Identification of Sample Number.

Sample No	Description of sample
82-CE01 S01	Runoff water at the south end of the building
82-CE01 S02	" " " " " " " " "
82-CE01 S03	" " " " " " " " "
82-CE01 S04	" " " " " " " " "
82-CY01 S08	Tank trailer at the West side of the building
82-CY01 S09	" " " " East " " " "
82-CY01 S10	Sludge tank at the West side of the building
82-CE01 S09	Process tank 3000 gallon capacity.
82-CE01 S10	Rinse Tank 1,000 gallon capacity.
82-CE01 S11	Open drum in process room.
82-CE01 S12	Soil by unloading dock.
82-CE01 S13	Concrete pit in the Western basement of building
82-CE01 S14	Water from Wolf Lake by the Plant

Note: Sample numbers ~~that~~ contain an "R" are reagent blanks, Example 82-CE01 R13

FINAL REPORT

000213

MS DATA FILE FRN: 5213

NAME: CDO-1591: 82-CE01-S01: WT=1000 G; FV=1.1 ML
MISC DATA: 4-30-82 BTL#4 Q5213 D5213

IDFILE FRN: 4000

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

		NAME	CONCENTRATION (PPB)
STANDARD		D-10-PHENANTHRENE	45.0
	1	PHENOL	163.7
	2	2-CHLOROPHENOL	LESS THAN .4
	3	2-NITROPHENOL	LESS THAN 1.0
	4	2,4-DIMETHYLPHENOL	LESS THAN .5
	5	2,4-DICHLOROPHENOL	LESS THAN .5
	6	4-CHLORO-3-METHYLPHENOL	LESS THAN .8
	7	2,4,6-TRICHLOROPHENOL	LESS THAN .8
	8	2,4-DINITROPHENOL	LESS THAN 14.4
	9	4-NITROPHENOL	LESS THAN 2.5
	10	2-METHYL-4,6-DINITROPHENOL	LESS THAN 5.1
	11	PENTACHLOROPHENOL	28.9

FINAL REPORT

MS DATA FILE FRN: 5213

NAME: CDO-1591: 82-CE01-S01: WT=1000 G; FV=1.1 ML
MISC DATA: 4-30-82 BTL#4 Q5213 D5213

IDFILE FRN: 4050

IDFILE NAME: B/N STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

	NAME	CONCENTRATION (PPB)
STANDARD	D-10-PHENANTHRENE	45.0
1	1,3-DICHLOROBENZENE	LESS THAN .3
2	1,4-DICHLOROBENZENE	LESS THAN .3
3	1,2-DICHLOROBENZENE	LESS THAN .3
4	N-NITROSODIPROPYL AMINE	LESS THAN .6
5	HEXACHLOROETHANE	LESS THAN 1.1
6	NITROBENZENE	LESS THAN .5
7	ISOPHORONE	345.2
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN .2
9	1,2,4-TRICHLOROBENZENE	LESS THAN .4
10	NAPHTHALENE	15.5
11	HEXACHLOROBUTADIENE	LESS THAN 30.3
12	2-CHLORONAPHTHALENE	LESS THAN .2
13	ACENAPHTHYLENE	LESS THAN .2
14	DIMETHYLPHTHALATE	58.4
15	2,6-DINITROTOLUENE	LESS THAN 1.2
16	ACENAPHTHENE	1.5
17	2,4-DINITROTOLUENE	LESS THAN 1.2
18	FLUORENE	LESS THAN .3
19	DIETHYLPHTHALATE	LESS THAN .3
20	1,2-DIPHENYLHYDRAZINE	LESS THAN .3
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN .7
22	HEXACHLOROBENZENE	LESS THAN .5
23	PHENANTHRENE	4.4
24	ANTHRACENE	LESS THAN .3
25	DI-N-BUTYLPHTHALATE	5.0
26	FLUORANTHENE	.7
27	PYRENE	LESS THAN .2
28	BUTYLBENZYLPHTHALATE	LESS THAN 1.0
29	CHRYSENE	LESS THAN 1.1
30	BENZO(A)ANTHRACENE	LESS THAN .9
31	BIS(2-ETHYLHEXYL)PHTHALATE	82.6
32	BENZO(A)PYRENE	LESS THAN .4
33	DIBENZO(A,H)ANTHRACENE	LESS THAN .5
34	D-5-NITROBENZENE (SUR. SPIKE)	108.2 (67.8 % RECOVERY)
35	D-8-NAPHTHALENE (SURRO. SPIKE)	100.8 (69.4 % RECOVERY)

*IDFILE SCAN COMPLETE

FINAL REPORT

000215

MS DATA FILE FRN: 5533

NAME: LAB BLANK 04/23/82
MISC DATA: NO VE 80-220 5M 8C/M 25M 1% SP-1000

IDFILE FRN: 20012

IDFILE NAME: SED/VOA ON SP-1000
MISC DATA: FT BIONETICS RTW30

	NAME	CONCENTRATION (PPB)
STANDARD	2-BROMO-1-CHLOROPROPANE	20.0
1	DICHLOROMETHANE	LESS THAN 1.0
2	TRICHLOROFLUOROMETHANE	LESS THAN 1.0
3	1,1-DICHLOROETHENE	LESS THAN 1.0
4	1,1-DICHLOROETHANE	LESS THAN 1.0
5	1,2-DICHLOROETHENE	LESS THAN 1.0
6	TRICHLOROMETHANE	LESS THAN 1.0
7	1,2-DICHLOROETHANE	LESS THAN 1.0
8	1,1,1-TRICHLOROETHANE	LESS THAN 1.0
9	TETRACHLOROMETHANE	LESS THAN 1.0
10	BROMODICHLOROMETHANE	LESS THAN 1.0
11	1,2-DICHLOROPROPANE	LESS THAN 1.0
12	1,3-DICHLORO-1-PROPENE (TRANS)	LESS THAN 1.0
13	TRICHLOROETHENE	LESS THAN 1.0
14	DIBROMOCHLOROMETHANE	LESS THAN 1.0
15	BENZENE	LESS THAN 1.0
16	1,1,2-TRICHLOROETHANE	LESS THAN 1.0
17	1,3-DICHLORO-1-PROPENE (CIS)	LESS THAN 1.0
18	TRIBROMOMETHANE	LESS THAN 1.0
19	1,1,2,2-TETRACHLOROETHANE	LESS THAN 1.0
20	TETRACHLOROETHYLENE	LESS THAN 1.0
21	METHYLBENZENE	LESS THAN 1.0
22	CHLOROBENZENE	LESS THAN 1.0
23	ETHYLBENZENE	LESS THAN 1.0
24	1,3-DIMETHYLBENZENE	LESS THAN 1.0
25	1,2- & 1,4-DIMETHYL BENZENE	LESS THAN 1.0

