WARZYN

TELECOPIER COVER SHEET

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US EPA RECORDS CENTER REGION 5
468789

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Re: ACS SITE - SUMMARY OF DETECTED TCL ORGANICS AND TAL FOR ALL LOCATIONS AND MATRICES AT ACS INDICATING MISSING RFD AND SLOPE FACTORS

Project Number: 6005110

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2nd request
PH

WARZYN TCL DETECTS AT ACS 4-OCT-1990

Summary for all matrices and locations

RFD	SF	COMPOUND	MAXIMUM CONC. ppb	MINIMUM CONC. ppb	freq.	AVG. CONC. ppb
		Semi-Volatiles				
*		Phenol	860000	3	82	31797
	*	bis(2-Chloroethyl)ether	200000	2	49	19505
*		2-Chlorophenol	130	130	1	130
		1,3-Dichlorobenzene	680	2	7	390
*	*	1,4-Dichlorobenzene	11000	3	26	1977
*		Benzyl alcohol	34000	89	13	3448
*	*	1,2-Dichlorobenzene	120000	4	55	9866
*	*	2-Methylphenol	90000	2	52	7847
*		bis(2-Chloroisopropyl)ether	9800	29	9	1527
*	*	4-Methylphenol	210000	5	71	14723
*	*	Isophorone	3600000	5	64	301556
*		2,4-Dimethylphenol	220000	3	55	12528
*		Benzoic acid	32000000	4	46	749997
*		2,4-Dichlorophenol	4100	41	8	642
*		1,2,4-Trichlorobenzene	79000	84	14	9331
*		Naphthalene	2400000	2	86	132834
*	*	Hexachlorobutadiene	150000	55	23	16322
*		4-Chloro-3-methylphenol	420	2	3	141
		2-Methylnaphthalene	990000	4	77	76590
*	*	2,4,6-Trichlorophenol	750	750	1	750
*		2,4,5-Trichlorophenol	270	96	3	179
		2-Chloronaphthalene	1800	1800	1	1800
*		Dimethylphthalate	710000	42	44	60138
*		Acenaphthylene	11000	40	9	2775
*1	*	2,6-Dinitrotoluene	3500	3500	1	3500
*		Acenaphthene	18000	60	29	3639
*1		4-Nitrophenol	10000	66	4	3492
*1		Dibenzofuran	11000	3	21	2061
*1		2,4-Dinitrotoluene	840	840	1	840
*		Diethylphthalate	280000	3	58	15553
*		Fluorene	28000	4	37	4524
*1		N-Nitrosodiphenylamine	53000	180	11	9789
*1		4-Bromophenyl-phenylether	2200	2200	1	2200
*	*	Hexachlorobenzene	11000	140	7	2866
*		Pentachlorophenol	180000	2	34	19745
*		Phenanthrene	43000	3	84	4086
*		Anthracene	3300	74	11	821
*		Di-n-butylphthalate	3400000	2	76	164222
*		Fluoranthene	19000	4	34	2206
*		Pyrene	22000	2	31	2896
*	*	Butylbenzylphthalate	1600000	47	65	128660
	*	Benzo(a)anthracene	14000	78	19	1639
*	*	Chrysene	20000	77	20	1972
*	*	bis(2-Ethylhexyl)phthalate	14000000	2	100	549105
*		Di-n-octylphthalate	140000	49	37	10071
	*	Benzo(b)fluoranthene	15000	86	21	1797
	*	Benzo(k)fluoranthene	15000	56	20	1793
	*	Benzo(a)pyrene	9700	63	14	1253
	*	Indeno(1,2,3-cd)pyrene	1400	160	8	548
	*	Dibenz(a,h)anthracene	270	70	6	161
		Benzo(g,h,i)perylene	1500	180	9	572
		Volatiles				
*	*	Chloromethane	68	68	1	68
	*	Vinyl Chloride	3900	22	6	1006
*1		Chloroethane	2000	1	28	383
	*	Methylene Chloride	260000	1	19	29262
*		Acetone	34000000	5	44	815208
*		Carbon Disulfide	3	3	1	3
*	*	1,1-Dichloroethene	590000	5	4	117348
*	*	1,1-Dichloroethane	490000	1	43	24388

[illegible] 4-OCT-1990

Summary for all matrices and locations

RfD	SF	COMPOUND	MAXIMUM CONC. ppb	MINIMUM CONC. ppb	freq.	AVG. CONC. ppb
*		Total 1,2-Dichloroethene	120000	1	67	5873
*	*	Chloroform	2800000	1	56	172789
	*	1,2-Dichloroethane	440000	1	24	25727
*	*	2-Butanone	99000000	4	76	1748129
		1,1,1-Trichloroethane	150000000	1	79	2633118
*	*	Carbon Tetrachloride	3600000	530000	2	[illegible]
-1	*	1,2-Dichloropropane	23000	1	24	2939
	*	Trichloroethene	19000000	1	22	[illegible]
*	*	1,1,2-Trichloroethane	400000	1	13	37033
	*	Benzene	7100000	1	122	94742
*		4-Methyl-2-Pentanone	61000000	2	70	1116312
*		2-Hexanone	47000	4	11	8167
*	*	Tetrachloroethene	46000000	2	93	981417
	*	1,1,2,2 Tetrachloroethane	3900	2	8	684
*		Toluene	200000000	1	148	2996872
*		Chlorobenzene	1000000	2	25	43802
*		Ethylbenzene	23000000	1	139	519144
*	*	Styrene	310000	1	15	66986
*		Total Xylenes	100000000	2	145	1879342
		Pesticides/PCBs				
*	*	Alpha-BHC	330	330	1	330
*	*	Beta-BHC	800	800	1	800
*	*	Gamma-BHC (Lindane)	1100	1100	1	1100
*	*	Aldrin	7700	13	3	2600
	*	Heptachlor Epoxide	66	13	2	40
*		Endosulfan 1	1200	11	4	316
	*	4,4-DDE	880	880	1	880
	*	4,4-DDD	3300	25	4	883
*	*	4,4-DDT	12000	50	5	3708
		Endrin Ketone	260	260	1	260
*	*	AROCLOR-1242	400000	96	15	71542
*	*	AROCLOR-1248	76000	0.5	17	14988
*	*	AROCLOR-1254	650000	210	37	33951
*	*	AROCLOR-1260	560000	3.2	21	50406

Toxicity values obtained from HEAST on IRIS
RfD Reference dose
SF Slope factor
1 inadequate data available in HEAST

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RfD	SF		COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
			SUBSTITUTED BENZENES				
		VOA	1-Propenylbenzene + Unknown	120000	120000	1	120000
		SV	Azobenzene (ACN)	930	930	1	930
		SV	Benzaldehyde, 4-propyl-	510000	1100	4	207275
		SV	Benzene, (1,1-dimethylethyl)-	79000	370	6	34426.34
		SV	Benzene, (1,1-dimethylpropyl...	32	32	1	32
		SV	Benzene, (1,3,3-trimethylnonyl)-	1400000	37000	6	304833.33
		SV	Benzene, (1-methylethyl)-	180000	370	2	90185
		VOA	Benzene, (1-methylethyl)-	480000	9.7	12	115007.56
		VOA	Benzene, (2-methylnonyl)-	79000	79000	1	79000
		VOA	Benzene, (nitromethyl)-	250000	250000	1	250000
		SV	Benzene, 1,1'-methylenebis-	1700	300	3	983.33
		SV	Benzene, 1,1'-oxybis-	3500000	8	31	203102.84
		SV	Benzene, 1,2,3,5-tetramethyl-	280000	210	6	71601.67
		SV	Benzene, 1,2,3-trimethyl-	7600	7600	1	7600
		VOA	Benzene, 1,2,3-trimethyl-	470000	9.1	10	92013.61
		VOA	Benzene, 1,2,4-trimethyl-	1200000	28	10	188645.7
		SV	Benzene, 1,2,4-trimethyl-	620000	710	13	111398.46
		VOA	Benzene, 1,2-dichloro-	1400	1400	1	1400
		SV	Benzene, 1,3-dimethyl-4-(phenylmethyl)-	41000	37	2	18810
		SV	Benzene, 1,3,5-trimethyl-	1300000	82	14	127148.13
		VOA	Benzene, 1,3,5-trimethyl-	24000	3.6	4	9543.4
		SV	Benzene, 1,3-diethyl-4-methy...	69000	870	2	34935
		SV	Benzene, 1,3-dimethyl-	440	440	1	440
		SV	Benzene, 1,4-diethyl-	750000	28000	4	369500
		SV	Benzene, 1,4-dimethyl-	880	880	1	880
		SV	Benzene, 1,4-dimethyl-2-nitro-	5300	1700	2	3500
*1	*	SV	Benzene, 1-chloro-3-methyl-	120	68	2	94
*	*	SV	Benzene, 1-ethenyl-2-methyl-	1400	1400	1	1400
		SV	Benzene, 1-ethyl-2,3-dimethyl-	160000	160000	1	160000
		SV	Benzene, 1-ethyl-2,4,5-trimethyl-	73000	73000	1	73000
		SV	Benzene, 1-ethyl-2-methyl-	1600000	42	18	180970.56
		VOA	Benzene, 1-ethyl-2-methyl-	1700000	4.8	18	247709.00
		VOA	Benzene, 1-ethyl-3-methyl-	880000	10000	2	445000
		SV	Benzene, 1-ethyl-3-methyl-	1090000	520	19	324438.42
		VOA	Benzene, 1-ethyl-3-methyl-	300000	960	3	146986.67
		SV	Benzene, 1-ethyl-4-methoxy-	2100	90	4	1060
		VOA	Benzene, 1-ethyl-4-methyl-	6	6	1	6
		SV	Benzene, 1-methyl-2-propyl-	440000	440000	1	440000
		SV	Benzene, 1-methyl-3-(1-methylethyl)-	1100	1100	1	1100
		SV	Benzene, 1-methyl-4-(1-methylethyl)-	6100	6100	1	6100
		SV	Benzene, 1-methyl-4-(methyls...	14	14	1	14
		SV	Benzene, 1-methyl-4-propyl-	2200	2200	1	2200
		SV	Benzene, 2,4-dimethyl-1-(1-methylethyl)-	640000	3300	2	471130
		SV	Benzene, 2-ethyl-1,3-dimethyl-	42000	1700	2	21850
		SV	Benzene, 2-ethyl-1,4-dimethyl-	1900000	6	44	166915.82
		SV	Benzene, ethyl-	16	16	1	16
		SV	Benzene, methyl(1-methylethy...	330000	28000	2	179000
		SV	Benzene, propyl-	520000	22	11	128209.27
		VOA	Benzene, propyl-	380000	6.5	26	53691.26
		SV	Benzeneacetonitrile, alpha...	1800	1100	2	1450
		SV	Benzopyrene	230000	74	5	49098.8
		SV	Benzopyrene isomer	320	320	1	320
*		SV	Chloromethylbenzene	68	68	1	68
		VOA	Decane + Substituted benzene	8800000	8800000	1	8800000.008
		VOA	Dichlorobenzene	3600	880	2	2240
		SV	Diethylbenzene + unknown	990000	12000	2	501000
		VOA	Diethylbenzene	78	78	1	78
		SV	Diethylbenzene	2200000	1500	5	507100
		SV	Diethylbenzene + unknown	350000	350000	1	350000
		SV	Dimethylbenzene isomer	120000	8300	4	37825
		SV	Dimethylethylbenzene	290000	290000	1	290000
		SV	Ethyldimethylbenzene	1700000	300	24	345330.42
		VOA	Ethyldimethylbenzene	760000	8200	3	296066.67

