195386

Table 1
General Data Table
Westinghouse Remediation Services, Inc.
Antech Ltd. Project No. 00-0145
Waste Characterization; 501012
Riverside Avenue

Parameter	Analytical Method	Units	Sample Identification 0001-1026 BS-1 (1/6/00)	0001-1027 BS-2 (1/6/00)	0001-1028 BS-3 (1/6/00)	0001 1029 BS-6 (1/6/00)	0001-1030 BS-7 (1/6/00)
Chloride	9251 (1)	mg/kg	-	-	-	130	760
Cyanide (Reactive)	7.3.3.2/9012 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Flash Point	1010 (1)	°F	>200	>200	120	120	>200
Oxidation Reduction Pot.		mV	-	-	-	-	-
Temperature			-	-	-	-	-
pH	9045 (1)	pH units	4.69	4.20	13.44	10.09	3.01
Sulfide (Reactive)	7.3.4.1/9030 (1)	mg/kg	<10	<10	<10	<10	<10
Percent Ash	D 482 (2)	%	1.8	31	-	0.24	-
BTU	D 240 (2)	BTU/lb	11000	9400	-	15000	-
Polychlorinated Biphenyls	8082 (1)	mg/kg	<1.0	<1.0	-	<1.0	<1.0
Total Metals:							
Silver (Total)	6010 (1)	mg/kg	0.78	<0.20	<0.20	<0.20	<0.20
Aluminum (Total)	6010 (1)	mg/kg	16	29000	<10	<10	19
Arsenic (Total)	6010 (1)	mg/kg	<0.50	2.7	<0.50	0.52	<0.50
Barium (Total)	6010 (1)	mg/kg	2.4	1500	<2.0	<2.0	72
Beryllium (Total)	6010 (1)	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Calcium (Total)	6010 (1)	mg/kg	<200	32000	<200	<200	<200
Cadmium (Total)	6010 (1)	mg/kg	0.21	5000	<0.20	<0.20	<0.20
Cobalt (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium (Total)	6010 (1)	mg/kg	4.0	19	0.81	1.0	<0.20
Copper (Total)	6010 (1)	mg/kg	5.3	13	<1.0	<1.0	<1.0
Iron (Total)	6010 (1)	mg/kg	1200	11000	13	8.8	38
Mercury (Total)	7471 (1)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (Total)	6010 (1)	mg/kg	<100	720	<100	210	110
Magnesium (Total)	6010 (1)	mg/kg	<50	4700	<50	<50	<50
Manganese (Total)	6010 (1)	mg/kg	7.6	59	12	4.1	<1.0
Sodium (Total)	6010 (1)	mg/kg	300	<200	450	1000	40000
Nickel (Total)	6010 (1)	mg/kg	<2.0	4.4	<2.0	<2.0	<2.0
Lead (Total)	6010 (1)	mg/kg	2.4	30000	<0.50	<0.50	2300
Antimony (Total)	6010 (1)	mg/kg	<0.50	26	<0.50	<0.50	<0.50
Selenium (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium (Total)	6010 (1)	mg/kg	<0.80	<0.80	<0.80	<0.80	<0.80
Vanadium (Total)	6010 (1)	mg/kg	<1.0	4.4	<1.0	<1.0	<1.0
Zinc (Total)	6010 (1)	mg/kg	10	1500	5.2	4.4	1100
TCLP(3) Metals:							
Silver (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050	-	<0.050
Arsenic (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050	-	<0.050
Barium (TCLP)	6010 (1)	mg/l	3.0	<1.0	<1.0	-	3.0
Cadmium (TCLP)	6010 (1)	mg/l	<0.050	0.26	<0.050	-	<0.050
Chromium (TCLP)	6010 (1)	mg/l	<0.050	<0.050	0.82	-	<0.050
Mercury (TCLP)	7470 (1)	mg/l	<0.010	<0.010	<0.10	-	<0.010
Lead (TCLP)	6010 (1)	mg/l	<0.050	440	1.1	-	45
Selenium (TCLP)	6010 (1)	mg/l	<0.10	<0.10	<0.10	-	<0.10
TCLP Extraction Fluid Data:							
Extraction Fluid	1311 (1)	-	No.1	No.1	NB (4)	-	No.1
pH with Deionized Water		pH units	4.84	4.07	NB	-	2.73
pH After Addition of 1 Normal HCL		pH units	NAP (5)	NAP	NB	-	NAP
pH of TCLP Extract		pH units	4.88	5.14	11.04	-	4.55
Amount of Sample Extracted		g	10.0	10.0	NB	-	10.0

See footnotes at end of table.