*IDFILE SCAN COMPLETE

000216

FINAL REPORT

MS DATA FILE FRN: 5537

NAME: 82-CE01S02A CDO-1591 INSTD 100 PPB
MISC DATA: NO VE 80-220 5M 8C/M 22M 1% SP-1000

IDFILE FRN: 20012

IDFILE NAME: SED/VOA ON SP-1000
MISC DATA: FT BIONETICS RTW30

	NAME	CONCENTRATION (PPB)
STANDARD	2-BROMO-1-CHLOROPROPANE	100.0
1	DICHLOROMETHANE	85.3
2	TRICHLOROFLUOROMETHANE	LESS THAN 1.0
3	1,1-DICHLOROETHENE	LESS THAN 1.0
4	1,1-DICHLOROETHANE	4.5
5	1,2-DICHLOROETHENE	13.0
6	TRICHLOROMETHANE	3.6
7	1,2-DICHLOROETHANE	LESS THAN 1.0
8	1,1,1-TRICHLOROETHANE	24.9
9	TETRACHLOROMETHANE	LESS THAN 1.0
10	BROMODICHLOROMETHANE	LESS THAN 1.0
11	1,2-DICHLOROPROPANE	LESS THAN 1.0
12	1,3-DICHLORO-1-PROPENE (TRANS)	LESS THAN 1.0
13	TRICHLOROETHENE	27.3
14	DIBROMOCHLOROMETHANE	LESS THAN 1.0
15	BENZENE	10.1
16	1,1,2-TRICHLOROETHANE	LESS THAN 1.0
17	1,3-DICHLORO-1-PROPENE (CIS)	LESS THAN 1.0
18	TRIBROMOMETHANE	LESS THAN 1.0
19	1,1,2,2-TETRACHLOROETHANE	LESS THAN 1.0
20	TETRACHLOROETHYLENE	14.9
21	METHYLBENZENE	109.6
22	CHLOROBENZENE	28.0
23	ETHYLBENZENE	14.1
24	1,3-DIMETHYLBENZENE	84.3
25	1,2- & 1,4-DIMETHYL BENZENE	61.3

*IDFILE SCAN COMPLETE

FINAL REPORT

MS DATA FILE FRN: 5536

000217

NAME: 82-CE01S03A CDO-1591 INSTD 100PPB 04/23/82
MISC DATA: NO VE 60-220 5M 8C/M 25M 1% SP-1000

IDFILE FRN: 20012

IDFILE NAME: SED/VOA ON SP-1000
MISC DATA: FT BIONETICS RTW30

		NAME	CONCENTRATION (PPB)
STANDARD		2-BROMO-1-CHLOROPROPANE	100.0
	1	DICHLOROMETHANE	64.6
	2	TRICHLOROFLUOROMETHANE	LESS THAN 1.0
	3	1,1-DICHLOROETHENE	LESS THAN 1.0
	4	1,1-DICHLOROETHANE	3.9
	5	1,2-DICHLOROETHENE	6.5
	6	TRICHLOROMETHANE	3.0
	7	1,2-DICHLOROETHANE	LESS THAN 1.0
	8	1,1,1-TRICHLOROETHANE	12.5
	9	TETRACHLOROMETHANE	LESS THAN 1.0
	10	BROMODICHLOROMETHANE	LESS THAN 1.0
	11	1,2-DICHLOROPROPANE	LESS THAN 1.0
	12	1,3-DICHLORO-1-PROPENE (TRANS)	LESS THAN 1.0
	13	TRICHLOROETHENE	15.5
	14	DIBROMOCHLOROMETHANE	LESS THAN 1.0
	15	BENZENE	8.8
	16	1,1,2-TRICHLOROETHANE	LESS THAN 1.0
	17	1,3-DICHLORO-1-PROPENE (CIS)	LESS THAN 1.0
	18	TRIBROMOMETHANE	LESS THAN 1.0
	19	1,1,2,2-TETRACHLOROETHANE	LESS THAN 1.0
	20	TETRACHLOROETHYLENE	8.7
	21	METHYLBENZENE	41.1
	22	CHLOROBENZENE	12.1
	23	ETHYLBENZENE	2.5
	24	1,3-DIMETHYLBENZENE	53.5
	25	1,2- & 1,4-DIMETHYL BENZENE	38.4

NUMBER OF SAMPLE(s) TO BE REPORTED : 7
RECNM= 17

000218

JVA 29 Apr 82 MAK 4/30/82

DL1:[001,054]RUN345.BRN 29-APR-82 16:25:16 PAGE 1

DATA SET : CD01591

ELEMENT		CE01S04		CE01R05
AG	µg/L	3.00	<	3.00
AL		1790.	<	80.0
B		1570.	<	80.0
BA		900.	<	5.00
BE		1.00	<	1.00
CD		32.1	<	2.00
CO		41.7	<	6.00
CR		275.	<	8.00
CU		258.	<	5.00
FE		12400.	<	80.0
LI		326.	<	10.0
MN		979.	<	5.00
MO		876.	<	10.0
NI		75.6	<	15.0
PB		1130.	<	70.0
SN		40.0	<	40.0
SR		680.	<	10.0
TI		128.	<	25.0
V		5.00	<	5.00
Y		5.00	<	5.00
ZN		2640.	<	40.0
CA	mg/L	113.	<	0.500
K		47.6	<	1.00
MG		37.3	<	0.100
NA		311.	<	1.00

000239

Jun 29 Apr 82

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

JOB/BRANCH CDC 1591 SAMPLING DATE 4/22/82 LAB ARRIVAL DATE 4/22/82 DUE DATE 4/29/82

NUMBER B212 DATASET NUMBER 1591 STUDY COLUMBIA TC WINNINGER PRIORITY 1 CONTRACTOR

UG N	SAMPLE DESCRIPTION	TOTAL METALS IN WATER SE UG/L MET1211	TOTAL METALS IN WATER TL UG/L MET1421	TOTAL METALS IN WATER V UG/L MET1231	TOTAL METALS IN WATER ZN UG/L MET1281
01564	TAG# 5-3164	✓ K2			
01565	TAG# 5-3165	✓ K2			
		~~K~~ 4/28/82			

MAH
4/30/82

000220

Jun 29 Apr 82

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAMS METALS

DIVISION/BRANCH CDD SAMPLING DATE 4/22/82 LAB ARRIVAL DATE 4/22/82 DUE DATE 4/24/82

NUMBER 15212 DATASET NUMBER 1591 STUDY CALUMET CONTAINER PRIORITY 1 CONTRACTOR N

LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS IN WATER AS UG/L METI01	TOTAL METALS IN WATER CA MG/L METI12	TOTAL METALS IN WATER CD UG/L METI41	TOTAL METALS IN WATER CU UG/L METI91	TOTAL METALS IN WATER CR UG/L METI01
E01504	TAG # 5-3104	✓ 4.9				
E01505	TAG # 5-3105	✓ K2				
		4/28/82				

MAK 4/30/82

0000321

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM METALS

Cont-by

DIVISION/BRANCH CDC SAMPLING DATE 4/23/82 LAB ARRIVAL DATE 4/23/82 DUE DATE 5/7/82

DU NUMBER 12212 DATASET NUMBER 1600 STUDY CALUMET CONTAINER PRIORITY _____ CONTRACTOR _____

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS IN WATER AS UG/L MET1101	TOTAL METALS IN WATER CA MG/L MET172	TOTAL METALS IN WATER CR UG/L MET191	TOTAL METALS IN WATER CU UG/L MET191	TOTAL METALS IN WATER CN UG/L MET3101
82CY01R07	5-12712	✓170				
82CY01S08	5-12716	✓540 390				
82CY01S09	5-12713	✓190. 56.				
82CY01S10	5-12714	✓290 140				
		* *				
		GK 5/5/82				
		* Blank not subtracted				
		* Blank subtracted				

NUMBER OF SAMPLE(S) TO BE REPORTED : 6

JVM 5 May 82

0000322

BLANK NOT SUBTRACTED

DL1:[001,054]RUN346.BRN 04-MAY-82 14:37:09 PAGE 1

DATA SET : CDO.1600

ELEMENT	CY01R07	CY01S08	CY01S10
AG µg/L	30.	30.	38.
AL	830.		17000.
B	[illegible]	9400.	1300.
BA	50.	2800.	5800.
BE	680.	730.	830.
CD	47.	380.	1100.
[illegible]	440.	840.	1500.
CR	120.	3600.	24000.
CU	250.	2000.	1900.
[illegible]	330.		25000.
[illegible]	100.	1100.	150.
[illegible]	[illegible]	5500.	2000.
MO	100.	2300.	570.
NI	180.	1200.	500.
PB	200.	13000.	23000.
SN	300.	4700.	550.
SR	100.	5900.	510.
TI	[illegible]	15000.	2200.
V	530.	1500.	770.
[illegible]	50.	220.	50.
[illegible]	430.	18000.	51000.
SR mg/L	5.		43.
[illegible]		7700.	
[illegible]	10.	570.	31.
MG	1.	240.	17.
NA	10.	870.	430.
AL		300.	
FE		320.	
ZN			

