01.0 and its revisions only.

(2) Reporting Limits are taken from Quanterra SOP CORP-MS-0002.

(3) Quantitation limits listed for soil are based on wet weight. The quantitation limits based on dry weight as required, will be higher.

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water MDL (µg/L)	Soil MDL[3] (µg /Kg)	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Phenol	108-95-2	10	330	0.42	160	10	330
bis(2-Chloroethyl)ether	111-44-4	10	330	1.5	176	10	330
2-Chlorophenol	95-57-8	10	330	1.2	180	10	330
1,3-Dichlorobenzene	541-73-1	10	330	1.3	173	10	330
1,4-Dichlorobenzene	106-46-7	10	330	1.41	177	10	330
Benzyl Alcohol	100-51-6	NA	NA	0.93	193	10	330
1,2-Dichlorobenzene	95-50-1	10	330	1.2	176	10	330
2-Methylphenol	95-48-7	10	330	0.97	160	10	330
bis(2-chloroisopropyl)ether	108-60-1	10	330	3.1	528	10	330
4-Methylphenol	106-44-5	10	330	0.69	170	10	330
n-Nitroso-di-n-Propylamine	621-64-7	10	330	1.1	170	10	330
Hexachloroethane	67-72-1	10	330	0.98	16	10	330
Nitrobenzene	98-95-3	10	330	1.2	132	10	330
Isophorone	78-59-1	10	330	1.4	136	10	330
2-Nitrophenol	88-75-5	10	330	1.4	177	10	330
2,4-Dimethylphenol	105-67-9	10	330	0.79	112	10	330
Benzoic Acid	65-85-0	NA	NA	28	308	50	1600
bis(2-Chloroethoxy) Methane	111-91-1	10	330	1.6	152	10	330
2,4-Dichlorophenol	120-83-2	10	330	1.2	149	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330	1.1	160	10	330
Naphthalene	91-20-3	10	330	1.4	157	10	330
4-Chloroaniline	106-47-8	10	330	3.5	94.8	20	670
Hexachlorobutadiene	87-68-3	10	330	0.89	156	10	330

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water MDL (µg/L)	Soil MDL[3] (µg /Kg)	Water RL (µg/L)	Soil RL[3] (µg /Kg)
4-Chloro-3-Methylphenol	59-50-7	10	330	1.1	131	20	670
2-Methylnaphthalene	91-57-6	10	330	1.5	149	10	330
Hexachlorocyclopentadiene	77-47-4	10	330	1.0	127	50	1600
2,4,6-Trichlorophenol	88-06-2	10	330	1.2	116	10	330
2,4,5-Trichlorophenol	95-95-4	25	800	0.76	116	10	330
2-Chloronaphthalene	91-58-7	10	330	1.4	149	10	330
2-Nitroaniline	88-74-4	25	800	2.1	106	50	1600
Dimethyl Phthalate	131-11-3	10	330	1.3	122	10	330
Acenaphthylene	208-96-8	10	330	1.5	142	10	330
2,6-Dinitrotoluene	606-20-2	10	330	1.3	129	10	330
3-Nitroaniline	99-09-2	25	800	1.0	83.8	50	1600
Acenaphthene	83-32-9	10	330	1.6	148	10	330
2,4-Dinitrophenol	51-28-5	25	800	2.3	73.4	50	1600
4-Nitrophenol	100-02-7	25	800	2.1	87.0	50	1600
Dibenzofuran	132-64-9	10	330	1.4	129	10	330
2,4-Dinitrotoluene	121-14-2	10	330	1.5	110	10	330
Diethylphthalate	84-66-2	10	330	1.6	99.5	10	330
4-Chlorophenyl-phenylether	7005-72-36	10	330	1.6	141	10	330
Fluorene	86-73-7	10	330	1.5	121	10	330
4-Nitroaniline	100-01-6	25	800	1.5	88.3	50	1600
4,6-Dinitro-2-Methylphenol	534-52-1	25	800	1.2	71.0	50	1600
n-Nitrosodiphenylamine	86-30-6	10	330	1.5	97.7	10	330
4-Bromophenyl-phenylether	101-55-3	10	330	1.9	111	10	330

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg/Kg)	Water MDL (µg/L)	Soil MDL[3] (µg/Kg)	Water RL (µg/L)	Soil RL[3] (µg/Kg)
Hexachlorobenzene	118-74-1	10	330	1.8	85.3	10	330
Pentachlorophenol	87-86-5	25	800	1.6	41.2	50	1600
Phenanthrene	85-01-8	10	330	1.9	78.8	10	330
Anthracene	120-12-7	10	330	1.6	75.2	10	330
Carbazole	86-74-8	10	330	1.4	NA	10	330
Di-n-Butylphthalate	84-74-2	10	330	1.6	81.4	10	330
Fluoranthene	206-44-0	10	330	1.6	67.4	10	330
Pyrene	129-00-0	10	330	1.6	70.1	10	330
Butylbenzylphthalate	85-68-7	10	330	2.2	82.8	10	330
3,3'-Dichlorobenzidine	91-94-1	10	330	3.1	95.4	50	1600
Benzo(a)anthracene	56-55-3	10	330	1.9	79.8	10	330
Chrysene	218-01-9	10	330	2.1	75.2	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330	2.9	126	10	330
Di-n-Octylphthalate	117-84-0	10	330	1.8	114	10	330
Benzo(b)fluoranthene	205-99-2	10	330	2.0	83.9	10	330
Benzo(k)fluoranthene	207-08-9	10	330	1.1	105	10	330
Benzo(a)pyrene	50-32-8	10	330	2.2	80.5	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330	2.5	67.1	10	330
Dibenzo(a,h)anthracene	53-70-3	10	330	2.3	94.4	10	330
Benzo(g,h,i)perylene	191-24-2	10	330	2.3	37.6	10	330
Additional Appendix IX Compounds							
N-nitrosodimethylamine	62-75-9	---	---	1.3	81.6	10	330
Pyridine	110-86-1	---	---	0.96	146	20	660

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water MDL (µg/L)	Soil MDL[3] (µg /Kg)	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Additional Appendix IX Compounds							
2-Picoline	109-06-8	—	—	5.7	87	20	660
N-Nitrosomethylethylamine	10595-95-6	—	—	5.2	113	10	330
Methyl Methanesulfonate	66-27-3	—	—	1.5	67D	10	330
N-Nitrosodiethylamine	55-18-5	—	—	2.9	77	10	330
Ethyl Methanesulfonate	62-50-0	—	—	3.3	65	10	330
Aniline	62-53-3	—	—	2.7	94.1	10	330
N-Nitrosopyrrolidine	930-55-2	—	—	3.2	61	10	330
Acetophenone	98-86-2	—	—	3.4	69	10	330
o-Toluidine	95-53-4	—	—	3.2	81	20	660
N-Nitrosomorpholine	59-89-2	—	—	2.9	61	10	330
N-Nitrosopiperidine	100-75-4	—	—	4.2	84	10	330
o,o,o-Triethylphosphorthioate	126-68-1	—	—	5.0	96	50	1600
a,a-Dimethylphenethylamine	122-09-8	—	—	TBD	TBD	50	1600
2,6-Dichlorophenol	87-65-0	—	—	5.0	129	10	330
Hexachloropropene	1888-71-7	—	—	5.2	92.2	100	3300
p-Phenylenediamine	106-50-3	—	—	TBD	121	100	3300
N-Nitrosodi-n-butylamine	924-16-3	—	—	5.3	82	10	330
Safrole	94-59-7	—	—	4.4	94	20	660
1,2,4,5-Tetrachlorobenzene	95-94-3	—	—	4.9	130	10	330
Isosafrole	120-58-1	—	—	4.1	138	20	660
1,4-Naphthoquinone	130-15-4	—	—	1.9	54.1	50	1600

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg/Kg)	Water MDL (µg/L)	Soil MDL[3] (µg/Kg)	Water RL (µg/L)	Soil RL[3] (µg/Kg)
1,3-Dinitrobenzene	99-65-0	—	—	3.8	98	10	330
Pentachlorobenzene	608-93-5	—	—	3.4	86	10	330
1-Naphthylamine	134-32-7	—	—	4.4	73	10	330
2,3,4,6-Tetrachlorophenol	58-90-2	—	—	3.7	213	10	330
2-Naphthylamine	91-59-8	—	—	4.4	72	10	330
Thionazin	297-97-2	—	—	3.5	123	50	1600
5-Nitro-o-toluidine	99-55-8	—	—	4.4	84	20	660
Sulfotepp	3689-24-5	—	—	4.6	80	50	1600
1,3,5-Trinitrobenzene	99-35-4	—	—	22	693	50	1600
Diallate (peak 1)	2303-16-4	—	—	6.4	147	20	660
Phorate	2310-17-0	—	—	4.2	100	50	1600
Phenacetin	62-44-2	—	—	3.5	69	20	660
Diallate (peak 2)	2303-16-4	—	—	7.3	126	20	660
Dimethoate	60-51-5	—	—	3.7	321	20	660
Pentachloronitrobenzene	82-68-8	—	—	4.0	122	50	1600
4-Aminobiphenyl	92-67-1	—	—	3.7	71.	50	1600
Pronamide	23950-58-5	—	—	3.9	83	20	660
Dinoseb	88-85-7	—	—	4.2	89	20	660
Disulfoton	298-04-4	—	—	3.3	57	50	1600
Methyl Parathion	298-00-0	—	—	3.5	298	50	1600
4-Nitroquinoline 1-oxide	56-57-5	—	—	2.8	291	100	3300

n:\qa\qa\mdl\mdllist

ST. LOUIS LABORATORY
CLP or Hazardous Substance List for Semivolatile Organics with Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL) and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water MDL (µg/L)	Soil MDL[3] (µg /Kg)	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Parathion	56-38-2	—	—	3.7	98	50	1600
Methapyrilene	91-80-5	—	—	26	250	50	1600
Isodrin	465-73-6	—	—	4.1	93	10	330
Aramite (peak 1)	140-57-8	—	—	7.6	365	20	66
Aramite (peak 2)	140-57-8	—	—	7.6	447	20	660
p-(Dimethylamino)azobenzene	60-11-7	—	—	4.8	130	20	660
Chlorobenzilate	510-15-6	—	—	4.1	84	10	330
Famphur	52-85-7	—	—	49	2380	100	3300
Kepone	143-50-0	—	—	30	TBD	100	3300
3,3'-Dimethylbenzidine	119-90-4	—	—	17	173	50	1600
2-Acetylaminofluorene	53-96-3	—	—	4.3	89	100	3300
7,12-Dimethylbenz(a)-anthracene	57-97-6	—	—	4.4	92	20	660
3-Methylcholanthrene	56-49-5	—	—	17	265	20	660
Tributyl phosphate	126-73-8	—	—	21	305	100	3300

Footnotesnew

(1) CRDLs apply to analyses performed under the USEPA CLP Statement of Work OLM01.0 and its revisions only.

(2) Reporting Limits are taken from Quanterra SOP CORP-MS-0001.

(3) Quantitation limits listed are for low soil procedure, and are based on wet weight. The quantitation limits based on dry weight as required, will be higher. The quantitation limits for medium level soil procedures will be higher by a factor of 30 than the low soil limits.
TBD = To be determined

ST. LOUIS LABORATORY
Pesticides and PCBs
Contract Required Detection Limits (CRDL)[a],
Method Detection Limits (MDL), and
Reporting Limits (RLs)[a]

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[a] (µg /Kg)	Water MDL (µg/L)	Soil MDL[a] (µg /Kg)	Water RL (µg/L)	Soil RL[a] (µg /Kg)
a-BHC	319-84-6	0.05	1.7	0.006	0.674	0.05	1.7
b-BHC	319-85-7	0.05	1.7	0.019	0.317	0.05	1.7
d-BHC	319-86-8	0.05	1.7	0.004	0.210	0.05	1.7
g-BHC (Lindane)	58-89-9	0.05	1.7	0.009	0.458	0.05	1.7
Heptachlor	76-44-8	0.05	1.7	0.011	0.75	0.05	1.7
Aldrin	309-00-2	0.05	1.7	0.011	0.533	0.05	1.7
Heptachlor Epoxide	1024-57-3	0.05	1.7	0.005	0.269	0.05	1.7
Endosulfan I	959-98-8	0.05	1.7	0.007	0.221	0.05	1.7
Dieldrin	60-57-1	0.10	3.3	0.008	0.202	0.05	1.7
4,4'-DDE	72-55-9	0.10	3.3	0.005	0.320	0.05	1.7
Endrin	72-20-8	0.10	3.3	0.005	0.541	0.05	1.7
Endosulfan II	33213-65-9	0.10	3.3	0.009	0.249	0.05	1.7
4,4'-DDD	72-54-8	0.10	3.3	0.007	0.257	0.05	1.7
Endosulfan sulfate	1031-07-8	0.10	3.3	0.039	0.234	0.05	1.7
4,4'-DDT	50-29-3	0.10	3.3	0.010	0.261	0.05	1.7
Methoxychlor	72-43-5	0.50	17.0	0.017	0.64715	0.10	3.3
Endrin Aldehyde	7421-93-4	0.10	3.3	0.010	0.351	0.05	1.7
Endrin Ketone	53494-70-5	0.10	3.3	0.08	0.267	NA	NA
a-Chlordane	5103-71-9	0.05	1.7	0.011	0.240	NA	NA
g-Chlordane	5103-74-2	0.05	1.7	0.014	0.171	NA	NA
Chlordane (Tech)	57-74-9	NA	NA	0.098	3.02	0.50	17
Toxaphene	8001-35-2	5.0	170.0	0.136	3.18	2.0	67

ST. LOUIS LABORATORY
Pesticides and PCBs
Contract Required Detection Limits (CRDL)[1], Method Detection Limits (MDL), and Reporting Limits (RLs)[2]
(Continued)

Analyte	CAS Number	Water CRDL (µg/L)	Soil CRDL[3] (µg /Kg)	Water MDL (µg/L)	Soil MDL[3] (µg /Kg)	Water RL (µg/L)	Soil RL[3] (µg /Kg)
Aroclor 1016	12674-11-2	1.0	33.0	0.198	8.93	1.0	33
Aroclor 1221	11104-28-2	2.0	67.0	0.198	8.93	1.0	33
Aroclor 1232	11141-16-5	1.0	33.0	0.198	8.93	1.0	33
Aroclor 1242	53469-21-9	1.0	33.0	0.198	8.93	1.0	33
Aroclor 1248	12672-29-6	1.0	33.0	0.198	8.93	1.0	33
Aroclor 1254	11097-69-1	1.0	33.0	0.189	4.12	1.0	33
Aroclor 1260	11096-82-5	1.0	33.0	0.189	4.12	1.0	33

Footnotes

(1) CRDLs apply to analyses performed under the USEPA Scope of Work OLM01.0 and its revisions.

(2) Reporting Limits are taken from Quanterra SOP CORP-GC-0001.

(3) Quantitation limits listed for soil are based on wet weight. The quantitation limits based on dry weight as required, will be higher.

Note: MDLs have been performed on two columns, and the MDL given in the table is the higher of the two values.

NA = Not Applicable
ND = Not Determined

ATTACHMENT 5.4
QA/QC FOR SAMPLES AND LABORATORY

Field Quality Control Procedures
To verify the performance of field sampling activities, QC samples are collected for laboratory analysis. Field QC samples will include the following types of samples:

- Field duplicates
- Blanks:
  - Field rinsate blank
  - VOA trip blank
- Matrix spike/matrix spike duplicates (MS/MSD)

Field QC samples will have discrete sample numbers and will be analyzed as if they were original field samples. Results for these samples will be included in the analytical report.

Field Duplicates
A duplicate is a sample that is collected in parallel with its original sample for each analytical parameter. The procedure for obtaining the duplicate is identical to that for its original. The same container type, preservative, and sampling technique are used.

Field duplicate samples will be collected at a frequency of one per group of twenty or fewer investigative samples of similar matrix for samples requiring organic analysis. For samples requiring inorganic (metals) analysis, the frequency of duplicates will be one per group of ten or fewer samples.

Field Rinsate Blank Samples
Field rinsate blank samples are not required for groundwater samples where dedicated bailers are employed for sample collection. Otherwise, field rinsate blank samples will be collected at a frequency of one per group of 20 or fewer investigative samples for all aqueous samples. Field rinsate blank samples are prepared by running analyte-free deionized water through the sample collection equipment (bailer, pump, etc.), and placing the rinsate in appropriate sample containers for analysis.

OA Trip Blank

One trip blank sample which consists of two 40-ml glass vials shall be shipped with each shipping cooler of VOA water samples. VOA trip blanks will be laboratory prepared with ASTM Type II reagent-grade water. Trip blank samples are prepared prior to the sampling event in the actual sample containers and are kept with the VOA investigative samples throughout the sampling event. They are packaged for shipment with other VOA samples and sent for analysis. The sample containers are not opened until the time of analysis. Trip blanks are used to assess sample contamination during investigative sample shipping. Trip blank samples will only be submitted in the event that VOC samples are collected.

