EPA Region 5 Records Ctr
350990

L11580400.1-Macon Co
Waste Hauling, Inc
ILD 000671073
SF\dPS
Volume 2 of 2

Site Team Evaluation Prioritization

CERCLA

Analytical Results

Illinois Environmental Protection Agency

2200 Churchill Road
P O Box 19276
Springfield, IL 62794-9276

Printed on Recycled Paper

SITE NAME WASTE HAULING

) 000671073

Table 2.0 Soil and Sediment Sample Results

SAMPLING POINT	X101 Backgroun	X102	X103	X104	X105	X106	X107	X201	X202	X203
PARAMETER										
VOLATILES (ug\kg or ppb)										
Methylene Chloride	–	9 0 J	–	–	–	–	–	–	–	3 0 J
Acetone	–	960 0 J	110 0 J	2800 0 J	–	7900 0 J	–	–	–	–
1 2-Dichloroethane	–	–	–	–	–	–	5 0 J	–	–	–
2-Butanone (MEK)	–	170 0 J	–	1600 0 J	–	–	–	–	–	–
Toluene	–	4 0 J	–	–	4 0 J	–	–	–	–	–
Ethylbenzene	–	–	–	–	6 0 J	–	–	–	–	–
Xylene(total)	–	–	8 0 J	–	37 0	–	–	–	–	–
SEMIVOLATILES (ug\kg or ppb)										
Phenol	–	–	–	–	–	240 0 J	–	–	–	–
2-Methylphenol	–	2600 0	–	–	–	–	–	–	–	–
4-Methylphenol	–	–	2500 0	660 0	260 0 J	2000 0	–	–	–	–
2 4-Dichlorophenol	–	24 0 J	28 0 J	–	–	–	–	–	–	–
Naphthalene	–	–	–	64 0 J	810 0 J	–	–	–	–	–
4-Chloro-3-Methylphenol	–	31 0 J	35 0 J	–	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	28 0 J	400 0 J	–	–	–	–	–
Acenaphthene	–	–	–	59 0 J	1200 0 J	–	–	–	–	–
Dibenzofuran	–	–	–	59 0 J	1300 0 J	–	–	–	–	–
Diethylphthalate	–	56 0 J	49 0 J	61 0 J	–	–	–	–	–	–
Fluorene	–	–	–	76 0 J	1800 0	25.0 J	–	–	–	–
Phenanthrene	–	22 0 J	60 0 J	470 0	7000 0	86.0 J	–	–	20 0 J	–
Anthracene	–	–	–	69 0 J	910 0 J	–	–	–	–	–
Carbazole	–	–	–	140 0 J	1100 0 J	–	–	–	–	–
Di-n-Butylphthalate	28 0 J	24 0 J	21 0 J	–	–	–	–	–	–	–
Fluoranthene	–	–	43 0 J	540 0	4400 0	58 0 J	–	–	27 0 J	37 0 J
Pyrene	–	–	34 0 J	380 0 J	3000 0	37 0 J	–	–	24 0 J	34 0 J
Butylbenzylphthalate	–	37 0 J	38.0 J	–	–	–	–	–	–	34 0 J
Benzo(a)anthracene	–	–	–	150 0 J	710 0 J	–	–	–	–	25 0 J
Chrysene	–	–	–	160 0 J	660 0 J	–	–	–	–	26 0 J
bis(2 Ethylhexyl)phthalate	18 0 J	130 0 J	140 0 J	79 0 J	640 0 J	23.0 J	–	–	–	–
Benzo(b)fluoranthene	–	–	–	82.0 J	430 0 J	–	–	–	–	32 0 J
Benzo(k)fluoranthene	–	–	–	110 0 J	320 0 J	–	–	–	21 0 J	22.0 J
Benzo(a)pyrene	–	–	–	95 0 J	420 0 J	–	–	–	–	32.0 J
Indeno(1 2 3-cd)pyrene	–	–	–	58 0 J	210 0 J	–	–	–	–	–
Dibenz(a h)anthracene	–	–	–	31 0 J	100 0 J	–	–	–	–	–
Benzo(g h,i)perylene	–	–	–	85 0 J	210 0 J	–	–	–	–	23 0 J
PESTICIDES (ug\kg or ppb)										
alpha-BHC	–	–	–	–	–	7 2 J	–	–	–	–
Heptachlor	–	–	–	–	–	9 2 J	–	–	–	–
Dieldrin	–	–	–	–	1 9 J	–	–	–	–	–
Endrin	–	–	–	–	4 8 J	–	–	–	–	–
Endosulfan II	–	–	–	–	8 0 J	–	–	–	–	–
Endosulfan sulfate	–	–	–	–	–	2.7 J	–	–	–	–
4 4'-DDT	–	–	–	1 8 J	19 0 J	–	–	–	–	–
Methoxychlor (Marate)	–	–	26 0 J	–	–	25.0 J	–	8.2 J	–	–
Endrin Ketone	–	–	–	–	3.0 J	8 3 J	–	–	–	–
Endrin aldehyde	–	5 1 J	6 9 J	–	4 5 J	9 8 J	2 8 J	–	–	–
alpha-Chlordane	–	–	–	–	3.2 J	–	–	2 4 J	–	–
gamma-Chlordane	–	–	–	–	–	–	–	3 5 J	–	–
Aroclor 1254	–	–	–	–	100 0	–	–	–	–	–
INORGANICS (mg\kg or ppm)										
Aluminum	4780 0	6190 0	4460.0	3130 0	11100 0	12300 0	5270 0	6700 0	6680.0	6870 0
Arsenic	2.9	8 8	4 0	1 4	3 4	6 7	9 8	6.7	2.2	2 7
Barium	59 8	59 3	41 7	35 7	81 2	85 0	126 0	140 0	52.5	105 0
Beryllium	0 3	0 5	0.4	0 2 J	0 2 J	0 5	0 2	0 5	0 4	0 4
Cadmium	–	–	–	–	–	–	–	–	0 2	–
Calcium	1020 0 J	23600 0 J	19100.0 J	26300 0 J	32000 0 J	3330 0 J	55300 0 J	5340 0 J	17700.0 J	5160 0 J
Chromium	6 3	10.2	7 3	5.2	10 7	12.7	9 1	11 7	10 6	9.2
Cobalt	6 1	8.3	4 8	3.1	4 5	8 5	8 1	20.2	5 9	5 4
Copper	8 6 J	23 8 J	15 4 J	6 0 J	33 8 J	25 5 J	16 8 J	18 6 J	12.1 J	12.2 J
Iron	8230 0	26200 0	14100 0	11000 0	14600 0	38800 0	29700 0	15400 0	11000 0	10600 0
Lead	12 4	23 2	11 8	5 3	15 5	24 8	7 3	30 4	10 6	14 1
Magnesium	942 0 J	9300 0 J	9030 0 J	5260 0 J	6430 0 J	2160 0 J	25400 0 J	3300 0 J	9750 0 J	2840 0 J
Manganese	448 0	610 0	272 0	280 0	650 0	293 0	732 0	1810 0	346.0	405 0
Nickel	7 9	15 4	9 5	5 8	16 7	14.2	15.0	13 9	12.7	10 6
Potassium	722.0 J	1380 0 J	942.0 J	633 0 J	734 0 J	1380 0 J	685 0 J	855.0 J	968 0 J	1050 0 J
Silver	0 4 J	1 2 J	0 5 J	0 5 J	0 6 J	1 8 J	1 4 J	29 6 J	0 6 J	0 6 J
Sodium	78 7	550 0	389 0	728 0	514 0	357 0	344.0	115.0	179 0	113 0
Vanadium	12 3	18 1	11 1	8 0	8.5	25 9	16 6	23.0	15 6	15 1
Zinc	40 0 J	403 0 J	301 0 J	26 8 J	196 0 J	129 0 J	58 0 J	46.0 J	40 0 J	49 1 J
Cyanide	0 3	0 1	0 3	0.2	–	0 8	–	0.1	0 1	0 1

SITE NAME WASTE HAULING

ILD 000671073

Table 2 1 Water Sample Results

SAMPLING POINT	G101	G103	G104	Field Blank	Trip Blank	G201	G202	G203	Field Blank	Trip Blank
PARAMETER										
VOLATILES (ug/l or ppb)										
Vinyl Chloride	–	8 0 J	7 0 J	–	–	–	–	–	–	–
Chloroethane	–	110 0	97 0	–	–	–	–	–	–	–
Methylene Chloride	–	2 0 J	2 0 J	–	–	–	–	–	–	–
Acetone	–	–	–	14 0 J	–	–	9 0	–	14 0	–
1 1 Dichloroethane	–	44 0 J	38 0 J	–	–	–	–	–	–	–
1,2-Dichloroethene(total)	–	48 0	43 0	–	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–	–	–	0 7 J	–
1 2-Dichloroethane	–	2 0 J	2 0 J	–	–	–	–	–	–	–
1 1 1 Trichloroethane	–	6.0 J	5 0 J	–	–	–	–	–	–	–
Trichloroethene	–	4 0 J	3 0 J	–	–	–	–	–	–	–
Benzene	–	5 0 J	4 0 J	–	–	–	–	–	–	–
Tetrachloroethene	–	15 0	14 0	–	–	–	–	–	–	–
										–
										–
SEMIVOLATILES (ug/l or ppb)										
Diethylphthalate	–	–	0 6 J	–		–	–	–	–	
Butylbenzylphthalate	–	2 0 J	–	–		–	–	–	–	
Chrysene	–	–	–	–		–	–	1 0 J	–	
bis(2-Ethylhexyl)phthalate	–	120 0 J	–	–		–	–	–	–	
PESTICIDES (ug/l or ppb)										
INORGANICS (ug/l or ppb)										
Aluminum	38 8 J	–	68 3 J	61 9 J		–	–	–	–	
Arsenic	–	–	–	3 2 J		–	–	–	–	
Barium	70 7	161 0	157 0	2 0		52.0	40 4	42 4	–	
Cadmium	–	–	2 3 J	0 6		–	–	–	–	
Calcium	74100 0	136000 0 J	132000 0 J	458 0 J		134000 0	86800 0	88400 0	–	
Chromium	–	0 8 J	2 7 J	0 7 J		–	–	–	–	
Cobalt	–	18 2	17 0	–		–	–	–	–	
Copper	118 0 J	6 4 J	167 0 J	63 9 J		–	–	6 1	–	
Iron	113 0 J	66 4 J	94 4 J	49 4 J		330 0	142 0	142 0	–	
Lead	11 4 J	2 1 J	39 8 J	38 0 J		–	–	–	–	
Magnesium	40400 0	72100 0	69700 0	163 0 J		72900 0	39600 0	40500 0	–	
Manganese	96 7 J	1080 0	1050 0	20 4		24 0	6 1	–	–	
Mercury	–	0 3	–	–		–	–	–	–	
Nickel	–	66 8	62 4	–		–	–	–	–	
Potassium	318 0 J	5680 0	5730 0	111 0		1840 0	7050 0	7050 0	–	
Selenium	3 2	–	–	–		–	–	–	–	
Sodium	9580 0	202000 0	193000 0	357 0		39400 0	23200 0	26000 0	–	
Vanadium	–	–	0 9	–		–	–	–	–	
Zinc	5.5 J	4 4 J	32 7 J	28 4		–	–	–	–	
Cyanide	–	–	1 0	–		–	–	–	–	

DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
U	Compound was tested for but not detected The sample quantitation limit must be corrected for dilution and for percent moisture For soil samples subjected to GPC clean-up procedures the CRQL is also multiplied by two to account for the fact that only half of the extract is recovered	Analyte was analyzed for but not detected
J	Estimated value Used when estimating a concentration for tentatively identified compounds (TICS) where a 1 1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero Used in data validation when the quality control data indicate that a value may not be accurate	Estimated value Used in data validation when the quality control data indicate that a value may not be accurate
C	This flag applies to pesticide results where the identification is confirmed by GC/MS	Method qualifier indicates analysis by the Manual Spectrophotometric method
B	Analyte was found in the associated blank as well as in the sample It indicates possible/probable blank contamination and warns the data user to take appropriate action	The reported value is less than the CRDL but greater than the instrument detection limit (IDL)
D	Identifies all compounds identified in an analysis at a secondary dilution factor If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag the "DL suffix is appended to the sample number on the Form I for the diluted sample and all concentration values are flagged with the "D" flag	Not used
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis All extracts containing compounds exceeding the calibration range must be diluted and analyzed again If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis then the results of both analyses must be reported on separate Forms I The Form I for the diluted sample must have the "DL" suffix appended to the sample number	The reported value is estimated because of the presence of interference
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory	Method qualifier indicates analysis by Flame Atomic Absorption (AA)
M	Not used	Duplicate injection (a QC parameter not met)

N	Not used	Spiked sample (a QC parameter not met)
S	Not used	The reported value was determined by the Method of Standard Additions (MSA)
W	Not used	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery while sample absorbance is less than 50% of spike absorbance
*	Not used	Duplicate analysis (a QC parameter not within control limits)
+	Not used	Correlation coefficient for MSA (a QC parameter) is less than 0 995
P	Not used	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy
CV	Not used	Method qualifier indicates analysis by Cold Vapor AA.
AV	Not used	Method qualifier indicates analysis by Automated Cold Vapor AA.
AS	Not used	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry
T	Not used	Method qualifier indicates Titrimetric analysis
NR	The analyte was not required to be analyzed	The analyte was not required to be analyzed
R	Rejected data The QC parameters indicate that the data is not usable for any purpose	Rejected data The QC parameters indicate that the data is not usable for any purpose

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1 2-Dichloropropane
Bromomethane	cis-1 3-Dichloropropene
Vinyl Chlorde	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chlonde	1 1 2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1 3-Dichloropropene
1 1 Dichloroethene	Bromoform
1 1-Dichloroethane	4-Methyl-2-pentanone
1 2-Dichloroehtene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1 2 Dichloroethane	1 1 2 2-Tetrachloroethane
2-Butanone	Toluene
1 1 1 Trichloroethane	Chlorobenzene
Carbon Tetrachlonde	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2 4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether

Hexachlorobutadiene	Anthracene
2-Methylnaphthalene	Di-n-Butylphthalate
1 2 4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3 Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1 2 3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a h)Anthracene
2 6-Dinitrotoluene	Benzo(g h i)Perylene
Fluorene	1 2-Dichlorobenzene
4 Nitroaniline	1 3-Dichlorobenzene
4-Chlorophenyl-phenylether	1 4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2 4 6-Trichlorophenol
Phenol	2 4 5-Trichlorophenol
2 Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2 4 Dinitrophenol
2-Methylphenol	2-Methyl-4 6-dinitrophenol
2 4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2 4-Dichlorophenol	

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4 4 DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4 4 DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4 4 DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobolt	Vanadium
Copper	Zinc

Iron	Cyanide
Lead	Sulfide
Magnesium	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE May 11, 1998

SUBJECT Review of Data
Received for Review on May 4, 1998

FROM Stephen L Ostrodka, Chief (SRT-4J) for Steve Ostrodka Richard L Bynum 5/19/98
Superfund Technical Support Section

TO Data User IEPA

We have reviewed the data for the following case

SITE NAME WASTE HAULING (IL)

CASE NUMBER 26080 SDG NUMBER EBJS2

Number and Type of Samples 15 (SOIL/WATER)

Sample Numbers EBJS2, 4 EBPT6-8, EBSL3, 9 EBSM0-7

Laboratory AATS Hrs for Review 15.5 + 1.5 w/

Following are our findings

the data are acceptable and usable with the qualifications described in the attached narrative

Richard L Bynum

Regional TPO
Cecilia ~~Luckett~~ MOORE
SM-5J

RECEIVED
MAY 26 1998
IEPA/BOL

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

Below is a summary of the out-of-control audits and the possible effects on the data for this case

Fifteen soil/water samples, numbered EBJS2, 2 EBPT6-8 EBSL3 9 EBSM0-7, were collected on March 24th and 25th, 1998 The lab received the samples on March 26th 1998 in good condition All samples were analyzed for the full list of organic analytes, except the trip blank EBPT8 which was analyzed only for volatiles All were analyzed according to CLP SOW *OLM03 2* 3/90

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

1 HOLDING TIME

No problems found for this qualification

2 GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification

3 CALIBRATION

The following volatile samples are associated with an initialation percent relative standard deviation (%RSD) outside primary criteria
Hits are qualified "J" and non-detects are flagged "UJ"

2-Hexanone
EBSL3RE, VBLK2

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria
Hits are qualified "J" and non-detects are flagged "UJ"

1 2-Dichloropropane
EBSL3 EBSM0, VBLK1

2-Hexanone
EBJS2, EBJS2MS, EBJS2MSD, EBJS4 EBPT6, EBPT7
EBPT8, EBSM2, EBSM4, EBSM4MS EBSM4MSD, VBLK5
VBLK6 VBLK8, VHBLK1

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria
Hits are qualified "J" and non-detects are qualified "UJ"

Chloromethane
EBJS2 EBJS2MS, EBJS2MSD, EBJS4, EBPT6, EBPT7
EBPT8, EBSM2, EBSM3, EBSM4, EBSM4MS, EBSM4MSD
VBLK4, VBLK5, VBLK6, VBLK8, VHBLK1

Methylene Chloride Carbon Disulfide 1,1-Dichloroethene, 1,1-Dichloroethane, 1,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-Pentanone
EBJS2, EBJS2MS, EBJS2MSD, EBJS4, EBPT6, EBPT7
EBPT8 EBSM2, EBSM4, EBSM4MS, EBSM4MSD VBLK5

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

VBLK6, VBLK8, VHBLK1

Acetone
EBJS2, EBJS2MS, EBJS2MSD, EBJS4 EBPT6, EBPT7
EBPT8, EBSL3, EBSM0, EBSM2, EBSM4, EBSM4MS
EBSM4MSD, VBLK1, VBLK5, VBLK6

1,2-Dichloroethene (total)
VBLK8, VHBLK1

2-Butanone
EBJS2, EBJS2MS EBJS2MSD, EBJS4, EBPT6, EBPT7
EBPT8, EBSL3, EBSL9, EBSM0, EBSM0RE, EBSM2
EBSM4, EBSM4MS, EBSM4MSD, EBSM6, EBSM7, VBLK1
VBLK3, VBLK5 VBLK6 VBLK8, VHBLK1

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria
Hits are qualified "J" and non-detects are flagged "UJ"

2,4-Dinitrophenol
EBJS2, EBJS2MS, EBJS2MSD, EBJS4, EBJS4DL, EBPT6
EBPT7 SBLK1

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria
Hits are qualified "J" and non-detects are qualified "UJ"

N-Nitroso-di-n-propylamine, Hexachlorobutadiene, Hexachlorocyclopentadiene
EBSL3, EBSL9, EBSM0, EBSM2, SBLK2

4-Nitrophenol
EBJS2, EBJS2MS, EBJS2MSD, EBJS4, EBJS4DL, EBPT6
EBPT7, EBSM1 EBSM1MS, EBSM1MSD, EBSM3, EBSM4
EBSM5, EBSM6, EBSM7, SBLK1

Pyrene
EBJS2, EBJS2MS, EBJS2MSD, EBJS4 EBJS4DL EBPT6
EBPT7, SBLK1

bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene
EBJS2, EBJS2MS, EBJS2MSD, EBJS4, EBPT6, EBPT7

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

se Number 26080 SDG Number EBJS2
Site Name WASTE Hauling (IL) Laboratory AATS

SBLK1

Di-n-octylphthalate
EBSM1, EBSM1MS, EBSM1MSD, EBSM3, EBSM4, EBSM5
EBSM6, EBSM7

Indeno(1 2 3-cd)pyrene
EBJS4DL

The RPD between the nominal and the calculated amount of an analyte in the midpoint INDA/INDB exceeded criteria
Hits are qualified "J" and non-detects are qualified "UJ"

EBSL3, EBSL9, EBSM0, EBSM1, EBSM1MS, EBSM1MSD, EBSM2, EBSM3, EBSM4, EBSM5, EBSM6, EBSM7
delta-BHC, 4,4'-DDD, 4,4'-DDT

4 BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration Reported sample concentrations have been elevated to the CRQL
Hits are qualified "U" and non-detects are not flagged

EBSL3, EBSL9, EBSM6
Chloroform

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration Reported sample concentrations have been elevated to the CRQL
Hits are qualified "U" and non-detects are not flagged

bis(2-Ethylhexyl)phthalate
EBJS2, EBJS2MS, EBJS2MSD EBPT6, EBPT7

5 SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window
Hits are biased high and qualified "J" and non-detects are not flagged

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

EBSL3RE, EBSM0RE, EBSM1, EBSM1MS EBSM1MSD

The following volatile samples have one or more system monitoring compound recovery values below the lower limit of the criteria window Hits are biased low and qualified "J" and non-detects are qualified "UJ"

EBSL3

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window Hits are qualified "J" and non-detects are not flagged

EBSM4, EBSM4DL

6 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria
Hits are flagged "J" and non-detects are flagged "UJ" in the unspiked sample

EBJS2MS EBJS2MSD
Benzene

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria
Hits are flagged J" and non-detects are not flagged in the unspiked sample However, benzene has been flagged as noted above

EBJS2MS EBJS2MSD
Trichloroethene, Benzene, Toluene

EBSM1MS
Toluene

EBSM1MSD, EBSM4MS
Benzene Toluene

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria Hits are flagged J" and non-detects are flagged "UJ" in the unspiked sample

EBSM1MS, EBSM1MSD

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

ɜe Number 26080 **SDG Number EBJS2**
..te Name WASTE Hauling (IL) **Laboratory AATS**

Heptachlor

7 FIELD BLANK AND FIELD DUPLICATE

Sample EBPT7 was a field blank Sample EBPT8 is a trip blank Results are not qualified based upon the results of the field blank or trip blanks

8 INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria Hits are qualified "J" and non-detects are qualified "UJ"

EBSL3, EBSL3RE
4-Methyl-2-Pentanone, 2-Hexanone, Tetrachloroethene, 1,1 2 2-Tetrachloroethane, Toluene Chlorobenzene, Ethylbenzene, Styrene, Xylene (total)

EBSM0 EBSM0RE
Chloromethane, Bromomethane, Vinyl Chloride, Chloroethane Methylene Chloride, Acetone, Carbon Disulfide, 1 1-Dichloroethene, 1,1-Dichloroethane, 1,2-Dichloroethene (total), Chloroform, 1,2-Dichloroethane, 2-Butanone, 1,1,1-Trichloroethane, Carbon Tetrachloride, Bromodichloromethane, 1,2-Dichloropropane, cis-1 3-Dichloropropene, Trichloroethene, Dibromochloromethane, 1 1 2-Trichloroethane Benzene trans-1 3-Dichloropropene, Bromoform, 4-Methyl-2-Pentanone, 2-Hexanone, Tetrachloroethene, 1 1 2 2-Tetrachloroethane, Toluene, Chlorobenzene, Ethylbenzene, Styrene Xylene (total)