Samples diluted 10mL → 100mL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: May 27, 1982

SUBJECT: Analytical Results of Calumet Container Samples - Data Set: CDO-1600

000233

FROM: Curtis Ross, Director
Central Regional Laboratory

TO: Gerald Regan, Chief
Central District Office

Attached are the results of the analyses of the subject samples. These samples were analyzed for Polychlorinated biphenyls (PCBs) by GC/EC chromatography. These results indicate that PCBs were not present in any of the samples. However, because of matrix effect, the limits of detection for the PCBs were higher than normal. In order to determine the nature of the interfering material and to confirm the analytical results of the GC/EC analysis, the samples were re-analyzed by GC/MS chromatography. The results of the GC/MS analysis confirmed the GC/EC results and revealed that the interfering materials were phthalate esters, aliphatic hydrocarbons, and polynuclear aromatic hydrocarbons.

If you have any questions regarding these results, please contact Gilbert Frye at (FTS) 353-8370.

Attachment

cc: Robert Bowden
Spill Response Section

CENTRAL DISTRICT OFFICE

Sampling Date 25 4 82 (Day Month Year) Lab Arrival Date (Day Month Year) Analysis Date (Day Month Year)

Account No. B 212 Study Calumet Contaiv

Data Set 1600

All units are micrograms per liter or milligrams per kilogram

Water •	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Dibutyl Phthalate	Diethyl Hexyl Phthalate	Total PCB	IN SEDIMEN
CDO Sample Log Number									39112	39102		
Sediment •	39491	39495	39499	39503	39507	39511						
82CY01R07											K50	
508			K50	K50	K50	K50						
509												
510												

TCJ 5-14-82
GF 5/28/82

12716
12713
12714

4 samples to be shipped with organic + inorganic labs for analysis.

Note: The tags were lost from these samples and [illegible] George Madrigal identified the proper label (353-2316) [illegible]

Raw and filtered [illegible] for PCBs

No sediment collected

• Mark out set of parameter numbers not used.

U.S. Government Printing Office . 1973-430-483/5124

Two weeks Turn around

Warning May be high levels

000224

CENTRAL DISTRICT OFFICE

Sampling Date: 23 4 82 (Day Month Year) Lab Arrl Date: (Day Month Year)

Account No. B 212 Study Calvert Cliffs

Data Set 1600

All units are micrograms per liter or milligrams per kilogram

Water • / CDO Sample Log Number	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Dibutyl Phthalate	Diethyl Hexyl Phthalate	Total PCB	IN OIL LAYER
Sediment •	39491	39495	39499	39503	39507	39511			39112	39102		
82CY01R07												
12716 S08			K120	K120	K60	K60					K120	
12713 S09										TCJ	5-14-82	
12714 S10										CF	5/28/82	

4 sample to be shipped with organic + inorganic laboratory analysis.

Note: The tags were lost from these samples and [illegible] George Madrey identified the proper label (353-2316) 4 [illegible]

Run on [illegible] for PCBs

No [illegible] collected

• Mark out set of parameter numbers not used.

U.S. Government Printing Office . 1973-430-483/2134

000225

Two weeks Turn around

Warning May be high

Cuthroy

CENTRAL DISTRICT OFFICE

Data Set 1600

Sampling Date 23 4 82 (Day Month Year) Lab Arrival Date 23 4 82 (Day Month Year) Analysis Due Date — (Day Month)

Account No. B 212 Study Calvert Cliffs

All units are micrograms per liter or milligrams per kilogram

Water • CDO Sample Log Number	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Dibutyl Phthalate	Diethyl Hexyl Phthalate	Total PCB -	IN AQUEOUS PHASE
Sediment •	39491	39495	39499	39503	39507	39511			39112	39102		
82CY01R07			K.1	K.1	K.1	K.1					✓ K.1	
12716 S08			K120	K120	K120	K120					✓ K120	
12713 S09			K220	K220	K220	K220					✓ K220	
12714 S10			K8000	K8000	K8000	K8000					✓ K8000	
								TCJ	5-14-82			
								GF	5/28/82			

4 samples to be sent with organic + inorganic labs for analysis.

Note: The tags were lost from these samples and George Madry identified the proper label (353-2316)

Raw sw Wick. Tag Lost

No Sample collected for PCBs

* Mark out set of parameter numbers not used.

U.S. Government Printing Office : 1979-630-483/2126

Two weeks Turn around

Warning May be high

000236

JVM
5 May 82

000227

BLANK NOT SUBTRACTED

DATA SET : CDO:1600

ELEMENT	CY01S09
AG	55.
AL	12000.
B	1200.
BA	3300.
BE	750.
CD	710.
CO	980.
CR	17000.
CU	1600.
FE	44000.
[illegible]	130.
[illegible]	1300.
MO	280.
NI	1700.
PB	10000.
SN	[illegible]
SR	[illegible]
TI	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

µg/L

mg/L

Sample diluted 11 mL → 100 mL

[illegible] ARRAYS :

JVM 5May82

All elements blank subtracted 000225
with average of digested field and lab blanks

		CY01508	CY01509	CY01510
Ag	µg/L	<30	.71	48
Al		300000	12000	16000
B		9200	1000	1100
Ba		2700	3300	5700
Be		51	130	160
Cd		330	660	1100
Co		420	590	1100
Cr		8500	17000	24000
Cu		1800	1400	1700
Fe		320000	43000	25000
Li		1100	130	160
Mn		5200	1100	1700
Mo		2300	560	540
Ni		1000	1500	310
Pb		13000	10000	23000
Sn		4600	410	540
Sr		6900	140	530
Ti		15000	470	2200
V		880	130	130
Y		230	<45	<50
Zn		17000	17000	50000
Ca	mg/L	7700	28	42
K		590	15	32
Mg		240	9.0	17
Na		870	700	430

ORGANIC ANALYSIS: DATA SET CDO-1614 CALUMET CONTAINER SAMPLES COLLECTED MAY, 1982

CRL SAMPLE NUMBER 82-CE01S09

(UNITS ARE UG/L)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
METHYL PHENOL	6800
METHYL NAPHTHALENE	5300
HYDROCARBONS (23)	322000.
Unidentified Compound (Spectrum 908)	15000