Laboratory QA/QC Program

QC data are necessary to determine precision and accuracy and to demonstrate the absence of interference and/or contamination of glassware and reagents. Laboratory-based QC will constitute at least 10 percent of each data set generated and may consist of blanks, replicates, standards, matrix spikes, and surrogate spikes. One matrix spike/matrix spike duplicate (MS/MSD) will be provided at a frequency of one in every 20 samples. EPA-recommended spiking solutions will be used for gas chromatography/mass spectrometry (GC/MS) analyses. Surrogates will be added to all samples requiring GC/MS analysis. One method blank will be run for every 20 samples analyzed. Blank samples will be analyzed to assess possible contamination and determine what corrective measures need to be taken.

APPENDIX B

SURFACE WATER AND SEDIMENT SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME		1	4	1	0	
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee 773120

SAMPLE NO. TSW01980204

SAMPLE LOCATION TSW01

SAMPLE TYPE Grab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, Partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
GLASS	4x 1Q
Plastic	1Q

COMMENTS:

2x 1Q GLASS FOR THYDRO

2x 1Q GLASS FOR PCB

1Q PLASTIC For Metals

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	0	9	3	5		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TSW02980204

SAMPLE LOCATION TSW02

SAMPLE TYPE Crab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
GLASS	4X 1l
Plastic	1l

COMMENTS:

2 x 1l GLASS FOR TPH/DRO

2 x 1l GLASS FOR PCB

1l PLASTIC FOR Metals

PREPARED BY: K Clegg Bell

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8	
TIME	1	3	1	0			
PAGE 1 OF 1							
PAGE							
PROJECT NO. 773120							

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CBSW03980204

SAMPLE LOCATION CBSW03

SAMPLE TYPE —

COMPOSITE ___YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
GLASS	7 x 1ℓ
	3 x 40
Plastic	1 x 1ℓ

COMMENTS:

5 x 1ℓ GLASS For Semi VOA, PCB
2 x 1ℓ GLASS For TPH/D&O
3 x 40 GLASS For VOA
1 x 1ℓ Plastic For metals

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	1	0	4	5		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CB SW04980204

SAMPLE LOCATION CBSW04

SAMPLE TYPE Grab Water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, Partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
GLASS	6x1L
	3x 40ml
PLASTIC	1L

COMMENTS:

4x1L GLASS FOR SEMI VOA PCBS

2x1L GLASS FOR TPH/DRO

3x40ml GLASS FOR VOA

1L PLASTIC FOR metals

PREPARED BY: K. Clegg

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	1	5	4	0		
PAGE	1	OF	1			
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CBSW05980204

SAMPLE LOCATION CBSW05

SAMPLE TYPE Grab Water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, Partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 1L

COMMENTS:

Samples for TPH/DRO

PREPARED BY: Chuzy Ott

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	2	0	5		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. OF06SW01980205 Dup

SAMPLE LOCATION OF06SW01

SAMPLE TYPE Grab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, cloudy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	10 x 1l
	4 x 40ml
PLASTIC	2 x 1l

COMMENTS:

10 x 1l For PCB, SCM, VOA, TRH/DRO

4 x 40 For VOA

2 x 1l For metals

Sample For MS/MSD

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	2	0	5		
PAGE	1 OF 1					
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OF06SW01980205

SAMPLE LOCATION OF06SW01

SAMPLE TYPE Grab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold, cloudy.

CONTAINERS USED	AMOUNT COLLECTED
Glass	2 x 40 ml vials
	7 $ x 1000 ml
Plastic	1 l

COMMENTS:

2 x 40 ml's for VOA

1/21/98 7 $ x 1 l for PCB, Semi VOA, TPH/DRO

1 x 1 l for metals

PREPARED BY: R. Gregory Britt

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	8	9	8
TIME	1	5	0	0		
PAGE 1 OF 1						
PAGE						
PROJECT NO.						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee 773120.002000000 (p: 1/28/98)

SAMPLE NO. BG-SD-01

SAMPLE LOCATION South of Damariscotta off Maine Rt 129 off Clark Cove Rd (see drawing + map)

SAMPLE TYPE Sediment

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE Surface Sediment during outgoing tide

WEATHER Partly Cloudy

CONTAINERS USED	AMOUNT COLLECTED
1	250 ml bottle filled

COMMENTS: Turned off Clark Cove Rd onto Mud Fog Lane (#319) into a small parking lot. Took sample from an area with receding tide water line. The spot sampled was in a very rocky (1-4 meter size) shore area covered with sea kelp. Walked along the shore about 50 yards from the commercial dock directly in front of a fish dock. The spot had small (≤ 1-2 mm) rocks in fine sediment soil. The sample location was 9 ft from the water line and 64 ft from the maximum shore line and about 3/4 of the way between the commercial dock & residential dock (closest to the residential dock). Sampling time was at 1500.

See map & drawing Attached (over)

(over)

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	8	9	8
TIME	1		6	0	5	
PAGE 1 OF 1						
PAGE						
PROJECT NO.						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee 77320.02000000

SAMPLE NO. BGSD02

SAMPLE LOCATION Southwest of Bath/Brunswick off Highway 123 24 (W) 11/18/98

SAMPLE TYPE Sediment

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE Surface/intertidal sediment

WEATHER Partly Cloudy

CONTAINERS USED	AMOUNT COLLECTED
1	f. filled 250ml jar

COMMENTS:

Traveled along highway 24 south past Wildwood Rd (right side) & then Lard circle (left side) and about ½ mile later turned right onto a dead end road that had a (W) 11/18/98 bridge across the stream with the parking lot close to the bank. Map on the back of this sheet shows the sample location which was 3 to 4 inches from the water line & 72 ft from the maximum shore line. Sediment was dark/fine & wet. Time was 1605

See attached map & drawing (over)

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	1	3	3	0		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CBSD03980204

SAMPLE LOCATION CBSD03

SAMPLE TYPE Crab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE ~~WD 4/1/98~~ 0-6"

WEATHER Cold, Partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 250
	2 x 40

COMMENTS: 250ml's for ~~FDP~~ TPA/On

metals, semi VOA, ~~VOA 2/4/98~~ PCB

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	1	5	4	0		
PAGE	1 OF 1					
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CBSD05980204

SAMPLE LOCATION CBSD05

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 4/14/98 0-6"

WEATHER Cold, Partly Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber glass	250 ml

COMMENTS:

Sample collected for TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	8
TIME	1	6	3	0		
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CBSD06980204

SAMPLE LOCATION CBSD06

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Partly Sunny

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	250 ml

COMMENTS:

Sample Collected From under grate in ROAD Not enough water to Sample 250 mls Sediment For TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	1	4	0		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. FBSD01980205

SAMPLE LOCATION FBSD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Glass	2x40
	2x250

COMMENTS: 2x40 FOR VOA
2x250 FOR RCB TPH/DRO
Semivoa, Metals

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	1	5	0		
PAGE ___ OF ___						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OF05SD01980205

SAMPLE LOCATION OF05SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ___ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 40
	2 x 250

COMMENTS:

Combined outfalls 005 and 006 into one sample area took 2 samples.

~~2 x 40 for VOA~~ into 2/23/98

2 x 250 for ~~Semi, VOA~~ PCB metals, TPHD RO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	1	5	0		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. OF05SD029&02O5

SAMPLE LOCATION OF05SD01 / OF06SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0 - 6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 40
	2 x 250

COMMENTS:

Combined OUTFALLS 005 AND 006 TOOK 2 Samples

~~2x40 MLS FOR VOA~~ MTO 2/25/98

2x250 FOR ~~SEMI VOA~~, PCB

Metals, TPH/DRO

PREPARED BY: Peggy Pitt

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	6	2	0	6	9	8
TIME	1	1		4	5	
PAGE ___ OF ___						
PAGE						1
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME M

SAMPLE NO. SF05SD019B0206

SAMPLE LOCATION Ditch #5 SF05-SD01

SAMPLE TYPE [redacted] Sediment

COMPOSITE ___YES ___NO

COMPOSITE TYPE ___

DEPTH OF SAMPLE ___

WEATHER 30°F Snow wintry

CONTAINERS USED	AMOUNT COLLECTED
1	250 Amber
2	40 ml Clear

COMMENTS:

Collect Sed. for PCBs, TPH/DRO + VOC.

PREPARED BY: M. Dellbaugh

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	1	0	5		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OF08SD01980205

SAMPLE LOCATION OF08SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	8x40
	4x250

COMMENTS: Collected in Duplicate also for MS/MSD

8x40 For VOA

4x250 For PCB, Semi, VOA, TPH/DRO Metals.

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	1	0	5	0		
PAGE	1	OF	1			
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. OF09SD01980205

SAMPLE LOCATION OF09SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ___ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER cold, cloudy.

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS:

2x40 For VOA
2x250 For Metals TPH/DRO
Semi VOA, PCB

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	0	9	4	0		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OF10SD01980205

SAMPLE LOCATION OF10SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, cloudy, windy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x250
	2x40

COMMENTS: 2x250 FOR Metals, Semi VOA
PCB, TPH HORO
2x40 VOA

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	0	9	2	5		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OF11SD01980205

SAMPLE LOCATION OF11SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy, Windy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS:

2x40 VOA

2x250 metals, Sem, VOA, PCB

TPH/DRO

PREPARED BY: Peggy Britt

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	0	9	2	0		
PAGE	1	OF	1			
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. OF12SD01980205

SAMPLE LOCATION OF12SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy, Windy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	1X250

COMMENTS:

1X250TPHDRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	5	9	8
TIME	0	9	1	0		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. OFN12-SD01980205

SAMPLE LOCATION OFN12-SD01

SAMPLE TYPE Grab Sediment

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy, windy

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	1x250
	MD 2/5/98

COMMENTS: 2x40 VOA

MJO 1x250 FOR TPH/DRO

2/5/98

PREPARED BY: _____

APPENDIX C

GROPROBE BORING LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: Maine Yankee Atomic Power	
BORING NUMBER: BGGP01	COORDINATES: NA	DATE: 1/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: Matt Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/27/98
DRILLING METHODS: GeoProbe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (-)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100%	SANDY SILT - Brown w/ gray Mottling, Loose, Moist, Micaceous, Abundant Organic Matter. 0-6"	ML		Collected Soil From 0-6"
5	Soil 4-5'		100%	5'			Collected Soil From 4-5"
				Boring Terminated @ 5' Backfilled w/ granular Bentonite			
				Additional Probes For GTS Duratec = 4 X 0-6"			

NOTES: Driller: - Steve Law

Drilling Equipment: Geoprobe 9600 mounted on GMC 3500 w/ 4' Sampling Tubes

Contractor - Geosearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: BGGP02	COORDINATES: NA	DATE: 1/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth NA Date/Time NA	DATE COMPLETED: 1/27/98
DRILLING METHODS: GeoProbe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	Silt - Light Brown w/ gray mottling stiff, moist, Fe Oxide staining	ML		Collected Soil From 0-6"
	soil 4-5'		100	5'			Collected Soil From 4-5'
5				Bottom Boring Terminated @ 5' Backfilled w/ granular Bentonite Additional Probes For GTS = 4 X 0-6"			

NOTES: Driller: STEVE LAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4" Sampling Tubes

Contractor - GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: Maine Yankee Atomic Power	
BORING NUMBER: BGGP03	COORDINATES: NA	DATE: 1/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: Matt Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/27/98
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY % ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	Clayey Silt - Brown w/ gray mottling, Slight plasticity, Abundant Fe Oxide staining, micaceous, moist Abundant organic matter	ML		Collected Soil From 0-6"
5	Soil 4-5"		100	5'			Collected Soil From 4-5"
				Boring Terminated @ 5' Backfilled w/ Granular Bentonite Additional Probes For GTS Pulled 4 X 0-6"			

NOTES: Driller: STEVE LAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4' Sampling Tubes

Contractor: GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: Maine Yankee Atomic Power		
BORING NUMBER: MTGP01	COORDINATES: NA	DATE: 1/28/98	
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/28/98	
ENGINEER/GEOLOGIST: Matt Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/28/98	
DRILLING METHODS: GeoProbe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1	

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	75	0-12" Silty SAND MATRIX mixed w/ Fill MATERIAL- Quartzite, Schists, REFUSAL @ 22"			3" = ASPHALT w/ 2" gravel BASE Collected Soil @ 0-6"
5				- ATTempted 2 additional Borings REFUSAL @ 220" BackFill w/ granular Bentonite Additional Probes For GTS Duratek = 2 X 0-6"			

NOTES: Driller - STEVE IAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4' Sampling tubes

Contractor: Grosearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: Maine Yankee Atomic Power	
BORING NUMBER: MTGP02	COORDINATES: NA	DATE: 1/29/97
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/29/97
ENGINEER/GEOLOGIST: Matt Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/29/97
DRILLING METHODS: GeoProbe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY % ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6" Soil	NA	100	Silty SAND, Brown, loose, Mixed w/ Fill, Material (Concrete) 4.5'	SP		0-6" Collected Soil sample
5			100	WEATHERED SCHIST- very sandy Micaceous, dry, STRONG Foliations 7'	SW		
			100	Silty Clay - gray, Abundant Fc oxide staining 12'	ML		9-10' Collected Soil sample ▽@9.5 (Saturated soil) Collected 1L H2O
10				Boring Terminated @ 12' Back Fill w/ granular Bentonite Additional Probes for GTS Collected 2X 3-4' 2X 9-10'			

NOTES: Driller: Steve IAW
Drilling Equipment: GeoProbe 9600 Mounted on GMC 3500 w/ 4" Sampling Tubes
Contractor: GeoSearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER		
BORING NUMBER: BPGP02	COORDINATES: NA	DATE: 1/30/98	
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/30/98	
ENGINEER/GEOLOGIST: MATT Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/30/98	
DRILLING METHODS: Geoprobe 9650 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1	

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
0	Soil 0-4'	NA	100	Clayey Silts - Light Brown w/ Abundant Fe + Mn Oxide Staining	ML		Grassy Surface Covered w/ 4" Snow Collected Soil 0-6"
5	Soil 4-8'		100				Collected Soil 4-8'
				@ 9' - Very Stiff - increasing Clay Content, Very Moist 12'			Collected Soil 11-12' ▽ 11'
10	Soil 10-11'		100				
			100	Clay - gray green, Med. Plasticity, wet 16'	CL		
15	Soil 14-15'						Collected Soil 14-15'
				Terminated boring @ 16' Backfilled w/ granular bentonite			
				Additional Probes For GTS Analysis 1 X 14-15' 2 X 0-6"			
				Attempted to Collect H2O - Sampling Tube Clogging w/ Silts + Clay Mud			

NOTES: Driller: STEVE LAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4" Sampling Tube

Contractor: - GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: ~~BPGP01~~ BPGP01	COORDINATES: N/A	DATE: 1/27/98
ELEVATION:	GWL: Depth N/A Date/Time N/A	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth N/A Date/Time N/A	DATE COMPLETED: 1/27/98
DRILLING METHODS: Geoprobe 9600 Direct PUSH W/ Hydraulic HAMMER		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY % ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
0	So.1 0-6"		100	Clayey Silts - GRAY w/ Abundant Fe Oxide STAINING, MOIST, STIFF Slight plasticity	ML		GRASS SURFACE Collected Soil Sample 0-6"
5	So.1 4-8'		100	@ 7.5' Abundant Mn Staining			▽ ~ 8'
10			50	12'			
				Boring Terminated @ 12' Backfill w/ Granular Bentonite Additional SAMPLES FOR GTS Duratec - 11.5' — 12.0' 4 X 0-6" - Attempted to Collect H2O Sample Pump + Sampling Tube Clogged w/ Silt + mud			

NOTES: Driller STEVE LAW

Drilling Equipment: Geoprobe 7600 Mounted on GMC 3500 w/ 4" sampling tube.