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

Afo	Br	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
	SV	Ethyldimethylbenzene + Unknown	830000	11000	2	420500
	SV	Ethyldimethylbenzene + unknown	290000	340	5	90844
	SV	Ethyldimethylbenzene isomer	1300000	32	33	402708.85
	SV	Ethylmethylbenzene	2100000	120	29	212214.48
	VOA	Ethylmethylbenzene	5900000	8.6	82	181812.12
	VOA	Ethylmethylbenzene + unknown	640000	24	7	108432.71
	VOA	Ethylmethylbenzene + unknown	170000	8300	2	89150
	VOA	Ethylmethylbenzene isomer	[illegible]	[illegible]	[illegible]	[illegible]
	SV	Ethylmethylbenzene isomer	1600000	24	25	199954.24
	SV	Ethyltrimethylbenzene + unknown	19000	19000	1	19000
	SV	Methyl(methylethen) benzene +...	32000	32000	1	32000
	VOA	Methyl(methylethyl) benzene	210000	1400	2	105700
	SV	Methyl(methylethyl)benzene	160000	4100	2	82050
	SV	Methylbenzene + Unknown	11000	11000	1	11000
	SV	Methylethylbenzene	230000	37000	3	139000
	VOA	Methylethylbenzene	130000	75	8	52871.88
	VOA	Methylethylbenzene + Unknown	120000	15000	5	67800
	SV	Methylethylbenzene + unknown	12000	12000	1	12000
	SV	Methylmethylethylbenzene + unknown	6500	6500	1	6500
	SV	Methylpropenylbenzene	6	6	1	6
	SV	Methylpropylbenzene	830	830	1	830
	SV	Methylpropylbenzene + Unknown	1100000	140000	2	620000
	SV	Methylpropylbenzene isomer	560000	510	8	197351.25
	VOA	Propenylbenzene + unknown	7300	7300	1	7300
	VOA	Propylbenzene	15000	7300	3	10400
	VOA	Propylbenzene + Unknown	200000	21	11	42032.55
	VOA	Substituted Benzene	680000	11	43	60248.14
	VOA	Tetramethylbenzene	1300000	11	5	324402.2
	SV	Tetramethylbenzene	290000	250	6	74875
	SV	Tetramethylbenzene + TCL	1100000	390000	2	745000
	SV	Tetramethylbenzene + unknown	9600	9600	1	9600
	SV	Tetramethylbenzene isomer	960000	120	5	306050
	VOA	Trimethylbenzene	9800000	4.7	101	247506.44
	SV	Trimethylbenzene	1400000	320	51	175036.86
	SV	Trimethylbenzene + Unknown	1800000	29000	3	683000
	VOA	Trimethylbenzene + Unknown	120000	12	6	44952
	SV	Trimethylbenzene isomer	1900000	50	53	353560
	VOA	Trimethylbenzene isomer	690000	10	18	129517.78
	VOA	Undecane + Substituted benzene	9800000	9800000	1	9800000.009
	SV	Unknown + Nitrobenzene	900000	900000	1	900000
	SV	Unknown alkylated benzene	250000	98000	3	162666.67
	SV	Unknown aromatic	100000	100000	1	100000
	SV	Unknown benzene	1300	1300	1	1300
	SV	Unknown Substituted Benzene	1300000	22	28	194504.21
	VOA	Unknown substituted benzene	690000	4400	4	370100
	VOA	Benzene, 1,1'-oxybis-	7300	7300	1	7300
	SV	Benzene, 1-ethenyl-3-ethyl-	44000	18	2	22009
	SV	Benzene, 1-methyl-3-propyl-	700000	98000	3	386000

SUBSTITUTED HYDROCARBONS

	SV	1-Decene, 2,4-dimethyl-	210	210	1	210
	SV	1-Hexadecyne	1600	1600	1	1600
	SV	1H-Indene, 1-ethylidene-	42000	380	2	21190
	VOA	2,3-Heptadien-5-yne, 2,4-dimethyl-	140000	140000	1	140000
	SV	2-Cyclohexen-1-one	92	92	1	92
	SV	2-Hexadecene, 3,7,11,15-tetr...	42	42	1	42
	SV	3-Carene	660000	160000	3	410000
	SV	3-Hexadecene, (Z)-	1200	510	2	855
	SV	3-Octadecene, (E)-	2600000	2600000	1	2600000.002
	SV	4-Carene, (1S,3S,6R)-(-)-	7700	7700	1	7700
	VOA	4-Carene, (1S,3S,6R)-(-)-	6	6	1	6
	SV	5-Eicosene, (E)-	1400000	1400000	1	1400000.001

MARZYK TENTATIVELY IDENTIFIED COMPOUNDS (TICS) 5-OCT-1990
DETECTED AT ACS

Summary for all matrices and locations
Results in ppb

RFD	SIF	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
	SV	7-Hexadecene, (Z)-	60000	60000	1	60000
	SV	9-Eicosyne	610000	610000	1	610000
	SV	9-Octadecene, (E)-	80000	80000	1	80000
	SV	6-Eicosene, (E)-	510000	1100	4	193525
	SV	Azulene, 1,2,3,5A-tetrahydro-	1200000	150000	3	606666.67
	VOA	Bicyclo[3.1.0]hex-2-ene, 2-me...	370000	55000	2	212500
	VOA	Bicyclo[3.1.0]hex-2-ene, 2-methyl-	29000	29000	1	29000
	SV	Bromohexane isomer	5800	790	3	2796.67
	SV	Cycloheptane, 1,3,5-tris(met...	52000	52000	1	52000
	VOA	Cyclohexane	290	290	1	290
	SV	Cyclohexane, 1,2,4,5-tetraethyl-				
	VOA	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	250	250	1	250
	VOA	Cyclohexane, 1,3-dimethyl-, trans-	45	45	1	45
	VOA	Cyclohexane, 1-ethyl-2,3-dimethyl-	780	780	1	780
	VOA	Cyclohexane, 1-ethyl-4-methyl-, trans-	5100	9.7	3	1846.57
	VOA	Cyclohexane, 2-propenyl-	73	73	1	73
	VOA	Cyclohexane, butyl-	52000	40000	2	46000
	VOA	Cyclohexane, diethyl-	2800	2800	1	2800
	VOA	Cyclohexane, ethyl-	100000	42	3	33474
*	VOA	Cyclohexane, methyl-	58000000	16	8	7261936.25
	VOA	Cyclohexane, propyl-	94	8.6	5	37.52
	SV	Cyclooctane, 2,4-dimethyl-	61000	61000	1	61000
	VOA	Cyclopentane, 1,2,3-trimethyl-	3200000	3200000	1	3200000.003
	VOA	Cyclopentane, 1,2,4-trimethyl-	3300000	3300000	1	3300000.003
	VOA	Cyclopentane, 1-ethyl-3-methyl-, cis-	7500	150	2	3825
	SV	Cyclopentane, 1-hexyl-3-methyl-	80000	80000	1	80000
	SV	Cyclopentane, 1-ethenyl-3-me...	220000	21000	5	140200
	SV	Decane	440000	450	13	187650
	VOA	Decane	3200000	88	38	314063.14
	VOA	Decane + unknown	1500000	16	28	243896.5
	SV	Decane, 2,5,6-trimethyl-	110000	48000	2	79000
	SV	Decane, 2,6,7-trimethyl-	62000	320	3	20900
	SV	Decane, 2-Cyclohexyl-, 2-cycl...	140000	140000	1	140000
	SV	Decane, 3,6-dimethyl-	8800	8800	1	8800
	SV	Decane, 3-methyl-	56000	56000	1	56000
	VOA	Decane, 4-methyl-	120000	120000	1	120000
	VOA	Dichloromethylbutane	2200	2200	1	2200
	VOA	Dichloropentane	1100	1100	1	1100
	SV	Diethylundecane	110000	110000	1	110000
	SV	Dimethyl cyclooctene	110000	2700	2	56350
	SV	Dimethyl heptadecane	860	310	7	430
	SV	Dimethyl undecane	31000	170	6	9070
	VOA	Dimethylcyclohexane	76	76	1	76
	VOA	Dimethyldecane	8900	8900	1	8900
	SV	Dimethyldodecane	13000	13000	1	13000
	VOA	Dimethylnonane	87000	87000	1	87000
	SV	Dimethylnonane	120000	1800	2	60900
	VOA	Dimethylnonane + unknown	110000	110000	1	110000
	VOA	Dimethyloctane	120000	18000	2	69000
	SV	Dimethylundecane	46000	46000	1	46000
	VOA	Dimethylundecane	1800	1800	1	1800
	SV	Disilane, hexaethyl-	46	46	1	46
	SV	Dispiro[2.0.2.2]octane	85000	40000	2	62500
	SV	Disulfide, diethyl-	720	140	3	453.33
	SV	Docosane	3900	2000	2	2950
	SV	Dodecane, 1-iodo-	210	210	1	210
	SV	Dodecane, 2,6,10-trimethyl-	110000	67000	2	88500
	SV	Eicosane	130	130	1	130
	SV	Eicosane, 10-methyl-	290	290	1	290
	VOA	Ethane, 1,1'oxybis-	1500	4	12	163.83
*	VOA	Ethane, 1,1,2-trichloro-1,2,2-trichloro-	670000	670000	1	670000
	VOA	Ethane, 1,1-dichloro-1-nitro-	17000	17000	1	17000
	SV	Ethane, 1,2-bis(2-chloroethoxy)-	78	50	2	64
	VOA	Ethane, 1-1'-oxybis-	57	57	1	57
	VOA	Ethenylcyclohexene	3700	63	2	1881.5
	VOA	Ethylmethylheptane	110000	1600	4	65150