EBSM1, EBSM1MS, EBSM1MSD
1,1,1-Trichloroethane, Carbon Tetrachloride, Bromodichloromethane, 1 2-Dichloropropane, cis-1,3-Dichloropropene, Trichloroethene, Dibromochloromethane, 1,1,2-Trichloroethane, Benzene, trans-1,3-Dichloropropene, Bromoform, 4-Methyl-2-Pentanone, 2-Hexanone Tetrachloroethene, 1 1,2,2-Tetrachloroethane, Toluene, Chlorobenzene, Ethylbenzene, Styrene, Xylene (total)

9 COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA and Pesticide/PCB compounds were properly identified

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

10 COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL) All results below the CRQL are qualified "J"

EBJS4, EBPT6
Vinyl Chloride, Methylene Chloride, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Trichloroethene, Benzene

EBSL3
1,2-Dichloroethane

VBLK1, VBLK2, VBLK3
Chloroform

EBSM0
Methylene Chloride, Toluene

EBSM1
Xylene (total)

EBSM1MS
1,2-Dichloroethane

EBSM3
Toluene, Ethylbenzene

EBSM7
Methylene Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL) All results below the CRQL are qualified "J"

EBSL9
Di-n-butylphthalate

EBJS4, EBJS4DL
Butylbenzylphthalate

EBPT6
Diethylphthalate

EBSM0
2,4-Dichlorophenol, 4-Chloro-3-methylphenol Diethylphthalate,

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Phenanthrene, Di-n-butylphthalate, Butylbenzylphthalate
bis(2-Ethylhexyl)phthalate

EBSM1
2,4-Dichlorophenol, 4-Chloro-3-methylphenol, Diethylphthalate,
Phenanthrene, Di-n-butylphthalate, Fluoranthene, Pyrene
Butylbenzylphthalate, bis(2-Ethylhexyl)phthalate

EBSM1MS
2 4-Dichlorophenol, Naphthalene, 2-Methylnaphthalene
Diethylphthalate, Fluorene, Anthracene, Carbazole,
Di-n-butylphthalate, Butylbenzylphthalate, Benzo(a)anthracene,
Chrysene bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene,
Benzo(g h,i)perylene

EBSM1MSD
2,4-Dichlorophenol, Diethylphthalate, Phenanthrene
Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate,
bis(2-Ethylhexyl)phthalate

EBSM2
Naphthalene 2-Methylnaphthalene, Acenaphthene, Dibenzofuran,
Diethylphthalate Fluorene, Anthracene, Carbazole, Pyrene
Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene,
Indeno(1 2 3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EBSM3
4-Methylphenol, Naphthalene, 2-Methylnaphthalene, Acenaphthene,
Dibenzofuran, Anthracene, Carbazole, Benzo(a)anthracene, Chrysene,
bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene,
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
Dibenz(a h)anthracene Benzo(g,h,i)perylene

EBSM4
Phenol, Fluorene, Phenanthrene, Fluoranthene
Pyrene, bis(2-Ethylhexyl)phthalate

EBSM6
Phenanthrene Fluoranthene, Pyrene, Benzo(k)fluoranthene

EBSM7
Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene,
Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene, Benzo(a)pyrene,
Benzo(g h i)perylene

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

SBLK1
bis(2-Ethylhexyl)phthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL) All results below the CRQL are qualified "J"

EBJS2MS EBJS2MSD
Endrin ketone

EBSL3
Endrin aldehyde

EBSM0, EBSM1MSD, EBSM5
Methoxychlor

EBSM1DLMS, EBSM1DLMSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin
Endrin, 4,4'-DDT

EBSM2
4,4'-DDT

EBSM3
Dieldrin, Endrin ketone

EBSM3DL
Aroclor-1254

EBSM4
Endosulfan sulfate

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria
Hits are flagged "J" and non-detects are not flagged

EBJS2MS, EBJS2MSD
Endrin ketone

EBSM0
Methoxychlor, Endrin aldehyde

EBSM1
Endrin aldehyde

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

Case Number 26080 **SDG Number EBJS2**
Site Name WASTE Hauling (IL) **Laboratory AATS**

EBSM1DLMS
Heptachlor, Aldrin, 4,4'-DDT

EBSM1DLMSD
gamma-BHC (Lindane), Heptachlor, Aldrin, 4 4'-DDT

EBSM1MS
Heptachlor, Endrin aldehyde

EBSM1MSD
alpha-BHC, Heptachlor, Endrin aldehyde

EBSM3
Endrin

EBSM4
alpha-BHC, Endosulfan sulfate Methoxychlor, Endrin ketone

EBSM5
alpha-Chlordane, gamma-Chlordane

11 SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance The GC baseline for the pesticide analysis was acceptable

12 ADDITIONAL INFORMATION

None

Reviewed By M Kaminsky Lockheed Martin
Date May 6, 1998

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The anlayte was positively identified, the associated numerical value is an approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the reported sample quantitation limit However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration
R	The data are unusable (The compound may or may not be present)
H	Sample result is estimated and biased high
L	Sample result is estimated and biased low

FILE NAME EBJS2 DATE 05/06/98 TIME 09 36

CRITERIA FILE REG5094

DATA

	Original	X	Qualified

QUALIFICATIONS PERFORMED

X	Quantitation Limit		CRDL Standards
	Percent Moisture		ICS
X	Holding Time		LCS
X	Calibrations		Duplicates
X	Matrix Spikes		Furnace AA QC
X	IPC		ICP Serial Dilutions
X	Internal Standards		Sample Results Verification
X	SMC/Surrogates	X	Laboratory Blanks
X	System Performance		Field QC
	Sample Cleanup		

PRINT NON DETECTS

X	Yes		No

PRINT REJECTED RESULTS

X	Yes		No

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBJS2		EBJS2MS		EBJS2MSD		EBJS4		EBPT6	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	G101		G101		G101		G103		G104	
SAMPLE TYPE	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water/Low		Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE										
VOA										
Chloromethane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Bromomethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	8	J	7	J
Chloroethane	10	U	10	U	10	U	110		97	
Methylene Chloride	10	UJ	10	UJ	10	UJ	2	J	2	J
Acetone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Carbon Disulfide	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1 1 Dichloroethene	10	UJ	68	J	66	J	10	UJ	10	UJ
1 1 Dichloroethane	10	UJ	10	UJ	10	UJ	44	J	38	J
1 2 Dichloroethene (total)	10	U	10	U	10	U	48		43	
Chloroform	10	U	10	U	10	U	10	U	10	U
1 2 Dichloroethane	10	U	10	U	10	U	2	J	2	J
2 Butanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1 1 1 Trichloroethane	10	U	10	U	10	U	6	J	5	J
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
1 2 Dichloropropane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
cis 1 3 Dichloropropene	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	63		69		4	J	3	J
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1 1 2 Trichloroethane	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	69		79		5	J	4	J
trans 1 3 Dichloropropene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
4 Methyl 2 Pentanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2 Hexanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Tetrachloroethene	10	U	10	U	10	U	15		14	
1 1 2 2 Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	65		67		10	U	10	U
Chlorobenzene	10	U	61		63		10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Xylene (total)	10	U	10	U	10	U	10	U	10	U

FILE NAME EBJS2 DATE 05/06/98 TIME 09 36 CADRE98

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBPT7		EBPT8		EBSL3		EBSL3RE		EBSL9	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	FB		TB		X107		X107		X101	
SAMPLE TYPE	Field Blank		Trip Blank		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water/Low		Water/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE					36		36		18	
VOA										
Chloromethane	10	UJ	10	UJ	16	UJ	16	U	12	U
Bromomethane	10	U	10	U	16	UJ	16	U	12	U
Vinyl Chloride	10	U	10	U	16	UJ	16	U	12	U
Chloroethane	10	U	10	U	16	UJ	16	U	12	U
Methylene Chloride	10	UJ	10	UJ	16	UJ	16	U	12	U
Acetone	14	J	10	UJ	16	UJ	16	U	12	U
Carbon Disulfide	10	UJ	10	UJ	16	UJ	16	U	12	U
1 1 Dichloroethene	10	UJ	10	UJ	16	UJ	16	U	12	U
1 1 Dichloroethane	10	UJ	10	UJ	16	UJ	16	U	12	U
1 2 Dichloroethene (total)	10	U	10	U	16	UJ	16	U	12	U
Chloroform	10	U	10	U	16	U	16	U	12	U
1 2 Dichloroethane	10	U	10	U	5	J	16	U	12	U
2 Butanone	10	UJ	10	UJ	16	UJ	16	U	12	UJ
1 1 1 Trichloroethane	10	U	10	U	16	UJ	16	U	12	U
Carbon Tetrachloride	10	U	10	U	16	UJ	16	U	12	U
Bromodichloromethane	10	U	10	U	16	UJ	16	U	12	U
1 2 Dichloropropane	10	UJ	10	UJ	16	UJ	16	U	12	U
cis 1 3 Dichloropropene	10	U	10	U	16	UJ	16	U	12	U
Trichloroethene	10	U	10	U	16	UJ	16	U	12	U
Dibromochloromethane	10	U	10	U	16	UJ	16	U	12	U
1 1 2 Trichloroethane	10	U	10	U	16	UJ	16	U	12	U
Benzene	10	U	10	U	16	UJ	16	U	12	U
trans 1 3 Dichloropropene	10	U	10	U	16	UJ	16	U	12	U
Bromoform	10	U	10	U	16	UJ	16	U	12	U
4 Methyl 2 Pentanone	10	UJ	10	UJ	16	UJ	16	UJ	12	U
Hexanone	10	UJ	10	UJ	16	UJ	16	UJ	12	UJ
etrachloroethene	10	U	10	U	16	UJ	16	UJ	12	U
1 1 2 2 Tetrachloroethane	10	U	10	U	16	UJ	16	UJ	12	U
Toluene	10	U	10	U	16	UJ	16	UJ	12	U
Chlorobenzene	10	U	10	U	16	UJ	16	UJ	12	U
Ethylbenzene	10	U	10	U	16	UJ	16	UJ	12	U
Styrene	10	U	10	U	16	UJ	16	UJ	12	U
Xylene (total)	10	U	10	U	16	UJ	16	UJ	12	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080 Site WASTE HAULING (IL)
SDG No EBJS2 Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM0		EBSM0RE		EBSM1		EBSM1MS		EBSM1MSD	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X102		X102		X103		X103		X103	
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Matrix Spike		Matrix Spike Dup	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE	31		31		32		32		32	
VOA										
Chloromethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Bromomethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Vinyl Chloride	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Chloroethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Methylene Chloride	9	J	14	UJ	15	UJ	15	UJ	15	UJ
Acetone	960	J	14	UJ	110	J	300	J	100	J
Carbon Disulfide	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 1 Dichloroethene	14	UJ	14	UJ	15	UJ	100	J	100	J
1 1 Dichloroethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 2 Dichloroethene (total)	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Chloroform	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 2 Dichloroethane	14	UJ	14	UJ	15	UJ	6	J	15	UJ
2 Butanone	170	J	14	UJ	15	UJ	85	J	15	UJ
1 1 1 Trichloroethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Carbon Tetrachloride	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Bromodichloromethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 2 Dichloropropane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
cis 1 3 Dichloropropene	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Trichloroethene	14	UJ	14	UJ	15	UJ	87	J	100	J
Dibromochloromethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 1 2 Trichloroethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Benzene	14	UJ	14	UJ	15	UJ	100	J	110	J
trans 1 3 Dichloropropene	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Bromoform	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
4 Methyl 2 Pentanone	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
2 Hexanone	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Tetrachloroethene	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
1 1 2 2 Tetrachloroethane	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Toluene	4	J	14	UJ	15	UJ	120	J	140	J
Chlorobenzene	14	UJ	14	UJ	15	UJ	87	J	93	J
Ethylbenzene	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Styrene	14	UJ	14	UJ	15	UJ	15	UJ	15	UJ
Xylene (total)	14	UJ	14	UJ	8	J	15	UJ	15	UJ

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM2		EBSM3		EBSM4		EBSM4MS		EBSM4MSD	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION	X104		X105		X106		X106		X106	
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Matrix Spike		Matrix Spike Dup	
MATRIX/ANALYSIS	Soil/Med		Soil/Low		Soil/Med		Soil/Med		Soil/Med	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE	22		22		33		33		33	
VOA										
Chloromethane	1500	UJ	13	UJ	1800	UJ	1800	UJ	1800	UJ
Bromomethane	1500	U	13	U	1800	U	1800	U	1800	U
Vinyl Chloride	1500	U	13	U	1800	U	1800	U	1800	U
Chloroethane	1500	U	13	U	1800	U	1800	U	1800	U
Methylene Chloride	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
Acetone	2800	J	13	U	7900	J	9200	J	8300	J
Carbon Disulfide	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
1 1 Dichloroethene	1500	UJ	13	U	1800	UJ	14000	J	13000	J
1 1 Dichloroethane	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
1 2 Dichloroethene (total)	1500	U	13	U	1800	U	1800	U	1800	U
Chloroform	1500	U	13	U	1800	U	1800	U	1800	U
1 2 Dichloroethane	1500	U	13	U	1800	U	1800	U	1800	U
2 Butanone	1600	J	13	U	1800	UJ	1800	UJ	1800	UJ
1 1 1 Trichloroethane	1500	U	13	U	1800	U	1800	U	1800	U
Carbon Tetrachloride	1500	U	13	U	1800	U	1800	U	1800	U
Bromodichloromethane	1500	U	13	U	1800	U	1800	U	1800	U
1 2 Dichloropropane	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
cis 1 3 Dichloropropene	1500	U	13	U	1800	U	1800	U	1800	U
Trichloroethene	1500	U	13	U	1800	U	12000		12000	
Dibromochloromethane	1500	U	13	U	1800	U	1800	U	1800	U
1 1 2 Trichloroethane	1500	U	13	U	1800	U	1800	U	1800	U
Benzene	1500	U	13	U	1800	UJ	14000		13000	
trans 1 3 Dichloropropene	1500	U	13	U	1800	U	1800	U	1800	U
Bromoform	1500	U	13	U	1800	U	1800	U	1800	U
4 Methyl 2 Pentanone	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
2 Hexanone	1500	UJ	13	U	1800	UJ	1800	UJ	1800	UJ
etrachloroethene	1500	U	13	U	1800	U	1800	U	1800	U
1 1 2 2 Tetrachloroethane	1500	U	13	U	1800	U	1800	U	1800	U
Toluene	1500	U	4	J	1800	UJ	13000		12000	
Chlorobenzene	1500	U	13	U	1800	U	12000		11000	
Ethylbenzene	1500	U	6	J	1800	U	1800	U	1800	U
Styrene	1500	U	13	U	1800	U	1800	U	1800	U
Xylene (total)	1500	U	37		1800	U	1800	U	1800	U

FILE NAME EBJS2 DATE 05/06/98 TIME 09 36 CADRE98

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM5		EBSM6		EBSM7		VBLK1		VBLK2	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X201		X202		X203					
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Method Blank		Method Blank	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE	39		18		20		0		0	
VOA										
Chloromethane	16	U	12	U	12	U	10	U	10	U
Bromomethane	16	U	12	U	12	U	10	U	10	U
Vinyl Chloride	16	U	12	U	12	U	10	U	10	U
Chloroethane	16	U	12	U	12	U	10	U	10	U
Methylene Chloride	16	U	12	U	3	J	10	U	10	U
Acetone	16	U	12	U	12	U	10	UJ	10	U
Carbon Disulfide	16	U	12	U	12	U	10	U	10	U
1 1 Dichloroethene	16	U	12	U	12	U	10	U	10	U
1 1 Dichloroethane	16	U	12	U	12	U	10	U	10	U
1 2 Dichloroethene (total)	16	U	12	U	12	U	10	U	10	U
Chloroform	16	U	12	U	12	U	2	J	1	J
1 2 Dichloroethane	16	U	12	U	12	U	10	U	10	U
2 Butanone	16	U	12	UJ	12	UJ	10	UJ	10	U
1 1 1 Trichloroethane	16	U	12	U	12	U	10	U	10	U
Carbon Tetrachloride	16	U	12	U	12	U	10	U	10	U
Bromodichloromethane	16	U	12	U	12	U	10	U	10	U
1 2 Dichloropropane	16	U	12	U	12	U	10	UJ	10	U
cis 1 3 Dichloropropene	16	U	12	U	12	U	10	U	10	U
Trichloroethene	16	U	12	U	12	U	10	U	10	U
Dibromochloromethane	16	U	12	U	12	U	10	U	10	U
1 1 2 Trichloroethane	16	U	12	U	12	U	10	U	10	U
Benzene	16	U	12	U	12	U	10	U	10	U
trans 1 3 Dichloropropene	16	U	12	U	12	U	10	U	10	U
Bromoform	16	U	12	U	12	U	10	U	10	U
4 Methyl 2 Pentanone	16	U	12	U	12	U	10	U	10	U
2 Hexanone	16	U	12	UJ	12	UJ	10	U	10	UJ
Tetrachloroethene	16	U	12	U	12	U	10	U	10	U
1 1 2 2 Tetrachloroethane	16	U	12	U	12	U	10	U	10	U
Toluene	16	U	12	U	12	U	10	U	10	U
Chlorobenzene	16	U	12	U	12	U	10	U	10	U
Ethylbenzene	16	U	12	U	12	U	10	U	10	U
Styrene	16	U	12	U	12	U	10	U	10	U
Xylene (total)	16	U	12	U	12	U	10	U	10	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	VBLK3		VBLK4		VBLK5		VBLK6		VBLK7	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION										
SAMPLE TYPE	Method Blank		Method Blank		Method Blank		Method Blank		Method Blank	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Water/Low		Soil/Med		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE	0		0				0		0	
VOA										
Chloromethane	10	U	10	UJ	10	UJ	1200	UJ	10	U
Bromomethane	10	U	10	U	10	U	1200	U	10	U
Vinyl Chloride	10	U	10	U	10	U	1200	U	10	U
Chloroethane	10	U	10	U	10	U	1200	U	10	U
Methylene Chloride	10	U	10	U	10	UJ	1200	UJ	10	U
Acetone	10	U	10	U	10	UJ	1200	UJ	10	U
Carbon Disulfide	10	U	10	U	10	UJ	1200	UJ	10	U
1 1 Dichloroethene	10	U	10	U	10	UJ	1200	UJ	10	U
1 1 Dichloroethane	10	U	10	U	10	UJ	1200	UJ	10	U
1 2 Dichloroethene (total)	10	U	10	U	10	U	1200	U	10	U
Chloroform	2	J	10	U	10	U	1200	U	10	U
1 2 Dichloroethane	10	U	10	U	10	U	1200	U	10	U
2 Butanone	10	UJ	10	U	10	UJ	1200	UJ	10	U
1 1 1 Trichloroethane	10	U	10	U	10	U	1200	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	1200	U	10	U
Bromodichloromethane	10	U	10	U	10	U	1200	U	10	U
1 2 Dichloropropane	10	U	10	U	10	UJ	1200	UJ	10	U
cis 1 3 Dichloropropene	10	U	10	U	10	U	1200	U	10	U
Trichloroethene	10	U	10	U	10	U	1200	U	10	U
Dibromochloromethane	10	U	10	U	10	U	1200	U	10	U
1 1 2 Trichloroethane	10	U	10	U	10	U	1200	U	10	U
Benzene	10	U	10	U	10	U	1200	U	10	U
trans 1 3 Dichloropropene	10	U	10	U	10	U	1200	U	10	U
Bromoform	10	U	10	U	10	U	1200	U	10	U
4 Methyl 2 Pentanone	10	U	10	U	10	UJ	1200	UJ	10	U
2 Hexanone	10	UJ	10	U	10	UJ	1200	UJ	10	U
etrachloroethene	10	U	10	U	10	U	1200	U	10	U
1 1 2 2 Tetrachloroethane	10	U	10	U	10	U	1200	U	10	U
Toluene	10	U	10	U	10	U	1200	U	10	U
Chlorobenzene	10	U	10	U	10	U	1200	U	10	U
Ethylbenzene	10	U	10	U	10	U	1200	U	10	U
Styrene	10	U	10	U	10	U	1200	U	10	U
Xylene (total)	10	U	10	U	10	U	1200	U	10	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	VBLK8		VHBLK1				
REGIONAL SAMPLE NUMBER							
SAMPLE LOCATION							
SAMPLE TYPE	Method Blank		Storage Blank				
MATRIX/ANALYSIS	Water/Low		Water/Low				
DILUTION FACTOR	1 0		1 0				
PERCENT MOISTURE							
VOA							
Chloromethane	10	UJ	10	UJ			
Bromomethane	10	U	10	U			
Vinyl Chloride	10	U	10	U			
Chloroethane	10	U	10	U			
Methylene Chloride	10	UJ	10	UJ			
Acetone	10	U	10	U			
Carbon Disulfide	10	UJ	10	UJ			
1 1 Dichloroethene	10	UJ	10	UJ			
1 1 Dichloroethane	10	UJ	10	UJ			
1 2 Dichloroethene (total)	10	UJ	10	UJ			
Chloroform	10	U	10	U			
1 2 Dichloroethane	10	U	10	U			
2 Butanone	10	UJ	10	UJ			
1 1 1 Trichloroethane	10	U	10	U			
Carbon Tetrachloride	10	U	10	U			
Bromodichloromethane	10	U	10	U			
1 2 Dichloropropane	10	UJ	10	UJ			
cis 1 3 Dichloropropene	10	U	10	U			
Trichloroethene	10	U	10	U			
Dibromochloromethane	10	U	10	U			
1 1 2 Trichloroethane	10	U	10	U			
Benzene	10	U	10	U			
trans 1 3 Dichloropropene	10	U	10	U			
Bromoform	10	U	10	U			
4 Methyl 2 Pentanone	10	UJ	10	UJ			
2 Hexanone	10	UJ	10	UJ			
Tetrachloroethene	10	U	10	U			
1 1 2 2 Tetrachloroethane	10	U	10	U			
Toluene	10	U	10	U			
Chlorobenzene	10	U	10	U			
Ethylbenzene	10	U	10	U			
Styrene	10	U	10	U			
Xylene (total)	10	U	10	U			

