UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

145864

DATE: January 18, 1980

SUBJECT: Data Set EDO-464; Samples Taken in the Vicinity of Chemical Recovery, Inc., Elyria, Ohio

FROM: Dr. Emilio Sturino, Section Chief Emilio Sturino
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TO: Jon Barney, Enforcement Division
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THRU: Curtis Ross, Director
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The following samples were analyzed for (a) "base-neutral" organics by computerized gas chromatography/mass spectrometry; and (b) polychlorinated biphenyls (PCBs) by gas chromatography/electron capture detection.

CRL Sample #	Description
80-EW02S05	Solvent
80-EW02S06	Solvent
80-EW02S07	Solvent
80-EW02S08	Solvent
80-EW02S09	Solvent
80-EW02S10	Solvent
80-EW02S11	Sump Water
80-EW02S12	Sediment
80-EW02S13	Sediment
80-EW02S14	Sediment

The organic analytical results are summarized in Table 1, Tables 2-1 through 2-10, and Table 3. Table 1 is a listing of the compounds used to estimate the concentrations of "base-neutral" organics found in the samples. Tables 2-1 through 2-10 are individual sample summaries for the "base-neutral" fraction and the results of the PCB analyses are given in Table 3.

If you have any questions concerning this report, please contact me at 353-9065.

TABLE III
PCB Results for EDO-464
Chemical Recovery, Elyria, Ohio

All concentrations are mg/kg

Sample #	Aroclor Mixture	Total PCB Concentration
80-EW02S05	-	<7
80-EW02S07	-	<6
80-EW02S08	-	<3
80-EW02S10	-	<2
80-EW02S12	Aroclor 1242/Aroclor 1254	11
80-EW02S13	Aroclor 1242/Aroclor 1254	20
80-EW02S14	Aroclor 1242	11
80-EW02S06	-	<3
80-EW02S09	-	<3
80-EW02S11	Aroclor 1242	0.60

TABLE 1

COMPOUND FOUND	STANDARD USED TO QUANTIFY
TETRACHLOROETHENE	HEXACHLOROETHANE
ETHYL BENZENE	NAPHTHALENE
1,3-DIMETHYL BENZENE	NAPHTHALENE
1,2-DIMETHYL BENZENE	NAPHTHALENE
2-BUTOXY ETHANOL	NAPHTHALENE
1-ETHYL-3-METHYL BENZENE	NAPHTHALENE
1,2,4-TRIMETHYL BENZENE	NAPHTHALENE
1-ETHYL-4-METHYL BENZENE	NAPHTHALENE
1,3,5-TRIMETHYL BENZENE	NAPHTHALENE
2-METHYL-1-HEPTENE	NAPHTHALENE
(1-METHYLETHYL) BENZENE	NAPHTHALENE
PROPYL BENZENE	NAPHTHALENE
METHYL BENZENE	NAPHTHALENE
1,3,5-CYCLOHEPTATRIENE	NAPHTHALENE
1,2,3-TRIMETHYL BENZENE	NAPHTHALENE
1-ETHYL-2-METHYL BENZENE	NAPHTHALENE
1-ETHENYL-2-METHYL BENZENE	NAPHTHALENE
1-ETHENYL-3-METHYL BENZENE	NAPHTHALENE
,3 -DIETHYL BENZENE	NAPHTHALENE
,2-DIETHYL BENZENE	NAPHTHALENE
-PHENYL-2-PROPANONE	NAPHTHALENE
-METHYL-2-PROPYL BENZENE	NAPHTHALENE
-ETHYL-1,2-DIMETHYL BENZENE	NAPHTHALENE
-METHYL-3-(1-METHYLETHYL)-BENZENE	NAPHTHALENE
-METHYL-4-(1-METHYLETHYL)-BENZENE	NAPHTHALENE
2,4 5-TETRAMETHYL BENZENE	NAPHTHALENE
2, TETRAMETHYL BENZENE	NAPHTHALENE
4 METHYL-2-HEXENE	NAPHTHALENE
O CYCLOHEXANE	NAPHTHALENE
ETHYL-3-METHYL BENZENE	NAPHTHALENE
(1-METHYLETHYL)-CYCLOHEXANONE	NAPHTHALENE
ETHYL-2,4-DIMETHYL BENZENE	NAPHTHALENE
-METHYLPROPYL)-CYCLOHEXANE	NAPHTHALENE
1-DIMETHYLPROPYL)-BENZENE	NAPHTHALENE
HTHALENE	NAPHTHALENE
HYL NAPHTHALENE	NAPHTHALENE
ETHYLPROPYL)-BENZENE	NAPHTHALENE
CARBONS( )	NAPHTHALENE