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ASB

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RFD	UF		COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
		VOA	Ethylmethylheptane + unknown	330000	330000	1	330000
		VOA	Ethylmethyloctane	1900	1900	1	1900
		SV	Heptadecane	260000	7900	7	65271.43
		SV	Heptadecane, 2,6-dimethyl-	150000	280	22	36628.64
	*1	VOA	Heptane	23000000	160	2	**********
		VOA	Heptane, 2,3,5-trimethyl-	54000	54000	1	54000
		VOA	Heptane, 2,3,6-trimethyl-	230000	33000	2	131500
		VOA	Heptane, 2,4-dimethyl-	24000	24000	1	24000
		VOA	Heptane, 2,5-dimethyl-	33000	24000	2	28500
		VOA	Heptane, 3-ethyl-2-methyl-	5400	5400	1	5400
		VOA	Heptane, 3-methyl-	5900000	5300	2	2962450
		VOA	Heptane, 4 (1 methylethyl)-	16000	8500	2	12650
		SV	Hexadecane	130000	240	8	60530
		SV	Hexadecane, 2-methyl-	1600	1600	1	1600
		VOA	Hexane	150	150	1	150
		VOA	Hexane, 2,2,3,3-tetramethyl-	6000	6000	1	6000
		SV	Hexane, 2,3,4-trimethyl-	420	420	1	420
		VOA	Hexane, 2,4-dimethyl-	25000	25000	1	25000
		VOA	Hexane, 2,5-dimethyl-	4600000	4600000	1	4600000.004
		VOA	Hexane, 2-methyl-	3700000	3700000	1	3700000.003
		VOA	Hexane, 3-ethyl-4-methyl-	19000	19000	1	19000
		VOA	Hexane, 3-methyl-	4100000	[illegible]	[illegible]	[illegible]
		VOA	Hexane, 4 ethyl 2 methyl-	60000	60000	1	60000
		SV	Hexatriacontane	150000	1700	6	62300
		VOA	Hydrocarbon + unknown	130000	24	6	33845.5
		VOA	Methane, dichlorofluoro-	14000000	4800000	2	9400000.008
		VOA	Methane, dimethoxy-	92000	6	2	46003
		VOA	Methane, oxybis-	27000	27000	1	27000
	*	VOA	Methane, trichlorotrifluoro-	4200000	4200000	1	4200000.004
		SV	Methyldetradecane	35000	35000	1	35000
		VOA	Methylnonane	20000	6800	3	11566.67
		VOA	Nonane	160000	32	11	52012
		VOA	Nonane	200000	5.8	34	36744.06
		SV	Nonane, 2,8 dimethyl-	1600000	91000	7	484428.57
		VOA	Nonane, 2,6-dimethyl-	230000	2000	7	65114.29
		SV	Nonane, 2,6-dimethyl-	2300000	14000	8	479125
		VOA	Nonane, 2-methyl-	130000	130000	1	130000
		SV	Nonane, 3,7-dimethyl-	180	180	1	180
		VOA	Nonane, 3-methyl-	35000	29	2	17514.5
		SV	Nonane, 4,5-dimethyl-	870	240	2	555
		SV	Nonane, 4-methyl-	600	600	1	600
		VOA	Nonane, 4-methyl-	180000	1300	3	62166.67
		SV	Octadecane	1200	970	2	1085
		VOA	Octane	130000	3800	2	66900
		VOA	Octane	4100000	41	5	831042.2
		SV	Octane, 2,3,6-trimethyl-	320000	320000	1	320000
		VOA	Octane, 2,3,6-trimethyl-	23	23	1	23
		VOA	Octane, 2,3-dimethyl-	220000	1700	6	75450
		SV	Octane, 2,3-dimethyl-	720	320	2	520
		SV	Octane, 2,5-dimethyl-	790	790	1	790
		VOA	Octane, 4,6-dimethyl-	5300	5300	1	5300
		VOA	Octane, 3-methyl-	27000	27000	1	27000
		VOA	Octane, 6-ethyl-2-methyl-	37	37	1	37
		SV	Pentacosane	140000	72	6	64310.33
	*	VOA	Pentane	120000	4600	2	62300
		VOA	Propane, 1,1'-oxybis-	6	6	1	6
		VOA	Propane, 2,2'-oxybis-	10	10	2	10
		SV	Tetradecane	140000	280	14	30035
		SV	Tetrahydrocarvulene	2100	2100	1	2100
		SV	Tetramethylpentadecane	260	260	1	260
		SV	Tridecane, 4,8-dimethyl-	55000	55000	1	55000
		SV	Tridecane, 5-propyl-	3900	3900	1	3900
		VOA	Trimethyloctane	4300	4300	1	4300
		VOA	Trimethyltricycloheptane	99000	99000	1	99000
		SV	Undecane	17000	17000	1	17000
		VOA	Undecane	1300000	1300000	1	1300000.001

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RFD (ng		COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
	VOA	Undecane + unknown	510000	210000	2	360000
	SV	Undecane, 2-methyl-	100000	100000	1	100000
	SV	Undecane, 4,7-dimethyl-	1100000	120	36	133601.11
	SV	Unknown Alkane	3300000	3300000	1	3300000.003
	SV	Unknown alkyl cyclohexane	610	610	1	610
	VOA	Unknown bicyclic hydrocarbon	24	24	1	24
	VOA	Unknown cyclic hydrocarbon	47000	9	4	14500
	SV	Unknown hydrocarbon	1300000	16	242	68039.9
	VOA	Unknown Hydrocarbon	1100000	10	47	84079.32
	VOA	Unknown Hydrocarbon C10H16	260000	130	2	130065
	VOA	Unknown hydrocarbon C10H22	270000	270000	1	270000
	VOA	Unknown oxygenated alkane	450	71	2	260.5
	SV	Unknown oxygenated alkane	280	280	1	280
	VOA	Unknown oxygenated hydrocarbon	450	450	1	450
	SV	Unknown substituted alkane				
	VOA	Unknown Substituted Heptane	460	460	1	460
	SV	Unknown substituted hydrocarbon	120000	120000	1	120000
		POLYNUCLEAR AROMATICS				
	SV	1(2H)-Naphthalenone, 3,4-dih...	12	12	1	12
	SV	1,4-Methanonaphthalene, 1,4-...	88000	100	3	41720
	SV	Dimethylnaphthalene	2500	2500	1	2500
	SV	Dimethylnaphthalene	380	380	1	380
	SV	Dimethylnaphthalene + unknown	1700	98	2	849
	SV	Methylnaphthalene	6000	530	2	3265
	SV	Naphthalene, 1,2,3,4-tetrah...	52	52	1	52
	SV	Naphthalene, 1,2-dimethyl-	8400	8400	1	8400
	SV	Naphthalene, 1-methyl-	730000	960	8	317640
	SV	Tetrahydronaphthalene	66	66	1	44
	SV	Unknown PAH	13000	13000	1	13000
	SV	Unknown PNA	8	8	1	8
		PHTHALATES				
*	SV	Phthalic anhydride	58000	26	5	13085.2
	SV	Phthalate	57000	57000	1	57000
	SV	Unknown phthalate	1200000	1800	6	222300
		PHENOLS				
	SV	1,1-Dimethylethyl phenol	250	250	1	250
	SV	Dimethylphenol	12000	54	21	9709.71
	SV	Dimethylphenol + Unknown	1100	1100	1	1100
	SV	Ethyl-phenol isomer	75000	1400	2	38200
	SV	Methyl-methyl-ethylphenol isomer	870	870	1	870
	SV	Methylethylphenol	2500	54	6	952
	SV	Methylphenol isomer	30000	12000	2	21000
	SV	Phenol, 2,3-dimethyl-	11000	90	5	5198
	SV	Phenol, 2-(1-(4-hydroxypheny...	2200	370	2	1285
	SV	Phenol, 2-ethyl-4-methyl	2500	460	3	1586.67
	SV	Phenol, 2-ethyl-5-methyl-	2500	480	4	1402.3
	SV	Phenol, 3,2-dimethyl-	1100	1100	1	1100
	SV	Phenol, 3,5-dimethyl-	12	12	1	12
	SV	Phenol, 3-ethyl-5-methyl-	78	50	2	64
	SV	Phenol, 3-propyl-	300	300	1	300
	SV	Phenol, 3 propyl-	440000	440000	1	440000
	SV	Phenol, 4-(2,2,3,3-tetramethylbutyl)-	240000	3300	3	87433.33
	SV	Propyl-phenol isomer	3400	3400	1	3400
	SV	Trimethylphenol isomer	62	58	2	60

