

Table 1
Summary of Soil Analytical Results '89-'95 6
 IB Property, Bay City, Mi
 AKT Peerless Project Number 3522F-2-20

Sample Identification and Date		CS-SB-14 (5-7)	CS-SB-15 (5-7)	CS-SB-22 (5-9)	CS-SB-22 (9-11)	CS-SB-25 (5)	CS2-SB-18B (25-27)	CS2-SB-19D (17-19)	CS2-SB-19D (27-29)	CS2-SB-20 (25-27)	CS2-SB-21 (15-17)	CS2-SB-22 (9-11)	CS2-SB-23B (13-15)	CS2-SB-25 (27-29)	CS2-SB-26 (9-11)	CS2-SB-27 (27-29)	MDEQ Generic Residential Drinking Water Protection Criteria α	MDEQ Generic Residential Groundwater Surface Water Interface Protection Criteria	MDEQ Generic Residential Soil Direct Contact Criteria α	MDEQ Generic Residential Soil Volatilization to Ambient Air Inhalation Criteria α	MDEQ Generic Residential Soil Volatilization to Indoor Air Inhalation Criteria α
Gasoline Parameters ($\mu\text{g}/\text{kg}$)	CAS#																				
Benzene	71432	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	4,000	180,000	13,000	1,600
Ethylbenzene	100414	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,500	360	140,000	9,500,000	140,000
Methylene chloride	75092	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	130	ND	ND	120	100	19,000	1,300,000	210,000	45,000
Xylenes	1330207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,600	700	150,000	46,000,000	150,000
Other VOCs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Metals ($\mu\text{g}/\text{kg}$)	CAS#																				
Arsenic	7440382	NA	NA	NA	NA	NA	5,100	11000	6000	7,100	8,400	15,000	52,000	7,500	ND	ND	23,000	70,000	7,600	NLV	NLV
Barium	7440393	NA	NA	NA	NA	NA	ND	76000	ND	ND	890,000	350,000	730,000	ND	ND	ND	1,300,000	1,900	37,000,000	NLV	NLV
Cadmium	7440439	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,000	G	550,000	NLV	NLV
Chromium (total)	18540229	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	51,000	ND	ND	24,000	ND	30,000	G	2,500,000	NLV	NLV
Copper	7440508	NA	NA	NA	NA	NA	ND	50000	ND	ND	110,000	280,000	ND	ND	550,000	ND	5,800,000	G	20,000,000	NLV	NLV
Lead	7439921	NA	NA	NA	NA	NA	NA	51000	ND	ND	430,000	200,000	ND	ND	130,000	ND	700,000	G	400,000	NLV	NLV
Nickel	7440020	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	G	40,000,000	NLV	NLV
Mercury (inorganic)	7439976	NA	NA	NA	NA	NA	ND	400	ND	ND	ND	43,000	ND	200	12,000	43,000	1,700	100	160,000	NLV	NLV
Selenium	7782492	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,000	400	2,600,000	NLV	NLV
Silver	7440224	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,500	500	2,500,000	NLV	NLV
Zinc	7440666	NA	NA	NA	NA	NA	ND	120000	ND	ND	180,000	97,000	630,000	ND	51,000	ND	2,400,000	G	170,000,000	NLV	NLV
PNAs and PCBs ($\mu\text{g}/\text{kg}$)	CAS#																				
Phenanthrene	85018	1,100	5700	4400	ND	12,000	ND	730	1,200	ND	2,300	3,000	ND	ND	ND	ND	56,000	2,300	1,600,000	9,300	1,800,000
Acenaphthylene	208968	ND	800	ND	ND	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,900	ID	1,600,000	2,200,000	1,600,000
Naphthalene	91203	ND	ND	7400	ND	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35,000	870	16,000,000	300,000	250,000
Fluoranthene	206440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	730,000	5,500	46,000,000	740,000,000	1,000,000,000
Pyrene	206440	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480,000	ID	29,000,000	650,000,000	1,000,000,000
Benzo(a)pyrene	50328	ND	1700	2600	ND	1,800	ND	ND	ND	ND	1,600	ND	ND	ND	ND	ND	NLL	NLL	2,000	1,500,000	NLV
Dibenzo(a,h)anthracene	53703	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLL	NLL	2,000	NLV	NLV
Other PNAs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note:

($\mu\text{g}/\text{kg}$) - Micrograms per kilogram

"<" - Less than the laboratory method detection limit

NA - Not analyzed

ND - Not detected above laboratory method detection limits

NLV - Not likely to volatilize

ID - Inadequate data to develop criteria

IP - Development in process

NLL - Not likely to leach

NA - Not available

α - MDEQ Operational Memorandum #18: Part 201 Generic Cleanup Criteria and Screening Levels, June 7, 2000

β - MDEQ Operational Memorandum #4: Part 213 Tier I Risk-Based Screening Levels (RBSLs), June 2000

bold - concentration exceeds MDEQ Criteria