TABLE 2-1

SAMPLE NUMBER 80EW02S05

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	13000
ETHYL BENZENE	50000.
1,3-DIMETHYL BENZENE	117000.
1,2-DIMETHYL BENZENE	47000.
2-BUTOXY ETHANOL	17000
1-ETHYL-3-METHYL BENZENE	< 161.5
1,2,4-TRIMETHYL BENZENE	< 161.5
1-ETHYL-4-METHYL BENZENE	< 161.5
1,3,5-TRIMETHYL BENZENE	< 161.5
2-METHYL-1-HEPTENE	< 161.5
(1-METHYLETHYL) BENZENE	< 161.5
PROPYL BENZENE	< 161.5
METHYL BENZENE	< 161.5
1,3,5-CYCLOHEPTATRIENE	< 161.5
1,2,3-TRIMETHYL BENZENE	< 161.5
1-ETHYL-2-METHYL BENZENE	< 161.5
1-ETHENYL-2-METHYL BENZENE	< 161.5
1-ETHENYL-3-METHYL BENZENE	< 161.5
1,3 -DIETHYL BENZENE	< 161.5
1,2-DIETHYL BENZENE	<161.5
1-PHENYL-2-PROPANONE	< 161.5
1-METHYL-2-PROPYL BENZENE	< 161.5
4-ETHYL-1,2-DIMETHYL BENZENE	< 161.5
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 161.5
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 161.5
1,2,4,5-TETRAMETHYL BENZENE	< 161.5
1,2,3,5-TETRAMETHYL BENZENE	< 161.5
3,4,4-TRIMETHYL-2-HEXENE	< 161.5
PROPYL CYCLOHEXANE	< 161.5
1-ETHYL-3-METHYL BENZENE	< 161.5
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 161.5
1-ETHYL-2,4-DIMETHYL BENZENE	< 161.5
(2-METHYLPROPYL)-CYCLOHEXANE	< 161.5
(1,1-DIMETHYLPROPYL)-BENZENE	< 161.5
NAPHTHALENE	< 161.5
METHYL NAPHTHALENE	< 161.5
(1-ETHYLPROPYL)-BENZENE	< 161.5
HYDROCARBONS(/)	7700

TABLE 2-2

SAMPLE NUMBER 80EW0SS06

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	15000
ETHYL BENZENE	5900
1,3-DIMETHYL BENZENE	3300
1,2-DIMETHYL BENZENE	36000.
2-BUTOXY ETHANOL	7800
1-ETHYL-3-METHYL BENZENE	9700
1,2,4-TRIMETHYL BENZENE	7100
1-ETHYL-4-METHYL BENZENE	4200
1,3,5-TRIMETHYL BENZENE	10000
2-METHYL-1-HEPTENE	< 57.4
(1-METHYLETHYL) BENZENE	< 57.4
PROPYL BENZENE	< 57.4
METHYL BENZENE	< 57.4
1,3,5-CYCLOHEPTATRIENE	< 57.4
1,2,3-TRIMETHYL BENZENE	< 57.4
1-ETHYL-2-METHYL BENZENE	< 57.4
1-ETHENYL-2-METHYL BENZENE	< 57.4
1-ETHENYL-3-METHYL BENZENE	< 57.4
1,3 -DIETHYL BENZENE	< 57.4
1,2-DIETHYL BENZENE	< 57.4
1-PHENYL-2-PROPANONE	< 57.4
1-METHYL-2-PROPYL BENZENE	< 57.4
4-ETHYL-1,2-DIMETHYL BENZENE	< 57.4
1-METHYL-3-(1-METHYLETHYL)-BENZENE	<57.4
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 57.4
1,2,4,5-TETRAMETHYL BENZENE	< 57.4
1,2,3,5-TETRAMETHYL BENZENE	< 57.4
3,4,4-TRIMETHYL-2-HEXENE	< 57.4
PROPYL CYCLOHEXANE	< 57.4
1-ETHYL-3-METHYL BENZENE	< 57.4
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 57.4
1-ETHYL-2,4-DIMETHYL BENZENE	< 57.4
(2-METHYLPROPYL)-CYCLOHEXANE	< 57.4
(1,1-DIMETHYLPROPYL)-BENZENE	< 57.4
NAPHTHALENE	< 57.4
METHYL NAPHTHALENE	< 57.4
(1-ETHYLPROPYL)-BENZENE	< 57.4
HYDROCARBONS(3)	13000