*IDFILE SCAN COMPLETE

FINAL REPORT

000230

MS DATA FILE FRN: 9013

NAME: 82-CE01S09 CDO-1614 CAL.CONT.CORP. WAT F.V=500 VOL=0.221L
MISC DATA: 05/20/82 BTL#3 Q9013 D9013

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

	NAME	CONCENTRATION (UG/L)
STANDARD	D10-PHENANTHRENE	92760.0
1	1,3-DICHLOROBENZENE	LESS THAN 82.3
2	1,4-DICHLOROBENZENE	LESS THAN 82.1
3	1,2-DICHLOROBENZENE	LESS THAN 82.4
4	HEXACHLOROETHANE	LESS THAN 175.3
5	N-NITROSODIPROPYL AMINE	LESS THAN 123.4
6	NITROBENZENE	LESS THAN 82.2
7	ISOPHORONE	200.0
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN 41.5
9	1,2,4-TRICHLOROBENZENE	LESS THAN 82.2
10	NAPHTHALENE	1200.0
11	HEXACHLOROBUTADIENE	LESS THAN 241.4
12	2-CHLORONAPHTHALENE	LESS THAN 41.7
13	ACENAPHTHYLENE	600
14	DIMETHYLPHTHALATE	LESS THAN 51.8
15	2,6-DINITROTOLUENE	LESS THAN 245.2
16	ACENAPHTHENE	LESS THAN 92.1
17	2,4-DINITROTOLUENE	LESS THAN 98.8
18	FLUORENE	LESS THAN 82.2
19	DIETHYLPHTHALATE	LESS THAN 92.5
20	1,2-DIPHENYLHYDRAZINE	LESS THAN 82.4
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN 114.9
22	HEXACHLOROBENZENE	LESS THAN 103.9
23	PHENANTHRENE	LESS THAN 123.2
24	ANTHRACENE	LESS THAN 133.3
25	DI-N-BUTYLPHTHALATE	LESS THAN 82.6
26	FLUORANTHENE	LESS THAN 82.6
27	PYRENE	LESS THAN 92.6
28	BUTYLBENZYLPHTHALATE	LESS THAN 110.4
29	CHRYSENE	LESS THAN 82.5
30	BENZO(A)ANTHRACENE	LESS THAN 102.1
31	BIS(2-ETHYLHEXYL)PHTHALATE	LESS THAN 98.1
32	BENZO(A)PYRENE	LESS THAN 205.6
33	DIBENZO(A,H)ANTHRACENE	LESS THAN 219.4
34	D5-NITROBENZENE (SURR. SPIKE)	LESS THAN 84.7
35	D8-NAPHTHALENE (SURR. SPIKE)	LESS THAN 82.0

*IDFILE SCAN COMPLETE

FINAL REPORT

000231

MS DATA FILE FRN: 9013

NAME: 82-CE01S09 CDO-1614 CAL.CONT.CORP. WAT F.V=500 VOL=0.221L
MISC DATA: 05/20/82 BTL#3 Q9013 D9013

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

	NAME	CONCENTRATION (UG/L)
STANDARD	D-10-PHENANTHRENE	92760.0
1	2-CHLOROPHENOL	LESS THAN 123.6
2	PHENOL	14400.0
3	2-NITROPHENOL	LESS THAN 253.3
4	2,4-DIMETHYLPHENOL	LESS THAN 137.1
5	2,4-DICHLOROPHENOL	LESS THAN 241.6
6	4-CHLORO-3-METHYLPHENOL	LESS THAN 367.1
7	2,4,6-TRICHLOROPHENOL	LESS THAN 407.0
8	2,4-DINITROPHENOL	LESS THAN 513.7
9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 551.3
10	4-NITROPHENOL	LESS THAN 613.5
11	PENTACHLOROPHENOL	LESS THAN 556.0

*IDFILE SCAN COMPLETE

000232

FINAL REPORT

MS DATA FILE FRN: 9012

NAME: 82-CE01R09 CDO-1614 CAL.CONT.CORP. WAT F.V=2
MISC DATA: 05/20/82 BTL#2 Q9012 D9012

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

	NAME	CONCENTRATION (PPB X 0.1)
STANDARD	D10-PHENANTHRENE	410.0
1	1,3-DICHLOROBENZENE	LESS THAN 1.2
2	1,4-DICHLOROBENZENE	LESS THAN 1.1
3	1,2-DICHLOROBENZENE	LESS THAN 1.2
4	HEXACHLOROETHANE	LESS THAN 2.5
5	N-NITROSODIPROPYL AMINE	LESS THAN 1.4
6	NITROBENZENE	LESS THAN 1.3
7	ISOPHORONE	LESS THAN .6
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN 1.0
9	1,2,4-TRICHLOROBENZENE	LESS THAN 1.3
10	NAPHTHALENE	LESS THAN .5
11	HEXACHLOROBUTADIENE	LESS THAN 11.6
12	2-CHLORONAPHTHALENE	LESS THAN 1.0
13	ACENAPHTHYLENE	LESS THAN .8
14	DIMETHYLPHTHALATE	LESS THAN 1.0
15	2,6-DINITROTOLUENE	LESS THAN 28.6
16	ACENAPHTHENE	LESS THAN 1.2
17	2,4-DINITROTOLUENE	LESS THAN 6.2
18	FLUORENE	LESS THAN 1.5
19	DIETHYLPHTHALATE	LESS THAN 1.5
20	1,2-DIPHENYLHYDRAZINE	LESS THAN 1.5
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN 3.7
22	HEXACHLOROBENZENE	LESS THAN 3.2
23	PHENANTHRENE	LESS THAN 2.8
24	ANTHRACENE	LESS THAN 2.9
25	DI-N-BUTYLPHTHALATE	LESS THAN 1.7
26	FLUORANTHENE	LESS THAN 2.3
27	PYRENE	LESS THAN 1.8
28	BUTYLBENZYLPHTHALATE	LESS THAN 7.4
29	CHRYSENE	LESS THAN 3.4
30	BENZO(A)ANTHRACENE	LESS THAN 2.9
31	BIS(2-ETHYLHEXYL)PHTHALATE	LESS THAN 5.4
32	BENZO(A)PYRENE	LESS THAN 5.3
33	DIBENZO(A,H)ANTHRACENE	LESS THAN 8.3
34	D5-NITROBENZENE (SURR. SPIKE)	LESS THAN 2.9
35	D8-NAPHTHALENE (SURR. SPIKE)	LESS THAN 1.1

FINAL REPORT

000233

MS DATA FILE FRN: 9012

NAME: 82-CE01R09 CDO-1614 CAL.CONT.CORP. WAT F.V=2
MISC DATA: 05/20/82 BTL#2 Q9012 D9012

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

		NAME	CONCENTRATION (PPB)
STANDARD		D-10-PHENANTHRENE	41.0
	1	2-CHLOROPHENOL	LESS THAN .1
	2	PHENOL	LESS THAN .1
	3	2-NITROPHENOL	LESS THAN .3
	4	2,4-DIMETHYLPHENOL	LESS THAN .2
	5	2,4-DICHLOROPHENOL	LESS THAN .2
	6	4-CHLORO-3-METHYLPHENOL	LESS THAN .4
	7	2,4,6-TRICHLOROPHENOL	LESS THAN .4
	8	2,4-DINITROPHENOL	LESS THAN 5.4
	9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 1.4
	10	4-NITROPHENOL	LESS THAN 1.7
	11	PENTACHLOROPHENOL	LESS THAN .8

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH CDL SAMPLING DATE 5/4/82 LAB ARRIVAL DATE 5/5/82 DUE DATE 5/26/82

OU NUMBER [illegible] DATASET NUMBER 1614 STUDY [illegible] PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN74010	WATER CYANIDE UG CN/L MIN74919	WATER GROSS ALPHA P CI/L MIN75020
[illegible]		✓ 7,100	✓ 19,000	
[illegible]		✓ 3,000	✓ 1,200	
[illegible]		✓ KS	✓ KS	
[illegible]		KL	KL	
[illegible]		5/19/82	5/20/82	

Mak
5/21/82
Transmitted

ENVIRONMENTAL PROTECTION AGENCY, REGION BASIC DATA FORM

Division/Branch CDD 1614 Sampling Date 4 5 82 Arrival Date 5 5 82 Analysis Due Date 26 5
Day Month Year Day Month Year

D.U. Number Y905 Study

CALUMET CONTAINER CO.
HAMMOND, INDIANA.

Lab Sample No.	Oil & Grease	mg/L	MG/KG				
82CB							PROCESS TANK 3,000 GAL. CAP.
01S09	✓	17,300					RINSE TANK 1,000 GAL. CAP.
01S10	✓	300					1/2 GALLON REAGENT BLANK
01R08	✓	KS					OPEN DRUM IN PROCESS ROOM
01S11	✓	71,100					SOIL BY UNLOADING DOCK
01S12	✓		196,400	WET WT.			1 QUART REAGENT BLANK
01R11	✓	KS	RHS 5-19-82				
		RHS 5-19-82					
		GFS 5/19/82					
		Mah 5/20/82					

Samples to be stored with inorganic lab, for analysis. Need receiving room 1029 signature.