Table 1
Antech Ltd. Project No. 00-0145
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0001-1031 BS-8 (1/6/00)	0001-1032 BS-9 (1/6/00)	0001-1033 BS-10 (1/6/00)	0001-1034 BS-11 (1/6/00)	0001-1035 BS-12 (1/6/00)
Chloride	9251 (1)	mg/kg	-	-	59000	4500	3200
Cyanide (Reactive)	7.3.3.2/9012 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Flash Point	1010 (1)	°F	>200	>200	>200	>200	>200
Oxidation Reduction Pot.		mV	-	-	1170	-	-
Temperature			-	-	23.50	-	-
pH	9045 (1)	pH units	5.40	4.09	NAP	2.25	2.34
Sulfide (Reactive)	7.3.4.1/9030 (1)	mg/kg	<10	<10	<10	<10	<10
Percent Ash	D 482 (2)	%	0.88	32	76	0.33	6.6
BTU	D 240 (2)	BTU/lb	<50	7500	<50	<50	<50
Polychlorinated Biphenyls	8082 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Total Metals:							
Silver (Total)	6010 (1)	mg/kg	<0.20	<0.20	0.95	<0.20	0.27
Aluminum (Total)	6010 (1)	mg/kg	14	7800	87	22	270
Arsenic (Total)	6010 (1)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Barium (Total)	6010 (1)	mg/kg	2.9	1000	12	2.9	3.4
Beryllium (Total)	6010 (1)	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Calcium (Total)	6010 (1)	mg/kg	<200	2400	<200	260	210
Cadmium (Total)	6010 (1)	mg/kg	2.6	4.6	10	1.4	1.8
Cobalt (Total)	6010 (1)	mg/kg	<1.0	2.4	<1.0	<1.0	<1.0
Chromium (Total)	6010 (1)	mg/kg	2.3	34	320000	62	66
Copper (Total)	6010 (1)	mg/kg	1.8	12	<1.0	3.2	1600
Iron (Total)	6010 (1)	mg/kg	31	20000	610	1500	7600
Mercury (Total)	7471 (1)	mg/kg	<0.10	0.11	0.13	<0.10	<0.10
Potassium (Total)	6010 (1)	mg/kg	1400	3700	10000	<100	<100
Magnesium (Total)	6010 (1)	mg/kg	<50	<50	1400	<50	<50
Manganese (Total)	6010 (1)	mg/kg	1.2	84	2.0	6.4	26
Sodium (Total)	6010 (1)	mg/kg	2100	36000	<200	1200	790
Nickel (Total)	6010 (1)	mg/kg	<2.0	5.7	<2.0	<2.0	<2.0
Lead (Total)	6010 (1)	mg/kg	14	130	71	16	9.2
Antimony (Total)	6010 (1)	mg/kg	0.93	<0.50	2100	0.79	0.75
Selenium (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	1.7
Thallium (Total)	6010 (1)	mg/kg	<0.80	<0.80	76	<0.80	<0.80
Vanadium (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc (Total)	6010 (1)	mg/kg	4.0	100	46000	18	20
TCLP (3) Metals:							
Silver (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050	<0.050	<0.050
Barium (TCLP)	6010 (1)	mg/l	<1.0	<1.0	1.3	2.2	1.1
Cadmium (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (TCLP)	6010 (1)	mg/l	<0.050	0.066	1200	0.87	0.12
Mercury (TCLP)	7470 (1)	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (TCLP)	6010 (1)	mg/l	0.064	0.51	5.6	0.88	0.50
Selenium (TCLP)	6010 (1)	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10
TCLP Extraction Fluid Data:							
Extraction Fluid	1311 (1)	-	No.1	No.1	No.1	No.1	No.1
pH with Deionized Water		pH units	5.86	4.06	0.74	3.21	2.76
pH After Addition of 1 Normal HCL		pH units	1.10	NAP	NAP	NAP	NAP
pH of TCLP Extract		pH units	5.13	5.14	0.77	4.98	4.58
Amount of Sample Extracted		g	10.0	10.0	10.0	10.0	10.0

See footnotes at end of table.