SAMPLE NUMBER 80EW02S07

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	1300
ETHYL BENZENE	14000
1,3-DIMETHYL BENZENE	56000.
1,2-DIMETHYL BENZENE	26000
2-BUTOXY ETHANOL	99000.
1-ETHYL-3-METHYL BENZENE	9100
1,2,4-TRIMETHYL BENZENE	< 283.6
1-ETHYL-4-METHYL BENZENE	< 283.6
1,3,5-TRIMETHYL BENZENE	19000
2-METHYL-1-HEPTENE	< 283.6
(1-METHYLETHYL) BENZENE	< 283.6
PROPYL BENZENE	< 283.6
METHYL BENZENE	< 283.6
1,3,5-CYCLOHEPTATRIENE	< 283.6
1,2,3-TRIMETHYL BENZENE	< 283.6
1-ETHYL-2-METHYL BENZENE	< 283.6
1-ETHENYL-2-METHYL BENZENE	< 283.6
1-ETHENYL-3-METHYL BENZENE	< 283.6
1,3 -DIETHYL BENZENE	< 283.6
1,2-DIETHYL BENZENE	< 283.6
1-PHENYL-2-PROPANONE	< 283.6
1-METHYL-2-PROPYL BENZENE	< 283.6
4-ETHYL-1,2-DIMETHYL BENZENE	< 283.6
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 283.6
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 283.6
1,2,4,5-TETRAMETHYL BENZENE	< 283.6
1,2,3,5-TETRAMETHYL BENZENE	< 283.6
3,4,4-TRIMETHYL-2-HEXENE	< 283.6
PROPYL CYCLOHEXANE	< 283.6
1-ETHYL-3-METHYL BENZENE	< 283.6
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 283.6
1-ETHYL-2,4-DIMETHYL BENZENE	< 283.6
(2-METHYLPROPYL)-CYCLOHEXANE	< 283.6
(1,1-DIMETHYLPROPYL)-BENZENE	< 283.6
NAPHTHALENE	< 283.6
METHYL NAPHTHALENE	< 283.6
(1-ETHYLPROPYL)-BENZENE	< 283.6
HYDROCARBONS(2)	35000.

SAMPLE NUMBER 80EW02S08

(UNITS ARE MG/KG)

TABLE 2-4

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 12.6
ETHYL BENZENE	3200
1,3-DIMETHYL BENZENE	5200
1,2-DIMETHYL BENZENE	2900
2-BUTOXY ETHANOL	< 7.9
1-ETHYL-3-METHYL BENZENE	1400
1,2,4-TRIMETHYL BENZENE	550
1-ETHYL-4-METHYL BENZENE	230
1,3,5-TRIMETHYL BENZENE	1300
2-METHYL-1-HEPTENE	510
(1-METHYLETHYL) BENZENE	< 7.9
PROPYL BENZENE	290
METHYL BENZENE	210
1,3,5-CYCLOHEPTATRIENE	< 7.9
1,2,3-TRIMETHYL BENZENE	< 7.9
1-ETHYL-2-METHYL BENZENE	< 7.9
1-ETHENYL-2-METHYL BENZENE	< 7.9
1-ETHENYL-3-METHYL BENZENE	< 7.9
1,3 -DIETHYL BENZENE	< 7.9
1,2-DIETHYL BENZENE	< 7.9
1-PHENYL-2-PROPANONE	< 7.9
1-METHYL-2-PROPYL BENZENE	< 7.9
4-ETHYL-1,2-DIMETHYL BENZENE	< 7.9
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 7.9
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 7.9
1,2,4,5-TETRAMETHYL BENZENE	< 7.9
1,2,3,5-TETRAMETHYL BENZENE	< 7.9
3,4,4-TRIMETHYL-2-HEXENE	< 7.9
PROPYL CYCLOHEXANE	< 7.9
1-ETHYL-3-METHYL BENZENE	< 7.9
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 7.9
1-ETHYL-2,4-DIMETHYL BENZENE	< 7.9
(2-METHYLPROPYL)-CYCLOHEXANE	< 7.9
(1,1-DIMETHYLPROPYL)-BENZENE	< 7.9
NAPHTHALENE	< 7.9
METHYL NAPHTHALENE	< 7.9
(1-ETHYLPROPYL)-BENZENE	< 7.9
HYDROCARBONS(o)	< 7.9