FILE NAME EBJS2 DATE 05/06/98 TIME 09 36 CADRE98

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBJS2		EBJS2MS		EBJS2MSD		EBJS4		EBJS4DL	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	G101		G101		G101		G103		G103	
SAMPLE TYPE	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water/Low		Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		2 0	
PERCENT MOISTURE										
BNA										
Phenol	10	U	28		27		10	U	20	U
bis(2 Chloroethyl)ether	10	U	10	U	10	U	10	U	20	U
2 Chlorophenol	10	U	31		31		10	U	20	U
1 3 Dichlorobenzene	10	U	10	U	10	U	10	U	20	U
1 4 Dichlorobenzene	10	U	20		20		10	U	20	U
1 2 Dichlorobenzene	10	U	10	U	10	U	10	U	20	U
2 Methylphenol	10	U	10	U	10	U	10	U	20	U
2 2 oxybis(1 Chloropropane)	10	U	10	U	10	U	10	U	20	U
4 Methylphenol	10	U	10	U	10	U	10	U	20	U
N Nitroso di n propylamine	10	U	27		29		10	U	20	U
Hexachloroethane	10	U	10	U	10	U	10	U	20	U
Nitrobenzene	10	U	10	U	10	U	10	U	20	U
Isophorone	10	U	10	U	10	U	10	U	20	U
2 Nitrophenol	10	U	10	U	10	U	10	U	20	U
2 4 Dimethylphenol	10	U	10	U	10	U	10	U	20	U
bis(2 Chloroethoxy)methane	10	U	10	U	10	U	10	U	20	U
2 4 Dichlorophenol	10	U	10	U	10	U	10	U	20	U
1 2 4 Trichlorobenzene	10	U	22		22		10	U	20	U
Naphthalene	10	U	10	U	10	U	10	U	20	U
4 Chloroaniline	10	U	10	U	10	U	10	U	20	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	20	U
4 Chloro 3 methylphenol	10	U	38		38		10	U	20	U
2 Methylnaphthalene	10	U	10	U	10	U	10	U	20	U
Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	20	U
2 4 6 Trichlorophenol	10	U	10	U	10	U	10	U	20	U
2 4 5 Trichlorophenol	25	U	25	U	25	U	25	U	50	U
2 Chloronaphthalene	10	U	10	U	10	U	10	U	20	U
2 Nitroaniline	25	U	25	U	25	U	25	U	50	U
Dimethylphthalate	10	U	10	U	10	U	10	U	20	U
Acenaphthylene	10	U	10	U	10	U	10	U	20	U
2 6 Dinitrotoluene	10	U	10	U	10	U	10	U	20	U
3 Nitroaniline	25	U	25	U	25	U	25	U	50	U
Acenaphthene	10	U	26		25		10	U	20	U
2 4 Dinitrophenol	25	UJ	25	UJ	25	UJ	25	UJ	50	UJ
4 Nitrophenol	25	UJ	49	J	52	J	25	UJ	50	UJ
Dibenzofuran	10	U	10	U	10	U	10	U	20	U
2 4 Dinitrotoluene	10	U	32		32		10	U	20	U
Diethylphthalate	10	U	10	U	10	U	10	U	20	U
4 Chlorophenyl phenylether	10	U	10	U	10	U	10	U	20	U
Fluorene	10	U	10	U	10	U	10	U	20	U
4 Nitroaniline	25	U	25	U	25	U	25	U	50	U
4 6 Dinitro 2 methylphenol	25	U	25	U	25	U	25	U	50	U
N Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U	20	U
4 Bromophenyl phenylether	10	U	10	U	10	U	10	U	20	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	20	U
Pentachlorophenol	25	U	57		60		25	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U	20	U
Anthracene	10	U	10	U	10	U	10	U	20	U
Carbazole	10	U	10	U	10	U	10	U	20	U
Di n butylphthalate	10	U	2	J	2	J	10	U	20	U
Fluoranthene	10	U	10	U	10	U	10	U	20	U
Pyrene	10	UJ	34	J	34	J	10	UJ	20	UJ
Butylbenzylphthalate	10	U	10	U	10	U	2	J	2	J
3 3 Dichlorobenzidine	10	U	10	U	10	U	10	U	20	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	20	U
Chrysene	10	U	10	U	10	U	10	U	20	U
bis(2 Ethylhexyl)phthalate	10	U	10	U	10	U	120	J	140	
Di n octylphthalate	10	U	10	U	10	U	10	U	20	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	20	U
Benzo(k)fluoranthene	10	UJ	10	UJ	10	UJ	10	UJ	20	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	20	U
Indeno(1 2 3 cd)pyrene	10	U	10	U	10	U	10	U	20	UJ
Dibenz(a h)anthracene	10	U	10	U	10	U	10	U	20	U
Benzo(g h i)perylene	10	U	10	U	10	U	10	U	20	U

Water units are reported in ug/L Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080 — Site WASTE HAULING (IL)
SDG No EBJS2 — Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBPT6		EBPT7		EBSL3		EBSL9		EBSM0	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	G104		FB		X107		X101		X102	
SAMPLE TYPE	Routine Sample		Field Blank		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water/Low		Water/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE					36		18		31	
BNA										
Phenol	10	U	10	U	430	U	340	U	400	U
bis(2 Chloroethyl)ether	10	U	10	U	430	U	340	U	400	U
2 Chlorophenol	10	U	10	U	430	U	340	U	400	U
1 3 Dichlorobenzene	10	U	10	U	430	U	340	U	400	U
1 4 Dichlorobenzene	10	U	10	U	430	U	340	U	400	U
1 2 Dichlorobenzene	10	U	10	U	430	U	340	U	400	U
2 Methylphenol	10	U	10	U	430	U	340	U	400	U
2 2 oxybis(1 Chloropropane)	10	U	10	U	430	U	340	U	400	U
4 Methylphenol	10	U	10	U	430	U	340	U	2600	
N Nitroso di n propylamine	10	U	10	U	430	UJ	340	UJ	400	UJ
Hexachloroethane	10	U	10	U	430	U	340	U	400	U
Nitrobenzene	10	U	10	U	430	U	340	U	400	U
Isophorone	10	U	10	U	430	U	340	U	400	U
2 Nitrophenol	10	U	10	U	430	U	340	U	400	U
2 4 Dimethylphenol	10	U	10	U	430	U	340	U	400	U
bis(2 Chloroethoxy)methane	10	U	10	U	430	U	340	U	400	U
2 4 Dichlorophenol	10	U	10	U	430	U	340	U	24	J
1 2 4 Trichlorobenzene	10	U	10	U	430	U	340	U	400	U
Naphthalene	10	U	10	U	430	U	340	U	400	U
4 Chloroaniline	10	U	10	U	430	U	340	U	400	U
Hexachlorobutadiene	10	U	10	U	430	UJ	340	UJ	400	UJ
4 Chloro 3 methylphenol	10	U	10	U	430	U	340	U	31	J
2 Methylnaphthalene	10	U	10	U	430	U	340	U	400	U
Hexachlorocyclopentadiene	10	U	10	U	430	UJ	340	UJ	400	UJ
2 4 6 Trichlorophenol	10	U	10	U	430	U	340	U	400	U
2 4 5 Trichlorophenol	25	U	25	U	1100	U	840	U	1000	U
2 Chloronaphthalene	10	U	10	U	430	U	340	U	400	U
2 Nitroaniline	25	U	25	U	1100	U	840	U	1000	U
Dimethylphthalate	10	U	10	U	430	U	340	U	400	U
Acenaphthylene	10	U	10	U	430	U	340	U	400	U
2 6 Dinitrotoluene	10	U	10	U	430	U	340	U	400	U
3 Nitroaniline	25	U	25	U	1100	U	840	U	1000	U
Acenaphthene	10	U	10	U	430	U	340	U	400	U
2 4 Dinitrophenol	25	UJ	25	UJ	1100	U	840	U	1000	U
4 Nitrophenol	25	UJ	25	UJ	1100	U	840	U	1000	U
Dibenzofuran	10	U	10	U	430	U	340	U	400	U
2 4 Dinitrotoluene	10	U	10	U	430	U	340	U	400	U
Diethylphthalate	0 60	J	10	U	430	U	340	U	56	J
4 Chlorophenyl phenylether	10	U	10	U	430	U	340	U	400	U
Fluorene	10	U	10	U	430	U	340	U	400	U
4 Nitroaniline	25	U	25	U	1100	U	840	U	1000	U
4 6 Dinitro 2 methylphenol	25	U	25	U	1100	U	840	U	1000	U
N Nitrosodiphenylamine (1)	10	U	10	U	430	U	340	U	400	U
4 Bromophenyl phenylether	10	U	10	U	430	U	340	U	400	U
Hexachlorobenzene	10	U	10	U	430	U	340	U	400	U
Pentachlorophenol	25	U	25	U	1100	U	840	U	1000	U
Phenanthrene	10	U	10	U	430	U	340	U	22	J
Anthracene	10	U	10	U	430	U	340	U	400	U
Carbazole	10	U	10	U	430	U	340	U	400	U
Di n butylphthalate	10	U	10	U	430	U	28	J	24	J
Fluoranthene	10	U	10	U	430	U	340	U	400	U
Pyrene	10	UJ	10	UJ	430	U	340	U	400	U
Butylbenzylphthalate	10	U	10	U	430	U	340	U	37	J
3 3 Dichlorobenzidine	10	U	10	U	430	U	340	U	400	U
Benzo(a)anthracene	10	U	10	U	430	U	340	U	400	U
Chrysene	10	U	10	U	430	U	340	U	400	U
bis(2 Ethylhexyl)phthalate	10	U	10	U	430	U	18	J	130	J
Di n octylphthalate	10	U	10	U	430	U	340	U	400	U
Benzo(b)fluoranthene	10	U	10	U	430	U	340	U	400	U
Benzo(k)fluoranthene	10	UJ	10	UJ	430	U	340	U	400	U
Benzo(a)pyrene	10	U	10	U	430	U	340	U	400	U
Indeno(1 2 3 cd)pyrene	10	U	10	U	430	U	340	U	400	U
Dibenz(a h)anthracene	10	U	10	U	430	U	340	U	400	U
Benzo(g h i)perylene	10	U	10	U	430	U	340	U	400	U

Water units are reported in ug/L Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM1		EBSM1MS		EBSM1MSD		EBSM2		EBSM3	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X103		X103		X103		X104		X105	
SAMPLE TYPE	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		4 0	
PERCENT MOISTURE	32		32		32		22		22	
BNA										
Phenol	400	U	1700		2000		420	U	1700	U
bis(2 Chloroethyl)ether	400	U	440	U	450	U	420	U	1700	U
2 Chlorophenol	400	U	1600		1900		420	U	1700	U
1 3 Dichlorobenzene	400	U	440	U	450	U	420	U	1700	U
1 4 Dichlorobenzene	400	U	940		1000		420	U	1700	U
1 2 Dichlorobenzene	400	U	440	U	450	U	420	U	1700	U
2 Methylphenol	400	U	440	U	450	U	420	U	1700	U
2 2 oxybis(1 Chloropropane)	400	U	440	U	450	U	420	U	1700	U
4 Methylphenol	2500		2600		2500		660		260	J
N Nitroso di n propylamine	400	U	1100		1400		420	UJ	1700	U
Hexachloroethane	400	U	440	U	450	U	420	U	1700	U
Nitrobenzene	400	U	440	U	450	U	420	U	1700	U
Isophorone	400	U	440	U	450	U	420	U	1700	U
2 Nitrophenol	400	U	440	U	450	U	420	U	1700	U
2 4 Dimethylphenol	400	U	440	U	450	U	420	U	1700	U
bis(2 Chloroethoxy)methane	400	U	440	U	450	U	420	U	1700	U
2 4 Dichlorophenol	28	J	30	J	23	J	420	U	1700	U
1 2 4 Trichlorobenzene	400	U	1100		1200		420	U	1700	U
Naphthalene	400	U	35	J	450	U	64	J	810	J
4 Chloroaniline	400	U	440	U	450	U	420	U	1700	U
Hexachlorobutadiene	400	U	440	U	450	U	420	UJ	1700	U
4 Chloro 3 methylphenol	35	J	1900		2200		420	U	1700	U
2 Methylnaphthalene	400	U	25	J	450	U	28	J	400	J
Hexachlorocyclopentadiene	400	U	440	U	450	U	420	UJ	1700	U
2 4 6 Trichlorophenol	400	U	440	U	450	U	420	U	1700	U
2 4 5 Trichlorophenol	1000	U	1100	U	1100	U	1000	U	4200	U
2 Chloronaphthalene	400	U	440	U	450	U	420	U	1700	U
2 Nitroaniline	1000	U	1100	U	1100	U	1000	U	4200	U
Dimethylphthalate	400	U	440	U	450	U	420	U	1700	U
Acenaphthylene	400	U	440	U	450	U	420	U	1700	U
2 6 Dinitrotoluene	400	U	440	U	450	U	420	U	1700	U
3 Nitroaniline	1000	U	1100	U	1100	U	1000	U	4200	U
Acenaphthene	400	U	1200		1300		59	J	1200	J
2 4 Dinitrophenol	1000	U	1100	U	1100	U	1000	U	4200	U
4 Nitrophenol	1000	UJ	2200	J	2600	J	1000	U	4200	UJ
Dibenzofuran	400	U	440	U	450	U	59	J	1300	J
2 4 Dinitrotoluene	400	U	1300		1600		420	U	1700	U
Diethylphthalate	49	J	38	J	42	J	61	J	1700	U
4 Chlorophenyl phenylether	400	U	440	U	450	U	420	U	1700	U
Fluorene	400	U	50	J	450	U	76	J	1800	
4 Nitroaniline	1000	U	1100	U	1100	U	1000	U	4200	U
4 6 Dinitro 2 methylphenol	1000	U	1100	U	1100	U	1000	U	4200	U
N Nitrosodiphenylamine (1)	400	U	440	U	450	U	420	U	1700	U
4 Bromophenyl phenylether	400	U	440	U	450	U	420	U	1700	U
Hexachlorobenzene	400	U	440	U	450	U	420	U	1700	U
Pentachlorophenol	1000	U	1800		2100		1000	U	4200	U
Phenanthrene	60	J	470		35	J	470		7000	
Anthracene	400	U	95	J	450	U	69	J	910	J
Carbazole	400	U	48	J	450	U	140	J	1100	J
Di n butylphthalate	21	J	22	J	19	J	420	U	1700	U
Fluoranthene	43	J	600		32	J	540		4400	
Pyrene	34	J	1600		1400		380	J	3000	
Butylbenzylphthalate	38	J	28	J	28	J	420	U	1700	U
3 3 Dichlorobenzidine	400	U	440	U	450	U	420	U	1700	U
Benzo(a)anthracene	400	U	210	J	450	U	150	J	710	J
Chrysene	400	U	220	J	450	U	160	J	660	J
bis(2 Ethylhexyl)phthalate	140	J	120	J	100	J	79	J	640	J
Di n octylphthalate	400	UJ	440	UJ	450	UJ	420	U	1700	UJ
Benzo(b)fluoranthene	400	U	440	U	450	U	82	J	430	J
Benzo(k)fluoranthene	400	U	230	J	450	U	110	J	320	J
Benzo(a)pyrene	400	U	170	J	450	U	95	J	420	J
Indeno(1 2 3 cd)pyrene	400	U	84	J	450	U	58	J	210	J
Dibenz(a h)anthracene	400	U	36	J	450	U	31	J	100	J
Benzo(g h i)perylene	400	U	96	J	450	U	65	J	210	J

Water units are reported in ug/L Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM4		EBSM5		EBSM6		EBSM7		SBLK1	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X106		X201		X202		X203			
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Method Blank	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Water/Low	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE	33		39		18		20			
BNA										
Phenol	240	J	510	U	350	U	410	U	10	U
bis(2 Chloroethyl)ether	420	U	510	U	350	U	410	U	10	U
2 Chlorophenol	420	U	510	U	350	U	410	U	10	U
1 3 Dichlorobenzene	420	U	510	U	350	U	410	U	10	U
1 4 Dichlorobenzene	420	U	510	U	350	U	410	U	10	U
1 2 Dichlorobenzene	420	U	510	U	350	U	410	U	10	U
2 Methylphenol	420	U	510	U	350	U	410	U	10	U
2 2 oxybis(1 Chloropropane)	420	U	510	U	350	U	410	U	10	U
4 Methylphenol	2000		510	U	350	U	410	U	10	U
N Nitroso di n propylamine	420	U	510	U	350	U	410	U	10	U
Hexachloroethane	420	U	510	U	350	U	410	U	10	U
Nitrobenzene	420	U	510	U	350	U	410	U	10	U
Isophorone	420	U	510	U	350	U	410	U	10	U
2 Nitrophenol	420	U	510	U	350	U	410	U	10	U
2 4 Dimethylphenol	420	U	510	U	350	U	410	U	10	U
bis(2 Chloroethoxy)methane	420	U	510	U	350	U	410	U	10	U
2 4 Dichlorophenol	420	U	510	U	350	U	410	U	10	U
1 2 4 Trichlorobenzene	420	U	510	U	350	U	410	U	10	U
Naphthalene	420	U	510	U	350	U	410	U	10	U
4 Chloroaniline	420	U	510	U	350	U	410	U	10	U
Hexachlorobutadiene	420	U	510	U	350	U	410	U	10	U
4 Chloro 3 methylphenol	420	U	510	U	350	U	410	U	10	U
2 Methylnaphthalene	420	U	510	U	350	U	410	U	10	U
Hexachlorocyclopentadiene	420	U	510	U	350	U	410	U	10	U
2 4 6 Trichlorophenol	420	U	510	U	350	U	410	U	10	U
2 4 5 Trichlorophenol	1000	U	1300	U	870	U	1000	U	25	U
2 Chloronaphthalene	420	U	510	U	350	U	410	U	10	U
2 Nitroaniline	1000	U	1300	U	870	U	1000	U	25	U
Dimethylphthalate	420	U	510	U	350	U	410	U	10	U
Acenaphthylene	420	U	510	U	350	U	410	U	10	U
2 6 Dinitrotoluene	420	U	510	U	350	U	410	U	10	U
3 Nitroaniline	1000	U	1300	U	870	U	1000	U	25	U
Acenaphthene	420	U	510	U	350	U	410	U	10	U
2 4 Dinitrophenol	1000	U	1300	U	870	U	1000	U	25	UJ
4 Nitrophenol	1000	UJ	1300	UJ	870	UJ	1000	UJ	25	UJ
Dibenzofuran	420	U	510	U	350	U	410	U	10	U
2 4 Dinitrotoluene	420	U	510	U	350	U	410	U	10	U
Diethylphthalate	420	U	510	U	350	U	410	U	10	U
4 Chlorophenyl phenylether	420	U	510	U	350	U	410	U	10	U
Fluorene	25	J	510	U	350	U	410	U	10	U
4 Nitroaniline	1000	U	1300	U	870	U	1000	U	25	U
4 6 Dinitro 2 methylphenol	1000	U	1300	U	870	U	1000	U	25	U
N Nitrosodiphenylamine (1)	420	U	510	U	350	U	410	U	10	U
4 Bromophenyl phenylether	420	U	510	U	350	U	410	U	10	U
Hexachlorobenzene	420	U	510	U	350	U	410	U	10	U
Pentachlorophenol	1000	U	1300	U	870	U	1000	U	25	U
Phenanthrene	86	J	510	U	20	J	410	U	10	U
Anthracene	420	U	510	U	350	U	410	U	10	U
Carbazole	420	U	510	U	350	U	410	U	10	U
Di n butylphthalate	420	U	510	U	350	U	410	U	10	U
Fluoranthene	58	J	510	U	27	J	37	J	10	U
Pyrene	37	J	510	U	24	J	34	J	10	UJ
Butylbenzylphthalate	420	U	510	U	350	U	34	J	10	U
3 3 Dichlorobenzidine	420	U	510	U	350	U	410	U	10	U
Benzo(a)anthracene	420	U	510	U	350	U	25	J	10	U
Chrysene	420	U	510	U	350	U	26	J	10	U
bis(2 Ethylhexyl)phthalate	23	J	510	U	350	U	410	U	0 80	J
Di n octylphthalate	420	UJ	510	UJ	350	UJ	410	UJ	10	U
Benzo(b)fluoranthene	420	U	510	U	350	U	32	J	10	U
Benzo(k)fluoranthene	420	U	510	U	21	J	22	J	10	UJ
Benzo(a)pyrene	420	U	510	U	350	U	32	J	10	U
Indeno(1 2 3 cd)pyrene	420	U	510	U	350	U	410	U	10	U
Dibenz(a h)anthracene	420	U	510	U	350	U	410	U	10	U
Benzo(g h i)perylene	420	U	510	U	350	U	23	J	10	U

Water units are reported in ug/L Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	SBLK2					
REGIONAL SAMPLE NUMBER						
AMPLE LOCATION						
AMPLE TYPE	Method Blank					
MATRIX/ANALYSIS	Soil/Low					
DILUTION FACTOR	1 0					
PERCENT MOISTURE	0					
BNA						
Phenol	330	U				
bis(2 Chloroethyl)ether	330	U				
2 Chlorophenol	330	U				
1 3 Dichlorobenzene	330	U				
1 4 Dichlorobenzene	330	U				
1 2 Dichlorobenzene	330	U				
2 Methylphenol	330	U				
2 2' oxybis(1 Chloropropane)	330	U				
4 Methylphenol	330	U				
N Nitroso di n propylamine	330	UJ				
Hexachloroethane	330	U				
Nitrobenzene	330	U				
Isophorone	330	U				
2 Nitrophenol	330	U				
2 4 Dimethylphenol	330	U				
bis(2 Chloroethoxy)methane	330	U				
2 4 Dichlorophenol	330	U				
1 2 4 Trichlorobenzene	330	U				
Naphthalene	330	U				
4 Chloroaniline	330	U				
Hexachlorobutadiene	330	UJ				
4 Chloro 3 methylphenol	330	U				
2 Methylnaphthalene	330	U				
Hexachlorocyclopentadiene	330	UJ				
2 4 6 Trichlorophenol	330	U				
4 5 Trichlorophenol	830	U				
Chloronaphthalene	330	U				
2 Nitroaniline	830	U				
Dimethylphthalate	330	U				
Acenaphthylene	330	U				
2 6 Dinitrotoluene	330	U				
3 Nitroaniline	830	U				
Acenaphthene	330	U				
2 4 Dinitrophenol	830	U				
4 Nitrophenol	830	U				
Dibenzofuran	330	U				
2 4 Dinitrotoluene	330	U				
Diethylphthalate	330	U				
4 Chlorophenyl phenylether	330	U				
Fluorene	330	U				
4 Nitroaniline	830	U				
4 6 Dinitro 2 methylphenol	830	U				
N Nitrosodiphenylamine (1)	330	U				
4 Bromophenyl phenylether	330	U				
Hexachlorobenzene	330	U				
Pentachlorophenol	830	U				
Phenanthrene	330	U				
Anthracene	330	U				
Carbazole	330	U				
Di n butylphthalate	330	U				
Fluoranthene	330	U				
Pyrene	330	U				
Butylbenzylphthalate	330	U				
3 3 Dichlorobenzidine	330	U				
Benzo(a)anthracene	330	U				
Chrysene	330	U				
bis(2 Ethylhexyl)phthalate	330	U				
Di n octylphthalate	330	U				
Benzo(b)fluoranthene	330	U				
enzo(k)fluoranthene	330	U				
enzo(a)pyrene	330	U				
Indeno(1 2 3 cd)pyrene	330	U				
Dibenz(a h)anthracene	330	U				
Benzo(g h i)perylene	330	U				