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RfD S*	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
SV	Unknown substituted phenol	780	28	2	404
	KETONES				
SV	1,3,5-Triazine- 3,4,6(1H,3H,5)-trione, 1	690	490	1	490
SV	1-Hexen-3-one, 5-methyl-1-phenyl-	3400	3400	1	3400
SV	2(1H)-Quinolinone	620	620	1	620
SV	2(3H)-Benzothiazolone	36	36	1	36
SV	2,4,6(1H,3H,5H)-Pyrimidinetrione-5-(1-me	130	10	2	70
SV	2-Cyclohexen-1-one, 3,5,5-trimethyl-	32	32	1	32
VOA	2-Heptanone	810	810	1	810
VOA	2-Hexanone, 5-methyl-	240	0.6	3	80.87
VOA	3-Pentanone	54	54	1	54
VOA	3-Buten-2-one, 3-methyl-	100000	100000	1	100000
VOA	3-Heptanone, 5-methyl-	25	6	3	15.33
SV	3-Octanone	910	86	4	531.5
SV	3-Pentanone, 2,2,4,4-tetram..	43000	43000	1	43000
VOA	3-Pentanone, 2,2,4,4-tetramethyl-	180	13	2	96.5
VOA	3-Pentanone, 2,4-dimethyl-	15	15	1	15
SV	Benzophenone	770	770	1	770
SV	Bicyclo[2.2.1]heptan-2-one	52	52	1	52
SV	Camphor (ACN)	310	150	2	230
SV	Cyclohexenone, 3,3,5-trimethyl-	65000	850	5	19590
SV	Ethanone, 1-(2-chlorophenyl)-	410	410	1	410
SV	Ethanone, 1-phenyl-	2100	2100	1	2100
VOA	Ketone	230	57	2	143.5
VOA	Methylheptanone	6	6	1	6
VOA	Methylhexanone	7	7	1	7
VOA	Methylphenylethanone	160000	160000	1	160000
VOA	Tetramethylpentanone	56	56	1	56
SV	Tetramethylpentanone + unknown	400	400	1	400
SV	Trimethylcyclohexanone	23000	23000	1	23000
VOA	Unknown ketone	54	7.4	3	31.47
VOA	Unknown ketone	440	12	4	141.5
SV	Unknown Ketone	2200	2200	1	2200
	ALCOHOLS				
SV	1,3-Pentanediol, 2,2,4-trimethyl-	40	40	1	40
SV	1,3-Propanediol, 2,2-dimethyl-	2600000	2000000	1	2600000.000
VOA	1-Butanol	480000	2500	2	241250
SV	1-Decanol, 2-ethyl-	2100	2100	1	2100
VOA	1-Heptanol, 2-propyl-	26000	26000	1	26000
SV	1-Hexadecanol				
SV	1-Octanol, 2-butyl-	340	340	1	340
VOA	1-Octanol, 2-butyl-	42000	42000	1	42000
SV	2,4-Pentanediol, 2-methyl-	7500	10	14	1727.57
SV	2-Methylcyclopentanol	360000	340000	1	340000
SV	2-Methylcyclopentanol isomer	2000	56	3	862
VOA	2-Pentanol, 4-methyl-	390	2.3	4	107.08
VOA	2-Propanol	3100	1900	2	2500
SV	2-Propanol, 1-(2-methoxy-1-methylethoxy)	2200	140	3	956.67
SV	2-Propanol, 1-[2-(2-methoxy-1-methylethoxy)]	1000	36	5	286.8
SV	2-Propanol, 2-(2-methoxy-1-methylethoxy)	90	14	3	64.67
VOA	2-Propanol, 2-methyl-	8	8	1	8
VOA	Butanol	610	40	4	252.75
SV	Cyclohexanemethanol, .alpha.-.alpha.-4-t	880	220	5	518
SV	Cyclohexanol, 3,3,5-trimethyl-	13000	26	24	3607.08
SV	Cyclopentanol, 2-methyl-Cl...	2600	52	2	1326
SV	Ethanol, 1-(2-butoxyethoxy)-	18000	18000	1	18000
SV	Ethanol, 2-(2-butoxyethoxy)-...	37000	3800	4	16450
SV	Ethanol, 2-[2-(2-ethoxyethox...	1700	1700	1	1700

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RFD	SF	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
	SV	Ethanol, 2-butoxy-*	280000	630	3	94443.33
	VOA	Hexanol	14	14	1	14
	SV	Methanol, dibutoxy-	11000	11000	1	11000
	SV	Methanol, dibutoxy-	2400000	2400000	1	2400000.002
	SV	Methylcyclopentanol	67000	67000	1	67000
	VOA	Methylhexanol	30	19	2	24.5
	VOA	Methylpentanol	15	15	1	15
	VOA	Pentanol	110	110	1	110
	SV	Trimethylcyclohexanol	15000	8400	2	10200
	SV	Unknown alcohol	16000	24	3	5534.67
	VOA	Unknown alcohol	1700	380	4	970
	SV	Unknown butoxyethoxy ethanol	1000	1000	1	1000
	SV	Unknown diol	82	82	1	82
	SV	Unknown ethoxyl alcohol	4900	620	3	2100
		ACIDS				
	SV	1,2-Benzenedicarboxylic acid butyl-2-met	78000	19000	2	48500
	SV	2-Butenedioic acid (E)-dim...	15000000	15000000	1	********** *
	VOA	Acetic acid ester	100000	100000	1	100000
	VOA	Acetic acid, 1-methylethylester	750000	31	3	278641.4
	SV	Acetic acid, 2-ethylhexyl ester	270000	270000	1	270000
	VOA	Acetic acid, propylester	39	39	1	39
	VOA	Aceticacid, butylester	150000	22	7	43339.71
	VOA	Aceticacid, methylester	270000	270000	1	270000
	SV	Benzeneacetic acid	1400	190	3	856.67
	SV	Benzeneacetic acid, .alpha.-ethyl-	58	34	2	46
	SV	Benzenepropanoic acid	1600	110	3	1003.33
	SV	Benzoic acid, 2,4,6-trimethyl-	36	36	1	36
	SV	Benzoic acid, 2,4-dimethyl-	24	24	1	24
	SV	Benzoic acid, 3-methyl-	38	38	1	38
	SV	Benzoic acid, [illegible]	34	10	2	22
	SV	Butanedioicacid, dimethyle...	4700000	4700000	1	4700000.004
	SV	Butanedioicacid, monomethyl..	63000000	63000000	1	********** *
	SV	Butanoic acid, 2-methyl-	2800	2800	1	2800
	SV	Butylcitrate + Unknown	430000	430000	1	430000
	SV	Cyclohexanecarboxylic acid	1900	1900	1	1900
	SV	Dimethylbenzoic acid	400	400	1	400
	SV	Dimethylethylbenzoic acid	400	400	1	400
	SV	Diphosphoric acid tetraethy..	28	26	2	27
	SV	Dodecanoic acid	190000	3000	4	103250
	SV	Glycine, n-(2-methyl-1-oxo-2...	12	12	1	12
	SV	Heptanoic acid	4800	1300	2	3050
	SV	Hexanoic acid (DOT)	15000	200	10	5618
	SV	Hexadecanoic acid	2800000	760	11	[illegible]
	SV	Hexanedioic acid, bis(2-methylpropyl) es	9600000	9600000	1	9600000.009
	SV	Hexanedioic acid, dibutylester	7100000	7100000	1	7100000.007
	SV	Hexanedioic acid, ethylmethlester-	1600000	1600000	1	1600000.001
	SV	Hexanoic acid (DOT)	400000	400000	1	400000
	SV	Hexanoic acid, 2-ethyl-	890	320	5	488
	SV	Hexanoic acid, 2-methyl-	2800	720	3	1480
	SV	Hexanoic acid, anhydride	2100	60	2	1080
	SV	Methylbenzoic acid isomer	420	44	3	172
	SV	Octanoic acid	4800	370	4	2442.5
	SV	Pentadecanoic acid, 14-methyl-methylester	2500	2500	1	2500
	SV	Pentanoic acid, 4-methyl-	1100	160	2	630
	SV	Phenobarbital (VAN)	22	8	3	14.67
	SV	Phosphoric acid, trimethylest...	84	84	1	84
	SV	Propanoic acid, 2-(4-chlorophenoxy)-prop	170	17	3	93.33
	SV	Propanoic acid, 2-methyl-1,...	740	740	1	740
	VOA	Propanoicacid, 2-methyl-,butylester-	27000	27000	1	27000
	SV	Tetradecanoic acid	130000	3900	3	52300
	SV	Trimethyl benzoic acid	12	12	1	12
	SV	Unknown alkyl acid	420	34	4	181

WARZYN

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

5-Oct-1990

Summary for all matrices and locations
Results in ppb

RfD	SF		COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	freq.	AVERAGE CONC.
		SV	Unknown carboxylic acid	480000	22	5	198924.4
		SV	Unknown carboxylic acid	150000	150000	1	150000
		SV	Unknown octadecenoic acid	13000	13000	1	13000
		SV	Unknown substituted benzole...	40	40	1	40
			AMINES				
		SV	Benzamide, n-methylmethanyl-	530	530	1	530
		SV	Benzamide, n,n-diethyl-3-met...	100	50	3	74
*1		SV	Benzenamine, n,n-diethyl-	530000	300	10	125930
*1		SV	Benzenamine, n-ethyl-	410	410	1	410
		SV	Benzenamine, n-methyl-	660	660	1	660
		SV	Benzeneacetonitrile	40	40	1	40
		SV	Benzenesulfonamide, n-butyl-	900	900	1	900
*		SV	Caprolactam	10	10	1	10
		SV	Cyclopropanamine, 2-phenyl-,...	9600	9600	1	9600
		SV	Diethylbenzenamine	3100	3100	1	3100
		SV	Dodecanamide, n,n-bis(2-hydr)-	480000	6400	7	172628.57
		SV	Hydroxylamine, o-decyl-	140000	590	3	47230
		SV	Silanediamine, 1,1-dimethyl-	120000	120000	1	120000
		SV	Urea, n-methyl-n'-(4-methylphenyl)-	17000	54	2	8527
			PCBs				
		SV	Aroclor 1016	550	550	1	550
		SV	1,1'-Biphenyl, tetrachloro-	200	200	1	200
		SV	Trichlorobiphenyl isomer	7500	320	4	2655
		SV	PCB	4700	360	8	2253.75
		SV	Unknown chlorinated biphenyl	4000	240	8	1748.75
			FURANS				
		VOA	Tetrahydrofuran	54	54	1	54
		SV	Furan, 2,2'-(oxybis(methylene))bis,-	1100	16	10	181.2
		VOA	Furan, tetrahydro-	310	75	6	165
		SV	Benzo[B]naphtho[2,3-D]furan	200	200	1	200
		SV	Furan, 2,2'-methylenebis-	1400	18	9	392.67
			UNCLASSIFIED				
		SV	Unknown chlorinated compound	90000	13000	2	53500
		SV	Unknown fatty acid	2600000	9600	2	1304800
		VOA	Substituted methylbenzene	11	11	1	11
		SV	Unknown substituted sulfonyl	44	44	1	44
		SV	Unknown + TCL	1100000	1100000	1	1100000.001
		VOA	Unknown	1900000	4.8	100	108574.45
		SV	Unknown	100000000	2	999	334849.25
		SV	Iron, tricarbonyl[n-(phenyl-...	140000	47000	2	93500
		SV	Dihydromethylindene	8700	8700	1	8700
		SV	Isoquinoline	500	500	1	500
		VOA	Unknown substituted cyclonex	62	62	1	62
		SV	Sulfur, mol. (S8)	16000	180	14	3958.57
		VOA	Diisopropyl ether (DOT)	8.1	8.1	1	8.1
		SV	Phthalic anhydride	280000	88000	7	161142.86