TABLE 2-5

SAMPLE NUMBER 80EW02S09

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 25.8
ETHYL BENZENE	710
1,3-DIMETHYL BENZENE	700
1,2-DIMETHYL BENZENE	560
2-BUTOXY ETHANOL	< 16.2
1-ETHYL-3-METHYL BENZENE	550
1,2,4-TRIMETHYL BENZENE	< 16.2
1-ETHYL-4-METHYL BENZENE	160
1,3,5-TRIMETHYL BENZENE	60
2-METHYL-1-HEPTENE	< 16.2
(1-METHYLETHYL) BENZENE	< 16.2
PROPYL BENZENE	< 16.2
METHYL BENZENE	960
1,3,5-CYCLOHEPTATRIENE	750
1,2,3-TRIMETHYL BENZENE	200
1-ETHYL-2-METHYL BENZENE	730
1-ETHENYL-2-METHYL BENZENE	< 16.2
1-ETHENYL-3-METHYL BENZENE	640
1,3 -DIETHYL BENZENE	680
1,2-DIETHYL BENZENE	< 16.2
1-PHENYL-2-PROPANONE	790
1-METHYL-2-PROPYL BENZENE	240
4-ETHYL-1,~~2-DIMETHYL BENZENE~~	410
1-METHYL-3-(1-METHYLETHYL)-BENZENE	400
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 16.2
1,2,4,5-TETRAMETHYL BENZENE	45
1,2,3,5-TETRAMETHYL BENZENE	< 16.2
3,4,4-TRIMETHYL-2-HEXENE	< 16.2
PROPYL CYCLOHEXANE	< 16.2
1-ETHYL-3-METHYL BENZENE	< 16.2
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 16.2
1-ETHYL-2,4-DIMETHYL BENZENE	< 16.2
(2-METHYLPROPYL)-CYCLOHEXANE	< 16.2
(1,1-DIMETHYLPROPYL)-BENZENE	< 16.2
NAPHTHALENE	< 16.2
METHYL NAPHTHALENE	< 16.2
(1-ETHYLPROPYL)-BENZENE	< 16.2
HYDROCARBONS(a)	580

SAMPLE NUMBER 80EW02510

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 753.5
ETHYL BENZENE	7700
1,3-DIMETHYL BENZENE	28000
1,2-DIMETHYL BENZENE	20000
2-BUTOXY ETHANOL	< 474.1
1-ETHYL-3-METHYL BENZENE	670
1,2,4-TRIMETHYL BENZENE	30000
1-ETHYL-4-METHYL BENZENE	15000
1,3,5-TRIMETHYL BENZENE	54000.
2-METHYL-1-HEPTENE	< 474.1
(1-METHYLETHYL) BENZENE	< 474.1
PROPYL BENZENE	< 474.1
METHYL BENZENE	< 474.1
1,3,5-CYCLOHEPTATRIENE	< 474.1
1,2,3-TRIMETHYL BENZENE	18000
1-ETHYL-2-METHYL BENZENE	< 474.1
1-ETHENYL-2-METHYL BENZENE	< 474.1
1-ETHENYL-3-METHYL BENZENE	< 474.1
1,3 -DIETHYL BENZENE	11000
1,2-DIETHYL BENZENE	18000
1-PHENYL-2-PROPANONE	< 474.1
1-METHYL-2-PROPYL BENZENE	< 474.1
4-ETHYL-1,2-DIMETHYL BENZENE	< 474.1
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 474.1
1-METHYL-4-(1-METHYLETHYL)-BENZENE	12000
1,2,4,5-TETRAMETHYL BENZENE	16000
1,2,3,5-TETRAMETHYL BENZENE	49000.
3,4,4-TRIMETHYL-2-HEXENE	10000
PROPYL CYCLOHEXANE	18000
1-ETHYL-3-METHYL BENZENE	25000
2-(1-METHYLETHYL)-CYCLOHEXANONE	8900
1-ETHYL-2,4-DIMETHYL BENZENE	25000
(2-METHYLPROPYL)-CYCLOHEXANE	8000
(1,1-DIMETHYLPROPYL)-BENZENE	5900
NAPHTHALENE	21000
METHYL NAPHTHALENE	9300
(1-ETHYLPROPYL)-BENZENE	8400
HYDROCARBONS(6)	154000.