Water units are reported in ug/L Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBJS2		EBJS2MS		EBJS2MSD		EBJS4		EBPT6	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	G101		G101		G101		G103		G104	
SAMPLE TYPE	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water		Water		Water		Water		Water	
DILUTION FACTOR	1 0		1 0		1 0		1 0		1 0	
PERCENT MOISTURE										
PES										
alpha BHC	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
beta BHC	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
delta BHC	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
gamma BHC (Lindane)	0 050	U	0 380	J	0 350	J	0 050	U	0 050	U
Heptachlor	0 050	U	0 350	J	0 340	J	0 050	U	0 050	U
Aldrin	0 050	U	0 340	J	0 320	J	0 050	U	0 050	U
Heptachlor epoxide	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
Endosulfan I	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
Dieldrin	0 10	U	0 820	J	0 770	J	0 10	U	0 10	U
4 4 DDE	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Endrin	0 10	U	0 90	J	0 850	J	0 10	U	0 10	U
Endosulfan II	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
4 4 DDD	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
Endosulfan sulfate	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
4 4 DDT	0 10	U	0 90	J	0 820	J	0 10	U	0 10	U
Methoxychlor	0 50	U	0 50	U	0 50	U	0 50	U	0 50	U
Endrin ketone	0 10	U	0 045	J	0 043	J	0 10	U	0 10	U
Endrin aldehyde	0 10	U	0 10	U	0 10	U	0 10	U	0 10	U
alpha Chlordane	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
gamma Chlordane	0 050	U	0 050	U	0 050	U	0 050	U	0 050	U
Toxaphene	5 0	U	5 0	U	5 0	U	5 0	U	5 0	U
Aroclor 1016	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Aroclor 1221	2 0	U	2 0	U	2 0	U	2 0	U	2 0	U
Aroclor 1232	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Aroclor 1242	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Aroclor 1248	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Aroclor 1254	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U
Aroclor 1260	1 0	U	1 0	U	1 0	U	1 0	U	1 0	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBPT7		EBSL3		EBSL3DL		EBSL9		EBSL9DL	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION	FB		X107		X107		X101		X101	
AMPLE TYPE	Field Blank		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water		Soil		Soil		Soil		Soil	
DILUTION FACTOR	1 0		1 0		10 0		1 0		10 0	
PERCENT MOISTURE			36		36		18		18	
PES										
alpha BHC	0 050	U	2 2	U	22	U	1 9	U	19	U
beta BHC	0 050	U	2 2	U	22	U	1 9	U	19	U
delta BHC	0 050	U	2 2	UJ	22	U	1 9	UJ	19	U
gamma BHC (Lindane)	0 050	U	2 2	U	22	U	1 9	U	19	U
Heptachlor	0 050	U	2 2	U	22	U	1 9	U	19	U
Aldrin	0 050	U	2 2	U	22	U	1 9	U	19	U
Heptachlor epoxide	0 050	U	2 2	U	22	U	1 9	U	19	U
Endosulfan I	0 050	U	2 2	U	22	U	1 9	U	19	U
Dieldrin	0 10	U	4 3	U	43	U	3 6	U	36	U
4 4 DDE	0 10	U	4 3	U	43	U	3 6	U	36	U
Endrin	0 10	U	4 3	U	43	U	3 6	U	36	U
Endosulfan II	0 10	U	4 3	U	43	U	3 6	U	36	U
4 4' DDD	0 10	U	4 3	UJ	43	U	3 6	UJ	36	U
Endosulfan sulfate	0 10	U	4 3	U	43	U	3 6	U	36	U
4 4 DDT	0 10	U	4 3	UJ	43	U	3 6	UJ	36	U
Methoxychlor	0 50	U	22	U	220	U	19	U	190	U
Endrin ketone	0 10	U	4 3	U	43	U	3 6	U	36	U
Endrin aldehyde	0 10	U	2 8	J	43	U	3 6	U	36	U
alpha Chlordane	0 050	U	2 2	U	22	U	1 9	U	19	U
gamma Chlordane	0 050	U	2 2	U	22	U	1 9	U	19	U
Toxaphene	5 0	U	220	U	2200	U	190	U	1900	U
Aroclor 1016	1 0	U	43	U	430	U	36	U	360	U
Aroclor 1221	2 0	U	87	U	870	U	74	U	740	U
Aroclor 1232	1 0	U	43	U	430	U	36	U	360	U
Aroclor 1242	1 0	U	43	U	430	U	36	U	360	U
Aroclor 1248	1 0	U	43	U	430	U	36	U	360	U
Aroclor 1254	1 0	U	43	U	430	U	36	U	360	U
Aroclor 1260	1 0	U	43	U	430	U	36	U	360	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM0		EBSM0DL		EBSM1		EBSM1DL		EBSM1DLMS	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X102		X102		X103		X103		X103	
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Matrix Spike	
MATRIX/ANALYSIS	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR	1 0		10 0		1 0		10 0		10 0	
PERCENT MOISTURE	31		31		32		32		32	
PES										
alpha BHC	2 3	U	23	U	2 3	U	23	U	20	U
beta BHC	2 3	UJ	23	U	2 3	UJ	23	U	20	U
delta BHC	2 3	UJ	23	U	2 3	UJ	23	U	20	U
gamma BHC (Lindane)	2 3	U	23	U	2 3	U	23	U	12	J
Heptachlor	2 3	U	23	U	2 3	U	23	U	15	J
Aldrin	2 3	U	23	U	2 3	U	23	U	9 2	J
Heptachlor epoxide	2 3	U	23	U	2 3	U	23	U	20	U
Endosulfan I	2 3	U	23	U	2 3	U	23	U	20	U
Dieldrin	4 4	U	44	U	4 5	U	45	U	23	J
4 4 DDE	4 4	U	44	U	4 5	U	45	U	38	U
Endrin	4 4	U	44	U	4 5	U	45	U	30	J
Endosulfan II	4 4	U	44	U	4 5	U	45	U	38	U
4 4 DDD	4 4	UJ	44	U	4 5	UJ	45	U	38	U
Endosulfan sulfate	4 4	U	44	U	4 5	U	45	U	38	U
4 4' DDT	4 4	UJ	44	U	4 5	UJ	45	U	28	J
Methoxychlor	15	U	230	U	26	J	230	U	200	U
Endrin ketone	4 4	U	44	U	4 5	U	45	U	38	U
Endrin aldehyde	5 1	J	44	U	6 9	J	45	U	38	U
alpha Chlordane	2 3	U	23	U	2 3	U	23	U	20	U
gamma Chlordane	2 3	U	23	U	2 3	U	23	U	20	U
Toxaphene	230	U	2300	U	230	U	2300	U	2000	U
Aroclor 1016	44	U	440	U	45	U	450	U	380	U
Aroclor 1221	90	U	900	U	92	U	920	U	780	U
Aroclor 1232	44	U	440	U	45	U	450	U	380	U
Aroclor 1242	44	U	440	U	45	U	450	U	380	U
Aroclor 1248	44	U	440	U	45	U	450	U	380	U
Aroclor 1254	44	U	440	U	45	U	450	U	380	U
Aroclor 1260	44	U	440	U	45	U	450	U	380	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM1DLMSD		EBSM1MS		EBSM1MSD		EBSM2		EBSM2DL	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION	X103		X103		X103		X104		X104	
SAMPLE TYPE	Matrix Spike Dup		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR	10 0		1 0		1 0		1 0		10 0	
PERCENT MOISTURE	32		32		32		22		22	
PES										
alpha BHC	22	U	2 0	U	4 0	J	2 0	U	20	U
beta BHC	22	U	2 0	U	2 2	U	2 0	U	20	U
delta BHC	22	U	2 0	UJ	2 2	UJ	2 0	UJ	20	U
gamma BHC (Lindane)	15	J	17	J	24	J	2 0	U	20	U
Heptachlor	18	J	15	J	22	J	2 0	U	20	U
Aldrin	11	J	13	J	16	J	2 0	U	20	U
Heptachlor epoxide	22	U	2 0	U	2 2	U	2 0	U	20	U
Endosulfan I	22	U	2 0	U	2 2	U	2 0	U	20	U
Dieldrin	29	J	32	J	42	J	4 0	U	40	U
4 4' DDE	44	U	3 8	U	4 4	U	4 0	U	40	U
Endrin	39	J	40	J	52	J	4 0	U	40	U
Endosulfan II	44	U	3 8	U	4 4	U	4 0	U	40	U
4 4 DDD	44	U	3 8	UJ	4 4	UJ	4 0	UJ	40	U
Endosulfan sulfate	44	U	3 8	U	4 4	U	4 0	U	40	U
4 4 DDT	35	J	41	J	48	J	1 8	J	40	U
Methoxychlor	220	U	20	U	15	J	20	U	200	U
Endrin ketone	44	U	3 8	U	4 4	U	4 0	U	40	U
Endrin aldehyde	44	U	5 7	J	7 4	J	4 0	U	40	U
alpha Chlordane	22	U	2 0	U	2 2	U	2 0	U	20	U
gamma Chlordane	22	U	2 0	U	2 2	U	2 0	U	20	U
Toxaphene	2200	U	200	U	220	U	200	U	2000	U
Aroclor 1016	440	U	38	U	44	U	40	U	400	U
Aroclor 1221	890	U	78	U	89	U	80	U	800	U
Aroclor 1232	440	U	38	U	44	U	40	U	400	U
Aroclor 1242	440	U	38	U	44	U	40	U	400	U
Aroclor 1248	440	U	38	U	44	U	40	U	400	U
Aroclor 1254	440	U	38	U	44	U	40	U	400	U
Aroclor 1260	440	U	38	U	44	U	40	U	400	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM3		EBSM3DL		EBSM4		EBSM4DL		EBSM5	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION	X105		X105		X106		X106		X201	
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR	1 0		10 0		1 0		10 0		1 0	
PERCENT MOISTURE	22		22		33		33		39	
PES										
alpha BHC	1 9	U	19	U	7 2	J	23	U	2 4	U
beta BHC	1 9	U	19	U	2 3	U	23	U	2 4	U
delta BHC	1 9	UJ	19	U	2 3	UJ	23	U	2 4	UJ
gamma BHC (Lindane)	1 9	U	19	U	2 3	U	23	U	2 4	U
Heptachlor	1 9	U	19	U	9 2	J	23	U	2 4	U
Aldrin	1 9	U	19	U	2 3	U	23	U	2 4	U
Heptachlor epoxide	1 9	U	19	U	2 3	U	23	U	2 4	U
Endosulfan I	1 9	U	19	U	2 3	U	23	U	2 4	U
Dieldrin	1 9	J	38	U	4 6	U	45	U	4 7	U
4 4 DDE	3 8	U	38	U	4 6	U	45	U	4 7	U
Endrin	4 8	J	38	U	4 6	U	45	U	4 7	U
Endosulfan II	8 0	J	38	U	4 6	U	45	U	4 7	U
4 4 DDD	3 8	UJ	38	U	4 6	UJ	45	U	4 7	UJ
Endosulfan sulfate	3 8	U	38	U	2 7	J	45	U	4 7	U
4 4 DDT	19	J	38	U	4 6	UJ	45	U	4 7	UJ
Methoxychlor	19	U	190	U	25	J	230	U	8 2	J
Endrin ketone	3 0	J	38	U	8 3	J	45	U	4 7	U
Endrin aldehyde	4 5	J	38	U	9 8	J	45	U	4 7	U
alpha Chlordane	3 2	J	19	U	2 3	U	23	U	2 4	J
gamma Chlordane	1 9	U	19	U	2 3	U	23	U	3 5	J
Toxaphene	190	U	1900	U	230	U	2300	U	240	U
Aroclor 1016	38	U	380	U	45	U	450	U	47	U
Aroclor 1221	76	U	760	U	92	U	920	U	96	U
Aroclor 1232	38	U	380	U	45	U	450	U	47	U
Aroclor 1242	38	U	380	U	45	U	450	U	47	U
Aroclor 1248	38	U	380	U	45	U	450	U	47	U
Aroclor 1254	100		140	J	45	U	450	U	47	U
Aroclor 1260	38	U	380	U	45	U	450	U	47	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	EBSM5DL		EBSM6		EBSM6DL		EBSM7		EBSM7DL	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION	X201		X202		X202		X203		X203	
AMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR	10 0		1 0		10 0		1 0		10 0	
PERCENT MOISTURE	39		18		18		20		20	
PES										
alpha BHC	24	U	1 9	U	19	U	2 0	U	20	U
beta BHC	24	U	1 9	U	19	U	2 0	U	20	U
delta BHC	24	U	1 9	UJ	19	U	2 0	UJ	20	U
gamma BHC (Lindane)	24	U	1 9	U	19	U	2 0	U	20	U
Heptachlor	24	U	1 9	U	19	U	2 0	U	20	U
Aldrin	24	U	1 9	U	19	U	2 0	U	20	U
Heptachlor epoxide	24	U	1 9	U	19	U	2 0	U	20	U
Endosulfan I	24	U	1 9	U	19	U	2 0	U	20	U
Dieldrin	47	U	3 6	U	36	U	3 8	U	38	U
4 4' DDE	47	U	3 6	U	36	U	3 8	U	38	U
Endrin	47	U	3 6	U	36	U	3 8	U	38	U
Endosulfan II	47	U	3 6	U	36	U	3 8	U	38	U
4 4' DDD	47	U	3 6	UJ	36	U	3 8	UJ	38	U
Endosulfan sulfate	47	U	3 6	U	36	U	3 8	U	38	U
4 4 DDT	47	U	3 6	UJ	36	U	3 8	UJ	38	U
Methoxychlor	240	U	19	U	190	U	20	U	200	U
Endrin ketone	47	U	3 6	U	36	U	3 8	U	38	U
Endrin aldehyde	47	U	3 6	U	36	U	3 8	U	38	U
alpha Chlordane	24	U	1 9	U	19	U	2 0	U	20	U
gamma Chlordane	24	U	1 9	U	19	U	2 0	U	20	U
Toxaphene	2400	U	190	U	1900	U	200	U	2000	U
Aroclor 1016	470	U	36	U	360	U	38	U	380	U
Aroclor 1221	960	U	74	U	740	U	78	U	780	U
Aroclor 1232	470	U	36	U	360	U	38	U	380	U
Aroclor 1242	470	U	36	U	360	U	38	U	380	U
Aroclor 1248	470	U	36	U	360	U	38	U	380	U
Aroclor 1254	470	U	36	U	360	U	38	U	380	U
Aroclor 1260	470	U	36	U	360	U	38	U	380	U

Water units are reported in ug/L
Soil units are reported in ug/Kg

TCL QUALIFIED SPREADSHEET

Case No 26080
SDG No EBJS2

Site WASTE HAULING (IL)
Laboratory SWL TULSA

EPA SAMPLE NUMBER	PBLKSE		PBLKWA				
REGIONAL SAMPLE NUMBER							
SAMPLE LOCATION							
SAMPLE TYPE	Method Blank		Method Blank				
MATRIX/ANALYSIS	Soil		Water				
DILUTION FACTOR	1 0		1 0				
PERCENT MOISTURE	0						
PES							
alpha BHC	1 7	U	0 050	U			
beta BHC	1 7	U	0 050	U			
delta BHC	1 7	U	0 050	U			
gamma BHC (Lindane)	1 7	U	0 050	U			
Heptachlor	1 7	U	0 050	U			
Aldrin	1 7	U	0 050	U			
Heptachlor epoxide	1 7	U	0 050	U			
Endosulfan I	1 7	U	0 050	U			
Dieldrin	3 3	U	0 10	U			
4 4' DDE	3 3	U	0 10	U			
Endrin	3 3	U	0 10	U			
Endosulfan II	3 3	U	0 10	U			
4 4' DDD	3 3	U	0 10	U			
Endosulfan sulfate	3 3	U	0 10	U			
4 4 DDT	3 3	U	0 10	U			
Methoxychlor	17	U	0 50	U			
Endrin ketone	3 3	U	0 10	U			
Endrin aldehyde	3 3	U	0 10	U			
alpha Chlordane	1 7	U	0 050	U			
gamma Chlordane	1 7	U	0 050	U			
Toxaphene	170	U	5 0	U			
Aroclor 1016	33	U	1 0	U			
Aroclor 1221	67	U	2 0	U			
Aroclor 1232	33	U	1 0	U			
Aroclor 1242	33	U	1 0	U			
Aroclor 1248	33	U	1 0	U			
Aroclor 1254	33	U	1 0	U			
Aroclor 1260	33	U	1 0	U			

Water units are reported in ug/L
Soil units are reported in ug/Kg

Volatile Analysis Data EBSL3RE
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS UMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
75 18 3	DIMETHYL SULFIDE	8 01	16 000	NJ

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 1

Volatile Analysis Data EBSM3
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN ALKYL BENZENE	15 99	37 000	J
	TRIMETHYLBENZENE	16 37	14 000	J
	UNKNOWN	16 61	11 000	J
	UNKNOWN ALKYL BENZENE	16 67	12 000	J
	UNKNOWN ALKYL BENZENE	16 78	15 000	J
	UNKNOWN ALKYL BENZENE	17 00	6 000	J
	UNKNOWN HYDROCARBON	17 15	20 000	J
	UNKNOWN ALKYL BENZENE	17 38	6 000	J
	UNKNOWN	17 97	9 000	J
	UNKNOWN	18 26	10 000	J
	UNKNOWN	18 36	17 000	J
	UNKNOWN	18 52	9 000	J
91 20 3	NAPHTHALENE	18 99	60 000	NJ
	UNKNOWN HYDROCARBON	19 99	7 000	J
	NAPHTHALENE METHYL	20 09	23 000	J
	UNKNOWN	20 30	19 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 2

Volatile Analysis Data EBSM1
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	15 97	11 000	J
	UNKNOWN	17 13	19 000	J
	UNKNOWN	17 96	8 000	J
91 20 3	NAPHTHALENE	18 98	27 000	NJ
	UNKNOWN	20 08	8 000	J
	NAPHTHALENE METHYL	20 30	10 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 3

Volatile Analysis Data EBSM4
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	10 99	960 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 4

Volatile Analysis Data EBPT6
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
60 29 7	ETHER	5 90	13 000	NJ

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 5

Volatile Analysis Data EBJS4
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
60 29 7	ETHER	5 89	15 000	NJ
	UNKNOWN	10 18	6 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 6

Semivolatile Analysis Data SBLK2
Tentatively Identified Compounds

CASE NO 26080
SDG NO EBJS2

LABORATORY SWL TULSA

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
123 42 2	2 PENTANONE 4 HYDROXY 4 METHY	3 90	2500 000	NJA
	UNKNOWN	4 07	230 000	J
	UNKNOWN	4 76	110 000	J
	UNKNOWN	5 14	360 000	J
	UNKNOWN	5 28	250 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 7

Semivolatile Analysis Data EBSL3
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	HYDROXY OXOHEXANOIC ACID LAC	4 91	610 000	J
5166 53 0	3 HEXEN 2 ONE 5 METHYL	5 28	350 000	NJ
	UNKNOWN	6 53	670 000	J
2613 89 0	PROPANEDIOIC ACID PHENYL	8 95	290 000	NJ
	UNKNOWN	11 93	320 000	J
2091 29 4	9 HEXADECENOIC ACID	15 08	500 000	NJ
57 10 3	HEXADECANOIC ACID	15 20	470 000	NJ
112 80 1	OLEIC ACID	16 45	290 000	NJ
	UNKNOWN AMIDE	17 87	3000 000	J
	UNKNOWN	20 33	430 000	J
	PENTACOSANONE	20 74	200 000	J
57 88 5	CHOLESTEROL	22 34	360 000	NJ
	UNKNOWN ALKENE	23 01	380 000	J
	UNKNOWN	23 11	670 000	J
83 48 7	STIGMASTEROL	23 33	1200 000	NJ
	UNKNOWN	23 40	220 000	J
83 47 6	GAMMA SITOSTEROL	23 79	1300 000	NJ
6538 02 9	ERGOSTANOL	23 90	560 000	NJ
	UNKNOWN	23 99	870 000	J
471 68 1	OLEAN 12 ENE	24 10	540 000	NJ
	UNKNOWN	24 17	280 000	J
	UNKNOWN	24 32	570 000	J
	UNKNOWN	24 52	600 000	J
	UNKNOWN	24 71	380 000	J
638 95 9	ALPHA AMYRIN	24 78	560 000	NJ
	UNKNOWN	24 94	210 000	J
1058 61 3	STIGMAST 4 EN 3 ONE	25 05	660 000	NJ
	UNKNOWN PAH	25 20	300 000	J
	UNKNOWN	25 52	460 000	J
	UNKNOWN	25 75	400 000	J
	UNKNOWN	25 90	450 000	J

Semivolatile Analysis Data EBSL9
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
719 22 2	2 5 CYCLOHEXADIENE 1 4 DIONE	11 37	190 000	NJ
	UNKNOWN	12 31	260 000	J
	UNKNOWN	12 72	1800 000	J
88 19 7	BENZENESULFONAMIDE 2 METHYL	12 84	1600 000	NJ
70 55 3	BENZENESULFONAMIDE 4 METHYL	13 19	4000 000	NJ
70 55 3	BENZENESULFONAMIDE 4 METHYL	13 33	1700 000	NJ
57 10 3	HEXADECANOIC ACID	15 18	180 000	NJ
	UNKNOWN AMIDE	17 87	2100 000	J
	UNKNOWN AMIDE	17 98	210 000	J
	UNKNOWN	20 18	240 000	J
	UNKNOWN	20 25	140 000	J
629 96 9	1 EICOSANOL	20 63	900 000	NJ
	UNKNOWN	20 94	220 000	J
	UNKNOWN	21 11	420 000	J
	UNKNOWN	21 28	140 000	J
	UNKNOWN	21 37	370 000	J
	UNKNOWN	21 51	240 000	J
	UNKNOWN	21 82	160 000	J
	UNKNOWN	21 89	170 000	J
	UNKNOWN	22 10	130 000	J
	UNKNOWN	22 33	180 000	J
124 25 4	TETRADECANAL	22 58	120 000	NJ
629 96 9	1 EICOSANOL	23 00	160 000	NJ
4651 51 8	ERGOST 5 EN 3 OL (3 BETA)	23 09	290 000	NJ
	UNKNOWN	23 31	110 000	J
	UNKNOWN PAH	23 51	170 000	J
83 47 6	GAMMA SITOSTEROL	23 77	430 000	NJ
	UNKNOWN	23 88	100 000	J
	UNKNOWN	25 02	140 000	J
123 28 4	PROPANOIC ACID 3 3' THIOBIS	25 81	400 000	NJ