Contractor: GCO Search

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: NMPNS/YANKEE ATOMIC POWER	
BORING NUMBER: ELGP02	COORDINATES: N/A	DATE: 1/30/97
ELEVATION: NA	GWL: Depth N/A Date/Time N/A	DATE STARTED: 1/30/97
ENGINEER/GEOLOGIST: MATTOverbaugh	Depth N/A Date/Time N/A	DATE COMPLETED: 1/30/97
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	Silty Clay - Greenish gray Abundant Fe Oxide Staining	ML		Collected Soil Sample 0-6"
5	Soil 5-6'		100	Poorly GRADED SAND FILL (Leach Field) Red Brown, medium, moist 8'	SP		Collected Soil Sample 5-6'
				TERMINATED BORING @ 8' Backfilled w/ Granular Bentonite Additional SAMPLES for GTS Duratec. 2 X 0-6" 1 @ 7-8" No H2O Encountered in Leach Field Material			

NOTES: Driller - Steve Iaw
Drilling Equipment - Geoprobe 9600 Mounted on GMC 9600 w/ 4- Sampling Tubes
Contractor: Geoservices

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: DCA GP01	COORDINATES: NA	DATE: 1/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: MATT Queitsch	Depth NA Date/Time NA	DATE COMPLETED: 1/27/98
DRILLING METHODS: Geoprobe 5400 Direct PUSH w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	gravelly SAND - Parking lot Fill Material 3'	SP		Surface 3" gravel HARD Drilling Collected soil sample 0-6"
	Soil 4-8'		100	Sandy Silt - Dark brown w/ gray Mottling, STIFF, Moist, Fe Staining 7'	ML		4-8' Collected Soil Sample
	Soil 8-9'		100	Clay - greenish gray, very STIFF Mod. Plasticity 12'	CL		▽ 9' Saturated soils 8-9' Collected Soil Sample
				TERMINATED Boring @ 12' BACKFILLED w/ granular Bentonite Additional SAMPLES & Probing for GTS Duratec 2 X 0-6" 11-12" w/ Muddy H2O NOTE: Clay exhibits - Preferential Flow along CRACKS, Although they do not yield enough H2O ~~to~~ For Practical H2O SAMPLING.			PHIL GARRETT - "I do not WANT time pumping thick Muddy H2O"

NOTES: Driller: STEVE IAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 4W/ 4' SAMPLING tubes

CONTRACTOR GEOSEARCH

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: DCAGP02	COORDINATES: NA	DATE: 1/31/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/31/98
ENGINEER/GEOLOGIST: MATT Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/31/98
DRILLING METHODS: Geoprobe 9600 Direct PUSH w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6' Soil	NA	100	GRAVELLY SAND FILL - RED Brown - Loose - 4.5'	SP		Hand Drilling Soil Sample 0-6'
5	4-8' Soil		100	SANDY SILT - Dark brown, STIFF, MOIST 6'	ML		
				CLAY - greenish gray, STIFF, mod. Plasticity, WET - (Preferential Flow)	CL		Soil Sample 4-8'
10	8-9' Soil		100	② 9" - SANDY LAYER ≈ 3" THICK Dry -			Soil sample 8-9'
15	14-15 Soil		100	VERY DENSE Geoprobe HAVE difficulty TIME 16'			Soil SAMPLE 14-15' HAND Probing
				TERMINATED Boring @ 16' NO Significant H2O Encountered Can't Pump Existing Mud + H2O Backfill w/ granular Bentonite Additional Samples For GTS Duratec = 2 X 0-6"			

NOTES: Driller: STEVE LAW

Drilling Equipment: Geoprobe 9600 mounted ON GMC 9600 w/ 4" Sampling tubes

Contractor: GeoSearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: CFGP05	COORDINATES: NA	DATE: 1/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/27/98
ENGINEER/GEOLOGIST: MATTOVERHAUGH	Depth NA Date/Time NA	DATE COMPLETED: 1/27/98
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic HAMMER		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (-)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	Sandy Silt - Dark Brown w/ Fe Oxide Staining, Stiff, Moist	ML		Glass surface Soil Sample 0-6"
5	Soil 4-8		50	6" Clay - Gray, Stiff, Moderate Plasticity Moist	CL		Soil Sample 4-8"
10	Soil 9-11"		100	12"			Soil 9-11" Pills Saturated Soil - No Recoverable H_2O
				Refusal - @ 12" Backfill w/ Granular Bentonite Additional samples for GTS 8 X 0-6" 2 X 11-12"			

NOTES: Driller - Steve Law

Drilling Equipment - Geoprobe 9600 Mounted on GMC 3500 w/ 4" Sampling tube

Contractor Geosearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: CFGP04	COORDINATES: NA	DATE: 11/27/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 11/27/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth NA Date/Time NA	DATE COMPLETED: 11/27/98
DRILLING METHODS: Geoprobe DirectPush w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6" Soil	NA	~~100~~ 75	Fill Material - Concrete mixed w/ silty sand, Dark Brown, Moist	SP		GLASS SURFACE Soil SAMPLE 0-6"
	4-7' Soil		100	5' CLAY - Greenish gray - STIFF, very Moist, Moderate plasticity 7'	CL		4-7 - Soil sample
			25	REFUSAL @ 7' Moved Rig 2' EAST - Attempt to Probe Deeper - Refusal at 10'	CL		Soil Sample 9-10'
				Additional SAMPLE & Probes For GTS DUATEC. =1X6-7' 4 X 0-6" BACKFILLED W/ GRANULAR Bentonite.			

NOTES: DRILLER: STEVE LAW

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4' sampling tube

Contractor: GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120.	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: ELGP01	COORDINATES:	DATE: 1/31/98
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 1/31/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth Date/Time	DATE COMPLETED: 1/31/98
DRILLING METHODS: Geoprobe 9600 / Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY % ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
		NA	100	SANDY Silt - Brown, Abundant organic MATTER - MOIST	ML		WEEDS GRASS SURFACE
5	Soil 4-8'		100	6' Silty SANDY - Red Brown - mixed w/ SMALL gravel Fragments MOIST (LEACH Field material)	SP		Soil sample 6-7'
10				TERMINATED Boring @ 8' Backfill w/ granular Bentonite			
				Additional SAMPLES For GTS Duplicate 1 X 7-8'			

NOTES: Driller: STEVE IAW
Drilling Equipment - Geoprobe 9600 Mounted on GMC 3500
Contractor - GeoSearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE		
BORING NUMBER: CFGP02	COORDINATES: NA	DATE: 2/1/98	
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 2/1/98	
ENGINEER/GEOLOGIST: MATTOCKS	Depth NA Date/Time NA	DATE COMPLETED: 2/1/98	
DRILLING METHODS: GeoProbe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1	

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (-)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6' Soil	NA	100	SAND Silt - Brown - w/ Abundant Organic matter, STIFF (TOP 3" Frozen) Fill material, glass, wood	ML		GRASS & weed SURFACE Covered by 6" Snow Collected Soil 0-6"
5	4-8' Soil		100	Thin ⑦6.5 Concrete slab 8.5			Collected Soil SAMPLE 4-8'
							9-11' No Recovable H2O-
10	9-11' 9-11' Dup		100	CLAY - greenish gray - wet very SOFT, Mod plasticity	CL		9-11' Soil sample + Duplicate For MS/MSD
				Boring Terminated @ 12' ~~Split S~~ Additional SAMPLES For GTS Dwated 2 X 0-6" 1 X 11-12' Backfill w/ granular Bentonite			

NOTES: Driller: STEVE JAW

Drilling Equipment: GeoProbe 9600 Mounted on CMC 3500 w/ 4" SAMPLING tube

Contractor - GeoSearch.

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: CFGP03	COORDINATES: NA	DATE: 2/1/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 2/1/98
ENGINEER/GEOLOGIST: MATT	Depth NA Date/Time NA	DATE COMPLETED: 2/1/98
DRILLING METHODS:		PAGE OF

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6" Soil		100	SANDY Silt Fill, Dark Brown to gray, STIFF, Moist, Mixed w/ Schist Fragments, MICACEOUS	ML		GRASS SURFACE - 4" SNOW Collected Soil Sample 0-6"
5	4-8' Soil		100				Collected Soil Sample 4-8'
	8-12' Soil + DUP		100	8.5' CLAY greenish GRAY, STIFF, WET Mod. Plasticity, Fe Oxide STAining 12'	CL		Collected Soil Sample 8-12" + DUP DUP-11' - VERY Muddy NO Recoverable H_2O
				Boring TERMINATED @ 12' ~~SPLIT W~~ Additional SAMPLES FOR GTS 1 X 11-12' 2 X 0-6" BACKFILL w/ GRANULAR Bentonite			

NOTES: Driller: STEWE LAW

~~Geoprobe~~

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 4' Sample tubes

Contractor: GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

OJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: CFGP06	COORDINATES: NA	DATE: 2/1/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 2/1/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth NA Date/Time NA	DATE COMPLETED: 2/1/98
DRILLING METHODS: Geoprobe		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (-)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6" Soil	NA	100	SAND Silt - DARK BROWN GRAY, MOIST	ML		
	4-6' Soil		100	@ 5.5' very wet + muddy 6"			▽ 5.5' - NO RECOVERABLE H2O - PUMP CLOGGED W/ SILTS
				Boring TERMINATED @ 6'			
				Additional Samples For GTS			
				4 X 0-6"			
				1 X 4-6"			
				BACK FILL W/ Bentonite Granular			

NOTES: Driller: STEVE IAW
Drilling Equipment: Geoprobe 9600 mounted on GMC 3500 w/ 4' Sampling Tube.
Contractor = Geosearch.

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: CFGP07	COORDINATES: NA	DATE: 2/1/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 2/1/98
ENGINEER/GEOLOGIST: MATT OVERBAUGH	Depth NA Date/Time NA	DATE COMPLETED: 2/1/98
DRILLING METHODS: Geoprobe.		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	0-6"	NA	100	SANDY SILT - DARK BROWN - MIXED W/ FILL MATERIAL, ROCK, WOOD, GLASS	ML		GRAVEL SURFACE - 1" Soil SAMPLE 0-6"
5	4-8"		75				Soil SAMPLE 4-8"
				CLAY - GREENISH GRAY, STIFF, MOIST	CL		
10	Soil 8-12		100%	@ 10.5 VERY WET, SLOPPY - NO PUMPABLE H2O			Soil Sample 8-12"
				TERMINATE BORING @ 12'			
				Additional SAMPLE For GTS			
				4 X 0-6"			
				1 X 11-12"			
				Back Fill W/ GRANULAR BENTONITE			

NOTES: Driller: STEVE LAVEE
Drilling Equipment: Geoprobe 9600 mounted on GMC 3500
Contractor - Geosearch.

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: GFGP01	COORDINATES: NA	DATE: 2/1/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 2/1/98
ENGINEER/GEOLOGIST: MATT OVERSmyth	Depth NA Date/Time NA	DATE COMPLETED: 2/1/98
DRILLING METHODS: Geoprobe 9600 Direct-Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH - FT -	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER - (-)	RECOVERY % ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	SANDY SILT FFIL - DARK BROWN, Abundant, ORGANIC MATTER, glass Concrete + other Fill Material	ML		glass + WEED SURFACE 6" SNOW 0-6" Soil SAMPLE
5	4-8' Soil		100				Soil SAMPLE 4-8'
10	~~Soil~~		100	12'			12-12"
				Boring Terminated @ 12' VERY Soupy/muddy - NOT Pumpable H2O Additional SAMPLES for GTS 4 X 0-6" 1 X 11-12" Back Fill w/ granular Bentonite			

NOTES: Driller: STEVE/AW
Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4' Sampling tubes
Contractor: Geosearch

402-11-88

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE	
BORING NUMBER: OHGP01	COORDINATES: NA	DATE: 1/29/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/29/98
ENGINEER/GEOLOGIST: MATT Quelbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/29/98
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic Hammer		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	Silty SAND Fill - Red Brown, Micaceous mixed w/ Concrete & OTHER FILL MATERIAL	SM		Collected Soil Sample 0-6"
5	Soil 4-5'		100	SILT - w/ WEATHERED Schist, VERY MICACEOUS, STIFF, Dry 5.2' REFUSAL @ 5.2'	ML		Collected Soil Sample 4-5'
				BACKFILL w/ GRANULAR Bentonite			
				Additional Probes For GTS Data = 4 X 0-6" 2 X 6-18"			

NOTES: Driller: STEVE IAW

Drilling Equipment: Geoprobe 9600 mounted on GMC 3500 w/ 4" Sampling Tubes

Contractor: GEOSEARCH

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE ATOMIC POWER	
BORING NUMBER: OHGP03	COORDINATES: NA	DATE: 1/29/98
ELEVATION: NA	GWL: Depth NA Date/Time NA	DATE STARTED: 1/29/98
ENGINEER/GEOLOGIST: MATT Overbaugh	Depth NA Date/Time NA	DATE COMPLETED: 1/29/98
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic HAMMER		PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (')	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-4	NA	100	SAND Fill - Brown, micaceous, moist, mixed w/ Concrete fragments	SP		4" Concrete Surface Collected Soil Sample 0-4'
5	Soil 4-8'		100				Collected soil sample 4-8'
	Soil 8-10'		100	10'			Collected soil sample 8-10'
10				Bedrock Refusal Backfill w/ granular Bentonite Additional Probes For GTS Darter = 4 X 0-6" 2 X 9-10'			

NOTES: Driller: Steve Law

Drilling Equipment: Geoprobe 9600 Mounted on GMC 3500 w/ 4' Sampling Tubes

CONTRACTOR: GeoSearch

402-11-86

INTERNATIONAL TECHNOLOGY CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 773120	PROJECT NAME: MAINE YANKEE		
BORING NUMBER: OHGP02	COORDINATES: NA		DATE: 1/29/98
ELEVATION: NA	GWL: Depth NA Date/Time NA		DATE STARTED: 1/29/98
ENGINEER/GEOLOGIST: MATT Overbaugh	Depth NA Date/Time NA		DATE COMPLETED: 1/29/98
DRILLING METHODS: Geoprobe 9600 Direct Push w/ Hydraulic Hammer			PAGE 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (-)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	Soil 0-6"	NA	100	SAND - Brown, mixed w/ Concrete & other Fill Material 2.5'	SP		3" ASPHALT Collected Soil Sample 0-6"
				Refusal @ 2.5' - concrete slab			
5				additional Probes For GTS Duiate			
				4 X 0-6"			
				2 X 6-18"			
				Backfill w/ Granular Bentonite			

NOTES: ~~Geosearc~~

Driller: Steve Law

Drilling Equipment - Geoprobe 9600 Mounted on GMC 3500 w/ 4' Sampling Tube

Contractor - GeoSearch

402-11-88

APPENDIX D

SOIL SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. DCAGP029801314

SAMPLE LOCATION DCAGP02

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 14-15'

WEATHER cold, cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2x40
	2x250

COMMENTS:

2x40 For VOA
2x250 for Metals, PCB, SemiVOA
TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. DCAGP02980131OO

SAMPLE LOCATION DCAGP02

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2x40
	2x250

COMMENTS:

2x40 For VOA
2x250 For metals, semivoa, PCB, TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. DCAGP01980131O8

SAMPLE LOCATION DCAGP01

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 8-9'

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 FOR VOA
2 x 250 FOR Metals, SemiVOA, PCB, TPH/DRO

PREPARED BY: Allegra Gatti

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. DCAGP01980131000

SAMPLE LOCATION DCAGP01

SAMPLE TYPE Soil Grab

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 for VOA
2 x 250 for metals, Semivoa, PCB, TPH/ORO

PREPARED BY: Gregg Pett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	3	1	9	8	
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PROJECT NO. 773120							

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. ELGP0198013106 MD 2/2/98

SAMPLE LOCATION ELGP01 MD 2/2/98

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 6-7'

WEATHER Cold, Partly cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amberglass	2 x 40
	2 x 250

COMMENTS:

2 x 40 mL For VOA
2 x 250 For metals, semivom, PCB
TPH/DRO

PREPARED BY: ____

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP04980131O4

SAMPLE LOCATION CFGP04

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 4-7'

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2x40
	2x250

COMMENTS:

2x40 for VOA
2x250 for metals, Semivoa, PCB, TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP04980131 00

SAMPLE LOCATION CFGP04

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 FOR VOA
2 x 250 FOR metals, Semivoa PCB TPH/DRO

PREPARED BY: Allegra Bell

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120		

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP05980131 11

SAMPLE LOCATION CFGP05

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 11-12'

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 For VOA MM 1/31/98
2 x 250 for Metals, BS Semivoa, PCB TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP05980131 00

SAMPLE LOCATION CFGP05

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 for VOA
2 x 250 for Metals, Semivoa, PCB
TPH-ID20

PREPARED BY: Meggy Ott

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120		

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP039802010 9

SAMPLE LOCATION CFGP03 ~~98~~ MB 2/1/98

SAMPLE TYPE MB 2/1/98 ~~EFGF~~ Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 9-11'

WEATHER Cold, clear

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40 ml
	2 x 250 ml

COMMENTS:

2 x 40 FOR VOA
2 x 250 FOR METALS, PCB, TPH/DRO, SEMIVOA

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP03980201OO

SAMPLE LOCATION CFGP03

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Clear, Cold

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40ml
	2 x 250ml

COMMENTS:

2 x 40 FOR VOA
2 x 250 FOR METALS, PCB,
TPH/DRO, semi VOA

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CFGP06980201O4

SAMPLE LOCATION CFGP06

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 4-6'

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS:

2x40 FOR VOA
2x250 FOR METALS, PCB, SemiVOA, TPH/OKO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP0698020100

SAMPLE LOCATION CFGP06

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS:

2x40 FOR VOA
2x250 FOR METALS, PCB
Semi VOA, TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CFGP07980201O8