TABLE 2-7

SAMPLE NUMBER 80EW02S11

(UNITS ARE UG/L)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 3509.6
ETHYL BENZENE	7.80200E+06
1,3-DIMETHYL BENZENE	969000.
1,2-DIMETHYL BENZENE	1.17500E+06
2-BUTOXY ETHANOL	< 2208.4
1-ETHYL-3-METHYL BENZENE	721000.
1,2,4-TRIMETHYL BENZENE	329000.
1-ETHYL-4-METHYL BENZENE	140000.
1,3,5-TRIMETHYL BENZENE	691000.
2-METHYL-1-HEPTENE	< 2208.4
(1-METHYLETHYL) BENZENE	< 2208.4
PROPYL BENZENE	195000.
METHYL BENZENE	< 2208.4
1,3,5-CYCLOHEPTATRIENE	< 2208.4
1,2,3-TRIMETHYL BENZENE	138000.
1-ETHYL-2-METHYL BENZENE	136000.
1-ETHENYL-2-METHYL BENZENE	129000
1-ETHENYL-3-METHYL BENZENE	< 2208.4
1,3 -DIETHYL BENZENE	<2208.4
1,2-DIETHYL BENZENE	88000.
1-PHENYL-2-PROPANONE	< 2208.4
1-METHYL-2-PROPYL BENZENE	< 2208.4
4-ETHYL-1,2-DIMETHYL BENZENE	< 2208.4
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 2208.4
1-METHYL-4-(1-METHYLETHYL)-BENZENE	< 2208.4
1,2,4,5-TETRAMETHYL BENZENE	< 2208.4
1,2,3,5-TETRAMETHYL BENZENE	< 2208.4
3,4,4-TRIMETHYL-2-HEXENE	< 2208.4
PROPYL CYCLOHEXANE	< 2208.4
1-ETHYL-3-METHYL BENZENE	< 2208.4
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 2208.4
1-ETHYL-2,4-DIMETHYL BENZENE	< 2208.4
(2-METHYLPROPYL)-CYCLOHEXANE	< 2208.4
(1,1-DIMETHYLPROPYL)-BENZENE	< 2208.4
NAPHTHALENE	< 2208.4
METHYL NAPHTHALENE	< 2208.4
(1-ETHYLPROPYL)-BENZENE	< 2208.4
HYDROCARBONS(3)	438000

TABLE 2-8

SAMPLE NUMBER 80EW02S12

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 102.7
ETHYL BENZENE	< 42
1,3-DIMETHYL BENZENE	< 42
1,2-DIMETHYL BENZENE	< 42
2-BUTOXY ETHANOL	< 42
1-ETHYL-3-METHYL BENZENE	< 42
1,2,4-TRIMETHYL BENZENE	< 42
1-ETHYL-4-METHYL BENZENE	< 42
1,3,5-TRIMETHYL BENZENE	< 42
2-METHYL-1-HEPTENE	< 42
(1-METHYLETHYL) BENZENE	< 42
PROPYL BENZENE	< 42
METHYL BENZENE	< 42
1,3,5-CYCLOHEPTATRIENE	< 42
1,2,3-TRIMETHYL BENZENE	< 42
1-ETHYL-2-METHYL BENZENE	< 42
1-ETHENYL-2-METHYL BENZENE	< 42
1-ETHENYL-3-METHYL BENZENE	< 42
1,3-DIETHYL BENZENE	< 42
1,2-DIETHYL BENZENE	< 42
1-PHENYL-2-PROPANONE	< 42
1-METHYL-2-PROPYL BENZENE	< 42
4-ETHYL-1,2-DIMETHYL BENZENE	< 42
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 42
1-METHYL-4-(1-METHYL ETHYL)-BENZENE	< 42
1,2,4,5-TETRAMETHYL BENZENE	< 42
1,2,3,5-TETRAMETHYL BENZENE	< 42
3,4,4-TRIMETHYL-2-HEXENE	< 42
PROPYL CYCLOHEXANE	< 42
1-ETHYL-3-METHYL BENZENE	< 42
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 42
1-ETHYL-2,4-DIMETHYL BENZENE	< 42
(2-METHYLPROPYL)-CYCLOHEXANE	< 42
(1,1-DIMETHYLPROPYL)-BENZENE	< 42
NAPHTHALENE	< 42
METHYL NAPHTHALENE	< 42
(1-ETHYLPROPYL)-BENZENE	< 42