* Toxicity values obtained from HEAST or IRIS
RfD Reference dose
SF Slope Factor

1 Inadequate data available in HEAST

ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE
CINCINNATI, OH 45268

FACSIMILE COVERSHEET

DATE: 11-28-90

: Robert Swale (Region V)

CATION: Chicago, Il

CSIMILE NO: 8-886-4071

OM: Peter Wuest

MMENTS:

26 pages to follow

AO-CIN FACSIMILE NO: FTS: (8)684-7475
COMMERCIAL: (513)569-7475
FICE TELEPHONE NO: FTS: (8)684-7531
COMMERCIAL: (513)569-7531

Kevin Domach, Warzyn Engineering
American Chemical Services NPL Site Request

Kevin Domach of Warzyn Engineering called on October 3,1990, requesting toxicity values for a list of chemicals found at the American Chemical Services NPL Site. I requested he fax the list to us at ECAO, to which he agreed with no mention of a time limit for receiving our response. The fax we received appeared to be a computer printout of all chemicals analyzed at the site and included such names a "Decane unknown" and "Unknown alcohol". We also realized, upon our first examination, that many of the listed chemicals were on IRIS and/or HEAST, which are to be checked by the requestor <u>before</u> asking our assistance. I therefore called Mr. Domach again, and asked him to fax a revised list containing only those chemicals of known composition which he could not find on IRIS/HEAST. He agreed and refaxed a revised list.

His second list contained a cover sheet with questionable instructions as to whether the values marked with an asterisk were the missing values or the ones he had already found. I therefore called Mr. Domach and asked him to clarify his fax instructions and was told the asterisks indicated values he had already found. It was then that we realized the vast majority of chemicals on his list required reference doses and/or slope factors.

However, when we began our research, we realized there were still several chemicals on his list that were on IRIS/HEAST, but we had already used valuable time double checking them. When Mr. Domach called again at the end of October he asked the status of his request and said he needed it by the middle of November. I told him our research was almost finished and that it would have to be reviewed and approved by two people before it could be sent out, possibly that week or the next.

Christina S. Haviland, LAI.
Christina S. Haviland

November 28, 1990

WARZYN

TELECOPIER COVER SHEET

One Science Court
Madison, WI 53711
Telephone (608) 231-4747
FAX (608) 231-4777

OCT 1990 RECEIVED

Date: 10/3/90

To: Pei Rung Hurst

FAX Send No. (513) 569-7475

From:

Sending a total of 12 pages, excluding this cover page.

If you do not receive all pages, or are experiencing other problems in transmission, please call (608) 231-4747. Thank you.

Re:

Project Number:

_____ Regular Transmission, or ____ Confidential Handling

1st request

PH

ECAO — 10/3/90

Enclosed is a list of tentatively identified compounds ~~to~~ detected at the American Chemical Services (ACS) Superfund Site, Griffith, Indiana. We have grouped these compounds based on their chemical make-up. Because the Site is highly contaminated, we believe it is appropriate to obtain ECAO guidance on the use of these tentatively identified compounds in the Baseline Risk Assessment. In addition, we require toxicity values (slope factors and chronic reference doses, as appropriate) for all the Target Compound List chemicals as these too, appear in high concentrations at the Site. Please review the enclosed information and advise as soon as possible.

KEVIN DOMACK
WARZYN ENGINEERING
(608) 231-4747

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

3-Oct-1990

	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	#
	SUBSTITUTED BENZENES					
VOA	1-Propenylbenzene + Unknown	120000	120000	1	120000	373
SV	Azobenzene (ACN)	930	930	1	930	272
SV	Benzaldehyde, 4-propyl-	510000	1100	4	207275	128
SV	Benzene, (1,1-dimethylethyl)-	79000	370	6	34428.33	25
SV	Benzene, (1,1-dimethylpropyl...	32	32	1	32	182
SV	Benzene, (1,3,3-trimethylnonyl)-	1400000	37000	6	304833.33	259
SV	Benzene, (1-methylethyl)-	180000	370	2	90185	126
VOA	Benzene, (1-methylethyl)-	480000	9.7	12	115007.56	325
VOA	Benzene, (2-methylpropyl)-	98000	98000	1	98000	363
VOA	Benzene, (nitromethyl)-	250000	250000	1	250000	386
SV	Benzene, 1,1'-methylenebis-	1700	300	3	983.33	118
SV	Benzene, 1,1'-oxybis-	3500000	8	31	203102.84	14
SV	Benzene, 1,2,3,5-tetramethyl-	280000	210	6	71601.67	42
SV	Benzene, 1,2,3-trimethyl-	7600	7600	1	7600	132
VOA	Benzene, 1,2,3-trimethyl-	470000	9.1	10	92015.61	327
VOA	Benzene, 1,2,4-trimethyl-	1200000	28	10	188645.7	319
SV	Benzene, 1,2,4-trimethyl-	620000	710	13	111398.46	24
VOA	Benzene, 1,2-dichloro-	1400	1400	1	1400	374
SV	Benzene, 1,2-dimethyl-4-(phenylmethyl)-	31000	24	2	15512	181
SV	Benzene, 1,3,5-trimethyl-	1300000	82	16	137145.13	37
VOA	Benzene, 1,3,5-trimethyl-	24000	3.6	4	9543.4	348
SV	Benzene, 1,3-diethyl-4-methy...	69000	870	2	34935	131
SV	Benzene, 1,3-dimethyl-	440	440	1	440	180
SV	Benzene, 1,4-diethyl-	750000	28000	4	369500	18
SV	Benzene, 1,4-dimethyl-	880	880	1	880	191
SV	Benzene, 1,4-dimethyl-2-nitro-	5300	1700	2	3500	71
SV	Benzene, 1-chloro-3-methyl-	120	68	2	94	173
SV	Benzene, 1-ethenyl-2-methyl-	1400	1400	1	1400	127
SV	Benzene, 1-ethyl-2,3-dimethyl-	160000	160000	1	160000	138
SV	Benzene, 1-ethyl-2,4,5-trimethyl-	73000	73000	1	73000	260
SV	Benzene, 1-ethyl-2-methyl-	1600000	42	18	180970.56	16
VOA	Benzene, 1-ethyl-2-methyl-	1700000	4.8	18	247789.88	318
VOA	Benzene, 1-ethyl-3-methyl-	880000	10000	2	445000	315
SV	Benzene, 1-ethyl-3-methyl-	1900000	520	19	324438.42	23
VOA	Benzene, 1-ethyl-3-methyl-	300000	960	3	146986.67	326
SV	Benzene, 1-ethyl-4-methoxy-	2100	90	4	1060	100
VOA	Benzene, 1-ethyl-4-methyl-	6	6	1	6	372
SV	Benzene, 1-methyl-2-propyl-	440000	440000	1	440000	17
SV	Benzene, 1-methyl-3-(1-methylethyl)-	1100	1100	1	1100	87
SV	Benzene, 1-methyl-4-(1-methylethyl)-	6100	6100	1	6100	86
SV	Benzene, 1-methyl-4-(methyls...	14	14	1	14	186
SV	Benzene, 1-methyl-4-propyl-	2200	2200	1	2200	13
SV	Benzene, 2,4-dimethyl-1-(1-methylethyl)-	940000	2300	2	471150	82
SV	Benzene, 2-ethyl-1,3-dimethyl-	42000	1700	2	21850	26
SV	Benzene, 2-ethyl-1,4-dimethyl-	1900000	6	44	166915.82	19
SV	Benzene, ethyl-	16	16	1	16	179