SAMPLE LOCATION CFGP07

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE _____

DEPTH OF SAMPLE 8-12

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS: 2x40 FOR VOA
2x250 FOR PCB, METALS, SEMIVOA
TPH/DRO

PREPARED BY: K Leggett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	1	9	8
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE ~~77~~ MW 2/2/98

SAMPLE NO. CFGP0798020100

SAMPLE LOCATION CFGP07

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 40
	2 x 250

COMMENTS:

2 x 40 VOA
2 x 250 FOR METALS, PCB, Semi VOA, TPH/ORO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CFGP019802010B

SAMPLE LOCATION CFGP01

SAMPLE TYPE Soil Grab

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 8-12'

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 40
	2 x 250

COMMENTS:

2 x 40 ml FOR VOA
2 x 250 FOR METALS, PCB,
Semi VOA, TPH/DRO

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP019802010O Dup

SAMPLE LOCATION CFGP01

SAMPLE TYPE

COMPOSITE ___ YES X NO

COMPOSITE TYPE

DEPTH OF SAMPLE 0-6"

WEATHER Cold, clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	1 X 250

COMMENTS: metals sample only

PREPARED BY:

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CFGP0198020100

SAMPLE LOCATION CFGP01

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2 x 40
	2 x 250

COMMENTS:

2 x 40 FOR VOA
2 x 250 FOR METALS, SEMIVOA
TPH/DRO, PCB

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. CFGP0298020109 Dup

SAMPLE LOCATION CFGP02

SAMPLE TYPE Soil Grab

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 9-11

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	6x40
	3x250

COMMENTS:

6x40 FOR VOA
3x250 FOR METALS, PCB, Semi VOA, TPH/ORO
ALL PARAMETERS FOR MS/MSD

PREPARED BY: L. Gregg Britt

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP02980201O9

SAMPLE LOCATION CFGP02

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 9-11'

WEATHER Cold, clear

CONTAINERS USED	AMOUNT COLLECTED
GLASS	2x40
	2x250

COMMENTS: 2x40 FOR VOA
2x250 FOR METALS, PCB, SEMI VOA

PREPARED BY: R Meyer

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	1	9	8
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP02 98020100

SAMPLE LOCATION CFGP02

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 ml For VOA
2 x 250 For Metals, PCB, semi VOA, TPH/DRO

PREPARED BY: R. Gregory Britt

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	1	9	8
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PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. CFGP03980201O9 Dup

SAMPLE LOCATION CFGP03

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 9-11'

WEATHER Cold, Clear

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	3 x 250 (MD 2/2/98)

COMMENTS:

2 x 40 ml for VOA
3 x 250 for metals, Semivoa, PCB
TPH/ORO.

ALL PARAMETERS also FOR MS/MSD

PREPARED BY: R Gregg Britt

INTERNATIONAL TECHNOLOGY CORPORATION

M
12/2/13

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PAGE	1	OF	1			
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. NWY55019802030 1

SAMPLE LOCATION NWY55O 1

SAMPLE TYPE Soil

COMPOSITE ___ YES ___ NO

COMPOSITE TYPE ___

DEPTH OF SAMPLE 0-6"

WEATHER Cold Cloudy

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

1 250 FOR PCBS
AMBER

PREPARED BY: G. Bennett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	3	9	8
TIME	0	7	4	5		
PAGE 1 OF 1						
PAGE						
PROJECT NO.						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. NWY55019802G302

SAMPLE LOCATION NWY550# ~~AIFC 2/23/98~~ SIST

SAMPLE TYPE 0-6"

COMPOSITE ____YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE 0-6"

WEATHER Cold Cloudy

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

1 250 mL Four PCBs AMBER

PREPARED BY: G. Bennett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	8	0	3	9	8
TIME	0	7	5	5		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. NWYSS02980203 01

SAMPLE LOCATION NWYSS02

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold Cloudy

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS: 1 250mL Amber for PCBs

PREPARED BY: G. Bennett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	3	9	8
TIME	0	8	1	0		
PAGE	1	OF	1			
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME: MAINE YANKEE

SAMPLE NO.: NWYSS02980203O2

SAMPLE LOCATION: NWYSS02

SAMPLE TYPE: Soil

COMPOSITE: ____YES ✓NO

COMPOSITE TYPE: _____

DEPTH OF SAMPLE: 0-6"

WEATHER: Cold Cloudy

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

1 250 mL amber for PCBs

PREPARED BY: G. Bennett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	3	9	8	
TIME	1	5	4	5			
PAGE	1	OF	1				
PAGE	0	0	0	0	1		
PROJECT NO.	773120						

SAMPLE COLLECTION LOG

PROJECT NAME: MAINE YANKEE

SAMPLE NO.: NWY0198020301L

SAMPLE LOCATION: NWY-SS01

SAMPLE TYPE: SOIL

COMPOSITE: (YES) NO

COMPOSITE TYPE:

DEPTH OF SAMPLE: 0-6"

WEATHER: 39° Sunny clear

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

140 mL Vial For PCBs Collected By Phill Garnett

PREPARED BY: B. Garnett

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	6	9	8
TIME	1	0	4	0		
PAGE 1 OF 1						
PAGE						1
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TSS141761

SAMPLE LOCATION TRANSFORMER

SAMPLE TYPE Soil

COMPOSITE ____YES ✓ NO

COMPOSITE TYPE ____

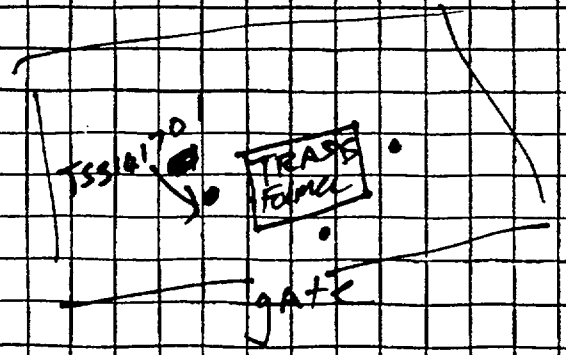
DEPTH OF SAMPLE 6-6"

WEATHER 30° Sunny Wind

CONTAINERS USED	AMOUNT COLLECTED
1	250 Amber

COMMENTS:

- Collected 1 250 ml Amber for PCBs, TPH/DRO



PREPARED BY: M. Dunbar

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	6	7	0	6	9	8
TIME	1	0	3	5		
PAGE 1 OF 1						
PAGE						1
PROJECT NO. 77120						

SAMPLE COLLECTION LOG

PROJECT NAME GTS / MAINE YANKEE

SAMPLE NO. T55141703

SAMPLE LOCATION TRANSFORMER

SAMPLE TYPE Soil

COMPOSITE ____YES ✓NO

COMPOSITE TYPE ____

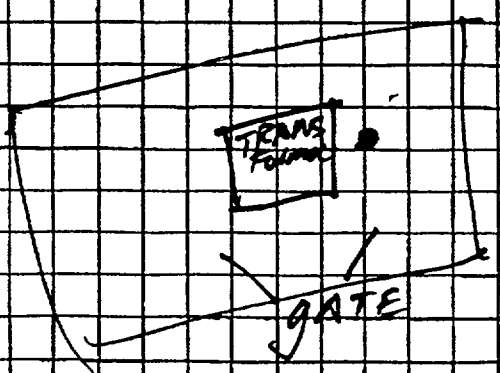
DEPTH OF SAMPLE 0-6"

WEATHER 30°- Sunny, windy

CONTAINERS USED	AMOUNT COLLECTED
1	250 ml

COMMENTS:

- Collect 1 250ml Ambed for PCBs, TPH/DRO Right Hand side of TRANSFORMER



PREPARED BY: M. O'Hanley

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	6	7	0	6	9	5
TIME	1	0	3	0		
PAGE	1	OF	1			
PAGE						1
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TSS14702

SAMPLE LOCATION TRANSFormer

SAMPLE TYPE Soil

COMPOSITE ____YES ✓ NO

COMPOSITE TYPE ____

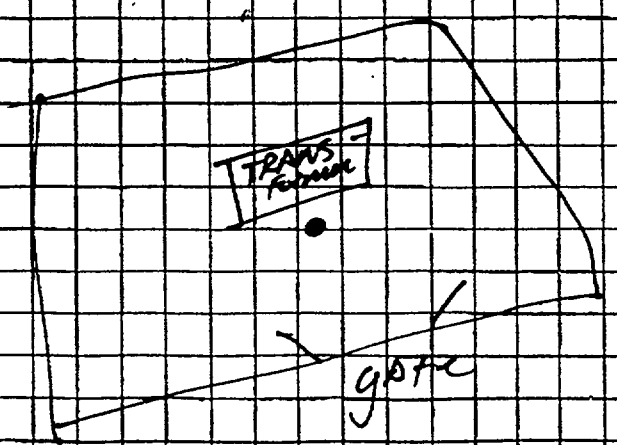
DEPTH OF SAMPLE 0-6"

WEATHER 30°F Snow, Wind

CONTAINERS USED	AMOUNT COLLECTED
1	250ml Amber

COMMENTS:

Collected 1 250 ML Amber for PCBs TPH DRO - in Front of TRANSFormer.



PREPARED BY: M. Dunbar

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	6	9	8
TIME	1.	0	1	5		
PAGE	1	OF	1			
PAGE						1
PROJECT NO.	77320					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TSS10BAC1

SAMPLE LOCATION Switch yard

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER 70° Sunny Wind

CONTAINERS USED	AMOUNT COLLECTED
1	.250 mL

COMMENTS:

Collected 1 2500 mL Amber for PCB & TPH/Die Adjacent to Transformer K.O.V. Valve

PREPARED BY: Matt McGarry

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	6	2	0	6	9	8
TIME	1	0	1	0		
PAGE	1	OF	1			
PAGE						
PROJECT NO.	77320					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TSS1013K69-1

SAMPLE LOCATION Switch yard

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER 70° Sun & wind

CONTAINERS USED	AMOUNT COLLECTED
1	250 ml

COMMENTS:

1 250 ml AMBer for PCBs, TPH/DRO

Collected Sample Adjacent to TRANSFORMER

K69-1 Valve -

PREPARED BY: M. Overbay

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	6	9	8
TIME	1	0	0	5		
PAGE	1 OF 1					
PAGE						1
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. 75510-13K207-1

SAMPLE LOCATION Switch yard

SAMPLE TYPE Soil

COMPOSITE ____ YES 1 NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER 80° Sun windy

CONTAINERS USED	AMOUNT COLLECTED
1	750 ml

COMMENTS:

- collected 1 250 MN Amber for PCBs & TPH/DRO Adjacent to TRANSFORMER K207-1 Valved.

PREPARED BY: M. Oldham

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	6	2	0	9	8	
TIME	1	0	2	0		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. TS S10 13 KBT

SAMPLE LOCATION Swing Gate

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Sun 30° Windy

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

1 Amber 250mL PCBs, TPH/DRO

Sample Taken Adjacent to TRANSFORMER

KBT. Valve.

PREPARED BY: M. Overcast

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	3	0	9	8
TIME	1	1	3	0		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. BPGP029801 3000

SAMPLE LOCATION BPGP02

SAMPLE TYPE Grab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 0-6"

WEATHER Cold, Cloudy 34°F

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2 x 40
	2 x 250

COMMENTS:

2 x 40 For VOA
2 x 250 For metals, SemiVOA, PCB, TPH/DRO

PREPARED BY: R Quigley QA

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	3	1	9	8
TIME	1	1	2	0		
PAGE	1 OF					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. DCAGP029801314

SAMPLE LOCATION DCAGP02

SAMPLE TYPE Crab Soil

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 14-15'

WEATHER Cold, Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	2x40
	2x250

COMMENTS:

2x40 FOR VOA
2x250 for Metals, PCB, Semi VOA
TPH/DRO

PREPARED BY: [signature]

APPENDIX E

MONITORING WELL REDEVELOPMENT FORMS

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: Mine Yonkee Project No./Phase/Task: 773120.0200.0000

Well No.: B-201-~~6W01~~ (WS) Date Developed: 1/29/98

Field Personnel: B. Stanhope / W. Li

Weather Conditions: Partly Cloudy

Well Purging Method: Well not developed because of obstruction.

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 347P / 405P
Total Well Depth: ~~8~~ not completed / 11.25 - not to bottom	Time Completed: 4:10 P
Depth to Water Table: ~~8.7~~ / 8.7 feet.	Well Depth at Completion:
Height of Water Column: NA	Notes: well obstructed at 11.25 ft.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) NA	
Total Amount of Water Removed: NA	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE (°F)	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)
~~3:47~~ 1521/29/98						

[a]Take parameter readings at every well volume removed.

Comments: 347 1521/29/98 Well was opened for > 24 hrs before starting - No PID readings above background

Prepared by: Walter W. Li

Signature: Walter W. Li

Date: 1/29/98

PIT/JAR/6-93/313633.F1

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: Nimrod Pinnacle Project No./Phase/Task: 773120.02000000

Well No.: B-202 ~~6005~~ (WS) Date Developed: 1/29/98

Field Personnel: B. Stanhope / WJ

Weather Conditions: Partly Cloudy / Sleeting

Well Purging Method: 2" Grundfos Rediflo-2 Pump

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 12:07 PM
Total Well Depth: 63.8 ft	Time Completed: 14:17
Depth to Water Table: 10.38 ft	Well Depth at Completion: 63.8 ft.
Height of Water Column: 53.42 ft	Notes: Weather conditions & temperature may have affected Turbidity readings. Also, the HNu was not usable after about 20 mins outdoors.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) 8.71 (~9 gallons)	
Total Amount of Water Removed: 45 gallons	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE (°F) (C°)	pH (su)	SPECIFIC CONDUCTANCE ~~(umhos/cm)~~ mS/cm	TURBIDITY (NTU)
12:33	initial	1 gal/min	9.7	5.33	.643	0
12:38	9 Gallons	TO 3 gal/min	10.4	5.47	.443	>10
12:41	18 Gallon	3	10.0	5.67	.425	>10
12:45	30	3	~~10.0~~ 9.4	5.7	.449	>10
12:47	36	↓	9.8	5.81	.432	10
12:51	45	↓	9.0	5.89	.433	10

[a]Take parameter readings at every well volume removed.

Comments: Checked the air above the well opening at 6" - got no reading above background (1.6 ppm), checked with the probe inside the well casing & still got nothing above background.

Prepared by: Wesley W. Li W. Stanhope

Signature: Wesley W. Li Will Stanhope

Date: 1/29/98

PIT/JAR/6-93/313633.F1

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: Hanford Tanks Project No./Phase/Task: 773120

Well No.: MW100 Date Developed: 1/30/98

Field Personnel: B Stanhope, Walter Li.

Weather Conditions: cold overcast.

Well Purging Method: 2" submersible GrundFos Ready-Flo 2 pump.

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 1214
Total Well Depth: 25.75	Time Completed: 1252
Depth to Water Table: ~~25~~ 16.95 (SWL 1/30/98)	Well Depth at Completion: 12.75
Height of Water Column: ~~16.95~~ 8.80	Notes: Well sustained 0.5 gpm rate with minimal drawdown.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) 1.44 gal	
Total Amount of Water Removed: 8.5 gallons	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE ~~(°F)~~ °C	pH (su)	SPECIFIC CONDUCTANCE ~~(umhos/cm)~~ mS/cal	TURBIDITY (NTU)	Dom/Sal/...
1233	~~2~~ 1.5 gal from initial	0.5 gpm	~~7.7~~ (SWL 1/30/98)	4.39	15.4	0	10.13
1237	+6 gals		~~6.7.5~~	5.09	16.7	-4	
1239	+6		9.7	5.78	16.1	10	9.62 .72
1241	+6		9.9	5.94	15.7	10	9.36 .95
1244	+6		9.6	6.0	14.3	7	9.35 .85
1246	+6		9.8	6.08	13.6	8	9.22 0.76
1252		1.5 gal/5secs	9.6	6.14	13.2	9	9.22 .73
1252	pump off						

13 mins = 6.5 gallons

2 mins = 2 gallons

[a]Take parameter readings at every well volume removed.

Comments: Dev finished at 10 STM, Did not take any PID readings since there was no air tight cover for the well opening which was cut/drilled out to allow access.

Prepared by: Walter W. Li / Bill Stanhope

Signature: Walter W. Li, Willie Stanhope

Date: 1/30/98

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: Naval Yard Project No./Phase/Task: 773120

Well No.: B-205 Date Developed: 1/31/98

Field Personnel: B. Stanhope/WZ M. Kollett (GTS)

Weather Conditions: Mostly Sunny 40°F

Well Purging Method: Paristaltic Pump

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 912 AM
Total Well Depth: 12.96 ft	Time Completed: See Page 2
Depth to Water Table: 11.31 ft	Well Depth at Completion:
Height of Water Column: 1.65 ft	Notes: will Returned (WSI) to complete development. Paristaltic pump is not working.
One Well Volume: (πr²h x 7.48 gal/ft³) 0.269 x 3	
Total Amount of Water Removed: See Pg. 2	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE °F °C	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm) mS/cm	TURBIDITY (NTU)	
1029	initial ~~[illegible]~~	—	—	—	—	—	
1035	no water	—	—	—	—	—	
1042	no water	—	—	—	—	—	
1053	no water	—	—	—	—	—	DO Salin.
1057	~~[illegible]~~		5.3	5.35	.532	69	13.34 0.01
1106	left well						

[a]Take parameter readings at every well volume removed.