SAMPLE NUMBER 80EW02S13

TABLE 2-9

(UNITS ARE MG/KG)

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 56.1
ETHYL BENZENE	< 22.9
1,3-DIMETHYL BENZENE	< 22.9
1,2-DIMETHYL BENZENE	< 22.9
2-BUTOXY ETHANOL	< 22.9
1-ETHYL-3-METHYL BENZENE	< 22.9
1,2,4-TRIMETHYL BENZENE	< 22.9
1-ETHYL-4-METHYL BENZENE	< 22.9
1,3,5-TRIMETHYL BENZENE	< 22.9
2-METHYL-1-HEPTENE	< 22.9
(1-METHYLETHYL) BENZENE	< 22.9
PROPYL BENZENE	< 22.9
METHYL BENZENE	< 22.9
1,3,5-CYCLOHEPTATRIENE	< 22.9
1,2,3-TRIMETHYL BENZENE	< 22.9
1-ETHYL-2-METHYL BENZENE	< 22.9
1-ETHENYL-2-METHYL BENZENE	< 22.9
1-ETHENYL-3-METHYL BENZENE	< 22.9
1,3-DIETHYL BENZENE	< 22.9
1,2-DIETHYL BENZENE	< 22.9
1-PHENYL-2-PROPANONE	< 22.9
1-METHYL-2-PROPYL BENZENE	< 22.9
4-ETHYL-1,2-DIMETHYL BENZENE	< 22.9
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 22.9
1-METHYL-4-(1-METHYL ETHYL)-BENZENE	< 22.9
1,2,4,5-TETRAMETHYL BENZENE	< 22.9
1,2,3,5-TETRAMETHYL BENZENE	< 22.9
3,4,4-TRIMETHYL-2-HEXENE	< 22.9
PROPYL CYCLOHEXANE	< 22.9
1-ETHYL-3-METHYL BENZENE	< 22.9
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 22.9
1-ETHYL-2,4-DIMETHYL BENZENE	< 22.9
(2-METHYLPROPYL)-CYCLOHEXANE	< 22.9
(1,1-DIMETHYLPROPYL)-BENZENE	< 22.9
NAPHTHALENE	< 22.9
METHYL NAPHTHALENE	< 22.9
(1-ETHYLPROPYL)-BENZENE	< 22.9
HYDROCARBONS ( )	< 22.9

SAMPLE NUMBER 80EW02S14

(UNITS ARE MG/KG)

TABLE 2-10

COMPOUND	CONCENTRATION
TETRACHLOROETHENE	< 6.9
ETHYL BENZENE	< 2.8
1,3-DIMETHYL BENZENE	< 2.8
1,2-DIMETHYL BENZENE	< 2.8
2-BUTOXY ETHANOL	< 2.8
1-ETHYL-3-METHYL BENZENE	< 2.8
1,2,4-TRIMETHYL BENZENE	< 2.8
1-ETHYL-4-METHYL BENZENE	< 2.8
1,3,5-TRIMETHYL BENZENE	< 2.8
2-METHYL-1-HEPTENE	<2.8
(1-METHYLETHYL) BENZENE	< 2.8
PROPYL BENZENE	< 2.8
METHYL BENZENE	< 2.8
1,3,5-CYCLOHEPTATRIENE	< 2.8
1,2,3-TRIMETHYL BENZENE	< 2.8
1-ETHYL-2-METHYL BENZENE	< 2.8
1-ETHENYL-2-METHYL BENZENE	< 2.8
1-ETHENYL-3-METHYL BENZENE	< 2.8
1,3-DIETHYL BENZENE	< 2.8
1,2-DIETHYL BENZENE	< 2.8
1-PHENYL-2-PROPANONE	< 2.8
1-METHYL-2-PROPYL BENZENE	< 2.8
4-ETHYL-1,2-DIMETHYL BENZENE	< 2.8
1-METHYL-3-(1-METHYLETHYL)-BENZENE	< 2.8
1-METHYL-4-(1-METHYL ETHYL)-BENZENE	< 2.8
1,2,4,5-TETRAMETHYL BENZENE	< 2.8
1,2,3,5-TETRAMETHYL BENZENE	< 2.8
3,4,4-TRIMETHYL-2-HEXENE	< 2.8
PROPYL CYCLOHEXANE	< 2.8
1-ETHYL-3-METHYL BENZENE	< 2.8
2-(1-METHYLETHYL)-CYCLOHEXANONE	< 2.8
1-ETHYL-2,4-DIMETHYL BENZENE	< 2.8
(2-METHYLPROPYL)-CYCLOHEXANE	<2.8
(1,1-DIMETHYLPROPYL)-BENZENE	< 2.8
NAPHTHALENE	< 2.8
METHYL NAPHTHALENE	< 2.8
(1-ETHYLPROPYL)-BENZENE	< 2.8
HYDROCARBONS ( )	< 2.8