Semivolatile Analysis Data EBSMO
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS UMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
503 74 2	BUTANOIC ACID 3 METHYL	4 02	1900 000	NJ
	BUTANOIC ACID METHYL	4 11	1700 000	J
109 52 4	PENTANOIC ACID	4 55	10000 000	NJ
142 62 1	HEXANOIC ACID	5 78	6700 000	NJ
124 07 2	OCTANOIC ACID	8 01	1600 000	NJ
5746 58 7	TETRADECANOIC ACID 12 METHYL	14 27	540 000	NJ
1002 84 2	PENTADECANOIC ACID	14 47	940 000	NJ
57 10 3	HEXADECANOIC ACID	14 94	600 000	NJ
2091 29 4	9 HEXADECENOIC ACID	15 10	2600 000	NJ
57 10 3	HEXADECANOIC ACID	15 29	30000 000	NJ
628 97 7	HEXADECANOIC ACID ETHYL ESTER	15 43	910 000	NJ
	UNKNOWN ORGANIC ACID	15 71	560 000	J
506 12 7	HEPTADECANOIC ACID	15 90	900 000	NJ
0 00 0	PROPYL HEXADECANOATE	16 08	450 000	NJ
112 80 1	OLEIC ACID	16 50	14000 000	NJ
57 11 4	OCTADECANOIC ACID	16 58	13000 000	NJ
0 00 0	BUTYL HEXADECANOATE	16 70	1100 000	NJ
	UNKNOWN AMIDE	16 75	760 000	J
30223 50 8	10 13 EICOSADIENOIC ACID METH	17 20	1500 000	NJ
0 00 0	2 METHYL 7 NONADECENE	17 28	800 000	NJ
	UNKNOWN ORGANIC ACID	17 80	1700 000	J
	UNKNOWN AMIDE	17 88	3700 000	J
1577 52 2	9 12 OCTADECADIEN 1 OL	18 88	1200 000	NJ
57 88 5	CHOLESTEROL	22 34	970 000	NJ
17472 78 5	ERGOSTA 5 22 DIEN 3 OL (3 BET	22 65	1700 000	NJ
4651 51 8	ERGOST 5 EN 3 OL (3 BETA)	23 10	630 000	NJ
83 48 7	STIGMASTEROL	23 31	1400 000	NJ
83 47 6	GAMMA SITOSTEROL	23 78	1600 000	NJ
	UNKNOWN	24 51	820 000	J
1058 61 3	STIGMAST 4 EN 3 ONE	25 04	740 000	NJ
	UNKNOWN	25 73	580 000	J

Semivolatile Analysis Data EBSM2
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
107 92 6	BUTANOIC ACID	4 03	31000 000	NJ
646 07 1	PENTANOIC ACID 4 METHYL	5 18	2000 000	NJ
142 62 1	HEXANOIC ACID	5 86	16000 000	NJ
	UNKNOWN	6 44	1200 000	J
124 07 2	OCTANOIC ACID	8 05	1900 000	NJ
501 52 0	BENZENEPROPANOIC ACID	9 94	770 000	NJ
334 48 5	DECANOIC ACID	10 19	590 000	NJ
10544 50 0	SULFUR MOL (S8)	11 97	640 000	NJ
143 07 7	DODECANOIC ACID	12 05	910 000	NJ
934 34 9	2(3H) BENZOTHIAZOLONE	13 18	600 000	NJ
544 63 8	TETRADECANOIC ACID	13 72	1400 000	NJ
	UNKNOWN ORGANIC ACID	14 26	850 000	J
1002 84 2	PENTADECANOIC ACID	14 47	710 000	NJ
2091 29 4	9 HEXADECENOIC ACID	15 10	820 000	NJ
638 53 9	TRIDECANOIC ACID	15 71	490 000	NJ
506 12 7	HEPTADECANOIC ACID	15 89	400 000	NJ
60 33 3	9 12 OCTADECADIENOIC ACID (Z Z	16 44	3200 000	NJ
17351 34 7	14 PENTADECENOIC ACID	16 47	4200 000	NJ
57 11 4	OCTADECANOIC ACID	16 56	4200 000	NJ
	UNKNOWN ORGANIC ACID	17 71	400 000	J
	UNKNOWN ORGANIC ACID	17 81	790 000	J
	UNKNOWN	17 94	3500 000	J
	UNKNOWN	18 62	440 000	J
	UNKNOWN	22 07	470 000	J
57 88 5	CHOLESTEROL	22 33	990 000	NJ
83 48 7	STIGMASTEROL	23 30	480 000	NJ
83 47 6	GAMMA SITOSTEROL	23 78	1100 000	NJ
	UNKNOWN	23 89	360 000	J
1617 70 5	LUP 20(29) EN 3 ONE	24 49	1100 000	NJ
	UNKNOWN	25 72	450 000	J
	UNKNOWN	25 87	500 000	J

Semivolatile Analysis Data EBSM4
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
107 92 6	BUTANOIC ACID	3 84	270 000	NJ
109 52 4	PENTANOIC ACID	4 71	400 000	NJ
142 62 1	HEXANOIC ACID	6 09	360 000	NJ
3128 06 1	4 ACETYLBUTYRIC ACID	7 80	200 000	NJ
124 07 2	OCTANOIC ACID	8 05	680 000	NJ
103 82 2	BENZENEACETIC ACID	8 95	340 000	NJ
	UNKNOWN	9 11	150 000	J
501 52 0	BENZENEPROPANOIC ACID	9 91	520 000	NJ
2091 29 4	9 HEXADECENOIC ACID	15 04	500 000	NJ
57 10 3	HEXADECANOIC ACID	15 16	1300 000	NJ
	OCTADECENAL	15 47	190 000	J
17351 34 7	14 PENTADECENOIC ACID	16 38	1300 000	NJ
57 11 4	OCTADECANOIC ACID	16 50	990 000	NJ
	UNKNOWN AMIDE	17 83	2600 000	J
	UNKNOWN	20 29	290 000	J
18435 45 5	1 NONADECENE	20 44	270 000	NJ
	UNKNOWN	21 43	270 000	J
	UNKNOWN	21 47	450 000	J
57 88 5	CHOLESTEROL	22 27	480 000	NJ
17472 78 5	ERGOSTA 5 22 DIEN 3 OL (3 BET	22 59	470 000	NJ
	ERGOST 5 EN 3 OL	22 72	330 000	J
	UNKNOWN	23 01	640 000	J
	UNKNOWN	23 24	1400 000	J
	UNKNOWN	23 37	300 000	J
83 47 6	GAMMA SITOSTEROL	23 69	1100 000	NJ
	UNKNOWN	23 90	760 000	J
	UNKNOWN	24 40	270 000	J
	UNKNOWN	25 78	860 000	J

Semivolatile Analysis Data EBJS4
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS UMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
2425 74 3	FORMAMIDE N (1 1 DIMETHYLETHY	2 89	9 000	NJ
	UNKNOWN	3 20	6 000	J
	BENZENEMETHANOL DIMETHY	3 97	3 000	J
	UNKNOWN	4 21	10 000	J
	UNKNOWN	4 50	9 000	J
	UNKNOWN	4 56	10 000	J
1696 20 4	MORPHOLINE 4 ACETYL	4 64	14 000	NJ
	UNKNOWN	5 00	87 000	J
	UNKNOWN	5 03	30 000	J
	UNKNOWN	5 17	76 000	J
	UNKNOWN	5 29	110 000	J
	UNKNOWN	5 35	55 000	J
	UNKNOWN	5 54	5 000	J
	UNKNOWN	5 58	3 000	J
	UNKNOWN	5 82	3 000	J
	UNKNOWN	5 94	8 000	J
	UNKNOWN	6 60	4 000	J
	UNKNOWN	6 79	2 000	J
134 62 3	DIETHYLTOLUAMIDE	7 66	3 000	NJ
	UNKNOWN	7 75	2 000	J
	ETHYLENE GLYCOL TOLUENESULFON	8 34	2 000	J
934 34 9	2(3H) BENZOTHIAZOLONE	8 59	110 000	NJ
	UNKNOWN	9 10	2 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 20

Semivolatile Analysis Data EBPT6
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
2425 74 3	FORMAMIDE N (1 1 DIMETHYLETHY	2 89	9 000	NJ
	UNKNOWN	3 97	3 000	J
	UNKNOWN	4 21	12 000	J
	UNKNOWN	4 32	2 000	J
	UNKNOWN	4 50	13 000	J
	UNKNOWN	4 57	11 000	J
1696 20 4	MORPHOLINE 4 ACETYL	4 64	21 000	NJ
	UNKNOWN	4 99	18 000	J
	UNKNOWN	5 02	21 000	J
	UNKNOWN	5 16	49 000	J
	UNKNOWN	5 28	88 000	J
	UNKNOWN	5 33	56 000	J
	UNKNOWN	5 54	6 000	J
	UNKNOWN	5 57	2 000	J
	UNKNOWN	6 59	4 000	J
	UNKNOWN	6 79	3 000	J
134 62 3	DIETHYLTOLUAMIDE	7 67	2 000	NJ
	UNKNOWN	7 98	2 000	J
	UNKNOWN	8 35	3 000	J
934 34 9	2(3H) BENZOTHIAZOLONE	8 58	110 000	NJ
	UNKNOWN	13 06	4 000	J

FILE NAME EBJS2 SDG DATE 05/06/98 TIME 09 37 CADRE98 PAGE 21

Semivolatile Analysis Data EBSM3
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	6 37	1000 000	J
132 65 0	DIBENZOTHIOPHENE	13 98	580 000	NJ
	UNKNOWN ORGANIC ACID	14 78	490 000	J
	PHENANTHRENE METHYL	15 04	1100 000	J
	PHENANTHRENE METHYL	15 09	770 000	J
57 10 3	HEXADECANOIC ACID	15 16	4000 000	NJ
203 64 5	4H CYCLOPENTA[DEF]PHENANTHRENE	15 25	1600 000	NJ
	UNKNOWN	16 03	450 000	J
	UNKNOWN	16 41	2900 000	J
	11H BENZO[]FLUORENE	17 27	580 000	J
	UNKNOWN AMIDE	17 83	830 000	J
	UNKNOWN	20 29	1500 000	J
205 82 3	BENZO[J]FLUORANTHENE	20 96	540 000	NJ
	UNKNOWN ORGANIC ACID	21 44	470 000	J
7616 22 0	GAMMA TOCOPHEROL	21 59	2300 000	NJ
2599 01 1	TETRADECANOIC ACID HEXADECYL	22 01	900 000	NJ
	UNKNOWN	22 12	500 000	J
	UNKNOWN	22 33	400 000	J
6538 02 9	ERGOSTANOL	22 72	4500 000	NJ
	UNKNOWN	22 96	1700 000	J
	UNKNOWN	23 28	4100 000	J
	UNKNOWN	23 51	2800 000	J
	UNKNOWN	23 74	34000 000	J
	UNKNOWN	23 88	2900 000	J
	UNKNOWN	24 00	920 000	J
	UNKNOWN	24 11	480 000	J
	UNKNOWN	24 18	1800 000	J
	UNKNOWN	24 66	440 000	J
	UNKNOWN	24 95	2600 000	J
	UNKNOWN	25 61	430 000	J
	UNKNOWN	25 76	730 000	J

Semivolatile Analysis Data SBLK1
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	2 45	2 000	J
	UNKNOWN	2 90	3 000	J
	UNKNOWN	3 02	9 000	J

Semivolatile Analysis Data EBJS2
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Semivolatile Analysis Data EBSM1
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
503 74 2	BUTANOIC ACID 3 METHYL	3 96	1600 000	NJ
4536 23 6	HEXANOIC ACID 2 METHYL	4 07	2000 000	NJ
109 52 4	PENTANOIC ACID	4 51	10000 000	NJ
124 07 2	OCTANOIC ACID	7 99	1300 000	NJ
501 52 0	BENZENEPROPANOIC ACID	9 90	540 000	NJ
544 63 8	TETRADECANOIC ACID	13 69	2700 000	NJ
1002 84 2	PENTADECANOIC ACID	14 43	520 000	NJ
628 97 7	HEXADECANOIC ACID ETHYL ESTER	15 39	930 000	NJ
	OCTADECENAL	15 47	500 000	J
544 63 8	TETRADECANOIC ACID	15 86	340 000	NJ
0 00 0	PROPYL HEXADECANOATE	16 04	440 000	NJ
	UNKNOWN ORGANIC ACID	16 42	4400 000	J
112 80 1	OLEIC ACID	16 44	4900 000	NJ
57 11 4	OCTADECANOIC ACID	16 54	9800 000	NJ
	UNKNOWN	16 66	990 000	J
56554 35 9	9 17 OCTADECADIENAL (Z)	17 16	1400 000	NJ
	TRICOSENE	17 24	670 000	J
	UNKNOWN	17 74	950 000	J
	UNKNOWN AMIDE	17 84	3400 000	J
	UNKNOWN ORGANIC ACID	18 84	820 000	J
	UNKNOWN	22 01	1400 000	J
57 88 5	CHOLESTEROL	22 27	1200 000	NJ
17472 78 5	ERGOSTA 5 22 DIEN 3 OL (3 BET	22 59	1200 000	NJ
83 48 7	STIGMASTEROL	23 24	1600 000	NJ
83 47 6	GAMMA SITOSTEROL	23 70	1800 000	NJ
	UNKNOWN	24 01	840 000	J
	UNKNOWN	24 22	630 000	J
	UNKNOWN	24 42	1300 000	J
	UNKNOWN	24 68	640 000	J
	UNKNOWN	24 93	1400 000	J
	UNKNOWN	25 46	630 000	J
	UNKNOWN	25 63	660 000	J

Semivolatile Analysis Data EBSM6
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	4 87	270 000	J
5166 53 0	3 HEXEN 2 ONE 5 METHYL	5 24	380 000	NJ
	UNKNOWN	5 53	710 000	J
	UNKNOWN	6 37	180 000	J
	UNKNOWN	10 23	85 000	J
	UNKNOWN	15 00	76 000	J
57 10 3	HEXADECANOIC ACID	15 15	100 000	NJ
628 97 7	HEXADECANOIC ACID ETHYL ESTER	15 39	94 000	NJ
	UNKNOWN AMIDE	17 94	140 000	J
	UNKNOWN	20 29	150 000	J
	UNKNOWN	21 46	130 000	J
	UNKNOWN KETONE	21 76	77 000	J
	UNKNOWN	22 02	97 000	J
	UNKNOWN	22 11	200 000	J
	UNKNOWN	22 28	96 000	J
	UNKNOWN	22 33	120 000	J
4651 51 8	ERGOST 5 EN 3 OL (3 BETA)	23 03	300 000	NJ
	UNKNOWN	23 10	110 000	J
	UNKNOWN	23 24	330 000	J
83 47 6	GAMMA SITOSTEROL	23 70	1100 000	NJ
	UNKNOWN	23 79	290 000	J
	UNKNOWN	23 89	200 000	J
	UNKNOWN	24 18	240 000	J
	UNKNOWN	24 82	160 000	J
	UNKNOWN	24 94	230 000	J
	UNKNOWN	25 62	800 000	J
	UNKNOWN	25 77	440 000	J
	UNKNOWN	26 08	190 000	J

Semivolatile Analysis Data EBSM7
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	4 44	150 000	J
	UNKNOWN	4 87	150 000	J
5166 53 0	3 HEXEN 2 ONE 5 METHYL	5 25	180 000	NJ
	UNKNOWN	5 53	1100 000	J
	UNKNOWN	6 37	220 000	J
	UNKNOWN	13 23	95 000	J
	UNKNOWN AMIDE	17 83	1200 000	J
	UNKNOWN AMIDE	17 95	88 000	J
	UNKNOWN	19 42	200 000	J
	UNKNOWN	19 94	110 000	J
	UNKNOWN	20 29	140 000	J
	UNKNOWN	20 41	84 000	J
	UNKNOWN	21 32	83 000	J
57 88 5	CHOLESTEROL	22 26	420 000	NJ
	UNKNOWN	22 59	100 000	J
	UNKNOWN PAH	23 02	150 000	J
	UNKNOWN	23 23	180 000	J
83 47 6	GAMMA SITOSTEROL	23 69	270 000	NJ
	UNKNOWN	24 73	110 000	J

Semivolatile Analysis Data EBSM5
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS UMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
142 62 1	HEXANOIC ACID	5 46	1600 000	NJ
	UNKNOWN AMIDE	17 83	3000 000	J
	UNKNOWN	19 61	790 000	J
	UNKNOWN	19 74	920 000	J
	UNKNOWN	20 28	620 000	J
56554 86 0	17 OCTADECENAL	21 32	720 000	NJ
629 96 9	1 EICOSANOL	21 65	690 000	NJ
59 02 9	VITAMIN E	22 10	790 000	NJ
57 88 5	CHOLESTEROL	22 27	800 000	NJ
80 97 7	CHOLESTANOL	22 34	970 000	NJ
0 00 0	1 HEXACOSANAL	22 52	930 000	NJ
	UNKNOWN	23 00	1600 000	J
83 48 7	STIGMASTEROL	23 24	1400 000	NJ
	UNKNOWN	23 37	1300 000	J
	UNKNOWN	23 51	1200 000	J
	UNKNOWN	23 63	1600 000	J
83 47 6	GAMMA SITOSTEROL	23 71	9800 000	NJ
6538 02 9	ERGOSTANOL	23 81	2800 000	NJ
	UNKNOWN	23 90	1600 000	J
	UNKNOWN	24 01	5500 000	J
	UNKNOWN	24 20	6100 000	J
	UNKNOWN	24 40	4400 000	J
	UNKNOWN	24 53	840 000	J
	UNKNOWN	24 61	3600 000	J
	UNKNOWN	24 66	2000 000	J
	UNKNOWN	24 79	1800 000	J
1058 61 3	STIGMAST 4 EN 3 ONE	24 95	3900 000	NJ
	UNKNOWN	25 30	770 000	J
	UNKNOWN	25 38	1300 000	J
	UNKNOWN	25 80	4000 000	J
	UNKNOWN	26 09	5000 000	J

Semivolatile Analysis Data EBPT7
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Semivolatile Analysis Data EBJS4DL
Tentatively Identified Compounds

CASE NO 26080 LABORATORY SWL TULSA
SDG NO EBJS2

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
2425 74 3	FORMAMIDE N (1 1 DIMETHYLETHY	2 84	10 000	NJD
	UNKNOWN	4 08	10 000	JD
	UNKNOWN	4 14	13 000	JD
	UNKNOWN	4 41	14 000	JD
	UNKNOWN	4 47	10 000	JD
	UNKNOWN	4 50	5 000	JD
1696 20 4	MORPHOLINE 4 ACETYL	4 56	26 000	NJD
	UNKNOWN	4 84	99 000	JD
	UNKNOWN	4 88	61 000	JD
	UNKNOWN	5 11	170 000	JD
	UNKNOWN	5 14	40 000	JD
	UNKNOWN	5 17	51 000	JD
	UNKNOWN	5 19	10 000	JD
	UNKNOWN	5 40	7 000	JD
	UNKNOWN	5 43	6 000	JD
	UNKNOWN	6 07	4 000	JD
	UNKNOWN	6 47	4 000	JD
134 62 3	DIETHYLTOLUAMIDE	7 54	4 000	NJD
934 34 9	2(3H) BENZOTHIAZOLONE	8 41	120 000	NJD

Missing Contents Error Report

SDG NO EBJS2 LABORATORY SWL TULSA

CASE NO 26080 AGENCY INPUT FILE EBJS2 OAS

FIELD DESCRIPTION	CADRE KEY		
Analysis Time	Record Type 20	Line 7227	Format HH MM
Analysis Time	Record Type 20	Line 7240	Format HH MM
Sulfur Cleanup	Record Type 27	Line 7593	Format RANGE
Sulfur Cleanup	Record Type 27	Line 8004	Format RANGE
Analysis Time	Record Type 20	Line 9388	Format HH MM
Analysis Time	Record Type 20	Line 9401	Format HH MM
Sulfur Cleanup	Record Type 27	Line 9754	Format RANGE
Sulfur Cleanup	Record Type 27	Line 10165	Format RANGE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No _____ CERCLIS No IL

Case No 26080 Site Name Location Waste Hauling

Contractor or EPA Lab AATS Data User IEPA

No of Samples 15 Date Sampled or Data Received 5-4-98

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed 15 No of samples received 15

Received by Lynette Burnett Date 5-4-98

Received by LSSS Lynette Burnett Date 5-4-98

Review started 5-7-98 Reviewer Signature [illegible]

Total time spent on review 15.5 Date review completed 5-11-98

Copied by Lynette Burnett Date 5-22-98

Mailed to user by Lynette Burnett Date 5-22-98

DATA USER
Please fill in the blanks below and return this form to
Sylvia Griffen, Data mgmt Coordinator, Region V, 5SCRL

Data received by Brad [illegible] Date 6 23-98

Data review received by _____ Date _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [X] Suitable for Intended Purpose [X] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS Please indicate reasons why data are not suitable for your uses

_____

_____

Received by Data Mgmt Coordinator for Files Data _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE May 7, 1998

SUBJECT Review of Data
Received for Review on April 28, 1998

FROM Stephen L Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section /L F

RECEIVED
MAY 26 1998
IEPA/BOL

TO Data User IEPA

We have reviewed the data by CADRE for the following case

SITE NAME Waste Hauling

CASE NUMBER 26080 **SDG NUMBER** MEBEQ7

Number and Type of Samples 4 water

Sample Numbers MEBEQ7, 9, MEBER0, 1

oratory Sentinel Hrs for Review 3.5 +0.5

Following are our findings

All data are usable with the qualifications described in the attached narrative

L Finkelberg
05-20-98

CC Cecilia Luckett
Region 5 TPO
Mail Code SM-5J

Case Number 26080
Site Name Waste Hauling

SDG Number MEBEQ7
Laboratory Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case

4 water samples numbered MEBEQ7,9 and MEBER0,1 were collected on March 24, 1998 The lab received the samples on March 26, 1998 in good condition All samples were analyzed for metals and cyanide All samples were analyzed using CLP SOW ILM04 0 analysis procedure

Mercury analysis was performed using a Cold Vapor AA Technique Cyanide analysis was performed using the MIDI Distillation procedure The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure

Reviewed By J Ganz
Date May 7, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBEQ7
Laboratory Sentinel

1 HOLDING TIME

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2 0	0 0
Mercury	28	0	2 0	0 0
Cyanide	14	0	12 0	0 0