000235

000236

5/26/82 CM

Jun 26 May 82

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH CDD SAMPLING DATE 5/4/82 LAB ARRIVAL DATE 5/5/82 DUE DATE 5/26/82

PRIORITY N CONTRACTOR N

DIV NUMBER 7305 DATASET NUMBER 1614 STUDY CHLORINATED PENTANES

CHL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS IN WATER AS UG/L MET161	TOTAL METALS IN WATER CA MG/L MET172	TOTAL METALS IN WATER CD UG/L MET181	TOTAL METALS IN WATER CO UG/L MET191	TOTAL METALS IN WATER CR UG/L MET1101
2CCC1509		✓ K200	✓	✓		
2CCC1510		✓ K20	✓	✓		
2CCC1R11		✓ not provided	✓	✓		
		CK 5/25/82				
			MAP 6/1/82			
			Transmitted by MAP		6/1/82	

JVM 26May82

000237

DATA SET : CDO:1614

ELEMENT		CE01S09
AG	µg/L	456.
AL		53400.
BA		11800.
BE	<	100.
CD		1870.
CO		2440.
CR		37500.
CU		28300.
FE		75100.
LI	<	1000.
MN		1730.
NI		3510.
PB		56100.
SN		11900.
SR	<	1000.
TI		5430.
V		811.
Y	<	500.
ZN		45200.
CA	mg/L	90.6
K		4020.
MG		16.2
NA		17000.

ORGANIC ANALYSIS: DATA SET CDO-1614 CALUMET CONTAINER SAMPLES COLLECTED MAY, 1982

CRL SAMPLE NUMBER 82-CE01S10

(UNITS ARE UG/L)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
2-BUTOXYETHANOL	8100
1-METHYL-2-PYRROLIDINONE	430
BENZENEMETHANOL	120
HEXANOIC ACID	130
2-ETHYL HEXANOIC ACID	10000
1,3-ISOBENZOFURANDIONE	540
HYDROCARBONS (15)	7200

*IDFILE SCAN COMPLETE

FINAL REPORT

000239

MS DATA FILE FRN: 9015

NAME: 82-CE01S10 CDO-1614 CAL.CONT.CORP.WAT F.V=6.25 VOL=0.1782L
MISC DATA: 05/20/82 BTL#6 Q9016 D9016

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

	NAME	CONCENTRATION (UG/L)
STANDARD	D10-PHENANTHRENE	1438.0
1	1,3-DICHLOROBENZENE	LESS THAN .2
2	1,4-DICHLOROBENZENE	LESS THAN .2
3	1,2-DICHLOROBENZENE	LESS THAN .2
4	HEXACHLOROETHANE	LESS THAN .4
5	N-NITROSODIPROPYL AMINE	LESS THAN .3
6	NITROBENZENE	LESS THAN .2
7	ISOPHORONE	1110.0
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN .1
9	1,2,4-TRICHLOROBENZENE	LESS THAN .2
10	NAPHTHALENE	41.0
11	HEXACHLOROBUTADIENE	LESS THAN 20.1
12	2-CHLORONAPHTHALENE	LESS THAN .1
13	ACENAPHTHYLENE	10.0
14	DIMETHYLPHTHALATE	LESS THAN .2
15	2,6-DINITROTOLUENE	LESS THAN 20.4
16	ACENAPHTHENE	LESS THAN .2
17	2,4-DINITROTOLUENE	LESS THAN .7
18	FLUORENE	LESS THAN .2
19	DIETHYLPHTHALATE	LESS THAN .2
20	1,2-DIPHENYLHYDRAZINE	LESS THAN .2
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN .4
22	HEXACHLOROBENZENE	LESS THAN .3
23	PHENANTHRENE	LESS THAN .3
24	ANTHRACENE	LESS THAN .3
25	DI-N-BUTYLPHTHALATE	40.0
26	FLUORANTHENE	LESS THAN .2
27	PYRENE	LESS THAN .2
28	BUTYLBENZYLPHTHALATE	LESS THAN .9
29	CHRYSENE	LESS THAN .2
30	BENZO(A)ANTHRACENE	LESS THAN .2
31	BIS(2-ETHYLHEXYL)PHTHALATE	160.0
32	BENZO(A)PYRENE	LESS THAN .5
33	DIBENZO(A,H)ANTHRACENE	LESS THAN .8
34	D5-NITROBENZENE (SURR. SPIKE)	LESS THAN .4
35	D8-NAPHTHALENE (SURR. SPIKE)	LESS THAN .2

*IDFILE SCAN COMPLETE

FINAL REPORT

0002-0

MS DATA FILE FRN: 9015

NAME: 82-CE01S10 CDO-1614 CAL.CONT.CORP. WAT F.V=6.25 VOL=0.1782L
MISC DATA: 05/20/82 BTL05 G9015 D9015

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

	NAME	CONCENTRATION (UG/L)
STANDARD	D-10-PHENANTHRENE	1438.0
1	2-CHLOROPHENOL	LESS THAN 2.0
2	PHENOL	503.7
3	2-NITROPHENOL	LESS THAN 4.4
4	2,4-DIMETHYLPHENOL	LESS THAN 3.1
5	2,4-DICHLOROPHENOL	LESS THAN 3.5
6	4-CHLORO-3-METHYLPHENOL	LESS THAN 5.6
7	2,4,6-TRICHLOROPHENOL	LESS THAN 6.4
8	2,4-DINITROPHENOL	LESS THAN 84.4
9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 20.9
10	4-NITROPHENOL	LESS THAN 26.1
11	PENTACHLOROPHENOL	150.8

5/26/82 cg

000241

Jun 26 May 82
MAR 6/1/82
Transmitted MAR 6/1/82

DL1:[001,054]RN348A.BRN 26-MAY-82 10:22:53 PAGE 1

DATA SET : CDO.1614

ELEMENT		CE01S10
AG	µg/L <	30.0
AL		5190.
BA		725.
BE	<	10.0
CD		201.
CO		258.
CR		3900.
CU		2380.
FE		8000.
LI		247.
MN		360.
NI		326.
PB		4370.
SN		402.
SR		514.
TI		564.
V		504.
Y	<	50.0
ZN		9060.
CA	mg/L	49.2
K		305.
MG		39.4
NA		1680.

ORGANIC ANALYSIS: DATA SET CDO-1614 CALUMET CONTAINER SAMPLES COLLECTED MAY,1982

CRL SAMPLE NUMBER 82-CE01911

(UNITS ARE UG/L)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
2-BUTOXYETHANOL	15000
4-METHYL PHENOL	2700
UNKNOWN (SPEC#174)	2800
2-BUTOXY-ETHOXY ETHANOL	5200
HYDROCARBONS (9)	124000.