Comments: PID @ 912 opening of well was 1.1 ppm - background 0.5 ppm

Prepared by: William Stanhope, Walter Li

Signature: William Stanhope Walter Li

Date: 1/31/98

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: GTS / Maine Yankee Project No./Phase/Task: 773120

Well No.: B 205 Date Developed: 1/31/98

Field Personnel: W. Stanhope, W. Li M. Kollett (GTS)

Weather Conditions: Mostly sunny 40°F

Well Purging Method: Paristaltic Pump.

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 3 09 PM
Total Well Depth: See page 1 of 2	Time Completed: 4 06
Depth to Water Table: See page 1 of 2	Well Depth at Completion: 13.13 ft
Height of Water Column: See page 1 of 2	Notes: Bottom of well has appreciable amount of silt and sand. Attempted to remove sand but it appears that screen may be demaged and that sand is packer sand. Well did not pump dry.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) See page 1 of 2	
Total Amount of Water Removed: 3.75 gallons	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE (°F)°C	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm) mS/cm	TURBIDITY (NTU)	
3:10	initial	-	5.9	6.42	.034	21	DO 11.17
318	Purge water pumping line ruptured restart 5.2 C F						
321	1 gallon		6.7	6.71	.401	41	11.23
327	1 gallon		6.9	6.71	.382	66	11.23
332	1.5 gallons		6.9	6.73	.384	67	11.36 .01
337	2 gallons		6.9	6.73	.359	67	11.37 .01
344	2.5 gallons		7.1	6.65	.390	67	11.28
346	Stop						
352	Start						

[a]Take parameter readings at every well volume removed.

Comments: 3.5 gallons ID tubing started pumping @ 405 (4:05 PM) 1.35 gallons evacuated @ 410 F 13.13 Ft total depth

Prepared by: William Stanhope

Signature: William Stanhope

Date: 1/31/98

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: B GTS / Maine Yankee Project No./Phase/Task: 773120

Well No.: ~~TD~~ B203 Date Developed: 1/31/98

Field Personnel: W. Li, W. Stanhope M. Kollette (GTS)

Weather Conditions: 40°F overcast

Well Purging Method: Paristaltic Pump

Note: Measurements from top of inner casing. Total Depth and water levels taken from information provided by Jacques Whitford

Well Diameter: 2"	Time Started: 1120
Total Well Depth: 24.7	Time Completed: 1346 pm
Depth to Water Table: ~~initial~~ from 643* 13.10	Well Depth at Completion: 24.7
Height of Water Column: 11.6	Notes: Due to small diameter of well, 2 gallons of water were removed to complete development.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) ~~35.5~~ 2.6	
Total Amount of Water Removed: 2.0 gal.	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE (°F)	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	
1122	initial pump not working		—	—	—	—	De
1258	using new pump		—	—	—	—	
106	pH=6		—	—	—	—	
108	"		5.8	5.8	.435 mhos/cm	999	11.9 .01
11[illegible]	[illegible]		—	—	—	—	
[illegible]	[illegible]		—	5.71	—	—	
130	1 gallon total		7.1	5.71	4.56	85	7.6 5.1
135	[illegible]						
138	"	~0.063	7.6	5.32	.404	59	5.21
142			7.7	5.78	.432	142	5.06
1446			9.4	5.79	.441	50	5.15

[a] Take parameter readings at every well volume removed.

Comments: * Well depth too small for water level measurement was opened > 24 hours before removal
PID reading = background ambient ~1.0 ppm

Prepared by: W. Stanhope, W. Li

Signature: W. Stanhope W. Li

Date: 1/31/98

PIT JAR 6-93/313633.F1

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: GTS / Maine Yankee Project No./Phase/Task: 777120

Well No.: B 206 Date Developed: 1/31/98

Field Personnel: W. Stanhope, W. Li

Weather Conditions: 30°F Clear, cold

Well Purging Method: 2" Submersible Grundfos Redi Flo-2 pump.

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 506 PM
Total Well Depth: 22.45'	Time Completed: 5:27 pm
Depth to Water Table: 10.25'	Well Depth at Completion: 22.50 ft.
Height of Water Column: 12.2 ft	Notes: WL @ (MS) 5:18 = 10.25'
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) 1.99 (2 gals)	WL @ 5:24 = 10.26'
Total Amount of Water Removed: 14.0 gal	water level of well not affected by pumping at 1.9 gpm.

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE °F/°C	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm) mS/cm	TURBIDITY (NTU)	
513 Start pump	0	1.5	4.7	6.54	.205	413	10:11 6.0
515 Clear flow	3.0	1 gal/min	8.2	6.61	.216	69	
519	5.0		9.1	6.65	.205	74	8.31 8.0
520	7.0		9.5	6.78	.207	4	8.19
522	9.0		9.9	6.89	.213	5	8.17
524	11.0		9.4	6.96	.219	61	8.21
526	13.0		9.7	7.0	.229	61	7.95
527	off 14.0	↓	–	–	–	–	
532	2.0?	↓					

[a]Take parameter readings at every well volume removed.

Comments: PID reading was 1.0 at the well opening (background = 0.8)

Prepared by: W. Stanhope, W. Li

Signature: Willa Stanhope D. Stan W.L.

Date: 1/31/98

INTERNATIONAL TECHNOLOGY CORPORATION

MONITORING WELL DEVELOPMENT RECORD

Project Name: Mare Island Project No./Phase/Task: 773120

Well No.: BK-1 Date Developed: 1/31/98

Field Personnel: W. Stanhope W. Li M. Kolleff (CGTS)

Weather Conditions: Overcast 40°F

Well Purging Method: 2" Submersible grundfos Redi-flo 2 pump

Note: Measurements from top of inner casing.

Well Diameter: 2"	Time Started: 2071 PM
Total Well Depth: 14.97	Time Completed: 2:32 pm
Depth to Water Table: 8.85	Well Depth at Completion: 14.99
Height of Water Column: 6.12	Notes: well easily sostained 1 gallon per minute pumping rate.
One Well Volume: ($\pi r^2 h$ x 7.48 gal/ft³) .998 (1 gal)	
Total Amount of Water Removed: > 6.0 gal.	

TIME[a]	CUMULATIVE AMOUNT OF WATER REMOVED (gallons)	FLOW RATE (gpm)	TEMPERATURE (°F) °C	pH (su)	SPECIFIC CONDUCTANCE (umhos/cm) mS/cm	TURBIDITY (NTU)	DO	Salin.
2:23 ~~1.25~~	1 gal.	1 gal/min	6.5	6.13	.383	944	10.6	.5
2:27 1.27	2.0	↓	8.5	6.29	.375	7	9.46	0.
228	3.0		93	6.34	.376	6.1	9.1	–
230	4.0		97	6.37	.376	5	9.03	–
231	5.0		99	6.38	.378	6.1	8.93	–
232	6.0	↓	10.0	6.38	380	8	8.87	–
233 off								

[a]Take parameter readings at every well volume removed.

Comments: TD was 9.5 ppm (1.8 background) at well mouth

Prepared by: W. Stanhope, W. Li

Signature: William Stanhope

Date: 1/31/98

PIT/JAR/6-93/313633.F1

APPENDIX F

MONITORING WELL PURGE AND SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Minna Yuba
Project No.: 773120
Request-for-Analysis Control No.: 539014
Chain-of-Custody Control No.: 539014
Sample No.: B206-980202

Sample Location or: Attached.
Well ID (attach map if necessary): B206
Date and Time Collected: 4/2/98 @ 1530
Sample Collected by: W. Stanhope / W. Li
Checked by (Office)/Date:

EQUIPMENT

PID reading = 1.7 background = 1.2 ppm @ 1335 PM

Purging Method/Equipment: Peristaltic
Sampling Equipment/ID No.:

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Bottom intake at 15 ft. This well is situated at a low spot where the ice/snow melt runoff keeps draining into the well while open + the well compartment fills w/ water when the well is capped.

Casing ID (a) (in.) 2" Unit Casing Volume (b) .17 ( )
Depth to Well Bottom (c) 22.45 ( ) Depth to Water (d) 10.5 ( )
Length of Static Water Column in Casing (e) = (c) - (d) = 22.45 - 10.5 = 11.95 ( )
Casing Water Volume (f) = (b) × (e) = .17 × 11.95 = 2.03 ( )
Casing Volumes = NA × (f) = NA ( )

Start 1253 PM Peristaltic

Volume Purged (gal)	Temp. (C°)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DO
.125 gallons/min 0	3.7	.036	254	Slight tint 23 Silty No	5.34	15.46
10 secs (WS) 25 gal 0.25 gal	3.8	.036	256	21 odor	5.28	15.17
0.5 gal	4.1	.035	258	52	5.49	14.66
0.75	4.4	.039	300	14	5.70	14.41
1.0	4.6	.045	302	75	5.82	14.20
1.25	4.6	.041	304	11	5.92	14.15
1.5	4.9	.045	306	8	5.96	13.95
1.75 (0.55 min level)	4.8	.046	308	76	6.02	13.87
2.0	5.1	.048	310	7	6.05	13.46
2.25	5.3	.053	312	7	6.13	13.15
2.50	5.6	.057	314	7	6.19	12.90
Total Volume Purged: 2.75 gal.	Time: 3:16 pm			Purged Dry (Y/N): No.		
2.75	5.6	.060	316	7	6.15	12.84

SAMPLE PACKAGING

Start @ 317 335 put on filter

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
(WS) 3x40mL glass Vials	No	HCl	VOCs
2 x 1 L amber glass	No	HCl	TPH-DRO
5 x 1 L amber glass	No	None	PCBs/ SVOCs
1 x 1L plastic	Yes	HNO_3	RCRA Metals + Cr

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Marine Yuchen
Project No.: 773120
Request-for-Analysis Control No.: 539014
Chain-of-Custody Control No.: 539014
Sample No.: B203A - 980202

Sample Location or: (Attached)
Well ID (attach map if necessary): B203A
Date and Time Collected: 2/2/98 @ 1730
Sample Collected by: J. Stalnaker/D. Ai
Checked by (Office)/Date:

PID showed 2.1 ppm w/background reading 2.0 ppm @ 440

EQUIPMENT

Purging Method/Equipment: Peristaltic pump.
Sampling Equipment/ID No.: Rental unit from Geotech.

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Well diameter is too small to measure water level and depth.

Casing ID (a) (in.) _____ Unit Casing Volume (b) _____ ( )
Depth to Well Bottom (c) _____ ( ) Depth to Water (d) _____ ( )
Length of Static Water Column in Casing (e) = (c) - (d) = _____ - _____ = _____ ( )
Casing Water Volume (f) = (b) × (e) = _____ × _____ = _____ ( )
Casing Volumes = _____ × (f) = _____ ( )

Start @ 449

Volume Purged ( )	Temp. (C°)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)			pH	DO
	6.3	.284	450	Tan Color	159	No odor	5.72	11.34
Flow = 0.094 gallons/min	8.3	.419	452		169	or oil	5.82	10.9
40 cc	9.1	.456	454	cloudy	126		5.85	9.6
	8.9	.465	456		5		5.90	9.03
	9.7	.471	458		97		5.87	9.26
	9.5	.472	500		144		5.88	9.39
	9.5	.473	502		121		5.88	9.2
	9.2	.472	504		75		5.92	9.05
	9.6	.471	506		74		5.90	9.51
	9.4	.475	508		1		5.89	9.25
	9.9	.473	510		1		5.90	9.27
	9.6	.478	512		1		5.90	9.77
	9.5	.477	514		1		5.91	10.0

Total Volume Purged: 2.26 gal Time: 24 mins of purging Purged Dry (Y/N): N

SAMPLE PACKAGING

Start sampling 516 Piston filter @ 539 ft / finished at 543 pm GTS start at 543 finish @ 554 pm

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
2x 40mL glass vials	No	HCl	VOCs
2x 1L amber glass	No	HCl	TPH/DRO
5x 1L amber glass	No	None	SVOCs / PCBs
1x 1L plastic	Yes	HNO_3	RCRA Metals + Cr

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Maine Yankee
Project No.: 773120
Request-for-Analysis Control No.: 539014
Chain-of-Custody Control No.: 539014
Sample No.: B205-980202

Sample Location or: (Attached)
Well ID (attach map if necessary): B205
Date and Time Collected: 2/2/98 @ 1325
Sample Collected by: B. Stedge / W. Li
Checked by (Office)/Date:

PID ~~1.0~~ 1.5 ppm Monitor background (1.5 ppm) @ 1230 hrs

EQUIPMENT

Purging Method/Equipment: Peristaltic Pump
Sampling Equipment/ID No.: Rental Unit from Geotech

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Screen zone appears to be between
Depth of tubing for sample intake is ~12 ft

Casing ID (a) (in.) 2" Unit Casing Volume (b) _____ ( )
Depth to Well Bottom (c) 13.1 ( ) Depth to Water (d) 11.5 ( )
Length of Static Water Column in Casing (e) = (c) - (d) = _____ - _____ = _____ ( )
Casing Water Volume (f) = (b) × (e) = _____ × _____ = _____ ( )
Casing Volumes = _____ × (f) = _____ ( )

1257 start purging

Volume Purged (gal)	Temp. (°C)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DO
.125 gallons	9.3	.465	1254	slightly turbid / no odor	5.65	15.37
	8.7	.413	101 PM	10	5.84	14.94
	8.6	.353	103	10	6.29	14.58
1 min	8.2	.387	105	10	6.43	14.27
	8.1	.384	107	10	6.51	14.12
	8.0	.376	109	10	6.57	14.0
	7.8	.375	111	10	6.59	13.91
	7.8	.374	113	10	6.63	13.87
	7.8	.372	115	9	6.6	13.7
2.25 gallons total						
after recirculation	7.7	.494	148 final	c	4.88	12.57

Total Volume Purged: 2.25 gallons Time: 18 mins Purged Dry (Y/N): N

Start 116 PM sampling 137 placed filter in line restart @ 138 finish @ 140 PM
Started marking/filling samples @ 141 PM

SAMPLE PACKAGING

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
3 x 40mL glass vials	NO	HCl	VOCs
2 x 1L amber glass	NO	HCl	TPH-DRO
5 x 1L amber glass	NO	None	SVOCs / PCBs
1 x 1L plastic	~~NO~~ Yes	HNO_3	RCRA Metals + Cr

727-10-89

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Maine Yankee
Project No.: 773120
Request-for-Analysis Control No.: 539002
Chain-of-Custody Control No.: 539002
Sample No.: BK1980203 / BK2980203

Sample Location or: (Attached)
Well ID (attach map if necessary): BK1980203
Date and Time Collected: 2/3/98 15:45
Sample Collected by: W. Stanhope W. Li
Checked by (Office)/Date:

PID reading 3.5 ppm background was 1.1 ppm

Duplicate sample: BK2980203

EQUIPMENT

Purging Method/Equipment: Peristaltic Pump
Sampling Equipment/ID No.: Rental unit from Geotech.