Table 1
Antech Ltd. Project No. 00-0145
(Continued)

Parameter	Analytical Method	Units	Sample Identification 0001-1036 BS-14 (1/6/00)	0001-1037 BS-13 (1/6/00)	0001-1038 Method Blank (1/10/00)
Chloride	9251 (1)	mg/kg	94	2600	<1.0
Cyanide (Reactive)	7.3.3.2/9012 (1)	mg/kg	<1.0	<1.0	<1.0
Flash Point	1010 (1)	°F	120	>200	NAP
Oxidation Reduction Pot.		mV	-	-	NAP
Temperature			-	-	NAP
pH	9045 (1)	pH units	4.03	2.78	NAP
Sulfide (Reactive)	7.3.4.1/9030 (1)	mg/kg	<10	<10	NAP
Percent Ash	D 482 (2)	%	0.030	1.05	-
BTU	D 240 (2)	BTU/lb	14000	13000	-
Polychlorinated Biphenyls	8082 (1)	mg/kg	<1.0	<1.0	<1.0
Total Metals:					
Silver (Total)	6010 (1)	mg/kg	<0.20	<0.20	<0.20
Aluminum (Total)	6010 (1)	mg/kg	<10	<10	<10
Arsenic (Total)	6010 (1)	mg/kg	<0.50	<0.50	<0.50
Barium (Total)	6010 (1)	mg/kg	<2.0	<2.0	<2.0
Beryllium (Total)	6010 (1)	mg/kg	<0.20	<0.20	<0.20
Calcium (Total)	6010 (1)	mg/kg	<200	<200	<200
Cadmium (Total)	6010 (1)	mg/kg	<0.20	<0.20	<0.20
Cobalt (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0
Chromium (Total)	6010 (1)	mg/kg	1.1	1.5	<0.20
Copper (Total)	6010 (1)	mg/kg	1.1	<1.0	<1.0
Iron (Total)	6010 (1)	mg/kg	81	61	<5.0
Mercury (Total)	7471 (1)	mg/kg	<0.10	13	<0.10
Potassium (Total)	6010 (1)	mg/kg	<100	<100	<100
Magnesium (Total)	6010 (1)	mg/kg	<50	<50	<50
Manganese (Total)	6010 (1)	mg/kg	6.7	1.5	<1.0
Sodium (Total)	6010 (1)	mg/kg	600	<200	<200
Nickel (Total)	6010 (1)	mg/kg	<2.0	<2.0	<2.0
Lead (Total)	6010 (1)	mg/kg	<0.50	0.56	<0.50
Antimony (Total)	6010 (1)	mg/kg	<0.50	<0.50	<0.50
Selenium (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0
Thallium (Total)	6010 (1)	mg/kg	<0.80	<0.80	<0.80
Vanadium (Total)	6010 (1)	mg/kg	<1.0	<1.0	<1.0
Zinc (Total)	6010 (1)	mg/kg	5.9	37	<1.0
TCLP(3) Metals:					
Silver (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050
Arsenic (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050
Barium (TCLP)	6010 (1)	mg/l	<1.0	<1.0	<1.0
Cadmium (TCLP)	6010 (1)	mg/l	<0.050	<0.050	<0.050
Chromium (TCLP)	6010 (1)	mg/l	0.28	1.0	<0.050
Mercury (TCLP)	7470 (1)	mg/l	<0.10	11	<0.050
Lead (TCLP)	6010 (1)	mg/l	<0.050	0.28	<0.010
Selenium (TCLP)	6010 (1)	mg/l	<0.10	<0.10	<0.050
TCLP Extraction Fluid Data:					<0.10
Extraction Fluid	1311 (1)	-	NE	NE	No.1
pH with Dejonized Water		pH units	NE	NE	NAP
pH After Addition of 1 Normal HCL		pH units	NE	NE	NAP
pH of TCLP Extract		pH units	3.88	3.07	4.89
Amount of Sample Extracted		g	NE	NE	NAP

(1) U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Table 1
(Continued)

(2) American Society for Testing and Materials, Annual Book of ASTM Standards, Philadelphia, PA.
(3) TCLP = Toxicity Characteristic Leaching Procedure.
(4) NE = Not extractable. Sample contained less than 0.5 percent solids; therefore, the filtered sample is treated as the TCLP leachate and analyzed accordingly.
(5) NAP = Not applicable.