*IDFILE SCAN COMPLETE

FINAL REPORT

000243

MS DATA FILE FRN: 9024

NAME: 82-CE01S11 CDO-1614 CAL.CONT.CORP. WAT F.V=25.0 VOL=0.0426L
MISC DATA: 05/20/82 BTL#1 Q9024 D9024

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

		NAME	CONCENTRATION (UG/L)
STANDARD		D10-PHENANTHRENE	24061.0
	1	1,3-DICHLOROBENZENE	LESS THAN 23.3
	2	1,4-DICHLOROBENZENE	LESS THAN 23.3
	3	1,2-DICHLOROBENZENE	LESS THAN 23.3
	4	HEXACHLOROETHANE	LESS THAN 29.7
	5	N-NITROSODIPROPYL AMINE	LESS THAN 19.4
	6	NITROBENZENE	LESS THAN 20.3
	7	ISOPHORONE	80.0
	8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN 25.2
	9	1,2,4-TRICHLOROBENZENE	LESS THAN 24.3
	10	NAPHTHALENE	440.0
	11	HEXACHLOROBUTADIENE	LESS THAN 130.6
	12	2-CHLORONAPHTHALENE	LESS THAN 32.2
	13	ACENAPHTHYLENE	90.0
	14	DIMETHYLPHTHALATE	LESS THAN 29.2
	15	2,6-DINITROTOLUENE	LESS THAN 131.1
	16	ACENAPHTHENE	LESS THAN 24.0
	17	2,4-DINITROTOLUENE	LESS THAN 31.1
	18	FLUORENE	LESS THAN 34.3
	19	DIETHYLPHTHALATE	180.0
	20	1,2-DIPHENYLHYDRAZINE	LESS THAN 42.3
	21	4-BROMOPHENYLPHENYL ETHER	LESS THAN 43.6
	22	HEXACHLOROBENZENE	LESS THAN 35.5
	23	PHENANTHRENE	LESS THAN 46.4
	24	ANTHRACENE	LESS THAN 27.4
	25	DI-N-BUTYLPHTHALATE	330.0
	26	FLUORANTHENE	LESS THAN 28.3
	27	PYRENE	LESS THAN 31.3
	28	BUTYLBENZYLPHTHALATE	3600.0
	29	CHRYSENE	LESS THAN 36.3
	30	BENZO(A)ANTHRACENE	LESS THAN 33.3
	31	BIS(2-ETHYLHEXYL)PHTHALATE	3200.0
	32	BENZO(A)PYRENE	LESS THAN 25.7
	33	DIBENZO(A,H)ANTHRACENE	LESS THAN 24.2
	34	D5-NITROBENZENE (SURR. SPIKE)	LESS THAN 22.6
	35	D8-NAPHTHALENE (SURR. SPIKE)	LESS THAN 21.2

*IDFILE SCAN COMPLETE

FINAL REPORT

MS DATA FILE FRN: 9024

000244

NAME: 82-CE81S11 CDO-1614 CAL.CONT.CORP. WAT F.V=25.0 VOL=0.0426L
MISC DATA: 05/20/82 BTL#1 Q9024 D9024

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

	NAME	CONCENTRATION (UG/L)
STANDARD	D-10-PHENANTHRENE	24061.0
1	2-CHLOROPHENOL	LESS THAN 33.0
2	PHENOL	4200.0
3	2-NITROPHENOL	LESS THAN 76.8
4	2,4-DIMETHYLPHENOL	LESS THAN 44.7
5	2,4-DICHLOROPHENOL	LESS THAN 55.3
6	4-CHLORO-3-METHYLPHENOL	LESS THAN 68.5
7	2,4,6-TRICHLOROPHENOL	LESS THAN 109.8
8	2,4-DINITROPHENOL	LESS THAN 128.7
9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 131.9
10	4-NITROPHENOL	LESS THAN 139.8
11	PENTACHLOROPHENOL	LESS THAN 119.8

#IDFIRE SCAN COMPLETE

FINAL REPORT

000245

MS DATA FILE FRN: 9002

NAME: 82-CE01 R11 CDO-1614 CAL.CONT.CORP.SED FV=2
MISC DATA: 5/19/82 BTL#2 Q9002 D9002

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

		NAME	CONCENTRATION (PPM)
STANDARD		D10-PHENANTHRENE	41.0
	1	1,3-DICHLOROBENZENE	LESS THAN .1
	2	1,4-DICHLOROBENZENE	LESS THAN .1
	3	1,2-DICHLOROBENZENE	LESS THAN .1
	4	HEXACHLOROETHANE	LESS THAN .2
	5	N-NITROSODIPROPYL AMINE	LESS THAN .1
	6	NITROBENZENE	LESS THAN .1
	7	ISOPHORONE	LESS THAN .1
	8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN .1
	9	1,2,4-TRICHLOROBENZENE	LESS THAN .1
	10	NAPHTHALENE	LESS THAN .1
	11	HEXACHLOROBUTADIENE	LESS THAN 4.2
	12	2-CHLORONAPHTHALENE	LESS THAN .1
	13	ACENAPHTHYLENE	LESS THAN .1
	14	DIMETHYLPHTHALATE	LESS THAN .1
	15	2,6-DINITROTOLUENE	LESS THAN 1.6
	16	ACENAPHTHENE	LESS THAN .1
	17	2,4-DINITROTOLUENE	LESS THAN .5
	18	FLUORENE	LESS THAN .1
	19	DIETHYLPHTHALATE	.2
	20	1,2-DIPHENYLHYDRAZINE	LESS THAN .1
	21	4-BROMOPHENYLPHENYL ETHER	LESS THAN .3
	22	HEXACHLOROBENZENE	LESS THAN .3
	23	PHENANTHRENE	LESS THAN .2
	24	ANTHRACENE	LESS THAN .2
	25	DI-N-BUTYLPHTHALATE	LESS THAN .1
	26	FLUORANTHENE	LESS THAN .2
	27	PYRENE	LESS THAN .1
	28	BUTYLBENZYLPHTHALATE	LESS THAN .6
	29	CHRYSENE	LESS THAN .3
	30	BENZO(A)ANTHRACENE	LESS THAN .2
	31	BIS(2-ETHYLHEXYL)PHTHALATE	6.8
	32	BENZO(A)PYRENE	LESS THAN .4
	33	DIBENZO(A,H)ANTHRACENE	LESS THAN .6
	34	D5-NITROBENZENE (SURR. SPIKE)	81.1
	35	D8-NAPHTHALENE (SURR. SPIKE)	79.5

FINAL REPORT

000246

MS DATA FILE FRN: 9002

NAME: 82-CE01 R11 CDO-1614 CAL.CONT.CORP.SED FV=2
MISC DATA: 5/19/82 BTL#2 Q9002 D9002

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

	NAME	CONCENTRATION (PPM)
STANDARD	D-10-PHENANTHRENE	41.0
1	2-CHLOROPHENOL	LESS THAN .1
2	PHENOL	LESS THAN .1
3	2-NITROPHENOL	LESS THAN .2
4	2,4-DIMETHYLPHENOL	LESS THAN .2
5	2,4-DICHLOROPHENOL	LESS THAN .2
6	4-CHLORO-3-METHYLPHENOL	LESS THAN .6
7	2,4,6-TRICHLOROPHENOL	LESS THAN .4
8	2,4-DINITROPHENOL	LESS THAN 3.6
9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 1.0
10	4-NITROPHENOL	LESS THAN 8.5
11	PENTACHLOROPHENOL	LESS THAN .8

5/21/82 [illegible]

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH CDC SAMPLING DATE 5/4/82 LAB ARRIVAL DATE 5/5/82 DUE DATE 5/26/82

DU NUMBER N905 DATASET NUMBER 1614 STUDY Chemical Cleanance PRIORITY ~ CONTRACTOR ~

CRL LOG NUMBER	SAMPLE DESCRIPTION	SEDIMENTS SOLIDS CHEMICAL OXYGEN DEMAND MG COD/KG (DRY) MIN43327 /	SEDIMENTS SOLIDS MERCURY MG HG/KG (DRY) MIN44728	SEDIMENTS SOLIDS PHENOLICS MG PHENOL/KG (WET) MIN44829	SEDIMENTS SOLIDS CYANIDE MG CN/KG (WET) MIN44930
82CCC1511				* —	—
82CCC1512				135 (mg/kg)	9.3 (mg/kg)
82CCC1R11				KS (ug/l)	KS (ug/l)
				* OIL SAMPLE, Distilled	CAN'T be KS