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

3-Oct-1990

	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
SV	Benzene, methyl(1-methylethy...	330000	28000	2	179000	27
SV	Benzene, propyl-	520000	22	11	128209.27	15
OA	Benzene, propyl-	380000	6.5	26	53621.25	323
SV	Benzeneacetonitrile, .alpha...	1800	1100	2	1450	273
SV	Benzopyrene	230000	74	5	49098.8	248
SV	Benzopyrene isomer	320	320	1	320	92
SV	Chloromethylbenzene	68	68	1	68	212
OA	Decane + Substituted benzene	8800000	8800000	1	8800000.008	448
OA	Dichlorobenzene	3400	890	2	2145	375
SV	Diethylbenzeamine + Unknown	990000	12000	2	501800	67
OA	Diethylbenzene	78	78	1	78	405
SV	Diethylbenzene	2200000	1500	5	507100	239
SV	Diethylbenzene + unknown	350000	350000	1	350000	279
SV	Dimethylbenzene isomer	120000	8900	4	37825	102
SV	Dimethylethylbenzene	290000	290000	1	290000	280
SV	Ethyldimethylbenzene	1700000	300	24	345350.42	233
OA	Ethyldimethylbenzene	760000	8200	3	296066.67	459
SV	Ethyldimethylbenzene + Unknown	830000	11000	2	420500	10
SV	Ethyldimethylbenzene + unknown	290000	340	5	90844	254
SV	Ethyldimethylbenzene isomer	1300000	32	33	402708.85	8
SV	Ethylmethylbenzene	2100000	120	29	212214.48	228
OA	Ethylmethylbenzene	5900000	3.6	82	181812.12	407
OA	Ethylmethylbenzene + unknown	640000	24	7	108432.71	417
OA	Ethylmethylbenzene + unknown	170000	8800	2	89150	430
OA	Ethylmethylbenzene isomer	370000	35	13	57176.77	330
SV	Ethylmethylbenzene isomer	1600000	24	25	199954.24	3
SV	Ethyltrimethylbenzene + unknown	19000	19000	1	19000	249
SV	Methyl(methylethen) benzene +...	32000	32000	1	32000	196
OA	Methyl(methylethyl) benzene	210000	1400	2	105700	413
SV	Methyl(methylethyl)benzene	160000	4100	2	82050	232
SV	Methylbenzene + Unknown	11000	11000	1	11000	4
SV	Methylethylbenzene	230000	37000	3	139000	277
OA	Methylethylbenzene	130000	75	8	52871.88	422
OA	Methylethylbenzene + Unknown	120000	15400	5	67800	321
SV	Methylethylbenzene + unknown	12000	12000	1	12000	247
SV	Methylmethylethylbenzene + unknown	6500	6500	1	6500	283
SV	Methylpropenylbenzene	6	6	1	6	215
SV	Methylpropylbenzene	830	830	1	830	244
SV	Methylpropylbenzene + Unknown	1100000	140000	2	620000	33
SV	Methylpropylbenzene isomer	560000	510	8	197351.25	7
OA	Propenylbenzene + unknown	7300	7300	1	7300	468
OA	Propylbenzene	15000	7300	3	10400	432
OA	Propylbenzene + Unknown	200000	21	11	42032.55	317
OA	Substituted Benzene	680000	11	43	60248.14	336
OA	Tetramethylbenzene	1300000	11	5	324402.2	418
SV	Tetramethylbenzene	290000	250	6	74875	234
SV	Tetramethylbenzene + TCL	1100000	390000	2	745000	35
SV	Tetramethylbenzene + unknown	9600	9600	1	9600	306
SV	Tetramethylbenzene isomer	960000	120	5	306050	34

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
A	Trimethylbenzene	9800000	4.7	101	247506.44	408
V	Trimethylbenzene	1400000	320	51	175036.86	229
V	Trimethylbenzene + Unknown	1800000	29000	3	683000	5
A	Trimethylbenzene + Unknown	120000	12	6	44952	339
V	Trimethylbenzene isomer	1900000	50	53	353560	6
A	Trimethylbenzene isomer	690000	10	18	129517.78	331
A	Undecane + Substituted benzene	9800000	9800000	1	9800000.009	449
V	Unknown + Nitrobenzene	900000	900000	1	900000	20
V	Unknown alkylated benzene	250000	98000	3	162666.67	242
V	Unknown aromatic	100000	100000	1	100000	262
V	Unknown benzene	1300	1300	1	1300	261
V	Unknown Substituted Benzene	1300000	22	28	194506.21	22
A	Unknown substituted benzene	690000	4400	4	370100	434

SUBSTITUTED HYDROCARBONS

f	1-Decene, 2,4-dimethyl-	210	210	1	210	58
f	1-Hexadecyne	1600	1600	1	1600	302
f	1H-Idene, 1-ethylidene-	42000	380	2	21190	117
l	2,3-Heptadien-5-yne, 2,4-dimethyl-	140000	140000	1	140000	362
f	2-Cyclohepten-1-one	92	92	1	92	185
f	2-Hexadecane, 3,7,11,15-tetr...	42	42	1	42	170
f	3-Carene	660000	160000	2	410000	140
f	3-Hexadecane, (z)-	1200	510	2	855	264
f	3-Octadecene, (E)-	2600000	2600000	1	2600000.002	29
f	4-Carene, (1S,3S,6R)-(-)-	7700	7700	1	7700	121
l	4-Carene, (1S,3S,6R)-(-)-	6	6	1	6	397
f	5-Eicosene, (E)-	1400000	1400000	1	1400000.001	31
f	7-Hexadecene, (z)-	60000	60000	1	60000	263
f	9-Eicosyne	610000	610000	1	610000	139
f	9-Octadecene, (E)-	80000	80000	1	80000	268
f	a-Eicosene, (E)-	510000	1100	4	195525	266
	Azulene, 1,2,3,3A-tetrahydro-	1200000	150000	3	606666.67	66
	Benzene, 1,1'-oxybis-	7300	7300	1	7300	472
	Benzene, 1-ethenyl-3-ethyl-	44000	18	2	22009	65
	Benzene, 1-methyl-3-propyl-	700000	98000	3	386000	64
	Bicyclo[3.1.0]hex-2-ene, 2-me...	370000	55000	2	212500	376
	Bicyclo[3.1.0]hex-2-ene, 2-methyl-	29000	29000	1	29000	445
	Bromohexane isomer	5800	790	3	2796.67	90
	Cycloheptane, 1,3,5-tris(met...	52000	52000	1	52000	145
	Cyclohexane	290	290	1	290	416
	Cyclohexane, 1,2,4,5-tetraethyl-					310
	Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	250	250	1	250	343
	Cyclohexane, 1,3-dimethyl-, trans-	45	45	1	45	474
	Cyclohexane, 1-ethyl-2,3-dimethyl-	780	780	1	780	346
	Cyclohexane, 1-ethyl-4-methyl-, trans-	5100	9.7	3	1846.57	338
	Cyclohexane, 2-propenyl-	73	73	1	73	335

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
A Cyclohexane, butyl-	52000	40000	2	46000	381
A Cyclohexane, diethyl-	2800	2800	1	2800	382
A Cyclohexane, ethyl-	100000	42	3	33474	342
A Cyclohexane, methyl-	58000000	16	8	7261936.25	329
A Cyclohexane, propyl-	94	8.6	5	37.52	341
V Cyclooctane, 2,4-dimethyl-	61000	61000	1	61000	299
A Cyclopentane, 1,2,3-trimethyl-	3200000	3200000	1	3200000.003	390
A Cyclopentane, 1,2,4-trimethyl-	3300000	3300000	1	3300000.003	389
A Cyclopentane, 1-ethyl-3-methyl-, cis-	7500	150	2	3825	334
V Cyclopentane, 1-hexyl-3-methyl-	80000	80000	1	80000	57
V Cyclopentene, 1-ethenyl-3-me...	220000	21000	5	140200	101
V Decane	440000	450	13	187850	36
A Decane	3200000	88	28	314083.14	332
A Decane + unknown	1500000	16	28	243896.5	410
V Decane, 2,5,6-trimethyl-	110000	48000	2	79000	41
V Decane, 2,6,7-trimethyl-	62000	320	3	20900	207
V Decane, 2-Cyclohexyl-, 2-cycl...	140000	140000	1	140000	195
V Decane, 3,6-dimethyl-	8800	8800	1	8800	123
V Decane, 3-methyl-	56000	56000	1	56000	39
A Decane, 4-methyl-	120000	120000	1	120000	328
A Dichloromethylbutane	2200	2200	1	2200	429
A Dichloropentane	1100	1100	1	1100	428
V Diethylundecane	110000	110000	1	110000	281
V Dimethyl cyclooctane	110000	2700	2	56350	223
V Dimethyl heptadecane	860	310	7	430	222
V Dimethyl undecane	31000	170	6	9070	209
A Dimethylcyclohexane	76	76	1	76	403
A Dimethyldecane	8900	8900	1	8900	433
V Dimethyldodecane	13000	13000	1	13000	250
A Dimethylnonane	87000	87000	1	87000	447
V Dimethylnonane	120000	1800	2	60900	243
A Dimethylnonane + unknown	110000	110000	1	110000	442
A Dimethyloctane	120000	18000	2	69000	431
V Dimethylundecane	46000	46000	1	46000	257
A Dimethylundecane	1800	1800	1	1800	414
V Disilane, hexaethyl-	46	46	1	46	213
V Dispiro[2.0.2.2]octane	85000	40000	2	62500	130
V Disulfide, diethyl-	720	140	3	453.33	171
V Docosane	3900	2000	2	2950	53
V Dodecane, 1-iodo-	210	210	1	210	62
V Dodecane, 2,6,10-trimethyl-	110000	67000	2	88500	55
V Eicosane	130	130	1	130	167
V Eicosane, 10-methyl-	290	290	1	290	61
V Ethane, 1,1'oxybis-	1500	4	12	163.83	398
V Ethane, 1,1,2-trichloro-1,2,2-trichloro-	670000	670000	1	670000	464
V Ethane, 1,1-dichloro-1-nitro-	17000	17000	1	17000	392
V Ethane, 1,2-bis(2-chloroethoxy)-	78	50	2	64	178
V Ethane, 1-1'-oxybis-	57	57	1	57	454
V Ethenylcyclohexene	3700	63	2	1881.5	404