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Depth of inlet hose in 10 ft

Casing ID (a) (in.) 2" Unit Casing Volume (b) .17 (gal/ft)
Depth to Well Bottom (c) 14.97 ( ) Depth to Water (d) 5.87 (ft)
Length of Static Water Column in Casing (e) = (c) - (d) = 14.97 - 5.87 = 6.1 (ft.)
Casing Water Volume (f) = (b) × (e) = .17 × 6.1 = 1.04 (gal.)
Casing Volumes = NA × (f) = NA ( )

Start 3:00

Volume Purged (gal.)	Temp. (°C)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DO
.125 gpm Flow = 0	9.2	.382	301	Lt. silvng Slight tint 148 NTU No odor	4.74	11.03
WS 0 = 0.25 gal	8.5	.351	303	147	6.15	10.95
WS .25 0 .42 gal	9.5	.332	305	148	6.71	10.37
	9.3	.332	307	148	6.96	11.72
0.5	9.1	.327	309	Cloudy 36	6.99	11.01
	9.3	.327	311	106	7.03	11.20
.75	9.4	.328	313	120	7.06	10.70
	9.2	.322	315	136	7.06	11.13
1.0	9.1	.324	317	148	7.10	10.80
1 gal	9.4	.324	319	147	7.07	10.64
1.25	9.2	.320	321	148	7.09	10.65
Total Volume Purged: 1.25 gallons		Time: 3:23 pm		Purged Dry (Y/N): No		
Flow rate = 0.125 gpm	9.2	.321	323	148	7.10	10.72

Finished at 4:05 GTS

SAMPLE PACKAGING

1525 start collection Filtered in 40 min Started sampling @ 405 Finished & shredded ice

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
BK1: 2x 40mL glass vials	No	HCl	VOCs
5x 1L amber glass	No	None	SVOCs / PCBs
2x 1L amber glass	No	HCl	TPH / DRO
1x 1L plastic	Yess	HNO_3	RCRA Metals + Cr
BK2: 2x 40 mL glass vials	No	HCl	VOCs
5x 1L amber glass	No	None	SVOCs / PCBs
2x 1L amber glass	No	HCl	TPH DRO
1x 1L plastic	Yes	HNO_3	RCRA Metals + Cr

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Plume Tracer
Project No.: 773120.02000000
Request-for-Analysis Control No.: 539003
Chain-of-Custody Control No.: 539003
Sample No.: ~~CS1~~ (WS) CS1-980204

Sample Location or: (Attached)
Well ID (attach map if necessary): CS-1
Date and Time Collected: 2/4/98 1415
Sample Collected by: L.J. Wallace
Checked by (Office)/Date:

EQUIPMENT

Containment Sump
PID reading through manhole was 1.6 ppm Background = 1.5 ppm @ 1305 hrs

Purging Method/Equipment: Bucket + rope - grab sampler
Sampling Equipment/ID No.:

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Gift to owner

Containment Sump was not purged.

Casing ~~ID (a)~~ (in.) _____ Unit Casing Volume (b) _____ ( )
Depth to Well Bottom (c) _____ ( ) Depth to Water (d) _____ ( )
Length of Static Water Column in Casing (e) = (c) - (d) = _____ - _____ = _____ ( )
Casing Water Volume (f) = (b) × (e) = _____ × _____ = _____ ( )
Casing Volumes = _____ × (f) = _____ ( )

Volume Purged (gal)	Temp. (°C)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH
—	13.7	1.05	2223	10 NTU	5.43
				Water was clear + had no odor but did have rust coloring flakes (<< 1%) floating + suspended in the water	

DO 7.84

Total Volume Purged: NA Time: NA Purged Dry (Y/N): NA

SAMPLE PACKAGING

2 of 2 IT samples

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA's x3	(WS) N X No	HCl	VOC's
1l Amber x5	(WS) N No	None	PCB's, SVOC's
1l Amber x2	(WS) X NO	HCl	TPH/DRO
1l Plastic	yes	HNO_3	RCRA Metals + Chromium

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Mina Vanhee
Project No.: 773120.02000000
Request-for-Analysis Control No.: 539003
Chain-of-Custody Control No.: 539003
Sample No.: CA1-98D204

Sample Location or: (Attached)
Well ID (attach map if necessary): ~~CA1980204~~ (MW5)
Date and Time Collected: 2/4/98 1015 AM
Sample Collected by: J.W., B. Strahgie
Checked by (Office)/Date:

PID read 1.2 ppm = background at 1.2 ppm

EQUIPMENT

Purging Method/Equipment: Peristaltic Pump
Sampling Equipment/ID No.: Rental Unit from Geotech.

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Intake at 17 ft Total depth of well could not be determined as well.

Casing ID (a) (in.) 8" Unit Casing Volume (b) 2.6 gal/ft. ( )
Depth to Well Bottom (c) >30 ft ( ) Depth to Water (d) 12.89 ( )
Length of Static Water Column in Casing (e) = (c) - (d) = NA - NA = NA ( )
Casing Water Volume (f) = (b) × (e) = NA × NA = NA ( )
Casing Volumes = NA × (f) = NA ( )

Volume Purged (gal.)	Temp. (°C)	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DC
initial rate = 1.25 gpm	11.3	.343	923	slight NTU 10 no odor	4.94	9.14
1 gal @ 929	13.1	.249	923	10	6.24	8.93
1 min/gal	12.9	.245	933	16	6.69	9.21
recirculate	12.6	.330	938	0	4.99	9.31
	12.7	.266	943	2	5.97	9.00
	13.0	.255	948	0	6.45	8.63
Recovered depth at 950 =	12.6	.247	953	1	6.61	8.30
~~12.99~~ 12.99 ft	13.0	.246	958	1	6.76	8.22
	12.9	.242	1003	2	6.84	8.7
	12.8	.240	1008	1	6.91	8.57

Total Volume Purged: 7 gallons Time: 1008 Purged Dry (Y/N): No

SAMPLE PACKAGING

IT finish @ 10:29 AM
Start Sampling at 10:10 AM Started GTS at 10:30 AM Stopped 10 38

Container(s) Type and Volume	Filtered (Y/N) (MW5)	Preservatives	Parameters
40 ml VOAs x 3	(MW5) NO ~~NOT 3~~	HCl	VOC's
1 l Amber x 5	NO	None	PCB's SVOC's
1 l Amber x 2	No	HCl	TPH/DRO
1 l Plastic x 1	Yes	HNO_3	RCRA Metals + Chromium

727-10-89

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Pease Avenue
Project No.: 773120
Request-for-Analysis Control No.: 539015
Chain-of-Custody Control No.: 539015
Sample No.: MW100-980205

Sample Location or: (Attached)
Well ID (attach map if necessary): MW100
Date and Time Collected: 2/5/98
Sample Collected by: W. Stanhope / W. Li
Checked by (Office)/Date:

EQUIPMENT

PID reading = 1.6 ppm, Background 1.5 ppm @ 10:50 AM

Purging Method/Equipment: Peristaltic Pump.
Sampling Equipment/ID No.: ~~NA~~ Rental unit from Geotech

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Casing ID (a) (in.) 2" Unit Casing Volume (b) .17 ( )
Depth to Well Bottom (c) 25.75 ( ) Depth to Water (d) 16.90 ft ( )
Length of Static Water Column in Casing (e) = (c) - (d) = 25.75 - 16.90 = 8.85 ( )
Casing Water Volume (f) = (b) × (e) = .17 × 8.85 = 1.50 ( )
Casing Volumes = ____ × (f) = ____ ( )

Start @ 11:15 AM

Volume Purged (gal.)	Temp. ( )	Conductance ( )	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DO
	3.1	10.5	1116	Clear / 10 / No odor	6.91	10.8 .55
recal @ 1118 OK	5.8	10.4	1120	0	4.58	9.03
rate = ⅛ gallon/min	~~26.8~~ 6.8	10.8	1122	1	4.99	9.21 .5
	6.5	11.2	1124	10	5.49	9.37
	7.2	11.0	1126	1	5.71	9.01
	6.7	11.2	1128	0	5.79	9.36
	7.3	11.0	1130	1	5.84	9.01
1.5 gallons	6.8	10.8	1133	0	5.89	8.90

Total Volume Purged: 15 gallons Time: 1135 Purged Dry (Y/N): No

SAMPLE PACKAGING

Start Sampling @ 1135 1143 Start 1L Filter @ 1213 Done 1228

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
8 x 40 mL glass vials	No	HCl	VOCs
9 x 1 L amber glass	No	None	SVOCs / PCBs
4 x 1L amber glass	No	HCl	TPH DRO
3 x 1L plastic	Yes	HNO_3	RCRA metals + Cr.
Additional Volume was	submitted on this sample for QA/QC.		

INTERNATIONAL TECHNOLOGY CORPORATION

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Former Lumber
Project No.: 773120
Request-for-Analysis Control No.: ~~B204A~~ WS 539015
Chain-of-Custody Control No.: 539015
Sample No.: B204A-980205

Sample Location or:
Well ID (attach map if necessary): B204A
Date and Time Collected: 2/5/98
Sample Collected by: WI: B Shankopa
Checked by (Office)/Date:

PID Reading was 1.7 background with 1.5 ppm @ 8:43 AM

EQUIPMENT

Purging Method/Equipment: Peristaltic Pump
Sampling Equipment/ID No.: Rental from Geotech.

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

PURGING INFORMATION

Casing ID (a) ~~(in.)~~ 3/4" Unit Casing Volume (b) ~~(b)~~ WS NA ( )
Depth to Well Bottom (c) ( ) Depth to Water (d) ( )
Length of Static Water Column in Casing (e) = (c) - (d) = - = ( )
Casing Water Volume (f) = (b) × (e) = × = ( )
Casing Volumes = × (f) = ( )

9:07 AM start collecting

Volume Purged ( )	Temp. ( )	Conductance (mS/cm)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH	DO
	4.5	.582	909	clear / no odor	5.59	10.91
	4.5	.438	911	6	5.91	9.57
9:12 Changed rate 1 cup = 2 mins	4.2	.502	915	1	6.49	10.80
1 Gallon = 32 mins	5.5	.535	918	3	6.82	9.85
at 9:19 & 3/4 of Gallon went dry						
at 9:24 AM restart/barely putting more at it no gain.						
at 9:26 AM						

Total Volume Purged: 0.75 gallon Time: 9:19 AM Purged Dry (Y/N): Yes

SAMPLE PACKAGING

Container(s) Type and Volume	Filtered (Y/N)	Preservatives	Parameters
3x 40mL glass vials	No	HCl	VOCs 2-6-98 @ 1505
3x 1L amber glass	No	None	SVOCs 2-6-98 @ 1505
2x 1L amber glass	No	None	PCBs 2-6-98 @ 1600
1x 1L amber glass	No	HCl	TPH/DRO @ 1645
1x 1L plastic	Yes	HNO_3	RCRA Metals + Cr @ 1645

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	3	9	8
TIME	1	4	4	5		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 773120						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. BGGW02980203

SAMPLE LOCATION BGGW02

SAMPLE TYPE Grab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Cold Clear

CONTAINERS USED	AMOUNT COLLECTED
Plastic	1L

COMMENTS: Sample Taken At pump head in pump house. Tank was empty pump was shut off prior to Sampling water was allowed to run 20 min before Samplers. 1L collected For metals

PREPARED BY: Peggy Britt

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	9	9	8	
TIME	1	6	3	0			
PAGE	1 OF 1						
PAGE							
PROJECT NO.	773120						

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. MT GP02 980129 GW

SAMPLE LOCATION MT GP02

SAMPLE TYPE Grab Water

COMPOSITE ____ YES X NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 9'+

WEATHER Cold, RAIN, Snow Freezing

CONTAINERS USED	AMOUNT COLLECTED
Amber Glass	1 l

COMMENTS:

1 l for PCB

PREPARED BY: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	3	9	8
TIME	1	4	4	5		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	77120					

SAMPLE COLLECTION LOG

PROJECT NAME MAINE YANKEE

SAMPLE NO. BGGW02980203

SAMPLE LOCATION BGGW02

SAMPLE TYPE Grand H2O

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE ____

WEATHER 40° Sun

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

1 500 mL Plastic For RCRA Metals

PREPARED BY: M. Dodge

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	6	9	8
TIME	0	7	4	5		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. BGGW01980206

SAMPLE LOCATION BGGW01

SAMPLE TYPE Grab water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE —

WEATHER Clear, cold

CONTAINERS USED	AMOUNT COLLECTED
Plastic	1L

COMMENTS: Sample Taken From Rear Outside Faucet. Faucet Allowed To Run For 20 min before Collection 1L For Metals Analysis

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	6	9	8
TIME	0	6	0	0		
PAGE	1 OF 1					
PAGE						
PROJECT NO.	773120					

SAMPLE COLLECTION LOG

PROJECT NAME Maine Yankee

SAMPLE NO. BGGW03980206

SAMPLE LOCATION BG GW03 Edgecomb INN

SAMPLE TYPE Grab Water

COMPOSITE ____ YES X NO

COMPOSITE TYPE —

DEPTH OF SAMPLE ____

WEATHER Cold . clear

CONTAINERS USED	AMOUNT COLLECTED
Plastic	1l

COMMENTS: Sample Taken From Bathroom Faucet IN Room #4 OF Edgecomb INN IN Wisc assett Faucet allowed TO Run FOR 20 MIN before collection. 1l collected For metals Analysis

PREPARED BY: R Gregg Roff

APPENDIX G

LETTERS FROM PAINT MANUFACTURERS

Carboline Company
350 Hanley Industrial Court - St. Louis, MO 63144 - 314-644-1000 - FAX 314-644-4617

carboline
A Total Quality Company

February 9, 1998

Steve Dahlgren
Maine Yankee Atomic Plant
Ferry Point Road
Wiscasset, ME 04578

RE: Carbo Zinc 11 installed at Maine Yankee Atomic Plant

Dear Steve:

As per my conversation with Phil Garrett on February 9, 1998, we never used any material containing PCBs as an ingredient in our Carbo Zinc 11. Consequently, our Carbo Zinc 11 does not contain any PCBs.

If I can be of further assistance, please do not hesitate to call.

Sincerely,

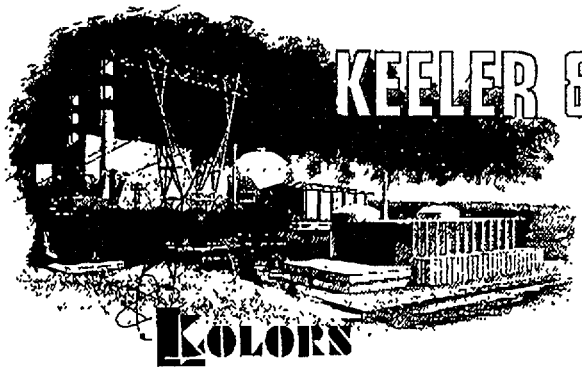
James J. Fleck

James J. Fleck
Technical Service Engineer
(800) 848-4645

cc: JOS, File

An RPM Company

50 YEARS OF EXCELLENCE CARBOLINE COMPANY 1947-1997



KEELER & LONG INC.

Manufacturers of SPECIALTY PAINTS FOR
UTILITY AND INDUSTRIAL FACILITIES

P.O. BOX 460, WATERTOWN, CONNECTICUT 06795
TEL: (860) 274 - 6701 • FAX: (860) 274 - 5857

February 6, 1998

Phillip Garrett
c/o Glenda Mitchell
GTS Duratek
Ferry Point Road
Wiscasset, ME 04578

Dear Phillip:

I am writing in response to our telephone conversation this afternoon.

Please let this serve as documentation that Keeler & Long has never added PCBs to their coatings.

I trust this paperwork is satisfactory. Please do not hesitate to call me if there are any problems or questions.

Very truly yours,

Lynn P. O'Brien
Manager, Regulatory Compliance

LOB:

/misc_corr/1998/MeYank_A

AMERON INTERNATIONAL

Protective Coatings Group
Headquarters:
201 North Berry Street
P.O. Box 1020 (92822-1020)
Brea, California 92821

Telephone: 714/529-1951
Fax: 714/990-0437

Internet: www.ameron-net.com

February 10, 1998

VIA FAX: 207 / 882-4995

Phillip Garrett
c/o: Steve Dahlgren
MARINE YANKEE ATOMIC PLANT
Terry Point Road
Wiscasset, ME 04578

Dear Mr. Garrett:

The two Ameron products of concern - Amercoat 71 and Amercoat 66 are both epoxy based products, and as a consequence would not contain any Polychlorinated Biphenyls (PCB).

Very truly yours,

Margaret E. Coon

Margaret E. Coon, Administrator
Regulatory Compliance

MEC:kls

DuPont High Performance Coatings
Wilmington, DE 19898

DuPont High Performance Coatings

February 12, 1998

Mr. Phillip Garrett
Maine Yankee Power Plant
Fax: 207-882-4995

Dear Phillip:

RE: Corlar® 823-8022 White Epoxy Enamel and VG-8339 activator

We were unable to retrieve the old formulas for the above codes. However, our chemist feels that PCB'S would not be found in these codes. Currently none of our formulations contain PCB'S.

I apologize for not being able to give you an absolute answer, hopefully this will be of some help.
If I can be of additional assistance, please give me a call at (800) 572-1568.

Very truly yours,

John Taggart
High Performance Coatings

APPENDIX H

LETTERS FROM ELECTRICAL WIRE AND CABLE MANUFACTURERS

BIW Cable Systems, Inc.
A DRAKA USA COMPANY

Draka USA Corporation
Member of the Draka Holding Group

22 Joseph E. Warner Blvd.
No. Dighton
Massachusetts 02764

Telephone
508 / 822-5444

Telefax
508 / 822-1411

Maine Yankee Atomic Plant
Mr. Philip Garrett
GTS Duratek
Fax #207-882-4995

February 20, 1998

Dear Philip,

To the best of my knowledge, there were no PCB's in the insulation and jacket materials used in the manufacture of electrical cable supplied to Maine Yankee Atomic Plant by BIW Cable Systems Inc.

Should you have any additional questions or comments, please call.