VOLATILES
TABLE 4-5

SAMPLE NUMBER 80-EPS09
(UNITS ARE MG/L)

	CONCENTRATION
.THYLENE CHLORIDE	< .1
ACETONE	9.2
2-BUTANOL	6.1
DICHLOROETHYLENE	< .4
METHYL ETHYL KETONE	1.9
1-1-1-TRICHLOROETHANE	1.5
1-ETHOXY PROPANE	.4
2-METHYL-2-BUTANOL	< .4
1-METHOXY-2-PROPANOL	< .4
2-ETHOXY ETHANOL	< .4
4-METHYL-2-PENTANONE	.8
2-METHYLCYCLOPENTANOL	< .4
4-METHYL-2-PENTANOL	.4
TETRACHLOROETHYLENE	< .4
TOLUENE	< .4

SAMPLE NUMBER 80-EP17S10
(UNITS ARE MG/L)

COMPOUND	CONCENTRATION
METHYLENE CHLORIDE	1.4
ACETONE	12
2-BUTANOL	43
DICHLOROETHYLENE	1.2
METHYL ETHYL KETONE	6.2
1-1-1-TRCHLOROETHANE	32
1-ETHOXY PROPANE	5.9
2-METHYL-2-BUTANOL	35
1-METHOXY-2-PROPANOL	2.3
2-ETHOXY ETHANOL	< .4
4-METHYL-2-PENTANONE	8.9
2-METHYLCYCLOPENTANOL	< .4
4-METHYL-2-PENTANOL	5
TETRACHLOROETHYLENE	< .4
TOLUENE	2.4

District Office EASTERN Custody Sampling Date 26 NOV 79 (Day Month Year) Lab Arrival Date 30 11 79 (Day Month Year) Analysis Due Date (Day Month)

B-303/2d/2 Data Set 464 Jun 15 Jun 80 Account No. Study CHEMICAL RECOVERY ELYRIA OHIO

80EW02

Parameter No.	01105	01002	01007	01027	01034	01037	01042	01045	01051	01055	
CRL Sample Log Number	Total Aluminum	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Iron	Total Lead	Total ~~Mercury~~ Hg	PLASMA SCAN Hg
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	~~µg/l~~ mg/kg	
1		✓									✓
2		✓									✓
3 S07		✓									✓
4 S10		✓									✓
5 S11		✓ <10								1.1	✓ (µg/l) a. ANALYSIS
6 S12		✓ 226 µg/g								1.6	✓ (mg/kg) SEE REQUEST
7 S13		✓ 226 µg/g								0.4	✓ (mg/kg)
8 S14		✓									✓
9		X Petrie 1/14/82								KC	
10										12/13/7	
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Sample S11 - Code 7 - acidified by K. Aleckson 11/30/79

Rec'd Code 7 - S07 + S10 - liquid Vials - to be shared by Organic Lab

Code 7 S11 - liquid

Code 7 - S12, S13 & S14 - jars of sludge-like material - to be shared by Organic Lab

U.S. Government Printing Office: 1975-630-437/21

1/13/80 V7 KKM 1/13/80

ENVIRONMENTAL PROTECTION AGENCY, REGION V, CRL

EDO DATA S ET NO. 464

01-14-80

PARAMETER #	00916	00927	00929	01077	01105	01022	01007	01012	01027	01037
SAMPLE ID.	CA	MG	NA	AG	AL	B	BA	BE	CD	CO
UNITS	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
==========	=======	=======	=======	====	====	====	====	====	====	====
EW02S11	194	32.0	105	K 30	24800	K800	1160	K 10	270	240