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
DETECTED AT ACS

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COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
A Ethylmethylheptane	110000	1600	4	65150	411
A Ethylmethylheptane + unknown	330000	330000	1	330000	441
A Ethylmethyloctane	1900	1900	1	1900	412
V Heptadecane	260000	7900	7	65271.43	51
V Heptadecane, 2,6-dimethyl-	150000	280	22	36628.64	45
A Heptane	23000000	180	2	**********	388
A Heptane, 2,3,5-trimethyl-	54000	54000	1	54000	356
A Heptane, 2,3,6-trimethyl-	230000	33000	2	131500	322
A Heptane, 2,4-dimethyl-	24000	24000	1	24000	369
A Heptane, 2,5-dimethyl-	33000	24000	2	28500	368
A Heptane, 3-ethyl-2-methyl-	5400	5400	1	5400	383
A Heptane, 3-methyl-	5900000	5300	2	2952650	377
A Heptane, 4-(1-methylethyl)-	19000	6300	2	12650	347
V Hexadecane	130000	240	8	60530	44
V Hexadecane, 2-methyl-	1600	1600	1	1600	50
A Hexane	150	150	1	150	466
A Hexane, 2,2,3,3-tetramethyl-	6000	6000	1	6000	378
V Hexane, 2,3,4-trimethyl-	420	420	1	420	95
A Hexane, 2,4-dimethyl-	25000	25000	1	25000	385
A Hexane, 2,5-dimethyl-	4600000	4600000	1	4600000.004	391
A Hexane, 2-methyl-	3700000	3700000	1	3700000.003	387
A Hexane, 3-ethyl-4-methyl-	19000	19000	1	19000	384
A Hexane, 3-methyl-	4100000	55	2	2050027.5	333
A Hexane, 4-ethyl-2-methyl-	60000	60000	1	60000	355
/ Hexatriacontane	150000	1700	6	62200	54
A Hydrocarbon + unknown	130000	24	6	33845.5	425
A Methane, dichlorofluoro-	14000000	4800000	2	9400000.008	393
A Methane, dimethoxy-	92000	6	2	46003	358
A Methane, oxybis-	27000	27000	1	27000	357
A Methane, trichlorofluoro-	4200000	4200000	1	4200000.004	395
/ Methyldetradecane	35000	35000	1	35000	294
A Methylnonane	20000	6800	3	11566.67	446
A Nonane	160000	32	11	59812	371
A Nonane	200000	5.8	34	36744.05	314
/ Nonane, 2,5-dimethyl-	1600000	91000	7	484428.57	40
A Nonane, 2,6-dimethyl-	250000	2000	7	65114.29	324
/ Nonane, 2,6-dimethyl-	2300000	14000	8	479125	63
A Nonane, 2-methyl-	130000	130000	1	130000	394
/ Nonane, 3,7-dimethyl-	180	180	1	180	208
A Nonane, 3-methyl-	35000	29	2	17514.5	340
/ Nonane, 4,5-dimethyl-	870	240	2	555	105
/ Nonane, 4-methyl-	600	600	1	600	137
/ Nonane, 4-methyl-	180000	1300	3	62166.67	345
/ Octadecane	1200	970	2	1085	265
Octane	130000	3800	2	66900	437
Octane	4100000	41	5	831042.2	354
Octane, 2,3,6-trimethyl-	320000	320000	1	320000	38
Octane, 2,3,6-trimethyl-	23	23	1	23	350
Octane, 2,3-dimethyl-	220000	1700	6	75450	316

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	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
SV	Octane, 2,3-dimethyl-	720	320	2	520	206
SV	Octane, 2,5-dimethyl-	790	790	1	790	136
VOA	Octane, 2,6-dimethyl-	5300	5300	1	5300	471
VOA	Octane, 3-methyl-	27000	27000	1	27000	370
VOA	Octane, 6-ethyl-2-methyl-	37	37	1	37	351
SV	Pentacosane	140000	72	6	64310.33	56
VOA	Pentane	120000	4680	2	62300	361
VOA	Propane, 1,1'-oxybis-	6	6	1	6	460
VOA	Propane, 2,2'-oxybis-	10	10	2	10	400
SV	Tetradecane	140000	280	14	30035	43
SV	Tetrahydroazulene	2100	2100	1	2100	284
SV	Tetramethylpentadecane	260	260	1	260	253
SV	Tridecane, 4,8-dimethyl-	55000	55000	1	55000	297
SV	Tridecane, 5-propyl-	3900	3900	1	3900	49
VOA	Trimethyloctane	4300	4300	1	4300	463
VOA	Trimethyltricycloheptane	99000	99000	1	99000	469
SV	Undecane	17000	17000	1	17000	122
VOA	Undecane	1300000	1300000	1	1300000.001	352
VOA	Undecane + unknown	510000	210000	2	360000	451
SV	Undecane, 2-methyl-	100000	100000	1	100000	143
SV	Undecane, 4,7-dimethyl-	1100000	120	36	153601.11	9
SV	Unknown Alkene	3300000	3300000	1	3300000.003	28
SV	Unknown alkyl cyclohexane	610	610	1	610	295
DA	Unknown bicyclic hydrocarbon	24	24	1	24	419
DA	Unknown cyclic hydrocarbon	47000	9	4	14509	406
SV	Unknown Hydrocarbon	1300000	16	242	68039.9	2
DA	Unknown Hydrocarbon	1700000	10	47	84079.32	320
DA	Unknown hydrocarbon C10H16	260000	130	2	130065	443
DA	Unknown hydrocarbon C10H22	270000	270000	1	270000	440
DA	Unknown oxygenated alkane	450	71	2	260.5	402
SV	Unknown oxygenated alkane	280	280	1	280	391
DA	Unknown oxygenated hydrocarbon	450	450	1	450	456
SV	Unknown substituted alkane					309
DA	Unknown Substituted Heptane	460	460	1	460	344
SV	Unknown substituted hydrocarbon	120000	120000	1	120000	269

POLYNUCLEAR AROMATICS

V	1(2H)-Naphthalenone, 3,4-dih...	12	12	1	12	186
V	1,4-Methanonaphthalene, 1,4-...	55000	160	3	21720	124
V	Dimethylnaphthalene	2500	2500	1	2500	296
V	Dimethylnaphthalene	380	380	1	380	255
V	Dimethylnaphthalene + unknown	1700	38	2	869	252
V	Methylnaphthalene	6000	530	2	3265	251
V	Naphthalene, 1,2,3,4-tetrah...	52	52	1	52	183
V	Naphthalene, 1,2-dimethyl-	8400	8400	1	8400	125
V	Naphthalene, 1-methyl-	730000	240	5	317648	129

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
SV	Tetrahydronaphthalene	66	66	1	66	216
SV	Unknown PAH	13000	13000	1	13000	236
SV	Unknown PAH	8	8	1	8	166
	PHTHALATES					
SV	Phthalic anhydride	58000	26	5	13085.2	93
SV	Phthalate	57000	57000	1	57000	293
SV	Unknown phthalate	1200000	1800	6	222300	198
	PHENOLS					
SV	1,1-Dimethylethyl phenol	250	250	1	250	225
SV	Dimethylphenol	72000	54	21	9709.71	70
SV	Dimethylphenol + Unknown	1100	1100	1	1100	69
SV	Ethyl-phenol isomer	75000	1400	2	38200	96
SV	Methyl-methyl-ethylphenol isomer	870	870	1	870	99
SV	Methylethylphenol	2500	54	6	952	210
SV	Methylphenol isomer	30000	12000	2	21000	156
SV	Phenol, 2,3-dimethyl-	11000	90	5	5198	85
SV	Phenol, 2-[1-(4-hydroxyphery...	2200	370	2	1285	116
SV	Phenol, 2-ethyl-4-methyl	2500	460	3	1586.67	135
SV	Phenol, 2-ethyl-5-methyl-	2300	450	4	1462.5	274
SV	Phenol, 3,5-diethyl-	1100	1100	1	1100	98
SV	Phenol, 3,5-dimethyl-	12	12	1	12	188
SV	Phenol, 3-ethyl-5-methyl-	78	50	2	64	176
SV	Phenol, 3-propyl-	300	300	1	300	224
SV	Phenol, 3-propyl-	440000	440000	1	440000	278
SV	Phenol, 4-(2,2,3,3-tetramethylbutyl)-	260000	3300	3	87433.33	48
SV	Propyl-phenol isomer	3400	3400	1	3400	97
SV	Trimethylphenol isomer	62	58	2	60	193
SV	Unknown substituted-phenol	780	28	2	404	175
	KETONES					
SV	1,3,5-Triazine- 2,4,6(1H,3H,5)-trione, 1	690	690	1	690	88
SV	1-Hexen-3-one, 5-methyl-1-phenyl-	3400	3400	1	3400	271
SV	2(1H)-Quinolinone	620	620	1	620	114
SV	2(3H)-Benzothiazolone	36	36	1	36	154
SV	2,4,6(1H,3H,5H)-Pyrimidinetrione-5-(1-me	130	70	2	70	190
SV	2-Cyclohexen-1-one, 3,5,5-trimethyl-	32	32	1	32	217
SV	2-Heptanone	810	810	1	810	424
SV	2-Hexanone, 5-methyl-	240	9.6	3	89.87	396

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
DA	2-Pentanone	54	54	1	54	423
DA	3-Buten-2-one, 3-methyl-	100000	100000	1	100000	359
DA	3-Heptanone, 5-methyl-	25	6	3	15.33	367
SV	3-Octanone	910	86	4	521.5	172
SV	3-Pentanone, 2,2,4,4-tetram..	43000	43000	1	43000	298
DA	3-Pentanone, 2,2,4,4-tetramethyl-	180	13	2	96.5	337
DA	3-Pentanone, 2,4-dimethyl-	15	15	1	15	366
SV	Benzophenone	770	770	1	770	119
SV	Bicyclo[2.2.1]heptan-2-one	52	52	1	52	147
SV	Camphor (ACN)	310	150	2	230	149
SV	Cyclohexanone, 3,3,5-trimethyl-	65000	850	5	19590	221
SV	Ethanone, 1-(2-chlorophenyl)-	410	410	1	410	112
SV	Ethanone, 1-phenyl-	2100	2100	1	2100	287
DA	Ketone	230	57	2	143.5	421
DA	Methylheptanone	6	6	1	6	435
DA	Methylhexanone	7	7	1	7	462
DA	Methylphenylethanone	160000	160000	1	160000	465
DA	Tetramethylpentanone	56	56	1	56	439
SV	Tetramethylpentanone + unknown	400	400	1	400	305
SV	Trimethylcyclohexanone	23000	23000	1	23000	230
DA	Unknown ketone	54	7.4	3	31.47	438
DA	Unknown ketone	440	12	4	141.5	409
SV	Unknown Ketone	2200	2200	1	2200	290