Yours truly,

Tom Reno
Applications Engineer

cc: G. Petrie
J. Sawicki

BICCCables

BICC Brand-Rex Company

1600 West Main Street
Willimantic, CT 06226-1128
Tel: (860) 456-8000 Fax: (860) 450-7023

March 27, 1998

Mr. Steve Dahlaren, Project Manager
Maine Yankee Power Plant
Ferry Point Road
Wiscasset, ME 04578

RE: BICC Brand-Rex Utility Cable vs. PCB Content

Dear Mr. Dahlaren:

This letter is being sent to inform you that the utility grade cables we supply you contain no PCB's.

Regards,

Geoffrey D. Wilson
Director of Research & Development

GDW/jh

c: G. Liskom
S. Sandberg
P. Garrett

Belden

February 17, 1998

Belden Wire & Cable Company
P.O. Box 1980
Richmond, Indiana 47375-1980

2200 U.S. Highway 27 South
Richmond, Indiana 47374-7279
Telephone: 765 983 5200
Facsimile: 765 983 5294

Attn: Phil Garrett c/o Steve Bahlgren
Main Yankee Atomic Plant
Ferry Point Road
Wiscasset, ME 04578

Re: Belden Part(s): 8762, 9327, 9344, 9494, 9553, 82259

Dear Phil Garrett:

Under the current standard, our product would be classified as an "article" as per the OSHA Hazard Communication law (Title 29, Code of Federal Regulations, Part 1910.1200):

> Article - A Manufactured item: (1) which is formed to a specific shape or design during manufacture; (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which under normal conditions of use does not release more than very small quantities .. of a hazardous chemical, .. and does not pose a physical hazard or health risk to employees.

As such, the standard would not apply. Therefore, a Material Safety Data Sheet would not be required. [Reference: 29 CFR 1910.1200(b)(6)(v)].

If you feel this interpretation is incorrect or if you require additional information on this matter, please contact us.

Sincerely,

Gary L. Tong
Manager, Environmental Affairs

P:\WPDATA\SAFETY\MSDS\MSDSREQ.LET

ROCKBESTOS SURPRENANT CABLE CORPORATION
ENGINEERED WIRE AND CABLE

Clinton, Massachusetts
172 Sterling Street
Clinton, MA 01510-1922 USA
Tel: 508-365-6331
Fax: 508-365-4054

East Granby, Connecticut
20 Bradley Park Road
P.O. Box 1102
East Granby, CT 06026-1102 USA
Tel: 860-653-8300
Fax: 860-653-8301

Date: February 18, 1998

Mr. Philip Garrett
Maine Yankee Power Plant

Tel: (207) 882 - 4902
Fax: (207) 882 - 4995

Subject: Inclusion of PCB's in the insulation or jackets for the products supplied from our E. Granby manufacturing location:
(1) Triplex 3/C 12 AWG, RSS-3-021 — Firewall^{R} III – XLPE/CSPE.
(2) Triplex 3/C 6 AWG, RSS-3-021 — Firewall^{R} III – XLPE/CSPE.
(3) 3/C 12 AWG, PNR-X90, 600 V — PE/Nylon + PVC Jacket.
(4) 500 Kcmil 600V, 90°C.
(5) Firewall^{R} III nuclear rated cables – XLPE/CSPE.

Dear Mr. Garrett:

We refer to our exchange of communications with regards to the inclusion of PCB's, in particular, in the products listed above and in general with the products currently being manufactured by Rockbestos-Surprenant Cable corp. and detail our comments below:

(1) The formulations of the compounds for the insulation and jackets for the above products do not have PCB as an one of the constituent ingredients.

(2) The insulating compounds of the identifiable items is either cross-linked Polyethylene (XLPE), or Polyethylene (PE) with a Nylon jacket on each conductor. None of these materials contain PCB's.

(3) The overall jacket compound of the identifiable items is either Polyvinyl Chloride (PVC), or Chlorosulfonated Polyethylene (CSPE). Neither of these compounds contain PCB's.

In general it is very safe to say that we have not intentionally added any PCB's into any of our formulations for insulating or jacketing compounds for our cable products. Should you have any further questions, please give us a call.

Sincerely,

T. S. Bhat
Dir. Of Application Engineering

CC: D. Reed, T. Reilly, D. Masakowski, M. Mennone, D. Tremaglio, File-Maine Yankee Pwr

APPENDIX I

GUIDELINE VALUES UTILIZED TO ESTABLISH TRIGGER VALUES

Appendix I contains the following tables:

1. Table 4 Remedial Action Guidelines for Contaminated soils from Maine DEP

2. Table 1 Summary of Remediation Standards for Oil Contaminated Soil and Ground/Water from Maine DEP

3. Summary of State and Federal Drinking Water Guidelines from the Maine Bureau of Health

Table 4 - Remedial Action Guidelines for Contaminated Soils

CHEMICAL	CAS Number	Residential Guideline (mg/kg)	Trespasser Guideline (mg/kg)	Adult Worker Guideline (mg/kg)	Basis	Groundwater Guideline (mg/kg)	Basis
1,1,1-Trichloroethane	71-55-6	260	1840	350	Inhalation, NC	2.00	SSL
1,1-Dichloroethane	75-34-3	645	4520	860	Inhalation, NC, Ceiling	23.00	SSL
1,1-Dichloroethene	75-35-4	0.2	3	0.3	Inhalation, C	0.06	SSL
1,1,1,2-Tetrachloroethane	630-20-6	660	2400	2140	Ingestion, C		
1,1,2-Trichloroethane	79-0-5	3	70	7	Inhalation, C	0.02	SSL
1,2-Dichlorobenzene	95-50-1	2670	10000	3560	Inhalation, NC, Ceiling	17.00	SSL
1,2-Dichloroethylene (trans)	156-60-5	135	940	180	Inhalation, NC	0.70	SSl
1,2,4-Trichlorobenzene	120-82-1	540	3800	720	Inhalation, NC	5.00	SSL
2,4-Dichlorophenol	120-83-2	16	112	22	Inhalation, NC	1.00	SSL
2,4,5-T	93-76-5	1900	10000	10000	Ingestion, NC, Ceiling		
2,4,5-TP	95-95-4	10000	10000	10000	Ceiling	270.00	SSL
Acetone	67-64-1	475	3330	635	Inhalation, NC	16.00	SSL
Alachlor	15972-60-8	210	780	700	Ingestion, C		
Aroclor 1016	12674-11-2	0.1	0.2	0.4	Dermal, C		
Arsenic	7440-38-2	10	30	30	Ingestion, C	29.00	SSL
Atrazine	1912-24-9	6650	10000	10000	Ingestion, NC, Ceiling		
Barium	7440-39-3	10000	10000	10000	Ceiling	1600.00	SSL
Benzene	71-43-2	5	105	10	Inhalation, C	0.03	SSL
Benzo(a)pyrene (cPAH)	50-32-8	2	9	7	Ingestion, C	8.00	SSL
Beryllium	7440-41-7	4	15	10	Ingestion, C	63.00	SSL
Bis(2-ethylhexyl) phthalate	117-81-7	1220	4460	3970	Ingestion, C	3600.00	SSL
Cadmium	7440-43-9	27	35	23	Dermal, NC	8.00	SSL
Chlordane	57-74-9	9	50	20	Inhalation & ingestion,C & NC	10.00	SSL
Chlorobenzene	108-90-7	310	2180	415	Inhalation, NC	1.00	SSL
Chromium (+6)	18540-29-9	950	5350	10000	Ingestion, NC, Ceiling	38.00	SSL
Copper	7440-50-8	650	600	600	New Jersey		
Cyanide	57-12-5	3800	10000	10000	Ingestion, NC, Ceiling	40.00	SSL
DDT	50-29-3	50	180	160	Ingestion, C	32.00	SSL
Dieldrin	60-57-1	0.3	4	0.6	Inhalation & Ingestion, C	0.004	SSL
Dinoseb	88-85-7	5	35	7	Inhalation, NC		
Endosulfan	115-29-7	17	120	22	Inhalation, NC	18.00	SSL
Endrin	72-20-8	60	320	80	Inhalation & Ingestion, NC	1.00	SSL
Ethylbenzene	100-41-4	1670	10000	2210	Inhalation, NC, Ceiling	13.00	SSL
Heptachlor	76-44-8	4	14	12	Ingestion, C	23.00	SSL
Lead	7439-92-1	375	700	700	DHS, Ceiling		
Malathion	121-75-5	3800	10000	10000	Ingestion, NC, Ceiling		
Mercury	7439-97-6	60	320	610	Ingestion, NC	2.00	SSL
Methyl Ethyl Ketone	78-93-3	10000	10000	10000	Ceiling		
Methylene Chloride	75-9-2	13	275	28	Inhalation, C	0.02	SSL

Molybdenum	7439-98-7	950	5350	10000	Ingestion, NC		
Napthalene(PAH)	91-20-3	245	1710	325	Inhalation, NC	84.00	SSL
Nickel	7440-2-0	3800	10000	10000	Ingestion, NC	130.00	SSL
Parathion	56-38-2	1140	6420	10000	Ingestion, NC		
PCBs	1336-36-3	2.2	8.1	7.2	Ingestion, C		
Pentachlorophenol	87-86-5	1	21	2	Inhalation, C	0.03	SSL
Selenium	7782-49-2	950	5350	10000	Ingestion, NC	5.00	SSL
Silver	7440-22-4	950	5350	10000	Ingestion, NC, Ceiling	34.00	SSL
Tetrachloroethylene	127-18-4	3	65	7	Inhalation, C	0.06	SSL
Thimet (Phorate)	298-2-2	40	210	400	Ingestion, NC		
Toluene	108-88-3	2390	10000	3190	Inhalation, NC, Ceiling	12.00	SSL
Trichloroethene	79-1-6	19	400	40	Inhalation, C	0.06	SSL
Vinyl Chloride	75-1-4	0.04	0.8	0.1	Inhalation, C	0.01	SSL
Xylene	1330-20-7	10000	10000	10000	Ceiling	190.00	SSL
Zinc	7440-66-6	1500	1500	1500	New Jersey	12000.00	SSL

Updated May 20, 1997

Key:

C--Carcinogen
NC--Non carcinogen
DHS--Maine Department of Human Services, recommended guideline
New Jersey--New Jersey Department of Environmental Protection and Energy, 1992 Proposed Rule Cleanup Standards for Contaminated Sites, NJAC 7:26D
SSL--US Environmental Protection Agency, Soil Screening Guidance, May 1996

PROCEDURAL GUIDELINES FOR ESTABLISHING STANDARDS FOR REMEDIATION OF OIL CONTAMINATED SOIL AND GROUND WATER

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF HAZARDOUS MATERIALS & SOLID WASTE CONTROL

APPROVED JANUARY 11, 1995

EFFECTIVE FEBRUARY 1, 1995

TABLE 1

SUMMARY OF REMEDIATION STANDARDS

FOR OIL CONTAMINATED SOIL & GROUND WATER

CLEAN UP STANDARD	Free Product Removal	CONTAMINATED SOIL STANDARDS					DISSOLVED PHASE PRODUCT				
		Saturated Soil	Gasolines	Test Mthd	Fuel Oils/Kero. (1)	Test Mthd	Gasolines	MTBE	Benzene	Fuel Oil(1)	Test Mthd
ST	yes	yes	5 mg/kg	Lab (2)	10 mg/kg	Lab (2)	50 ppb	50 ppb	5 ppb	50 ppb	Lab (4)
IN	yes	yes	5 mg/kg	Lab (2)	10 mg/kg	Lab (2)	None	None	None	None	NA
BL2	yes	yes	500-1000 ppm (3)	Field Hdspace	200-400 ppm (3)	Field Hdspace	None	None	None	None	NA
BL1	yes	yes	None	NA	None	NA	None	None	None	None	NA

Footnotes:

(1) Does not include heavy oils that are heated while being stored. Heavy oil clean-up standards are decided on a case by case basis. Includes #2 heating oil, diesel fuel, kerosene and heating oils other than heavy oils as well as a waste oil that is not a hazardous waste.

(2) Laboratory methods for gasoline in soil and fuel oil in soil are DEP 4.2.3 and DEP 4.1.2, respectively. These DEP SOPs will be superceded by methods certified by the Maine Bureau of Health in upcoming laboratory certification regulations, adopted by that agency.

(3) If laboratory analysis is used, the cleanup standard is 50-100 mg/kg for each gasolines and fuel oils, as determined by methods in Note 2.

(4) Laboratory methods for testing water are DEP Standard Operating Procedures 4.2.1 or 4.2.14P for gasoline and 4.1.1 for fuel oil and waste oil. Upon adoption of hydrocarbon lab method certification regulations by the Maine Bureau of Health lab methods certified by those rules will supercede the DEP SOPs.

BUREAU OF HEALTH - ENVIRONMENTAL TOXICOLOGY PROGRAM
Department of Human Services
11 State House Station, Augusta ME 04333-0011. (207) 287-6455

SUMMARY OF STATE AND FEDERAL DRINKING WATER GUIDELINES *

* parts per billion

CHEMICALS-INORGANICS	EPA LIFETIME HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
Aluminum	-	-	1430	50-200
Antimony	3	D		6
Arsenic	-	A	--	50
Asbestos (fibers/l>10mm)	-	A	7MFL	7MFL
Barium	2000	D	1500	2000
Beryllium	-	B2	-	4
Boron	600	D	620	-
Bromide	-	-	660	10
Cadmium	5	B1	5	5
Chloramine	-	-	166	4000
Chlorate	-	-	7	-
Chloride	-	-	-	250.000*
Chlorine	-	D	-	4 (P)
Chlorine dioxide	300	D	60	800
Chlorite	80	D	7	1000
Chromium	100	D	100	100
Copper	-	D	--	1300+
Cyanide	200	D	154	200
Fluoride	-	D	2400	4000*
Iodide	-	-	340	-
Iron	-	-	-	300*
Lead	-	B2	-	15
Manganese	-	-	800	50*
Mercury	2	D	2	2
Molybdenum	40	D	-	-

CHEMICALS-INORGANICS	EPA LIFETIME HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
Nickel	100	D	100	100
Nitrate (as N)	-	-	10000	10000
Nitrite (as N)	-	-	1000	1000
Nitrate + Nitrite (as N)	-	-	10000	10000
Selenium	-	-	10	50
Silver	100	D	50	100*
Sodium	-	-	-	-
Strontium	17000	D	2400	-
Sulfate	-	-	-	500,000 250,000*
Thallium	0.4	-	0.4	2
Vanadium	-	D	-	-
White phosphorous	0.1	D	0.1	-
Zinc	2000	D	-	5000*
Zinc chloride (Measured as Zinc)	2000	D	2000	-

P = Proposed
* = Secondary MCL
+ = Action Level (treatment technique)

CHEMICALS - ORGANICS	EPA HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
Acrylamide	-	B2	.1	TT
Adipate (dietylhexyl)	400	C	-	400
Alachlor	-	B2	2	2
Aldicarb	7	D	2	7
Aldicarb sulfone	7	D	-	7
Aldicarb sulfoxide	7	D	-	7
Atrazine	3	C	3	3
Benz(a)anthracene (PAH)	-	B2	-	-
Benzene	-	A	5	5
Benzo(a)pyrene (PAH)	-	B2	-	0.2
Benzo(b)fluoranthene (PAH)	-	B2	-	-
bis-2-Chloro isopropyl ether	300	D	250	-
Bromacil	90	C	25	-
Bromobenzene	-	-	-	-
Bromochloroacetonitril	-	-	-	-
Bromochloromethane	90	-	90	-
Bromodichloromethane (THM)	-	B2	-	100_t
Bromoform (THM)	-	B2	-	100_t
Bromomethane	10	D	10	-
Carbofuran	40	E	40	40
Carbon tetrachloride	-	B2	3	5
Carboxin	700	D	700	-
Chloral hydrate	60	C	-	60
Chlordane	-	B2	0.3	2
Chlorodibromomethane (THM)	60	C	-	100_t
Chloroform (THM)	-	B2	-	100_t
Chloromethane	3	C	3	-
Chlorotoluene p	100	D	100	-
2,4-D	70	D	-	70
DDT	-	B2	0.8	-
Dalapon	200	D	200	200

CHEMICALS - ORGANICS (CONT.)	EPA HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
ı(2ethylhexyl)adipate	400	C	400	400
Dibenz(a,h)anthracene (PAH)	-	B2	-	.3
Dibromochloropropane (DBCP)	-	B2	.2	0.2
Di-n-butyl phthalate (PAE)	-	D	220	-
Dicamba	200	D	200	-
Dichloroacetic acid	-	B2	-	60_3
Dichloroacetonitrile	6	C	6	-
Dichlorobenzene o-	600	D	600	600
Dichlorobenzene m-$_2$	600	D	600	600
Dichlorobenzene p-	75	C	27	75
Dichlorodifluoromethane	1000	D	1000	-
Dichloroethane (1,1-)	-	-	70	-
Dichloroethane (1,2-)	-	B2	5	5
Dichloroethylene (1,1-)	7	C	7	7
Dichloroethylene (cis-1,2-)	70	D	70	70
Dichloroethylene (trans-1,2-)	70	D	70	100
ıichloromethane	-	B2	-	5
Dichlorophenol (2,4-)	20	D	20	-
Dichloropropane (1,2-)	-	B2	5	5
Dieldrin	-	B2	0.02	-
Diethyl phthalate (PAE)	5000	D	5000	-
Diethylhexyl phthalate (PAE)	-	B2	25	6
1,3-Dinitro benzene	1	D	1	-
Dinoseb	7	D	2	7
Dioxane p-	-	B2	70	-
Diphenamid	200	D	200	-
Diphenylamine	200	D	200	-
Diuron	10	D	14	-
Endothall	100	D	100	100
Endrin	2	D	2	2
Epichlorohydrin	-	B2	35	TT