Jn 26 Hg, Fe

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

VISION/BRANCH CPU SAMPLING DATE 5/4/82 LAB ARRIVAL DATE 5/5/82 DUE DATE 5/26/82

NUMBER B212 DATASET NUMBER 1614 STUDY CALUMET CONTAINER PRIORITY ~ CONTRACTOR ~

L LOG MBER	SAMPLE DESCRIPTION	SEDIMENTS SOLID S TOTAL ICAP Fe, Cu MG/KG (DRY WT.) MET413	SEDIMENTS SOLID S TOTAL AA MG/KG (DRY WT.) MET423	SEDIMENTS SOLID S AG MG/KG (DRY WT.) MET443	SEDIMENTS SOLID S AS wet MG/KG ~~(DRY WT.)~~ MET463	SEDIMENTS SOLID S CD MG/KG (DRY WT.) MET483
CC1511		✓			✓ K0.4	
CC1512		✓			✓ 2.2	
CC1R11		✓			✓ K0.2	
					5/24/82	
					SWK 6/1/82	
					Transmitted by	MAP 6/1/82

JVM 26 May 82

DATA SET : CD01614

ELEMENT		CE01S11 (soil)
AG	µg/g (wet)	0.53
AL		150.
B		11.
BA		71.
BE	<	0.10
CD		3.2
CO		3.8
CR		43.
CU		84.
FE		380.
LI	<	1.0
MN		7.9
MO		17.
NI		10.
PB		140.
SN		8.3
SR		2.2
TI		18.
V	<	0.50
Y	<	0.50
ZN		140.
CA	mg/g (wet)	0.19
K		2.0
MG		0.06
NA		6.4

*IDFICE SCAN COMPLETE

FINAL REPORT

000250

MS DATA FILE FRN: 9006

NAME: 82-CE01S12 CDO-1614 CAL CONT CORP SED FV=150 WT=10G
MISC DATA: 05/19/82 BTL#6 Q9006 D9006

IDFILE FRN: 22346

IDFILE NAME: B/N STD BATCH SE-54 LIU GC
MISC DATA: 05/25/82

	NAME	CONCENTRATION (MG/KG)
STANDARD	D10-PHENANTHRENE	615.0
1	1,3-DICHLOROBENZENE	LESS THAN 1.5
2	1,4-DICHLOROBENZENE	LESS THAN 1.5
3	1,2-DICHLOROBENZENE	LESS THAN 1.5
4	HEXACHLOROETHANE	LESS THAN 3.0
5	N-NITROSODIPROPYL AMINE	LESS THAN 1.5
6	NITROBENZENE	LESS THAN 1.5
7	ISOPHORONE	208.0
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN 1.5
9	1,2,4-TRICHLOROBENZENE	LESS THAN 1.5
10	NAPHTHALENE	61.5
11	HEXACHLOROBUTADIENE	LESS THAN 6.3
12	2-CHLORONAPHTHALENE	LESS THAN 1.5
13	ACENAPHTHYLENE	LESS THAN 1.5
14	DIMETHYLPHTHALATE	LESS THAN 1.5
15	2,6-DINITROTOLUENE	LESS THAN 3.3
16	ACENAPHTHENE	LESS THAN 6.0
17	2,4-DINITROTOLUENE	LESS THAN 9.6
18	FLUORENE	LESS THAN 1.5
19	DIETHYLPHTHALATE	LESS THAN 1.5
20	1,2-DIPHENYLHYDRAZINE	LESS THAN 1.5
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN 4.3
22	HEXACHLOROBENZENE	LESS THAN 4.3
23	PHENANTHRENE	LESS THAN 4.3
24	ANTHRACENE	LESS THAN 4.3
25	DI-N-BUTYLPHTHALATE	8,835.0
26	FLUORANTHENE	LESS THAN 3.2
27	PYRENE	686
28	BUTYLBENZYLPHTHALATE	LESS THAN 10.7
29	CHRYSENE	LESS THAN 4.3
30	BENZO(A)ANTHRACENE	LESS THAN 4.3
31	BIS(2-ETHYLHEXYL)PHTHALATE	LESS THAN 6.4
32	BENZO(A)PYRENE	LESS THAN 7.5
33	DIBENZO(A,H)ANTHRACENE	LESS THAN 10.7
34	D5-NITROBENZENE (SURR. SPIKE)	LESS THAN 4.3
35	D8-NAPHTHALENE (SURR. SPIKE)	LESS THAN 1.5

*IDFILE SCAN COMPLETE

FINAL REPORT

000251

MS DATA FILE FRN: 9006

NAME: 82-CE01S12 CDO-1614 CAL CONT CORP SED FV=150 WT=10G
MISC DATA: 05/19/82 BTL#6 Q9006 D9006

IDFILE FRN: 12345

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-5-82

	NAME	CONCENTRATION (MG/KG)
STANDARD	D-10-PHENANTHRENE	615.0
1	2-CHLOROPHENOL	LESS THAN 1.7
2	PHENOL	LESS THAN 1.4
3	2-NITROPHENOL	LESS THAN 3.8
4	2,4-DIMETHYLPHENOL	LESS THAN 2.7
5	2,4-DICHLOROPHENOL	LESS THAN 3.0
6	4-CHLORO-3-METHYLPHENOL	LESS THAN 4.8
7	2,4,6-TRICHLOROPHENOL	LESS THAN 5.6
8	2,4-DINITROPHENOL	LESS THAN 73.2
9	2-METHYL-4,6-DINITROPHENOL	LESS THAN 18.1
10	4-NITROPHENOL	LESS THAN 22.6
11	PENTACHLOROPHENOL	LESS THAN 11.3

ORGANIC ANALYSIS: DATA SET CDO-1614, CALUMET CONTAINER
SAMPLES COLLECTED MAY, 1982

CRL SAMPLE NUMBER 82-CE01S12

(UNITS ARE MG/KG)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
2,6-BIS(1,1-DIMETHYL ETHYL)-4-METHYL PHENOL	520
NONYL PHENOLS (ISOMERS)	190
METHYL PHENANTHRENE	340
DIMETHYL PHENANTHRENE	100
2,6-BIS(1,1-DIMETHYL-4-METHYL) PHENOL	200
UNKNOWN (SPEC#805)	250
2,3,5-TRIMETHYL PHENANTHRENE	52
1-METHYLPYRENE	500
UNKNOWN (SPEC#910)	470
HYDROCARBONS (5)	1700
UNKNOWN (SPEC#722)	670
UNKNOWN (SPEC#776)	330
UNKNOWN (SPEC#979)	260

NUMBER OF SAMPLE(s) TO BE REPORTED : 4
RECNM= 13

5/26/82-CZ MAK 6/1/82

000253

JVM 26May82
Transmitted by MAP 6/1/82

DL1:[001,054]RUN347.BRN 26-MAY-82 12:44:15 PAGE 1

DATA SET : CD1614

ELEMENT		CE01S12
AG	µg/g (wet)	2.1
B		62.
BA		4500.
BE		0.53
CD		130.
CO		110.
CR		4800.
CU		900.
LI		20.
MN		930.
MO		360.
NI		400.
PB		21000.
SN		77.
SR		680.
TI		2200.
V		7.8
Y		< 2.0
CA	mg/g (wet)	11.
K		1.2
MG		3.4
NA		4.0
AL		9.8
FE		84.
ZN		9.4

5/21/82 Y CEF

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH CPO SAMPLING DATE 5/12/82 LAB ARRIVAL DATE 5/11/82 DUE DATE 6/1/82

DU NUMBER V905 DATASET NUMBER 1618 STUDY CALLIGHT CONTAINER PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN74818	WATER CYANIDE UG CN/L MIN74919	WATER GROSS ALPHA P CI/L MIN75020
82CE01513	5-3098	✓ 4,000	✓ 540	
82CE01514	5-3099	✓ 11	✓ KS	
82CE01515	5-3100	✓ KS	✓ KS	
		KL	KL	
		5/19/82	5/20/82	