ALCOHOLS

SV	1,3-Pentanediol, 2,2,4-trimethyl-	40	40	1	40	189
SV	1,3-Propanediol, 2,2-dimethyl-	2600000	2600000	1	2600000.002	77
DA	1-Butanol	480000	2500	2	241250	368
SV	1-Decanol, 2-ethyl-	2100	2100	1	2100	288
DA	1-Heptanol, 2-propyl-	26000	26000	1	26000	380
SV	1-Hexadecanol					308
SV	1-Octanol, 2-butyl-	340	340	1	340	308
DA	1-Octanol, 2-butyl-	42000	42000	1	42000	379
SV	2,4-Pentanediol, 2-methyl-	7500	10	14	1727.57	163
SV	2-Methylcyclopentanol	340000	340000	1	340000	267
SV	2-Methylcyclopentanol isomer	2000	56	3	862	192
DA	2-Pentanol, 4-methyl-	390	2.3	4	107.08	349
DA	2-Propanol	3100	1900	2	2500	453
SV	2-Propanol, 1-(2-methoxy-1-methylethoxy)	2200	140	3	956.67	199
SV	2-Propanol, 1-[2-(2-methoxy-1-methylethoxy)]	1000	36	5	286.8	151
SV	2-Propanol, 2-(2-methoxy-1-methylethoxy)	90	14	3	64.67	164
DA	2-Propanol, 2-methyl-	8	8	1	8	401
DA	Butanol	610	40	4	252.75	455
SV	Cyclohexanemethanol, .alpha.-.alpha.-4-t	880	220	5	518	174
SV	Cyclohexanol, 3,3,5-trimethyl-	13000	26	24	3607.08	59
SV	Cyclopentanol, 2-methyl-Cl...	2600	52	2	1326	83

TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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3-Oct-1990

COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
SV Ethanol, 1-(2-butoxyethoxy)-	18000	18000	1	18000	134
SV Ethanol, 2-(2-butoxyethoxy)-...	37000	3800	4	16450	11
SV Ethanol, 2-[2-(2-ethoxyethox...	1700	1700	1	1700	133
SV Ethanol, 2-butoxy-*	280000	430	3	94443.33	144
FOA Hexanol	14	14	1	14	457
SV Methanol, dibutoxy-	11000	11000	1	11000	12
SV Methanol, dibutoxy-	2400000	2400000	1	2400000.002	78
SV Methylcyclopentanol	67000	67000	1	67000	256
FOA Methylhexanol	30	19	2	24.5	458
FOA Methylpentanol	15	15	1	15	461
FOA Pentanol	110	110	1	110	467
SV Trimethylcyclohexanol	15000	5400	2	10200	231
SV Unknown alcohol	16000	24	3	5534.67	214
FOA Unknown alcohol	1700	380	4	970	364
SV Unknown butoxyethoxy ethanol	1000	1000	1	1000	291
SV Unknown diol	82	82	1	82	211
SV Unknown ethoxyl alcohol	4900	620	3	2100	286
ACIDS					
SV 1,2-Benzenedicarboxylic acid butyl-2-met	78000	19000	2	48500	197
SV 2-Butenedioic acid (E)-dim...	15000000	15000000	1	********** *	74
FOA Acetic acid ester	100000	100000	1	100000	452
FOA Acetic acid, 1-methylethylester	750000	31	5	278641.4	459
SV Acetic acid, 2-ethylhexyl ester	270000	270000	1	270000	282
FOA Acetic acid, propylester	39	39	1	39	470
FOA Aceticacid, butylester	150000	22	7	43339.71	313
FOA Aceticacid, methylester	270000	270000	1	270000	353
SV Benzeneacetic acid	1400	199	3	856.67	160
SV Benzeneacetic acid, .alpha.-ethyl-	58	34	2	46	165
SV Benzenepropanoic acid	1600	110	3	1003.33	150
SV Benzoic acid, 2,4,6-trimethyl-	36	36	1	36	219
SV Benzoic acid, 2,4-dimethyl-	24	24	1	24	238
SV Benzoic acid, 3-methyl-	38	38	1	38	177
SV Benzoic acid, 4-(1,1-dimethylethyl)-	34	10	2	22	220
SV Butanedioicacid, dimethyle...	4700000	4700000	1	4700000.004	75
SV Butanedioicacid, monomethyl..	63000000	63000000	1	********** *	76
SV Butanoic acid, 2-methyl-	2800	2800	1	2800	155
SV Butylcitrate + Unknown	430000	430000	1	430000	108
SV Cyclohexanecarboxylic acid	1900	1900	1	1900	159
SV Dimethylbenzoic acid	400	400	1	400	200
SV Dimethylethylbenzoic acid	400	400	1	400	201
SV Diphosphoric acid tetraethy..	28	26	2	27	162
SV Dodecanoic acid	190000	3000	4	103250	47
SV Glycine, n-(2-methyl-1-oxo-2...	12	12	1	12	187
SV Heptanoic acid	4800	1300	2	3050	158
SV Hexanoic acid (DOT)	15000	200	10	5618	68

...LY IDENTIFIED COMPOUNDS (TICS)
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COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
¥ Hexadecanoic acid	2800000	760	11	339778.18	30
¥ Hexanedioic acid, bis(2-methylpropyl) es	9600000	9600000	1	9600000.009	81
¥ Hexanedioic acid, dibutylester	7100000	7100000	1	7100000.007	80
¥ Hexanedioic acid, ethylmethlester-	1600000	1600000	1	1600000.001	79
¥ Hexanoic acid (DOT)	400000	400000	1	400000	276
¥ Hexanoic acid, 2-ethyl-	890	320	5	488	60
¥ Hexanoic acid, 2-methyl-	2800	720	3	1480	157
¥ Hexanoic acid, anhydride	2100	60	2	1080	120
¥ Methylbenzoic acid isomer	420	44	3	172	194
¥ Octanoic acid	4800	370	4	2442.5	161
¥ Pentadecanoic acid, 14-methyl-methyleste	2500	2500	1	2500	307
¥ Pentanoic acid, 4-methyl-	1100	160	2	630	168
¥ Phenobarbital (VAN)	22	8	3	14.67	226
¥ Phosphoric acid, triethyles...	84	84	1	84	148
¥ Propanoic acid, 2-(3-chlorophenoxy)-prop	170	12	3	93.33	202
¥ Propanoic acid, 2-methyl-1,...	740	740	1	740	94
¥ Propanoicacid, 2-methyl-,butylester-	27000	27000	1	27000	399
¥ Tetradecanoic acid	130000	3900	3	52300	52
¥ Trimethyl benzoic acid	12	12	1	12	204
¥ Unknown alkyl acid	420	34	4	181	146
¥ Unknown carboxylic acid	480000	22	5	198926.4	32
¥ Unknown carboxylic acid	150000	150000	1	150000	292
¥ Unknown octadecenoic acid	13000	13000	1	13000	238
¥ Unknown substituted benzoic...	40	40	1	40	152

AMINES

¥ Acetamide, n-ethyl-n-phenyl-	530	530	1	530	303
¥ Benzamide, n,n-diethyl-3-met...	100	50	3	74	153
¥ Benzenamine, n,n-diethyl-	530000	300	10	125930	237
¥ Benzenamine, n,n-diethyl-	170000	32	9	20633.56	111
¥ Benzenamine, n-ethyl-	410	410	1	410	304
¥ Benzenamine, n-methyl-	660	660	1	660	275
¥ Benzeneacetonitrile	60	60	1	60	169
¥ Benzenesulfonamide, n-butyl-	900	900	1	900	115
¥ Caprolactam	10	10	1	10	205
¥ Cyclopropanamine, 2-phenyl-,...	9600	9600	1	9600	84
¥ Diethylbenzenamine	3100	3100	1	3100	285
Dodecanamide, n,n-bis(2-hydr)-	480000	6400	7	172628.57	258
Hydroxylamine, o-decyl-	140000	590	3	47230	141
Silanediamine, 1,1-dimethyl-	120000	120000	1	120000	270
Urea, n-methyl-n'-(4-methylphenyl)-	17000	54	2	8527	246

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TENTATIVELY IDENTIFIED COMPOUNDS (TICS)
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3-Oct-1990

	COMPOUND	MAXIMUM CONC.	MINIMUM CONC.	# DETECTS	AVERAGE CONC.	
SV	Aroclor 1016	550	550	1	550	106
SV	1,1'-Biphenyl, tetrachloro-	200	200	1	200	107
SV	Trichlorobiphenyl isomer	7500	320	4	2655	104
SV	PCB	4700	360	8	2253.75	91
SV	Unknown chlorinated biphenyl	4000	240	8	1748.75	103
	FURANS					
VOA	Tetrahydrofuran	54	54	1	54	420
SV	Furan, 2,2'-[oxybis(methylene)]bis,-	1100	16	10	181.2	113
VOA	Furan, tetrahydro-	310	75	6	165	365
SV	Benzo[B]naphtho[2,3-D]furan	200	200	1	200	109
SV	Furan, 2,2'-methylenebis-	1400	18	9	392.67	110
	UNCLASSIFIED					
SV	Unknown chlorinated compound	98000	13000	2	55500	72
SV	Unknown fatty acid	2600000	9600	2	1304800	73
VOA	Substituted methylborane	11	11	1	11	473
SV	Unknown substituted sulfonyl	44	44	1	44	203
SV	Unknown + TCL	1100000	1000000	1	1100000.001	21
VOA	Lab artifact	10	10	1	10	415
VOA	Unknown	1900000	4.8	100	108574.45	312
SV	Unknown	100000000	2	999	334849.25	1
SV	Iron, tricarbonyl[tr-(phenyl-...	140000	47000	2	93500	142
SV	Dihydromethylindene	8700	8700	1	8700	235
SV	Isoquinoline	500	500	1	500	289
VOA	Unknown substituted cyclonex	62	62	1	62	427
SV	Sulfur, mol. (S8)	16000	180	14	3958.57	89
SV	VOA TCL	79000	13000	3	41666.67	227
SV	Aldol	11000	12	75	1774.91	46
VOA	Disopropyl ether (DOT)	8.1	8.1	1	8.1	475
VOA	Oxirane					426
VOA	Dichloroethene					436
VOA	2-Butanol					444
SV	Ethanol, 2,2,2-trichloro-					311
SV	VOC TCL + Unknown	140000	140000	1	140000	261
SV	Phthalic anhydride	280000	88000	7	161142.86	240
SV	Solvent Contaminant	270	270	1	270	265