CHEMICALS - ORGANICS (CONT.)	EPA HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
Ethylbenzene	700	D	700	700
Ethylene dibromide (EDB)	-	B2	0.005	0.05
Ethylene glycol	7000	D	5500	-
ETU	-	B2	3	-
Fenamiphos	2	D	2	-
Fluometron	90	D	90	-
Fluorotrichloromethane	2000	D	2000	-
Fonofos	10	D	14	-
Formaldehyde	1000	B1	30	-
Fuel Oil	-	-	50	-
Gasoline, unleaded	-	-	50	-
Glyphosate	700	E	700	700
Heptachlor	-	B2	0.08	0.4
Heptachlor-epoxide	-	B2	0.04	0.2
Hexachlorobenzene	-	B2	0.2	1
Hexachlorobutadiene	1	C	1	-
Hexachlorocyclopentadiene	-	D	50	50
Hexachloroethane	1	C	1	-
Hexane (n)	-	D	4000	-
Hexazinone	200	D	200	-
HMX	400	D	400	-
Isopropylmethylphosphonate	700	D	700	-
Lindane	0.2	C	0.2	0.2
Malathion	200	D	40	-
Maleic hydrazid	4000	D	3500	-
MCPA	10	E	2.5	-
Methomyl	200	D	50	-
Methoxychlor	40	D	100	40
Methyl ethyl ketone	-	-	170	-
Methyl parathion	2	D	2	-
Methyl tert butyl ether	20-40	C	-	35P (Maine)

CHEMICALS - ORGANICS (CONT.)	EPA HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
tolachlor	70	C	100	-
Metribuzin	100	D	175	-
Monochlorobenzene	100	D	47	100
Naphthalene	20	D	25	-
Nitroguanidine	700	D	700	-
Nitrophenol p-	60	D	83	-
Oxamyl (Vydate)	200	E	200	200
Paraquat	30	E	30	-
Parathion	-	-	9.0	-
Pentachlorophenol	-	B2	1	1
Phenol	4000	D	4000	-
Picloram	500	F	300	500
Polychlorinated biphenyls(PCBs)	-	B2	0.05	0.5
Prometon	100	D	100	-
Propachlor	90	D	90	-
Propham	100	D	120	-
DX	2	C	3	-
Rotenone			4	
Simazine	4	C	4	4
Styrene	100	C	5	100
2,4,5-T	70	C	70	-
2,3,7,8-TCDD (Dioxin)	-	B2	2.2 E-6	3 E-8
Tebuthiuron	500	D	500	-
Terbacil	90	E	90	-
Terbufos	0.9	D	0.9	-
Tetrachloroethane(1,1,1,2)	70	C	70	-
Tetrachloroethylene	-	-	3	5
Toluene	1000	D	1400	1000
Toxaphene	-	B2	0.3	3
2,4,5-TP	50	D	1	50
Trichlorobenzene (1,2,4-)	70	D	70	70
Trichlorobenzene (1,3,5)	40	D	40	-

CHEMICALS - ORGANICS (CONT.)	EPA HEALTH ADVISORY	STATUS CARCINOGENS	MEG	MCL
richloroethane (1,1,1-)	200	D	200	200
Trichloroethane (1,1,2-)	3	C	3	5
Trichloroethylene	-	B2	5	5
Trichloropropane (1,2,3-)	40	B2	40	-
Trifluralin	5	C	2	-
Trinitroglycerol	5	-	5	-
Trinitrotoluene	2	C	2	-
Vinyl chloride	-	A	0.15	2
Xylenes	10000	D	600	10000

[1] Current MCL; total for all THMs combined cannot exceed the 100ppb level (EPA is proposing 80 ppb).
[2] The values for m-dichlorobenzene are based on data for o-dichlorobenzene.
[3] Total for all haloacetic acids cannot exceed 60 ppb level.

MCL = Maximum Contaminant Level.
RFD = Reference Dose.
MEG = State of Maine Maximum Exposure Guideline.
A = Known Human Carcinogen.
B1 = Epidemiological studies.
B2 = Animal Studies.
C = Possible human carcinogen.
D = Not classifiable.
E = No evidence of carcinogen for humans.
F = Final
P = Proposed

APPENDIX J

ASBESTOS QUANTITY SURVEY SAMPLING LOCATIONS AND ANALYTICAL RESULTS

ENVIRONMENTAL MANAGEMENT, INC.

P.O. BOX 391 BRUNSWICK, MAINE 04011 (207) 729-7549 FAX (207) 721-0892

March 16, 1998

Dave Lovett
Maine Yankee Atomic Power Co.
P.O. Box 408
Wiscasset, Maine 04578

Dear Mr. Lovett:

Reported on the following page(s) are the results of:

83 - Bulk material sample(s) submitted to this laboratory for analysis for asbestos content by Polarized Light Microscopy. (EPA test method #600/M4-82-020)

Environmental Management Inc., and its personnel will not be liable for secondary or consequential damages arising from use of information contained in this report. Liability shall extend to providing duplicate analysis only.

If you have any questions or require further information, please do not hesitate to call us at (207) 729-7549 or 1-800-287-7549. We will retain samples for a period of three months for your future reference.

Sincerely,
Environmental Management Inc.

John D. Gill
Laboratory Manager

JDG/lcb

cc: Brian Vogue - G.T.S/Duratek

CLIENT:	GTS - Duratek	**PROJECT:**	

BULK SAMPLE LOG SHEET

BUILDING:	Maine Yankee Atomic Power	**INSPECTOR:**	Al Burnham
LOCATION:	Wiscasset, Maine	**DATE:**	3/12/98

LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4811 98-28-01A	1/27/98	northeast ceiling tile	40% Cellulose 50% Fiberglass 10% CaCo3
CB-4812 98-28-01B	1/27/98	men's room ceramic tile adhesive	5% Cellulose 5% CaCo3 90% Binder
CB-4813 98-29-01A	1/27/98	roof shingles	40% Cellulose 10% Fiberglass 20% CaCo3 30% Binder
CB-4814 98-29-02A	1/27/98	roof shingles	40% Cellulose 10% Fiberglass 20% CaCo3 30% Binder
CB-4815 98-29-03A	1/27/98	entrance room ceiling	100% Cellulose
CB-4816 *98-29-04A	1/27/98	entrance room wall board	100% Cellulose

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4817 *98-29-05A	1/27/98	back entrance ceiling	100% Cellulose
CB-4818 98-29-06A	1/27/98	back entrance insulation in wall	100% Fiberglass
CB-4819 98-29-07A	1/27/98	back entrance insulation in wall	100% Fiberglass
CB-4820 98-29-08A	1/27/98	back entrance wall board	100% Cellulose
CB-4821 98-29-09A	1/27/98	plaster from ceiling wall	30% Cellulose 60% CaCo3 10% Horse Hair
CB-4822 98-29-10A	1/27/98	northeast room basement (pump house add-on)	40% Cellulose 5% Fiberglass 40% CaCo3 15% Binder

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CB-4823 98-34-01	2/3/98	ceiling panel	100% Cellulose
CB-4824 98-34-02	2/3/98	insulation over ceiling	70% Cellulose 20% CaCo3 10% Organic Material
CB-4825 98-34-03	2/3/98	linoleum	**Layer 1** 100% Cellulose **Layer 2** 10% Cellulose 60% CaCo3 30% Quartz
CB-4826 98-34-04	2/3/98	linoleum bottom layer	**Layer 1** 100% Cellulose **Layer 2** 10% Cellulose 70% CaCo3 20% Quartz
CB-4827 98-34-05	2/3/98	wall plaster	10% Cellulose 90% CaCo3
CB-4828 98-34-06	2/3/98	fiberboard by cellar way	100% Cellulose

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CB-4829 98-34-07	2/3/98	counter tops	10% Cellulose 90% Quart - Synthetic Binder
CB-4830 98-35-01	2/4/98	living room ceiling tile	60% Cellulose 30% Fiberglass 10% CaCo3
CB-4831 98-35-02	2/4/98	living room wallboard	80% Cellulose 20% CaCo3
CB-4832 98-35-03	2/4/98	small room opposite kitchen ceiling	**5% Chrysotile** 45% Cellulose 10% Fiberglass 40% CaCo3
CB-4833 98-35-04	2/4/98	small room opposite kitchen wallboard	100% Cellulose
CB-4834 98-35-05	2/4/98	downstairs hallway ceiling	80% Cellulose 20% CaCo3

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CB-4835 98-35-06	2/4/98	downstairs hallway wallboard	10% Cellulose 90% CaCo3
CB-4836 98-35-07	2/4/98	downstairs hallway closet wallboard	100% Cellulose
CB-4837 *98-35-08	2/4/98	back bedroom closet ceiling	60% Cellulose 40% CaCo3
CB-4838 98-35-09	2/4/98	back bedroom closet wallboard	90% Cellulose 10% CaCo3
CB-4839 98-35-10	2/4/98	left bathroom downstairs	60% Cellulose 40% CaCo3
CB-4840 98-35-11	2/4/98	left bathroom downstairs	100% Cellulose

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CB-4841 98-35-12	2/4/98	right bathroom downstairs	60% Cellulose 40% CaCo3
CB-4842 98-35-13	2/4/98	bathroom floor tile	**Layer 1** 30% Cellulose 70% CaCo3 **Layer 2** 100% Vinyl Binder
CB-4843 98-35-14	2/4/98	back bathroom ceiling tile	10% Cellulose 90% CaCo3
CB-4844 98-35-15	2/4/98	back bedroom wallboard	20% Cellulose 80% CaCo3
CB-4845 98-35-16	2/4/98	back bedroom ceiling (new plaster)	100% CaCo3
CB-4846 98-35-17	2/4/98	back bedroom ceiling	100% CaCo3

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CB-4847 98-35-18	2/4/98	back bedroom wallboard	**Layer 1** 100% Cellulose **Layer 2** 90% CaCo3 10% Horse Hair
CB-4848 *98-40-01	2/8/98	ceiling south end fire protection	60% Cellulose 40% CaCo3
CB-4849 98-40-02	2/8/98	ceiling south end storage area	60% Cellulose 40% CaCo3
CB-4850 98-40-03	2/8/98	roof shingle south end top layer	30% Cellulose 10% Fiberglass 20% CaCo3 40% Binder
CB-4851 *98-40-04	2/8/98	roof shingle south end bottom layer	30% Cellulose 10% CaCo3 60% Binder
CB-4852 98-40-05	2/8/98	roof seam south end (paper)	40% Cellulose 20% CaCo3 40% Binder

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CB-4853 98-41-01	2/9/98	northwest room ceiling	20% Cellulose 80% CaCo3
CB-4854 98-41-02	2/9/98	northwest room shingles	60% Cellulose 20% Fiberglass 20% Binder
CB-4855 *98-41-03	2/9/98	room by boiler ceiling	20% Cellulose 40% CaCo3 40% Mica / Quartz
CB-4856 98-41-04	2/9/98	room by boiler walls	100% CaCo3
CB-4857 98-41-05	2/9/98	room by boiler ceiling paper	80% Cellulose 20% Fiberglass
CB-4858 98-41-06	2/10/98	boiler room ceiling	20% Cellulose 60% CaCo3 20% Horse Hair

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CB-4859 98-41-07	2/10/98	boiler room wall patch	40% Cellulose 60% CaCo3
CB-4860 *98-41-8	2/10/98	insulation behind wall	100% Fiberglass
CB-4861 98-41-09	2/10/98	northeast center room ceiling	40% Cellulose 40% CaCo3 20% Horse Hair
CB-4862 98-41-10	2/10/98	northeast center room wall	30% Cellulose 60% CaCo3 10% Quartz
CB-4863 98-41-11	2/10/98	northeast center room floor covering	40% Cellulose 20% CaCo3 40% Binder
CB-4864 98-41-12	2/10/98	northeast center room closet ceiling	30% Cellulose 60% CaCo3 10% Horse Hair

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4865 98-41-13	2/10/98	hallway floor covering	30% Cellulose 10% Fiberglass 40% CaCo3 20% Binder
CB-4866 98-41-14	2/10/98	hallway ceiling	30% Cellulose 60% CaCo3 10% Horse Hair
CB-4867 98-41-15	2/10/98	basement stairs runner	10% Cellulose 90% Binder
CB-4868 98-41-16	2/10/98	insulation under porch	100% Fiberglass
CB-4869 *98-41-17	2/10/98	stored ceiling panels	40% Cellulose 40% Fiberglass 20% CaCo3
CB-4870 98-41-18	2/10/98	northeast room ceiling	20% Cellulose 70% CaCo3 10% Quartz

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4871 98-41-19	2/10/98	northeast room fiberboard in closet	100% Cellulose
CB-4872 98-41-20	2/10/98	center bathroom flooring	40% Cellulose 40% CaCo3 20% Binder
CB-4873 98-41-21	2/10/98	center bathroom ceiling	80% Cellulose 20% Binder
CB-4874 98-41-22	2/10/98	center bathroom wall	100% Cellulose
CB-4875 98-41-23	2/10/98	master bedroom ceiling (east side)	30% Cellulose 70% CaCo3
CB-4876 98-41-24	2/10/98	master bedroom wall (east wall)	100% Cellulose

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CB-4877 98-41-25	2/10/98	roofing east side	10% Cellulose 30% Fiberglass 20% CaCo3 40% Binder
CB-4878 98-41-26	2/10/98	master bedroom ceiling inner	20% Cellulose 80% CaCo3
CB-4879 98-41-27	2/10/98	front bathroom floor tile	5% Chrysotile 5% Fiberglass 70% CaCo3 20% Quartz
CB-4880 98-41-28	2/10/98	front bathroom wall insulation	100% Fiberglass
CB-4881 98-42-01	2/11/98	building south end of cooling pool - roof	40% Cellulose 60% Binder
CB-4882 *98-42-02	2/110/98	building north end of cooling pool - roof	40% Cellulose 60% Binder

CLIENT:	GTS-Duratek	**PROJECT:**	QC Samples

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4837 *98-35-08	2/4/98	back bedroom closet ceiling	40% Cellulose 60% non-fibrous
CB-4882 *98-42-02	2/110/98	building north end of cooling pool - roof	50% Cellulose 50% non-fibrous
CB-4848 *98-40-01	2/8/98	ceiling south end fire protection	40% Cellulose 60% non-fibrous
CB-4851 *98-40-04	2/8/98	roof shingle south end bottom layer	30% Cellulose 70% non-fibrous
CB-4855 *98-41-03	2/9/98	room by boiler ceiling	25% Cellulose 75% non-fibrous
CB-4816 *98-29-04A	1/27/98	entrance room wall board	100% Cellulose

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4883 98-42-03	2/11/98	wallboard	20% Cellulose 60% CaCo3 20% Horse Hair
CB-4884 98-42-04	2/11/98	wallboard	20% Cellulose 70% CaCo3 10% Horse Hair

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LAB # SAMPLE #	SAMPLE DATE	DESCRIPTION OF SAMPLE LOCATION	RESULTS
CB-4817 *98-29-05A	1/27/98	back entrance ceiling	95% Cellulose 5% non-fibrous
CB-4869 *98-41-17	2/10/98	stored ceiling panels	45% Cellulose 45% Fiberglass 10% CaCo3
CB-4860 *98-41-8	2/10/98	insulation behind wall	80% Fiberglass 10% Cellulose 10% non-fibrous

Environmental Management Inc.
P.O Box 391
Brunswick, Maine 04011
(207) 729-7549

BULK SAMPLING ANALYSIS REPORT

RESULT CODES

ASBESTOS

Amosite
Chrysotile
Crocidolite
NFA - Negative for asbestos
PFA - Positive for asbestos

Yellow Highlight indicates asbestos

OTHER:

Cellulose
Binder Matrix
Fiberglass
Mineral Wool
Opaques
Silicates
Synthetics
CaCo3 - Carbonates
NFM - non-fibrous material

Analysis by Polarized Light Microscopy
EPA Test Method #600 / M4-82-020

Sampled by: Client

Analyzed by: Ed I

Approved by: Ed I

John D. Pike
Laboratory Manager

[general/bulksheet]