No problems were found for this qualification

2 CALIBRATIONS

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85 00	115 00	70 00	130 00
ICP	90 00	110 00	75 00	125 00
Mercury	80 00	120 00	65 00	135 00

No problems were found for this qualification

3 BLANKS

LABORATORY BLANKS CRITERIA

DC-283 The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL) Data must be qualified using professional judgement The sample concentration is greater than the IDL but less than 5 times the absolute value of the blank concentration These hits are flagged "J" Some non-detect values are sufficiently high that the detection limit may be elevated These non-detects are flagged "UJ"

Reviewed By J Ganz
Date May 7, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBEQ7
Laboratory Sentinel

Aluminum
MEBEQ7, MEBER0 MEBER1

Arsenic
MEBER1

DC-284 The following inorganic samples are associated with a calibration, preparation, or field blank concentration which is greater than the instrument detection limit (IDL) The sample concentration is also greater than the IDL and less than five times the blank concentration
Hits are qualified "J" and non-detects are not flagged

Aluminum
MEBEQ7, MEBER0

Cadmium
MEBER0

Chromium
MEBEQ9, MEBER0, MEBER1

Copper
MEBEQ7, MEBEQ9, MEBER0

Iron
MEBEQ7, MEBEQ9, MEBER0, MEBER1

Lead
MEBEQ7, MEBEQ9, MEBER0

Magnesium
MEBER1

Manganese
MEBEQ7

Potassium
MEBEQ7

Zinc
MEBEQ7, MEBEQ9, MEBER0

DC-338 During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide

MEBEQ7, MEBEQ9 MEBER0, MEBER1

4 MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE

Reviewed By J Ganz
Date May 7, 1998

Case Number 26080
`e Name Waste Hauling

SDG Number MEBEQ7
Laboratory Sentinel

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125 0
Lower	75 0
Extreme lower	30 0

DC-268 The following inorganic samples are associated with a matrix spike recovery which is low, indicating that sample results may be biased low
Hits are qualified "J" and non-detects are qualified "UJ"

Copper
MEBEQ7, MEBEQ9, MEBER0, MEBER1

DC-269 The following inorganic samples are associated with a matrix spike recovery which is extremely low, indicating that sample results may be biased low
Hits are qualified "J" and non-detects are qualified "R"

Lead
MEBEQ7 MEBEQ9, MEBER0, MEBER1

No problems were found for the laboratory control sample

5 LABORATORY AND FIELD DUPLICATE

DC-256 The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria
Hits and non-detects are qualified "J"

Lead
MEBEQ7, MEBEQ9, MEBER0, MEBER1

6 ICP ANALYSIS

DC-294 The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control
Hits and non-detects are qualified "J"

Copper
MEBEQ7, MEBEQ9, MEBER0, MEBER1

Reviewed By J Ganz
Date May 7, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBEQ7
Laboratory Sentinel

DC-295 The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control The serial dilution result is greater than the sample result, indicating a potential negative interference The data must be qualified using professional judgement Hits and non-detects are flagged "J"

Calcium
MEBEQ7, MEBEQ9, MEBER0, MEBER1

7 GFAA ANALYSIS

No GFAA analyses were performed for this data set

8 SAMPLE RESULTS

All data, except those qualified above, are acceptable

Reviewed By J Ganz
Date May 7, 1998

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified, the associated numerical value is an approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the reported sample quantitation limit However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample
R	The data are unusable (The compound may or may not be present)

FILE NAME MEBEQ7 DATE 05/06/98 TIME 15 37

CRITERIA FILE FGDRI94

DATA

Original	X Qualified

QUALIFICATIONS PERFORMED

	Quantitation Limit		CRDL Standards
	Percent Moisture	X	ICS
X	Holding Time	X	LCS
X	Calibrations	X	Duplicates
X	Matrix Spikes		Furnace AA QC
	IPC	X	ICP Serial Dilutions
	Internal Standards	X	Sample Results Verification
	SMC/Surrogates	X	Laboratory Blanks
	System Performance	X	Field QC
	Sample Cleanup		

PRINT NON DETECTS

X Yes	No

PRINT REJECTED RESULTS

X Yes	No

TAL QUALIFIED SPREADSHEET

Case No 26080
SDG No MEBEQ7

Site Waste Hauling
Laboratory SENTINEL INC

EPA SAMPLE NUMBER	MEBEQ7		MEBEQ9		MEBER0		MEBER1	
REGIONAL SAMPLE NUMBER								
SAMPLE LOCATION								
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Field Blank	
MATRIX/ANALYSIS	Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR								
PERCENT SOLID								
INORG								
Aluminum	38 8	J	14 9	U	68 3	J	61 9	J
Antimony	3 1	U	3 1	U	3 1	U	3 1	U
Arsenic	3 1	U	3 1	U	3 1	U	3 2	J
Barium	70 7		161		157		2	
Beryllium	0 10	U	0 10	U	0 10	U	0 10	U
Cadmium	0 30	U	0 30	U	2 3	J	0 60	
Calcium	74100	J	136000	J	132000	J	458	J
Chromium	0 60	U	0 80	J	2 7	J	0 70	J
Cobalt	1 2	U	18 2		17		1 2	U
Copper	11 8	J	6 4	J	167	J	63 9	J
Iron	113	J	66 4	J	94 4	J	49 4	J
Lead	11 4	J	2 1	J	39 8	J	38	J
Magnesium	40400		72100		69700		163	J
Manganese	96 7	J	1080		1050		20 4	
Mercury	0 20	U	0 30		0 20	U	0 20	U
Nickel	1 7	U	66 8		62 4		1 7	U
Potassium	318	J	5680		5730		111	
Selenium	3 2		2	U	2	U	2	U
Silver	0 80	U	0 80	U	0 80	U	0 80	U
Sodium	9580		202000		193000		357	
Thallium	4 6	U	4 6	U	4 6	U	4 6	U
Vanadium	0 80	U	0 80	U	0 90		0 80	U
Zinc	5 5	J	4 4	J	32 7	J	28 4	
Cyanide	0 50	U	0 50	U	1		0 50	U

FILE NAME MEBEQ7 DATE 05/06/98 TIME 15 37 CADRE98

ater units are reported in ug/L
oil units are reported in mg/Kg

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 26080 SITE: Waste Hauling MATRIX: Water WATER SAMPLE SPK: _____

DATA SET: MEBEQ7 LAB: Sentinel CONC 10W WATER SAMPLE DUP: _____

LAB QC # _____ REVIEWED BY: J Ganz SOIL SAMPLE SPK: _____

DATE: 5-7-98 SOIL SAMPLE DUP: _____

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD		
ELEMENT	HOLD TIME	INITIAL CALIB	CONTI N CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP RPD	AQ SPIKE %R	BLANK R1	DUP RPD	BLANK	DUP RPD	GFAA DUP	GFAA ANALYT SPIKE
ALUMINUM				-212												619					
ANTIMONY																					
ARSENIC					-4328																
BARIUM																					
BERYLLIUM																					
CADMIUM																0 64					
CALCIUM												113									
CHROMIUM				12												0.70					
COBALT																					
COPPER												27.7			47.5	63.9					
IRON					20933											49.4					
LEAD														324	24.1	380					
MAGNESIUM					71079																
MANGANESE																204					
MERCURY																					
NICKEL																					
POTASSIUM																111					
SELENIUM																					
SILVER															1602						
SODIUM																					
THALLIUM																					
TIN																					
VANADIUM																					
ZINC																28.4					
CYANIDE																					

Al (J) , R0, R1 Cr Q9, R0, R1 Mg R1 FB 1 Q7, R0 Cu Q7, Q9, R0 Mn Q7

As (J) R1 (UJ) Q9 Fe Q9, R0, R1 Cd R0 Fe Q7, Q9, R0 K Q7

Zn Q7, Q9, R0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE May 6, 1998

SUBJECT Review of Data
Received for Review on April 28, 1998

FROM Stephen L Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section /L F

TO Data User IEPA

We have reviewed the data by CADRE for the following case

SITE NAME Waste Hauling

CASE NUMBER 26080 **SDG NUMBER** MEBER3

Number and Type of Samples 10 soil

Sample Numbers MEBER3-9, MEBES0,1, MEBET4

oratory Sentinel Hrs for Review 75 +05

Following are our findings

All data are usable with the qualifications described in the attached narrative

L Finkelberg
05-12-98

CC Cecilia Luckett
Region 5 TPO
Mail Code SM-5J

RECEIVED
MAY 15 1998
IEPA/BOL

Case Number 26080
Site Name Waste Hauling

SDG Number MEBER3
Laboratory Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case

10 soil samples numbered MEBER3-9, MEBES0, 1, MEBET4 were collected on March 25, 1998 The lab received the samples on March 26, 1998 in good condition All samples were analyzed for metals and cyanide All samples were analyzed using CLP SOW ILM04 0 analysis procedure

Mercury analysis was performed using a Cold Vapor AA Technique Cyanide analysis was performed using the MIDI Distillation procedure The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure

Reviewed By J Ganz
Date May 6, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBER3
Laboratory Sentinel

HOLDING TIME

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2 0	0 0
Mercury	28	0	2 0	0 0
Cyanide	14	0	12 0	0 0

DC-280 The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples

MEBER3, MEBER4, MEBER5, MEBER6
MEBER7, MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

2 CALIBRATIONS

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85 00	115 00	70 00	130 00
ICP	90 00	110 00	75 00	125 00
Mercury	80 00	120 00	65 00	135 00

No problems were found for this qualification

3 BLANKS

LABORATORY BLANKS CRITERIA

The following samples are associated with a blank whose concentration is greater than the IDL The sample concentration is greater than the IDL but less than 5 times the blank value Hits are qualified "J"

Reviewed By J Ganz
Date May 6, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBER3
Laboratory Sentinel

Beryllium
MEBER6, MEBER7

DC-338 During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide

MEBER3, MEBER4, MEBER5, MEBER6
MEBER7, MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

4 MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125 0
Lower	75 0
Extreme lower	30 0

DC-267 The following inorganic samples are associated with a matrix spike recovery which is high, indicating that the sample results may be biased high
Hits are qualified "J"

Silver
MEBER3, MEBER4, MEBER5, MEBER6, MEBER7
MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

Zinc
MEBER3, MEBER4, MEBER5, MEBER6
MEBER7, MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

DC-268 The following inorganic samples are associated with a matrix spike recovery which is low, indicating that sample results may be biased low
Hits are qualified "J" and non-detects are qualified "UJ"

Antimony
MEBER3, MEBER4, MEBER5, MEBER6
MEBER7, MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

No problems were found for the laboratory control sample

5 LABORATORY AND FIELD DUPLICATE

Reviewed By J Ganz
Date May 6, 1998

Case Number 26080
Site Name Waste Hauling

SDG Number MEBER3
Laboratory Sentinel

No problems were found for this qualification

6 ICP ANALYSIS

DC-295 The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control The serial dilution result is greater than the sample result, indicating a potential negative interference The data must be qualified using professional judgement Hits and non-detects are flagged "J"

Calcium
MEBER3, MEBER4, MEBER5, MEBER6, MEBER7
MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

Copper
MEBER3, MEBER4, MEBER5, MEBER6
MEBER7, MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

Magnesium
MEBER3, MEBER4, MEBER5, MEBER6, MEBER7
MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

Potassium
MEBER3, MEBER4, MEBER5, MEBER6, MEBER7
MEBER8, MEBER9, MEBES0, MEBES1, MEBET4

7 GFAA ANALYSIS

No GFAA analyses were perfromed for this data set

8 SAMPLE RESULTS

All data, except those qualified above, are acceptable

Reviewed By J Ganz
Date May 6, 1998

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified, the associated numerical value is an approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the reported sample quantitation limit However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample
R	The data are unusable (The compound may or may not be present)

FILE NAME MEBER3 DATE 05/06/98 TIME 13 18

CRITERIA FILE FGDRI94

DATA

	riginal	X	Qualified

QUALIFICATIONS PERFORMED

	Quantitation Limit		CRDL Standards
	Percent Moisture	X	ICS
X	Holding Time	X	LCS
X	Calibrations	X	Duplicates
X	Matrix Spikes		Furnace AA QC
	IPC	X	ICP Serial Dilutions
	Internal Standards	X	Sample Results Verification
	SMC/Surrogates	X	Laboratory Blanks
	System Performance		Field QC
	Sample Cleanup		

PRINT NON DETECTS

X	Yes		No

PRINT REJECTED RESULTS

X	Yes		No

TAL QUALIFIED SPREADSHEET

Case No 26080
SDG No MEBER3

Site Waste Hauling
Laboratory SENTINEL INC

EPA SAMPLE NUMBER	MEBER3		MEBER4		MEBER5		MEBER6		MEBER7	
REGIONAL SAMPLE NUMBER										
SAMPLE LOCATION										
SAMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR										
PERCENT SOLID	84 0		60 8		70 6		78 6		48 2	
INORG										
Aluminum	4780		6190		4460		3130		11100	
Antimony	0 70	UJ	1	UJ	0 90	UJ	0 80	UJ	1 3	UJ
Arsenic	2 9		8 8		4		1 4		3 4	
Barium	59 8		59 3		41 7		35 7		81 2	
Beryllium	0 30		0 50		0 40		0 20	J	0 20	J
Cadmium	0 070	U	0 10	U	0 080	U	0 080	U	0 10	U
Calcium	1020	J	23600	J	19100	J	26300	J	32000	J
Chromium	6 3		10 2		7 3		5 2		10 7	
Cobalt	6 1		8 3		4 8		3 1		4 5	
Copper	8 6	J	23 8	J	15 4	J	6	J	33 8	J
Iron	8230		26200		14100		11000		14600	
Lead	12 4		23 2		11 8		5 3		15 5	
Magnesium	942	J	9300	J	9030	J	5260	J	6430	J
Manganese	446		610		272		280		650	
Mercury	0 10	U	0 20	U	0 10	U	0 10	U	0 20	U
Nickel	7 9		15 4		9 5		5 8		16 7	
Potassium	722	J	1380	J	942	J	633	J	734	J
Selenium	0 50	U	0 60	U	0 60	U	0 50	U	0 80	U
Silver	0 40	J	1 2	J	0 50	J	0 50	J	0 60	J
Sodium	78 7		550		389		728		514	
Thallium	1 1	U	1 5	U	1 3	U	1 2	U	1 9	U
Vanadium	12 3		18 1		11 1		8		8 5	
Zinc	40	J	403	J	301	J	26 8	J	196	J
Cyanide	0 30		0 10		0 30		0 20		0 050	U

FILE NAME MEBER3 DATE 05/06/98 TIME 13 18 CADRE98

Water units are reported in ug/L
Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Case No 26080
SDG No MEBER3

Site Waste Hauling
Laboratory SENTINEL INC

EPA SAMPLE NUMBER	MEBER8		MEBER9		MEBES0		MEBES1		MEBET4	
REGIONAL SAMPLE NUMBER										
AMPLE LOCATION										
AMPLE TYPE	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR										
PERCENT SOLID	71 2		75 0		81 9		76 4		59 3	
INORG										
Aluminum	12300		6700		6680		6870		5270	
Antimony	0 90	UJ	0 80	UJ	0 80	UJ	0 80	UJ	1	UJ
Arsenic	6 7		6 7		2 2		2 7		9 8	
Barium	85		140		52 5		105		126	
Beryllium	0 50		0 50		0 40		0 40		0 20	
Cadmium	0 080	U	0 080	U	0 20		0 080	U	0 10	U
Calcium	3330	J	5340	J	17700	J	5160	J	55300	J
Chromium	12 7		11 7		10 6		9 2		9 1	
Cobalt	8 5		20 2		5 9		5 4		8 1	
Copper	25 5	J	18 6	J	12 1	J	12 2	J	16 8	J
Iron	38800		15400		11000		10600		29700	
Lead	24 8		30 4		10 6		14 1		7 3	
Magnesium	2160	J	3300	J	9750	J	2840	J	25400	J
Manganese	293		1810		346		405		732	
Mercury	0 10	U	0 10	U	0 10	U	0 10	U	0 20	U
Nickel	14 2		13 9		12 7		10 6		15	
Potassium	1380	J	855	J	968	J	1050	J	685	J
Selenium	0 60	U	0 50	U	0 50	U	0 50	U	0 70	U
Silver	1 8	J	29 8	J	0 60	J	0 60	J	1 4	J
Sodium	357		115		179		113		344	
Thallium	1 3	U	1 2	U	1 1	U	1 2	U	1 6	U
Vanadium	25 9		23		15 6		15 1		16 6	
Zinc	129	J	46	J	40	J	49 1	J	58	J
Cyanide	0 80		0 10		0 060		0 090		0 040	U

FILE NAME MEBER3 DATE 05/06/98 TIME 13 18 CADRE98

ater units are reported in ug/L
Soil units are reported in mg/Kg

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 26080 SITE: Waste Hauling MATRIX: Soil WATER SAMPLE SPK: _____

DATA SET: MEBER3 LAB: Sentinel CONC: low WATER SAMPLE DUP: _____

LAB QC # _____ REVIEWED BY J Ganz SOIL SAMPLE SPK: _____

DATE: 5-5-98 SOIL SAMPLE DUP: _____

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD		
ELEMENT	HOLD TIME	INITIAL CALIB	CONTI N CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP RPD	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	GFAA DUP	GFAA ANALYT SPIKE
ALUMINUM																					
ANTIMONY								54.0													
ARSENIC																					
BARIUM																					
BERYLLIUM				0.1																	
CADMIUM																					
CALCIUM													183								
CHROMIUM																					
COBALT																					
COPPER													313.3								
IRON																					
LEAD																					
MAGNESIUM													11.0								
MANGANESE																					
MERCURY																					
NICKEL							A(433)														
POTASSIUM													102								
SELENIUM			-28				A(-10)														
SILVER							A(8)	207.5													
SODIUM																					
THALLIUM						-1634	(A-8)														
TIN																					
VANADIUM																					
ZINC								199.8													
CYANIDE																					

Be R-86 Tl(UJ?)

Se(UJ?)

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE

SUBJECT Review of Data
Received for Review on 4 13-98

FROM Stephen L Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

for Steve Ostrodka
Richard L Bynum
4/23/98

TO Data User IEPA

We have reviewed the data for the following case

SITE NAME Waste Hauling (IL)

CASE NUMBER 26080 SDG NUMBER EBSK7

Number and Type of Samples 5 waters

Sample Numbers EBSK7-9, EBSLL-1

Laboratory PDP Analytical Services Hrs for Review 75

Following are our findings

the data are acceptable and usable with the qualifications described in the attached narrative
Richard L Bynum

CC Cecilia Moore
Acting Region 5 TPO
Mail Code SM-5J

RECEIVED
APR 27 1998
IEPA/BOL

NARRATIVE

LABORATORY	PDP Analytical Services	CASE 26080
SITE	Waste Hauling	SDG EBSK7

Below is a summary of the out-of-control audits and the possible effect on the data for this case

This review covers five water samples numbered EBSK7-9 and EBSL0-1 The samples were collected March 24, 1998 PDP Analytical services, The Woodlands, Texas, received the samples on March 26, 1998 in good condition All five samples were analyzed for volatiles, four samples were analyzed for semivolatiles and pesticides/PCBs

All sample analyses were performed following the CLP SOW OLC02 1 protocol

All volatile analysis were performed within the technical hold time requirements of fourteen days for acid preserved water samples All semivolatile and pesticide/PCB extractions were performed within the technical hold time requirements of seven days for water samples All semivolatile and pesticide/PCB analysis were performed within the forty day hold time requirements

No samples were listed as field blanks or duplicates Sample EBSL1 was listed as a trip blank

The reviewer's narrative and data qualifiers are noted in the following pages

Reviewed by Robert D Kuhajda Lockheed/ESAT
Date April 21, 1998

NARRATIVE

LABORATORY	PDP Analytical Services	CASE 26080
SITE	Waste Hauling	SDG EBSK7

1 HOLDING TIME

The samples were collected March 24, 1998 PDP Analytical services, The Woodlands, Texas, received the samples on March 26, 1998 in good condition All five samples were analyzed for volatiles, four samples were analyzed for semivolatiles and pesticides/PCBs

All sample analyses were performed following the CLP SOW OLC02 1 protocol

All volatile analysis were performed within the technical hold time requirements of fourteen days for acid preserved water samples All semivolatile and pesticide/PCB extractions were performed within the technical hold time requirements of seven days for water samples All semivolatile and pesticide/PCB analysis were performed within the forty day hold time requirements

2 GC/MS TUNING PERFORMANCE

Volatile

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the twelve hour periods for instrument performance checks

Semivolatile

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the twelve hour periods for instrument performance checks

Pesticide/PCB

The GC Resolution Check Mix met the 60% resolution criteria DDT and endrin degradation checks using Performance Evaluation Mix of DB-608 and DB-1701 columns were acceptable (<20%) The results are acceptable

3 CALIBRATION

The integration is questionable for the following pesticide

Reviewed by Robert D Kuhajda Lockheed/ESAT
Date April 21, 1998

NARRATIVE

LABORATORY PDP Analytical Services CASE 26080
SITE Waste Hauling SDG EBSK7

analytes 4,4'-DDD in INDAL and INDM (second column), 4,4'-DDT in INDAL and INDAM (second column), methoxychlor in INDAL (both columns) and INDAH (second column) and endrin ketone in INDBL and INDBH (second column) These analytes were integrated to include extra area

Initial and continuing calibration standards were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative

4 METHOD BLANK

No targets were found in any fraction No TICs were found in the volatile or semivolatile fraction

5 SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

All surrogate recoveries were within control limits for each fraction The results are acceptable

6 Laboratory Control Samples (LCS)

All LCS recoveries were within control limits for each fraction The results are acceptable

7 FIELD BLANK AND FIELD DUPLICATE

No samples were listed as field blanks or field duplicates Sample EBSL1 was listed as a trip blank No TCLs or TICs were reported for this sample

8 INTERNAL STANDARDS

All internal standard areas and retention times were within control limits The results are acceptable

9 COMPOUND IDENTIFICATION

Volatile

The target compounds and TICs were correctly identified Sample

Reviewed by Robert D Kuhajda Lockheed/ESAT
Date April 21, 1998

NARRATIVE

LABORATORY	PDP Analytical Services	CASE 26080
SITE	Waste Hauling	SDG EBSK7

EBSL0 may have carbon disulfide coeluting with acetone

Semivolatile
The target compounds and TICs were correctly identified

Pesticide/PCB
The target compounds were correctly identified

10 COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The TCLs and TICs were properly quantitated and the CRQLs were properly listed except where indicated in the previous section