PARAMETER #	01034	01042	01045	01055	01062	01067	01051	01102	01152	01087
SAMPLE ID.	CR	CU	FE	MN	MO	NI	PB	SN	TI	V
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
==========	====	====	====	====	====	====	====	====	====	====
EW02S11	2170	2190	2200	2800	K100	K300	11800	K300	1420	K 50

PARAMETER #	01203	01092	
SAMPLE ID.	Y	ZN	01
UNITS	UG/L	UG/L	UG/L
==========	====	====	====
EW02S11	K 50	8790	N.A.

1/13/80 [illegible]

ENVIRONMENTAL PROTECTION AGENCY, REGION V, CRL

EDU DATA SET NO. 464

01-14-80

PARAMETER #	00916	00927	00929	01077	01105	01022	01007	01012	01027	01037
SAMPLE ID.	CA	MG	NA	AG	AL	B	BA	BE	CD	CO
UNITS	MG/G	MG/G	MG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G
EW0252	59.1	11.4	0.4	3	17000	24	920	4	340	57
13	72.8	10.2	3.6	2	11000	14	770	1	48	12

PARAMETER #	01034	01042	01045	01055	01062	01067	01051	01102	01152	01087
SAMPLE ID.	CR	CU	FE	MN	MO	NI	PB	SN	TI	V
UNITS	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G
EW0252	360	990	19000	1200	48	390	2100	80	410	150
13	450	170	21000	740	250	80	2900	38	170	31

PARAMETER #	01203	01092	01
SAMPLE ID.	Y	ZN	
UNITS	UG/G	UG/G	UG/G
EW0252	19	3300	N.A.
13	14	970	N.A.

1/15/80 V03

ENVIRONMENTAL PROTECTION AGENCY, REGION V, CRL

Jur 15 Jan 80

EDU DATA SET NO. 464

01-03-80

PARAMETER #	00916	00927	00929	01077	01105	01022	01007	01012	01027	01037
SAMPLE ID.	CA	MG	NA	AG	AL	B	BA	BE	CD	CO
UNITS	MG/G	MG/G	MG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G
EW02507	1.5	0.3	K0.2	K 1	1600	K 16	480	K 0.2	9	99
10	K1.0	0.1	K0.2	K 1	37	K 16	K 1	K 0.2	K 0.4	190

PARAMETER #	01034	01042	01045	01055	01062	01067	01051	01102	01152	01087
SAMPLE ID.	CR	CU	FE	MN	MO	NI	PB	SN	TI	V
UNITS	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G	UG/G
EW02507	400	420	3100	140	4	6	1600	10	2100	2
10	5	K 1	430	1	K 2	K 6	31	K 6	5	K 1

PARAMETER #	01203	01092	01
SAMPLE ID.	Y	ZN	
UNITS	UG/G	UG/G	UG/G
EW02507	K 1	630	N.A.
10	K 1	K 10	N.A.

wet weight (gelatinous material)

1/15/80

ENVIRONMENTAL PROTECTION

EDO DATA 8

01-03-80

HNO3
CF .005

AGENCY, REGION V, CRL

ET NO. 464

PARAMETER #	00916	00927	00929	01077	01105	01022	01007	01012	01027	01037
SAMPLE ID.	CA	MG	NA	AG	AL	B	BA	BE	CD	CO
UNITS	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
EW02S05	K 1000	K 20	400	K600	33800	K16000	39200	K200	K400	8200
8	K 1000	K 20	K240	K600	K18000	K16000	K1000	K200	K400	1200

PARAMETER #	01034	01042	01045	01055	01062	01067	01051	01102	01152	01087
SAMPLE ID.	CR	CU	FE	MN	MO	NI	PB	SN	TI	V
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
EW02S05	17000	31400	93800	9000	K2000	K 6000	68200	K 6000	69800	K 1000
8	6000	K1200	69400	1800	K2000	K 6000	17800	K 6000	80800	K 1000

PARAMETER #	01203	01092	
SAMPLE ID.	Y	ZN	OI
UNITS	UG/L	UG/L	UG/L
EW02S05	K 1000	39600	N.A.
8	K 1000	13400	N.A.

organic solvents