Table 2
TCLP Volatile Organic Analysis Data Table
EPA Method 8260(1)
Westinghouse Remediation Services, Inc.
Antech Ltd. Project No. 00-0145
Waste Characterization; 501012
Riverside Avenue

Parameter	CAS(2) Number	Units	Sample Identification			
			0001-1026 BS-1 (1/6/00)	0001-1027 BS-2 (1/6/00)	0001-1029 BS-6 (1/6/00)	0001-1031 BS-8 (1/6/00)
Benzene	71-43 2	µg/l	<50	<50	31000	88
2-Butanone	78-93-3	µg/l	<5000	<5000	<500000	<5000
Carbon tetrachloride	56-23-5	µg/l	<50	<50	<5000	<50
Chlorobenzene	108-90-7	µg/l	<1000	<1000	<100000	<1000
Chloroform	67-66-3	µg/l	<500	<500	<50000	<500
1,2-Dichloroethane	107-06-2	µg/l	<50	<50	<5000	<50
1,1-Dichloroethene	75-35-4	µg/l	<50	<50	<5000	<50
Tetrachloroethene	127-18-4	µg/l	<50	<50	<5000	<50
Trichloroethene	79-01-6	µg/l	<50	<50	<5000	<50
Vinyl chloride	75-01-4	µg/l	<50	<50	<5000	<50

See footnotes at end of table.

Table 2
Antech Ltd. Project No. 00-0145
(Continued)

Parameter	CAS (2) Number	Units	Sample Identification				
			0001-1032 BS-9 (1/6/00)	0001-1033 BS-10 (1/6/00)	0001-1034 BS-11 (1/6/00)	0001 1035 BS-12 (1/6/00)	0001-1036 BS-14 (1/6/00)
Benzene	71-43-2	µg/l	<50	<50	<50	<50	<250
2-Butanone	78-93-3	µg/l	<5000	<5000	<5000	<5000	<25000
Carbon tetrachloride	56-23-5	µg/l	<50	<50	<50	<50	<250
Chlorobenzene	108-90-7	µg/l	<1000	<1000	<1000	<1000	<5000
Chloroform	67-66-3	µg/l	<500	<500	<500	<500	<2500
1,2-Dichloroethane	107-06-2	µg/l	<50	<50	<50	<50	<250
1,1-Dichloroethene	75-35-4	µg/l	<50	<50	<50	<50	<250
Tetrachloroethene	127-18-4	µg/l	<50	<50	<50	<50	<250
Trichloroethene	79-01-6	µg/l	<50	<50	<50	<50	<250
Vinyl chloride	75-01-4	µg/l	<50	<50	<50	<50	<250

See footnotes at end of table.

Table 2
Antech Ltd. Project No. 00-0145
(Continued)

Parameter	CAS[2] Number	Units	Sample Identification	
			0001-1037 BS-13 (1/6/00)	0001-1038 Method Blank (1/10/00)
Benzene	71-43-2	µg/l	7400	<50
2-Butanone	78-93-3	µg/l	<500000	<5000
Carbon tetrachloride	56-23-5	µg/l	<5000	<50
Chlorobenzene	108-90-7	µg/l	<100000	<1000
Chloroform	67-66-3	µg/l	<50000	<500
1,2-Dichloroethane	107-06-2	µg/l	<5000	<50
1,1-Dichloroethene	75-35-4	µg/l	<5000	<50
Tetrachloroethene	127-18-4	µg/l	<5000	<50
Trichloroethene	79-01-6	µg/l	<5000	<50
Vinyl chloride	75-01-4	µg/l	<5000	<50

(1) U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2) CAS = Chemical Abstracts Services.

Toxicity Characteristic Leaching Procedure (TCLP)
Regulatory Levels

Contaminant	Regulatory Level (mg/l)	USEPA Hazardous Waste Number
Arsenic	5.0	D004
Barium	100.0	D005
Cadmium	1.0	D006
Chromium	5.0	D007
Lead	5.0	D008
Mercury	0.2	D009
Selenium	1.0	D010
Silver	5.0	D011
Benzene	0.5	D018
Carbon Tetrachloride	0.5	D019
Chlorobenzene	100.0	D021
Chloroform	6.0	D022
1,2-Dichloroethane	0.5	D028
1,1-Dichloroethene	0.7	D029
2-Butanone	200.0	D035
Tetrachloroethene	0.7	D039
Trichloroethene	0.5	D040
Vinyl chloride	0.2	D043