11 SYSTEM PERFORMANCE

GC and GC/MS baseline indicated acceptable performance

12 ADDITIONAL INFORMATION

Sample pH information from page 417

EBSK7 7 08
EBSK8 7 30
EBSK9 7 48
EBSL0 5 96
EBSL1 Received as acid preserved volatile sample only

Reviewed by Robert D Kuhajda Lockheed/ESAT
Date April 21, 1998

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS# 26080
COLUMN DB-624
HEATED PURGE (Y/N) N

LABORATORY PDP
SITENAME Waste Hauling

Instrument# B-HP5972A		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time		2/25/98			3/26/98											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0 01															
Bromomethane	0 10															
Vinyl chloride	0 10															
Chloroethane	0 01															
Methylene chloride	0 01															
Acetone	0 01															
Carbon disulfide	0 01															
1,1 Dichloroethene	0 10															
1,1 Dichloroethane	0 20															
cis 1,2-Dichloroethene	0 10															
trans 1,2 Dichloroethene	0 10															
Chloroform	0 20															
1,2 Dichloroethane	0 10															
2 Butanone	0 01															
Bromochloromethane	0 10															
1,1,1 Trichloroethane	0 10															
Carbon tetrachloride	0 10															
Bromodichloromethane	0 20															
1,2 Dichloropropane	0 01															
cis 1,3 Dichloropropene	0 20															
Trichloroethene	0 30															
Dibromochloromethane	0 10															
1,1,2-Trichloroethane	0 10															
Benzene	0 50															
tran 1,3 Dichloropropene	0 10															
Bromoform	0 10															
4-Methyl 2 pentanone	0 01															
2 Hexanone	0 01															
Tetrachloroethene	0 20															
1,1,2,2 Tetrachloroethane	0 50															
1,2 Dibromoethane	0 10															
Toluene	0 40															
Chlorobenzene	0 50															
Ethylbenzene	0 10															
Styrene	0 30															
Xylene (total)	0 30															
1,2 Dibromo-3-chloropropane	0 10															
1,3 Dichlorobenzene	0 60															
1,4-Dichlorobenzene	0 50															
1,2 Dichlorobenzene	0 40															
Bromofluorobenzene	0 40															

Samples affected
VBLK 87
VLCS 87
EBSK7
EBSK8
EBSK9
EBSL0
EBSL1
VNBIK01

Reviewer s Init/Date JK 4/20/98

J/R = All positive results are estimated J and non-detected results are unusable R

* = These flags should be applied to the analytes on the sample data sheets

= Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS# 26080
COLUMN DB-5

LABORATORY PDP
SITE NAME Waste Hauling

Instrument# D-HP5971A		Initial Cal.			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time		3/30/98			3/30/98											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2 Methylphenol	0.70															
2,2 -Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N nitroso-di n propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2 Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2 Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5 Trichlorophenol	0.20															
2 Chloronaphthalene	0.80															
2 Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3 Nitroaniline	0.01	0.322	L		0.168	47.8	J									
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples

SBLK02
SLCS02
EBSK7
EBSK8
EBSK9
EBSL0

cc in part of IC

Reviewer s Init/Date RK 4/20/98

J/R = All positive results are estimated J and non-detected results are unusable R

* = These flags should be applied to the analytes on the sample data sheets
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS# 26080
COLUMN DB-5

LABORATORY PDP
SITE NAME Waste Handling

Instrument# D-HP5971A		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time		3/30/98			3/30/98											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0 01															
4-Chlorophenyl-phenylether	0 40															
Fluorene	0 90															
4-Nitroaniline	0 01	0.308			0.176	42.8	J									
4,6-Dinitro-2-methylphenol	0 01															
N nitrosodiphenylamine	0 01															
4-Bromophenyl phenylether	0 10															
Hexachlorobenzene	0 10															
Pentachlorophenol	0 05															
Phenanthrene	0 70															
Anthracene	0 70															
Di n-butylphthalate	0 01	1.621	56.3	J												
Fluoranthene	0 60															
Pyrene	0 60															
Butylbenzylphthalate	0 01															
3,3 Dichlorobenzidine	0 01															
Benzo(a)anthracene	0 80															
Chrysene	0 70															
bis(2 Ethylhexyl)phthalate	0 01															
Di n-octyl phthalate	0 01															
Benzo(b)fluoranthene	0 70															
Benzo(k)fluoranthene	0 70															
Benzo(a)pyrene	0 70															
Indeno(1,2,3-cd)pyrene	0 50															
Dibenz(a,h)anthrancene	0 40															
Benzo(g,h,i)perylene	0 50															
Nitrobenzene-d5	0 01															
2 Fluorobiphenyl	0 70															
Terphenyl-d14	0 50															
Phenol-d5	0 80															
2 Fluorophenol	0 60															
2,4,6-Tribromophenol	0 01															

Reviewer s Init/Date RK 4/20/98

J/R = All positive results are estimated J and non-detected results are unusable R

* = These flags should be applied to the analytes on the sample data sheets
\# = Minimum Relative Response Factor

CALIBRATION [illegible]

PESTICIDE/PCB TCL COMPOUNDS

(Page 1 of 1)

CASE\SAS# 26080 LABORATORY PDP

COLUMN DB1701 SITE NAME Waste Handling

Instrument# ENP5890H		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time		4/7/98			4/7/98											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha BHC	0.01															
beta BHC	0.40															
delta BHC	0.90															
gamma BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4 DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4 DDD	0.60															
Endosulfan sulfate	0.60															
4, 4 -DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples				
	PBLK15			
	PLCS15			
	EBSK7			
	EBSK8			
	EBSK9			
	EBSL0			

Reviewer's Init/Date RA 4/21/98

* These flags should be applied to the analytes on the sample data sheets

\# Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS# 26080
COLUMN DB608

LABORATORY PDP
SITE NAME Waste Hauling

Instrument# ENP5890A		Initial Cal			Contin Cal			Contin Cal			Contin Cal			Contin Cal		
Date/Time		4/7/98			4/7/98											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha BHC	0.01															
beta BHC	0.40															
delta BHC	0.90															
gamma BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4 DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4 DDD	0.60															
Endosulfan sulfate	0.60															
4, 4 DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples				
	PBLK 25			
	PLCS 25			
	EBSK 7			
	EBSK 8			
	EBSK 9			
	EBSLO			

Reviewer s Init/Date RK 4/21/98

* These flags should be applied to the analytes on the sample data sheets
\# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL)

U Indicates that the compound was analyzed for, but not detected The sample quantitation limit corrected for dilution and percent moisture is reported

J Indicates an estimated value This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero The flag is also used to indicate a reported result having an associated QC problem

R Indicates the data are unusable (NOTE The analyte may or may not be present)

N Indicates presumptive evidence of a compound This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns The lower of the two results is reported

C Indicates pesticide results that have been confirmed by GC/MS

B Indicates the analyte is detected in the associated blank as well as in the sample

E Indicates compounds whose concentrations exceed the calibration range of the instrument

D Indicates an identified compound in an analysis has been diluted This flag alerts the data user to any differences between the concentrations reported in the two analysis

A Indicates tentatively identified compounds that are suspected to be aldol condensation products

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample

X,Y,Z are reserved for laboratory defined flags

TABLE 4

(For Low Co ration water)

VOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4 Difluorobenzene

Chloromethane
Bromomethane
Vinyl chloride
Chloroethane
Methylene chloride
Acetone
Carbon disulfide
1 1 Dichloroethene
1 1 Dichloroethane
4-Bromofluorobenzene
Chloroform
1 2 Dichloroethane
1 2 Dichloroethane-d_4(surr smc)
2 Butanone
Bromochloromethane
cis 1 2 Dichloroethene
trans 1 2 Dichloroethene

Chlorobenzene-d_5

4 Methyl 2 pentanone
1 1 1 Trichloroethane
Carbon tetrachloride
Bromodichloromethane
1 2 Dichloropropane
trans 1 3 Dichloropropene
Trichloroethene
Dibromochloromethane
1 1 2 Trichloroethane
Benzene
cis 1 3 Dichloropropene
Chlorobenzene
1 2 Dibromomethane
Ethylbenzene
2 Hexanone
Styrene
Xylene(total)
Toluene
Tetrachloroethene
1 1 2 2 Tetrachloroethane

1,4 Dichlorobenzene-d_4

Bromoform
1 2 Dibromo-3 chloropropane
1 2 Dichlorobenzene
1 3 Dichlorobenzene
1 4 Dichlorobenzen

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4 Dichlorobenzene d_4

Phenol
bis(2 chloroethyl)ether
2 Chlorophenol
2 Methylphenol
bis(2 chloroisopropyl)ether
4 Methylphenol
N nitroso di-n propylamine
2 Fluorophenol(surr)
Phenol-d_6(surr)

Naphthalene d_8

Nitrobenzene
Isophorone
2 Nitrophenol
2 4 Dimethylphenol
2 Methylnaphthalene
bis(2 Chloroethoxy)methane
2 4 Dichlorophenol
Nitrobenzene-d_5(surr)
4 Chloroaniline
Hexachlorobutadiene
4 Chloro-3 methylphenol

Acenaphthene d_{10}

Hexachlorocyclopentadiene
2 4 6-Trichlorophenol
2 4 5 Trichlorophenol
2 Chloronaphthalene
2 Nitroaniline
Dimethylphthalate
Acenaphthylene
3 Nitroaniline
Acenaphthene
2 4 Dinitrophenol
4 Nitrophenol
Dibenzofuran
2 4 Dinitrotoluene
2 6-Dinitrotoluene
Diethyl phthalate
4 Chlorophenyl phenyl ether
Fluorene
4 Nitroaniline
2 Fluorobiphenyl(surr)
2 4 6 Tribromophenol(surr)

Phenanthrene d_{10}

4 6 Dinitro-2 methylphenol
N nitroso-di-phenylamine
1 2 Diphenylhydrazine
4 Bromophenyl phenyl ether
Hexachlorobenzene
Pentachlorophenol
Phenanthrene
Anthracene
Di n butyl phthalate
Fluoranthene

Chrysene d_{12}

Pyrene
butylbenzyl phthalate
3 3 Dichlorobenzidine
Benzo(a)anthracene
bis(2 Ethylhexyl)phthalate
Chrysene
Terphenyl-d_{14}(surr)

Perylene-d_{12}

Di-n-octyl phthalate
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene
Indeno(1 2 3 cd)pyrene
Dibenzo(a h)anthracene
Benzo(g h i)perylene

(surr) surrogate

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No 68-D7-0004	Case No 26080	SDG No EBSK7

SDG NARRATIVE

SAMPLE RECEIPT

03/26/98 - Received two coolers

Cooler 1 4°C(COC #362709) and Cooler 2 4°C (COC #362710) contained the following

EBSK7-	6- VOA Vials and 6-2L Amber
EBSK8-	2 - VOA Vials and 2-2L Amber
EBSK9-	2 - VOA Vials and 2-2L Amber
EBSL0-	2 - VOA Vials and 2-2L Amber
EBSL1-	2-VOA Vials

No problems were encountered

VOLATILES

All samples were analyzed on a HP 5971 and HP5972 GC/MS using a 60 meters long DB-624 column having a 0 53mm ID and 3um film thickness The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6 Cat 14-1755-003) A 20 mL purge volume was used for all samples, blanks and standards The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW)

The following field samples are analyzed for volatiles in this SDG The pH of the samples is listed against them

EBSK7	2 0
EBSK8	2 0
EBSK9	2 0
EBSL0	2 0
EBSL1	2 0

Manual integration s were performed for the following samples for the compounds listed against them

VSTD00182 - Chloromethane Vinyl chloride Bromomethane, Chloroethane, Acetone
VSTD00282 - Chloromethane Vinyl chloride, Chloroethane Bromomethane, 1 1-Dichloroethene, Carbon disulfide Acetone
VSTD00582 - Chloromethane Vinyl chloride Chloroethane, 1 1-Dichloroethene, trans-1,2-Dichloeoethene
VSTD01082 - Chloromethane, Vinyl chloride Chloroethane, Bromomethane, 1 1-Dichloroethene, Carbon disulfide Acetone Methylene chloride
VSTD02582 - Chloromethane Vinyl chloride Chloroethane, Bromomethane, 1,1-Dichloroethene, Carbon disulfide Acetone
VSTD00592- 1 4-Dichlorobenzene-d4 (when a manual integration is performed on an internal standard, the software flags all compounds associated with that IS with an "m"), 1,4-Dichlorobenzene

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No 68-D7-0004	Case No 26080	SDG No EBSK7

SDG NARRATIVE

VLCS87- Vinyl chloride

These manual integration s were necessary because the software failed to accurately integrate the entire peak In all the above instances the quantitation reports are flagged with "m" A hard copy printout of the manual integration s along with the scan ranges and initials of the operator is included in the data package

SEMIVOLATILES

The following sample was extracted using continuous liquid/liquid extraction method on 03/26/98

EBSK7, EBSK8, EBSK9 EBSL0

No problems were encountered during extraction.

All samples were analyzed on a HP 5971A GC/MS using a 30 meters long and 0 25mm ID DB-5 column A 1uL injection was used

Manual integration s were performed for the following samples for the compounds listed against them

SSTD00573- 2-Methylnaphthalene, 2 4 6-Trichlorophenol, 4-Nitroaniline Di-n-Octyl phthalate Benzo (k) fluoranthene Dibenz (a,h) anthracene
SSTD01073- 2-Methylnaphthalene, 2,4,6-Trichlorophenol, 4-Nitroaniline Di-n-Octyl phthalate, Benzo (k) fluoranthene Dibenz (a,h) anthracene
SSTD02073- 2-Methylnaphthalene 2 4 6-Trichlorophenol, 4-Nitroaniline Di-n-Octyl phthalate Benzo (k) fluoranthene Dibenz (a,h) anthracene
SSTD05073- 2-Methylnaphthalene 2 4 6-Trichlorophenol 4-Nitroaniline Di-n-Octyl phthalate Benzo (k) fluoranthene Dibenz (a,h) anthracene
SSTD08073- 2-Methylnaphthalene 2,4,6-Trichlorophenol 4-Nitroaniline Di-n-Octyl phthalate Benzo (k) fluoranthene Dibenz (a,h) anthracene

These manual integration s were necessary because the software either failed to accurately integrate the entire peak or picked up the wrong peak In all the above instances the quantitation reports are flagged with m A hard copy printout of the manual integration s along with the scan ranges and initials of the operator is included in the data package

PESTICIDES

The following samples were extracted using separatory funnel extraction method on 03/26/98

EBSK7 EBSK8 EBSK9, EBSL1

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No 68-D7-0004	Case No 26080	SDG No EBSK7

SDG NARRATIVE

No problems were encountered during extraction

All samples were analyzed on a HP 5890 GC using two columns manufactured by J&W
1) DB608 30m*0 53mmID*1um film thickness
2) DB1701 30m*0 53mmID* 85um film thickness
A 2uL injection was used

Manual integration s were performed for the following compounds for the samples listed against them

Column DB-608
Metoxychlor- INDAL11
Edrin Ketone- INDBM11
Endrin Aldehyde- INDBM11

Column DB-1701

Edrin Ketone- RESC12 PEM12, INDAL12, INDBL12, INDBM12, INDBH12 PEM22, INDBM22
Endrin Aldehyde- INDBL12
Methoxychlor- INDAL12
4 4 -DDD- INDAL12 INDAM12
4 4 -DDT- INDAL12 INDAM12

These manual integration s were necessary because the software either failed to accurately integrate the entire peak or picked up the wrong peak In all the above instances, the quantitation reports are flagged with "m" A hard copy printout of the manual integration s and initials of the operator is included in the data package

I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness for other than the conditions detailed above Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee as verified by the following signature

Skudchadka / organic supervisor
Signature and Title

04/08/98
Date of Signature

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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Lab File ID B6709 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1 1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1 2-Dichlorobenzene	1	U
96-12-8	1 2-Dibromo-3-chloropropane	1	U
120-82-1	1,2 4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Lab File ID B6709 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
2					
3					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Lab File ID B6710 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	9	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1 2,4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Lab File ID B6710 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
2					
3					
4					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Lab File ID B6711 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Lab File ID B6711 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
2					
3					
4					
5					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Lab File ID B6712 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	14	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0 7	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1 3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Lab File ID B6712 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSL1

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 006 Date Received 03/26/98

Lab File ID B6713 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1 1 2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSL1

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 006 Date Received 03/26/98

Lab File ID B6713 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLK87

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID BVBLK98C10 Date Received _____

Lab File ID B6707 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1 1 2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1 3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1 2,4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLK87

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID BVBLK98C10 Date Received _____

Lab File ID B6707 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
1					
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VHBLK01

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 001 Date Received _____

Lab File ID B6714 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1 1 2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2 4-Trichlorobenzene	1	U

1LCE

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VHBLK01

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 001 Date Received _____

Lab File ID B6714 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (UG/L)	Q
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1LCA

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VLCS87

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID BVLCS98C10 Date Received _____

Lab File ID B6708 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

CAS NO	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	4	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
79-01-6	Trichloroethene	4	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	5	
71-43-2	Benzene	5	
10061-02-6	trans-1 3-Dichloropropene	1	U
75-25-2	Bromoform	5	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	6	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1 3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

2LCA
LOW CONC WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

	EPA SAMPLE NO	SMC1 %REC #	OTHER	TOT OUT
01	VBLK87	102		0
02	VLCS87	95		0
03	EBSK7	96		0
04	EBSK8	94		0
05	EBSK9	93		0
06	EBSL0	96		0
07	EBSL1	88		0
08	VHBLK01	94		0
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QC LIMITS
%REC
SMC1 = 4-Bromofluorobenzene (80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3LCA

LOW CONC WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO

VLCS87

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID BVLCS98C10 LCS Lot No

Lab File ID B6708 Date Analyzed 03/26/98

Purge Volume 20 (mL) Dilution Factor 1 0

LCS Aliquot 10 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Vinyl chloride	100	93	93	60-140
1,2-Dichloroethane	100	99	99	60-140
Carbon tetrachloride	100	89	89	60-140
1,2-Dichloropropane	100	100	100	60-140
cis-1,3-Dichloropropene	100	95	95	60-140
Trichloroethene	100	91	91	60-140
1,1,2-Trichloroethane	100	100	100	60-140
Benzene	100	100	100	60-140
Bromoform	100	100	100	60-140
Tetrachloroethene	100	90	90	60-140
1,2-Dibromoethane	100	130	130	60-140
1,4-Dichlorobenzene	100	96	96	60-140

Column to be used to flag LCS recovery with an asterisk
* Values outside of QC limits

LCS Recovery 0 outside limits out of 12 total

COMMENTS

FORM III LSV OLC02 (

4LCA

LOW CONC WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

VBLK87

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID BVBLK98C10 Date Analyzed 03/26/98

Lab File ID B6707 Time Analyzed 1412

Instrument ID B-HP5971A

GC Column DB-624 ID 0 53 (mm) Length 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS87	BVLCS98C10	B6708	1456
02	EBSK7	4540 002	B6709	1539
03	EBSK8	4540 003	B6710	1624
04	EBSK9	4540 004	B6711	1708
05	EBSL0	4540 005	B6712	1752
06	EBSL1	4540 006	B6713	1835
07	VHBLK01	4540 001	B6714	1919
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COMMENTS

FORM IV LCV

OLC02 0

000009

1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Lab File ID D2726 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2 6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Lab File ID D2726 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000 (uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Lab File ID D2726 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (ug/L)	Q
1					
2					
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1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Lab File ID D2729 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2 4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2 4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2 4 5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Lab File ID D2729 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3 3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1 2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Lab File ID D2729 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (ug/L)	Q
1					
2					
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1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Lab File ID D2730 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2 6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Lab File ID D2730 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2 4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Lab File ID D2730 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (ug/L)	Q
1					
2					
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1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Lab File ID D2731 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2 4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Lab File ID D2731 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Lab File ID D2731 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (ug/L)	Q
1					
2					
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1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLK02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOB059 Date Received _____

Lab File ID D2724 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLK02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOB059 Date Received _____

Lab File ID D2724 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2 4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SBLK02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOB059 Date Received _____

Lab File ID D2724 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

Number TICs found 0

	CAS NUMBER	COMPOUND NAME	RT	EST CONC (ug/L)	Q
1					
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1LCB

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SLCS02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOL051 Date Received _____

Lab File ID D2725 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	27	
111-44-4	bis(2-Chloroethyl)ether	12	
95-57-8	2-Chlorophenol	27	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	12	
67-72-1	Hexachloroethane	10	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	15	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	14	
106-47-8	4-Chloroaniline	16	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	28	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SLCS02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOL051 Date Received _____

Lab File ID D2725 Date Extracted 03/26/98

Sample Volume 1000 00 (mL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	16	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	16	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	14	
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

2LCB
LOW CONC WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

	EPA SAMPLE NO	NBZ %REC #	FBP %REC #	TPH %REC #	PHL %REC #	2FP %REC #	TBP %REC #	OTHER	TOT OUT
01	SBLK02	78	74	94	72	68	92		0
02	SLCS02	78	73	87	70	66	88		0
03	EBSK7	73	71	82	70	65	87		0
04	EBSK8	77	73	88	74	71	90		0
05	EBSK9	74	71	84	72	68	89		0
06	EBSL0	76	72	86	71	69	85		0
07									
08									
09									
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		QC LIMITS %REC
NBZ	= Nitrobenzene-d5	(23-120)
FBP	= 2-Fluorobiphenyl	(30-115)
TPH	= Terphenyl-d14	(18-140)
PHL	= Phenol-d5	(15-115)
2FP	= 2-Fluorophenol	(15-121)
TBP	= 2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3LCB

LOW CONC WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO

SLCS02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOL051 LCS Lot No

Lab File ID D2725 Date Extracted 03/26/98

LCS Aliquot 1000 (uL) Date Analyzed 03/30/98

Concentrated Extract Volume 1000(uL) Dilution Factor 1 0

Injection Volume 2 (uL)

COMPOUND	~~CONC~~ ADDED ~~(ug/L)~~ (ng) amount	~~CONC~~ RECOVERED ~~(ug/L)~~ (ng) amount	%REC #	QC LIMITS
Phenol	40000	27000	68	40-120
bis(2-Chloroethyl)ether	20000	12000	60	50-110
2-Chlorophenol	40000	27000	68	50-110
N-Nitroso-di-n-propylamine	20000	12000	60	30-110
Hexachloroethane	20000	10000	50	20-110
Isophorone	20000	15000	75	50-110
Naphthalene	20000	14000	70	30-110
4-Chloroaniline	40000	16000	40	10-120
2,4,6-Trichlorophenol	40000	28000	70	40-120
2,4-Dinitrotoluene	20000	14000	70	30-120
Diethylphthalate	20000	16000	80	50-120
N-Nitrosodiphenylamine (1)	20000	10000	50	30-110
Hexachlorobenzene	20000	16000	80	40-120
Benzo(a)pyrene	20000	14000	70	50-120

Column to be used to flag LCS recovery with an asterisk
* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

COMMENTS

FORM III LSSV OLC02

4LCB

LOW CONC WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

SBLK02

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID SVOB059 Date Extracted 03/26/98

Lab File ID D2724 Date Analyzed 03/30/98

Instrument ID D-HP5971A Time Analyzed 1449

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES and LCS

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS02	SVOL051	D2725	03/30/98
02	EBSK7	4540 002	D2726	03/30/98
03	EBSK8	4540 003	D2729	03/30/98
04	EBSK9	4540 004	D2730	03/30/98
05	EBSL0	4540 005	D2731	03/30/98
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COMMENTS

FORM IV LCSV

OLC02 0

1LCD

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK7

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 002 Date Received 03/26/98

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 01	U
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 01	U
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 02	U
72-55-9	4,4'-DDE	0 02	U
72-20-8	Endrin	0 02	U
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 02	U
50-29-3	4,4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 01	U
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

1LCD

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK8

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No - SDG No EBSK7

Lab Sample ID 4540 003 Date Received 03/26/98

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 01	U
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 01	U
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 02	U
72-55-9	4,4 -DDE	0 02	U
72-20-8	Endrin	0 02	U
33213-65-9	Endosulfan II	0 02	U
72-54-8	4 4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 02	U
50-29-3	4,4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 01	U
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

1LCD

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSK9

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 004 Date Received 03/26/98

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 01	U
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 01	U
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 02	U
72-55-9	4 4'-DDE	0 02	U
72-20-8	Endrin	0 02	U
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 02	U
50-29-3	4 4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 01	U
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

1LCD

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EBSL0

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID 4540 005 Date Received 03/26/98

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 01	U
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 01	U
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 02	U
72-55-9	4 4'-DDE	0 02	U
72-20-8	Endrin	0 02	U
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 02	U
50-29-3	4 4 -DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 01	U
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK25

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID PESB047 Date Received _____

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 01	U
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 01	U
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 02	U
72-55-9	4,4'-DDE	0 02	U
72-20-8	Endrin	0 02	U
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 02	U
50-29-3	4 4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 01	U
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

EPA SAMPLE NO

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

PLCS25 (1)

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID PESL036 Date Received _____

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000 (uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 06	
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 08	
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 14	
72-55-9	4 4 -DDE	0 15	
72-20-8	Endrin	0 17	
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4 -DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 16	
50-29-3	4,4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 07	
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

LOW CONC WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

PLCS25 (2)

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Lab Sample ID PESL036 Date Received _____

Sample Volume 1000 00 (mL) Date Extracted 03/26/98

Concentrated Extract Volume 2000(uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1 0

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0 01	U
319-85-7	beta-BHC	0 01	U
319-86-8	delta-BHC	0 01	U
58-89-9	gamma-BHC (Lindane)	0 06	
76-44-8	Heptachlor	0 01	U
309-00-2	Aldrin	0 01	U
1024-57-3	Heptachlor epoxide	0 07	
959-98-8	Endosulfan I	0 01	U
60-57-1	Dieldrin	0 16	
72-55-9	4,4'-DDE	0 14	
72-20-8	Endrin	0 19	
33213-65-9	Endosulfan II	0 02	U
72-54-8	4,4'-DDD	0 02	U
1031-07-8	Endosulfan sulfate	0 15	
50-29-3	4,4'-DDT	0 02	U
72-43-5	Methoxychlor	0 10	U
53494-70-5	Endrin ketone	0 02	U
7421-36-3	Endrin aldehyde	0 02	U
5103-71-9	alpha-Chlordane	0 01	U
12789-03-6	gamma-Chlordane	0 07	
8001-35-2	Toxaphene	1 00	U
12674-11-2	Aroclor-1016	0 20	U
1104-28-2	Aroclor-1221	0 40	U
11141-16-5	Aroclor-1232	0 20	U
53469-21-9	Aroclor-1242	0 20	U
12672-29-6	Aroclor-1248	0 20	U
11097-69-1	Aroclor-1254	0 20	U
11096-82-5	Aroclor-1260	0 20	U

2LCC
LOW CONC WATER PESTICIDE SURROGATE RECOVERY

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

GC Column(1) DB-608 ID 0 53 (mm) GC Column(2) DB-1701 ID 0 53 (mm)

	EPA SAMPLE NO	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK25	65	76	44	57			0
02	PLCS25	47	53	40	45			0
03	EBSK7	78	85	45	49			0
04	EBSK8	79	82	51	52			0
05	EBSK9	79	95	50	62			0
06	EBSL0	76	90	49	60			0
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QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3LCC

LOW CONC WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO

PLCS25

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No. _____ SDG No EBSK7

Lab Sample ID PESL036 LCS Lot No _____

LCS Aliquot 1 (uL) Date Extracted 03/26/98

Concentrated Extract Volume 2000 (uL) Date Analyzed 04/07/98

Injection Volume 2 (uL) Dilution Factor 1

Sulfur Cleanup (Y/N) N

Instrument ID(1) E-HP5890A GC Column(1) DB-608 ID 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	61	61	50-120
Heptachlor epoxide	100	83	83	50-150
Dieldrin	200	143	71	30-130
4 4 -DDE	200	149	75	50-150
Endrin	200	167	88	50-120
Endosulfan sulfate	200	161	81	50-120
gamma-Chlordane	100	72	72	30-130

Instrument ID(2) E-HP5890B GC Column(2) DB-1701 ID 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	66	66	50-120
Heptachlor epoxide	100	80	80	50-150
Dieldrin	200	160	80	30-130
4 4 -DDE	200	144	72	50-150
Endrin	200	199	99	50-120
Endosulfan sulfate	200	154	77	50-120
gamma-Chlordane	100	74	74	30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits
LCS Recovery 0 outside limits out of 14 total

COMMENTS _____

0 0 0 7 9

LOW CONC WATER PESTICIDE METHOD BLANK SUMMARY

PBLK25

Lab Name PDP ANALYTICAL SERVICES Contract 68-D7-0004

Lab Code PDP Case No 26080 SAS No SDG No EBSK7

Date Extracted 03/26/98 Lab Sample ID PESB047

Date Analyzed (1) 04/07/98 Date Analyzed (2) 04/07/98

Time Analyzed (1) 0917 Time Analyzed (2) 0948

Instrument ID (1) E-HP5890A Instrument ID (2) E-HP5890B

GC Column (1) DB-608 ID 0 53 (mm) GC Column (2) DB-1701 ID 0 53 (mm)

Sulfur Cleanup (Y/N) N Extraction (SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS

	EPA SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBSK7	4540 002	04/07/98	04/07/98
02	PLCS25	PESL036	04/07/98	04/07/98
03	EBSK8	4540 003	04/07/98	04/07/98
04	EBSK9	4540 004	04/07/98	04/07/98
05	EBSL0	4540 005	04/07/98	04/07/98
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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22				
23				
24				
25				
26				

COMMENTS

FORM IV LCP OLC02 0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No EPSK7 CERCLIS No IL/22

Case No 26080 Site Name Location Waste Hauling

Contractor or EPA Lab PDP Analytical Sv Data User TEPA

No of Samples 5 waters Date Sampled or Data Received 4-13-98

Have Chain-of-Custody records been received? Yes ✓ No____
Have traffic reports or packing lists been received? Yes ✓ No____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ____ No____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ____ No____
No of samples claimed 5 No of samples received 5

Received by Stephanie Tebin Date 4-13-98

Received by LSSS Stephanie Tebin Date 4-13-98

Review started 4/20/98 Reviewer Signature [signature]

Total time spent on review 7.5 hrs Date review completed 4/21/98

Copied by Lynette Burnett Date 4-24-98

Mailed to user by Lynette Burnett Date 4-24-98

DATA USER
Please fill in the blanks below and return this form to
Sylvia Griffen, Data mgmt Coordinator, Region 5, 5SCRL

Data received by [illegible] Date 6-24-98

Data review received by ____ Date ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS Please indicate reasons why data are not suitable for your uses

Received by Data Mgmt Coordinator for Files Data ____

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No (if applicable):
Case No:

1 Matrix (Enter in Column A)
1 Surface Water
2 Ground Water
3 Leachate
4 Field QC
5 Soil/Sediment
6 Oil (High only)
7 Waste (High only)
8 Other (Specify in Column A)

2 Preservative (Enter in Column D)
1 HCl
2 HNO3
3 NaHSO4
4 H2SO4
5 Ice only
6 Other (Specify in Column D)
N Not preserved

2 Region No: IL-
Sampling Co: IEPA
4 Date Shipped:
Carrier: Fed Ex
6 Date Received: 3/26/98
Received by:
Sampler (Name): B. [illegible]
Airbill Number: [illegible] 75
Laboratory Contract Number: 68-D7-0004
Unit Price: $25 per 100
Sampler Signature:
5 Ship To: PDP - Final
ATTN: Sach[illegible]
7 Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3 Purpose
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, ✓ SI, ESI
Long Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative (from Box 2) / Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K High Phases: Solids	Water Miscible Liq	Water Immis Liq
LBSK7	2	L	G	1	✓				S-078169, 078170	G201	1	MEBES2				
LBSK7	2	L	G	5		✓			S-078171	G201	1	MEBES2				
LBSK7	2	L	G	5			✓		S-078172	G201	1	MEBES2				
LBSK7	2	L	G	1	✓				S-078173, 078174	G201	1	MEBES2				
LBSK7	2	L	G	5		✓			S-078175	G201	1	MEBES2				
LBSK7	2	L	G	5			✓		S-078176	G201	1	MEBES2				
LBSK7	2	L	G	1	✓				S-078177, 078178	G201		MEBES2				
LBSK7	2	L	G	5		✓			S-078179	G201	1	MEBES2				
LBSK7	2	L	G	5			✓		S-078180	G201		MEBES2				

Shipment for Case Complete? (Y/N):
Page: ___ of 1
Sample(s) to be Used for Laboratory QC: 7
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
	3/8/25				
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
			3/26/1		

DISTRIBUTION: Blue Region Copy; White Lab Copy for Return to Region; Pink SMO Copy; Yellow Lab Copy for Return to SMO

EPA Form 9110 2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-0124 REV 3/93

000005

362709

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No (if applicable):
Case No:

1 Matrix (Enter in Column A)
1 Surface Water
2 Ground Water
3 Leachate
4 Field QC
5 Soil/Sediment
6 Oil (High only)
7 Waste (High only)
8 Other (Specify in Column A)

2 Preservative (Enter in Column D)
1 HCl
2 HNO3
3 NaHSO4
4 H2SO4
5 Ice only
6 Other (Specify in Column D)
N Not preserved

2 Region No: IV
Sampling Co: EPA
4 Date Shipped:
Carrier: Fed Ex
6 Date Received: 3/26/88 Received by:
Sampler (Name): Bu Hs
Airbill Number: 1668 4242 45
Laboratory Contract Number: 68-D7-0004
Unit Price: 525.00
Sampler Signature:
5 Ship To:
7 Transfer to:
Date Received:
Received by:
Contract Number:
Price:
ATTN:

3 Purpose
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative (from Box 2) / Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only: ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K High Phases: Solids	Water Miscible Liq	Water Immis Liq
EBSK8	2	L	G	1	✓		✓		5- [illegible]	G202		[illegible]				
EBSK8	2	L	G	5		✓			5- [illegible]	G202		[illegible]				
EBSK8	2	L	G	5			✓		5- [illegible]	G202		[illegible]				
EBSK7	2	L	G	1	✓		✓		5- [illegible]	G203		[illegible]				
EBSK7	2	L	G	5		✓		✓	5- [illegible]	G203		[illegible]				
EBSK9	2	L	G	5		✓	✓		5- [illegible]	G203		[illegible]				
EBSL0	2	L	G	1	✓				5- [illegible]	FB		[illegible]				
EBSL0	2	L	G	5		✓		✓	5- [illegible]	FB		[illegible]				
EBSL0	2	L	G	5		✓	✓		5- [illegible]	FB		[illegible]				
EBSL1	2	L	G	1	✓				5- [illegible]	TB		-- --				

Shipment for Case Complete? (Y/N):
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
	[illegible]				
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
			3/26/88 [illegible]	Cooler [illegible]	

DISTRIBUTION: Blue Region Copy; White Lab Copy for Return to Region; Pink SMO Copy; Yellow Lab Copy for Return to SMO

EPA Form 9110 2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV 3/93

000600

362110

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date MAY 11 1998

Subject Review of Region 5 Data for **WASTE HAULING**

From Charles T Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To

Attached are the results for **WASTE HAULING**
CRL request number **980161**
for analyses for **Cyanide**
Results are reported for sample designations 98OI13S01, 98OI13S02, 98OI13S03 98OI13R01

Results Status

(X) Acceptable for Use **Cyanide**
( ) Data Qualified but Acceptable for use
( ) Data Unacceptable for Use

( ) Sewer Disposal Criteria Met

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits

Comments on Sample Results.

All the cyanide results are acceptable for use

Comments by Laboratory Director or Quality Control Coordinator:

Francis A Awanga 5/8/98
Review and Date (X) Reviewed ( ) Unreviewed

11 May 98
Team Leader and Date (X) Reviewed ( ) Unreviewed

Chuck Ebby 5/11/98
QC Coordinator and Date ( ) Reviewed (X) Unreviewed

Sylvia Griffin MAY 11 1998
Data Management Coordinator and Date Received

Date Transmitted MAY 11 1998

Please sign and date this form below and return it with any comments to

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML 10C

Received by and Date

Comments

TOTAL CYANIDE RESULTS (UG/L) FOR DATA SET 980161

Sample #	Analysis Date	Concentration	Analyst	Date
98OI13S01	4-7-98	8U	J Gary	4-15-98
98OI13S02	4-7-98	8U	J Gary	4-15-98
98OI13S03	4-7-98	8U	J Gary	4-15-98
98OI13R01	4-7-98	8U	J Gary	4-15-98

Fax c/c lak

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date APR 20 1998

Subject Review of Region 5 Data for Waste Hauling Code ZZ

From Charles T Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

RECEIVED
APR 22 1998
IEPA/BOL

To

Attached are the results for Waste Hauling Code ZZ
CRL request number 980161
for analyses for ICP
Results are reported for sample designations 98OI13S01, 98OI13S02 98OI13S03 and 98OI13R01

Results Status
(x) Acceptable for Use
( ) Data Qualified but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

The first instrument blank and the digestion blank results for copper are -6 4 µg/L and -6 8 µg/L respectively whereas the CRL MDL for copper is 6 µg Cu/L It is possible that the copper results are biased low by this amount Results at the detection limit are ±100% by definition, so this was not deemed sufficient cause to reanalyze Vanadium results are all at or below zero in the raw data so the matrix spike recovery of 80%, outside the CRL's acceptance window of 100±15%, is not cause for reanalysis The data may be used as received

Comments by Laboratory Director or Quality Control Coordinator

Review Record for Waste Hauling Code ZZ

17 Apr 98

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

17 Apr 98

Team Leader and Date (✓) Reviewed ( ) Unreviewed

4/17/98

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

APR 20 1998

Data Management Coordinator and Date Received

Date Transmitted APR 20 1998

Please sign and date this form below and return it with any comments to

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON 14 APRIL 98

SAMPLE OGANIZATION IEPA — SAMPLE BATCH ID 980161
SAMPLE REQUESTOR BRUCE EVERETTE — ACCOUNT NO TFA301
LABORATORY ESAT — SAMPLE FACILITY — WASTE HAULING

SAMPLE 98OI13S01 — FIELD 98OI13S01

COLLECTED — RECEIVED 30 MARCH 98 — ANALYZED 13 APRIL 98

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	52	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	134000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	330	(ug/L)
Magnesium	72900	(ug/L)
Manganese	24	(ug/L)
Nickel	20 U	(ug/L)
Potassium	1840	(ug/L)
Silver	6 U	(ug/L)
Sodium	39400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY 4-15-98

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON 14 APRIL 98

SAMPLE OGANIZATION IEPA — SAMPLE BATCH ID 980161
SAMPLE REQUESTOR BRUCE EVERETTE — ACCOUNT NO TFA301
LABORATORY ESAT — SAMPLE FACILITY — WASTE HAULING

SAMPLE 980I13S02 — FIELD 980I13S02

COLLECTED — RECEIVED 30 MARCH 98 — ANALYZED 13 APRIL 98

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	40 4	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	86800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	142	(ug/L)
Magnesium	39600	(ug/L)
Manganese	6 1	(ug/L)
Nickel	20 U	(ug/L)
Potassium	7050	(ug/L)
Silver	6 U	(ug/L)
Sodium	23200	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY RD 4-15-98

Jw 17 Apr-98

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON 14 APRIL 98

SAMPLE OGANIZATION IEPA — SAMPLE BATCH ID 980161
SAMPLE REQUESTOR BRUCE EVERETTE — ACCOUNT NO TFA301
LABORATORY ESAT — SAMPLE FACILITY — WASTE HAULING

SAMPLE 98OI13S03 — FIELD 98OI13S03

COLLECTED — RECEIVED 30 MARCH 98 — ANALYZED 13 APRIL 98

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	42 4	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	88400	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 1	(ug/L)
Iron	142	(ug/L)
Magnesium	40500	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	7050	(ug/L)
Silver	6 U	(ug/L)
Sodium	26000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY RD 4-15-98

Jun 17 Apr-98

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON 14 APRIL 98

SAMPLE OGANIZATION IEPA
SAMPLE REQUESTOR BRUCE EVERETTE
LABORATORY ESAT
SAMPLE FACILITY

SAMPLE BATCH ID 980161
ACCOUNT NO TFA301
WASTE HAULING

SAMPLE 98OI13R01 FIELD 98OI13R01

COLLECTED RECEIVED 30 MARCH 98 ANALYZED 13 APRIL 98

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	500 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY 4-15-98

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date APR 20 1998

Subject Review of Region 5 Data for Waste Hauling Code ZZ

From Charles T Elly Director
Region 5 Central Regional Laboratory

RECEIVED
APR 22 1998
IEPA/BOL

To

Attached are the results for Waste Hauling Code ZZ
CRL request number 980161
for analyses for Antimony, Arsenic, Cadmium Lead Selenium and Thallium
Results are reported for sample designations 98OI13S01 98OI13S02 98OI13S03 and 98OI13R01

Results Status
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met

Comments by Laboratory Director or Quality Control Coordinator

Review Record for Waste Hauling Code ZZ

17 Apr-98

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

17 Apr 98

Team Leader and Date (✓) Reviewed ( ) Unreviewed

4/17/98

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

APR 20 1998

Data Management Coordinator and Date Received

Date Transmitted APR 20 1998

Please sign and date this form below and return it with any comments to

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments

Method Number GFAA Metals
Date Generated April 3, 1998
Author Bai Yuen

Site Name Waste Handling
Charge Number(s) ESE51037
TDF Number 5104-161
WAD Number 05-98-2-04

GFAA NARRATIVE for Data Set 980161

Four water samples, 98OI13S01, S02, S03 and R01 were collected from the Waste Handling site All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA The samples were collected on 03/24/98 and were received properly preserved by the CRL on 03/30/98 All samples were part of data set 980161

All samples were digested following standard CRL GFAA digestion protocols The samples were digested on 03/31/98 All analyses were performed within the six month holding time

Analytical results were stored in DAT files CDBY331 DAT, PBBY331 DAT, TLBY401 DAT and SEBY402 DAT and database file ASSE40198

Arsenic

Data File ASSE40198

Arsenic was analyzed without incident

All QC was within the specified control limits

Cadmium

Data File CDBY331 DAT

Cadmium was analyzed without incident

All QC was within the specified control limits

Lead

Data File PBBY331.DAT

Lead was analyzed without incident

All QC was within the specified control limits

Narrative by _____ ESAT
Date _____

Thallium

Data File TLBY401.DAT

The matrix spike recovery for thallium (116%) was outside the control limits (85-115%) All sample results are less than the IDL and are acceptable

All other QC was within the specified control limits

Selenium

Data Files SEBY402.DAT and ASSE40198

Selenium was analyzed without incident

All QC was within the specified control limits

Acceptable results for arsenic, cadmium, lead, selenium and thallium were obtained for the samples

Narrative by B Yuan ESAT
Date 4/14/98

Data Set	980161	**Site Name**	WASTE HANDLING
Date Generated	04-07-98	**WA Number**	05-98-2-04
Author	Larisa Leonova	**TDF Number**	5104-161
Method Number	3114*B	**Charge Number**	ESE51-037

Hg NARRATIVE for Data Set 980161

Four water samples (98OI13S01-S03 and R01) were submitted for the analysis of total mercury by cold vapor FIAS AA The samples were collected on 03/24/98

All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 03/31/98 The holding time for Hg is 28 days The samples were analyzed on 04/01/98 within the 28 day hold time for mercury

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples The analytical results were stored in DAT file HGLL0401 DAT

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits All sample results were acceptable

L Leonova
4/7/98

Method Number 3114B
Date Generated 04-07-98
TDF Number 5104- 161

SiteName WASTE HANDLING
Charge Number ESE-51-037
Work Assignment Number 05-98-2-04

FIAS NARRATIVE for Data Set 980161

Four water samples from data set 980161 (98OI13S01-S03 and R01) were submitted for the analysis of total antimony by hydride AA The samples were collected on 03/24/98

All samples QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 03-31-98 and were analyzed on 04-02-98 The data for samples from data set 980161 and all required QC were acceptable

The holding time for metals is six months All samples were analyzed within the six month hold time for metals A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples Analytical results for 980161 were stored in DAT file SBLL0402 DAT

Narrative by B L Jones for L L ESAT
Date 4-14-98

SAMPLE RESULTS (ug/L) FOR DATA SET 980161(WATER)

Sample # 98OI13	As	Sb	Cd	Pb	Se	Tl
S01	0 8U	1U	0 2U	2U	2U	2U
S02	0 8U	1U	0 2U	2U	2U	2U
S03	0 8U	1U	0 2U	2U	2U	2U
R01	0 8U	1U	0 2U	2U	1U	2U
Date of Analysis	04-01-98	04-02-98	03-31-98	03-31-98	04-02-98	04-01-98
Analyst	B Yuen	B Yuen	B Yuen	B Yuen	B Yuen	B Yuen
Date	4-14-98	4-14-98	4-14-98	4-14-98	4-14-98	4-14-98

JVA
17 Apr 98

FINAL SAMPLE REPORT FOR Hg
DATA SET 980161
(ug/L)

SAMPLE	DATE	ANALYST	Hg RESULT REPORTED
98OI13S01	04/01/98		0 2 U
98OI13S02	04/01/98		0 2 U
98OI13S03	04/01/98		0 2 U
98OI13R01	04/01/98		0 2 U