MAK 5/21/82 Transmitted

5/26/82 - C114 ,

Jan 26 Rept -

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH CDD SAMPLING DATE 5/10/82 LAB ARRIVAL DATE 5/11/82 DUE DATE 6/1/82

SU NUMBER Y405 DATASET NUMBER 1618 STUDY CALLIMET CONTAINER PRIORITY N CONTRACTOR N

RL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS IN WATER AS UG/L MET161	TOTAL METALS IN WATER CA MG/L MET172	TOTAL METALS IN WATER CD UG/L MET181	TOTAL METALS IN WATER CO UG/L MET191	TOTAL METALS IN WATER CR UG/L MET1101
EU1513	5-3098	✓ 36. S/m/b	✓			✓
EU1514	5-3099	✓ K20 S/m	✓			✓
EU1R13	5-3100	✓ K2 S/m/b	✓			✓
		EK				
		MAL 6/1/82				
		Transmitted by MAP		6/1/82		

ENVIRONMENTAL PROTECTION AGENCY, REGION V — DATA FORM

District Office CDO-1618 Sampling Date 5/10/82 (Day Month Year) Lab Arrival Date 5/11/82 (Day Month Year) Analysis Due Date 6/1/82 (Day Month)

Account No. _____ Study CALUMET CONTAINE HAMMOND, IND.

82-0043

All units are micrograms per liter or milligrams per kilogram

* Lab Sample Log Number	Water *	39488 Aroclor 1221	39492 Aroclor 1232	39496 Aroclor 1242	39500 Aroclor 1248	39504 Aroclor 1254	39508 Aroclor 1260	Aroclor 1262	Aroclor 1268	39110 Dibutyl Phthalate	39100 Diethyl Hexyl Phthalate		
	Sediment *	39491	39495	39499	39503	39507	39511			39112	39102		
1	82CE0/#13			K98	K25	K10	K10						
2	↓ R13			K.4	K.1	K.1	K.1						
3													
4													
5													
6													
7													
8													
9											THK	6/1/82	
10											CF	6/10/82	
11											[illegible]	6/11/82	
12											[illegible]	[illegible]	
13													
14													
15													
16													
17													
18													
19													
20													

* Mark out set of parameter numbers not used.

U.S. Government Printing Office 1973-630-402/2126

000256

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC DATA FORM

DIVISION/BRANCH CDO-1618 Sampling Date 5/10/82 (Day Month Year) Arrival Date 5/11/82 (Day Month Year) Analysis Due Date 6/1/82 (Day Month Year)

D.U. NUMBER 82G043 UNITS: ug/L Study CALUMET CONTAINE HAMMOND, IND.

Cal Sample Log Number / Units	TRIFLURALIN	HCB	LINDANE	HEPTACHLOR	ALDRIN	ZYTRON	ISODRIN	HEPTACHLOR EPOXIDE	GAMA CHLORDANE	GAMA OP-DDE	PP-DDE	DIELDRIN	OP-DDD	OPDDT	PP-DDD	PP-DDT	METHOXY CHLOR	MIREX
182CE0,5/3	–	K2	K3	K5	K19	–	K.4	K5	–	K1	K34	K16	–	K6	K78		–	–
2 R/3	K.1	–	–	K.1	–	K.5	–	K.1	–	K.1	–	K.3	–	K.8	K1	–	–	–
3																		
4																		
5																		
6																		
7																		
8																	THK	6/1/82
9																	CF	6/10/82
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

FINAL REPORT

MS DATA FILE FRN: 5252

NAME: CDO-1618; 82-CE01R13; WT= 133 G; FV= 2 ML
MISC DATA: 5-26-82 BTL#3 05252 D5252

IDFILE FRN: 4000

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

		NAME	CONCENTRATION (PPB)
STANDARD		D-10-PHENANTHRENE	617.0
	1	PHENOL	LESS THAN 1.4
	2	2-CHLOROPHENOL	LESS THAN 1.4
	3	2-NITROPHENOL	LESS THAN 4.8
	4	2,4-DIMETHYLPHENOL	LESS THAN 2.1
	5	2,4-DICHLOROPHENOL	LESS THAN 2.3
	6	4-CHLORO-3-METHYLPHENOL	LESS THAN 3.3
	7	2,4,6-TRICHLOROPHENOL	LESS THAN 4.5
	8	2,4-DINITROPHENOL	LESS THAN 233.8
	9	4-NITROPHENOL	LESS THAN 18.9
	10	2-METHYL-4,6-DINITROPHENOL	LESS THAN 50.6
	11	PENTACHLOROPHENOL	LESS THAN 14.4
	12	2-FLUOROPHENOL (SUR. SPIKE)	LESS THAN 1.4
	13	PENTAFLUOROPHENOL (SUR. SPIKE)	LESS THAN 4.1

FINAL REPORT

MS DATA FILE FRN: 5252

NAME: CDO-1618; 82-CE01R13; WT= 133 G; FV= 2 ML
MISC DATA: 5-26-82 BTL#3 Q5252 D5252

IDFILE FRN: 4050

IDFILE NAME: B/N STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

		NAME	CONCENTRATION (PPB)
STANDARD		D-10-PHENANTHRENE	617.0
	1	1,3-DICHLOROBENZENE	LESS THAN .8
	2	1,4-DICHLOROBENZENE	LESS THAN .8
	3	1,2-DICHLOROBENZENE	LESS THAN .9
	4	N-NITROSODIPROPYL AMINE	LESS THAN 1.4
	5	HEXACHLOROETHANE	LESS THAN 2.7
	6	NITROBENZENE	LESS THAN 1.0
	7	ISOPHORONE	LESS THAN .6
	8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN .7
	9	1,2,4-TRICHLOROBENZENE	LESS THAN 1.0
	10	NAPHTHALENE	LESS THAN .6
	11	HEXACHLOROBUTADIENE	LESS THAN 133.6
	12	2-CHLORONAPHTHALENE	LESS THAN .8
	13	ACENAPHTHYLENE	LESS THAN .6
	14	DIMETHYLPHTHALATE	LESS THAN .9
	15	2,6-DINITROTOLUENE	LESS THAN 4.7
	16	ACENAPHTHENE	LESS THAN .9
	17	2,4-DINITROTOLUENE	LESS THAN 5.9
	18	FLUORENE	LESS THAN 1.2
	19	DIETHYLPHTHALATE	LESS THAN 1.3
	20	1,2-DIPHENYLHYDRAZINE	LESS THAN 1.3
	21	4-BROMOPHENYLPHENYL ETHER	LESS THAN 3.8
	22	HEXACHLOROBENZENE	LESS THAN 3.0
	23	PHENANTHRENE	LESS THAN 2.8
	24	ANTHRACENE	LESS THAN 2.8
	25	DI-N-BUTYLPHTHALATE	11.8
	26	FLUORANTHENE	LESS THAN 4.9
	27	PYRENE	LESS THAN 20.3
	28	BUTYLBENZYLPHTHALATE	LESS THAN 32.3
	29	CHRYSENE	LESS THAN 41.6
	30	BENZO(A)ANTHRACENE	LESS THAN 6.2
	31	BIS(2-ETHYLHEXYL)PHTHALATE	141.7
	32	BENZO(A)PYRENE	LESS THAN 2.8
	33	DIBENZO(A,H)ANTHRACENE	LESS THAN 3.4
	34	D-5-NITROBENZENE (SUR. SPIKE)	LESS THAN .9
	35	D-8-NAPHTHALENE (SURRO. SPIKE)	LESS THAN .5

CDO-161P CALUMET CONTAMIN
OTHER B/N/A EXTRACTABLE ORGANICS

CRL SAMPLE NUMBER [illegible]

(UNITS ARE UG/L)

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONCENTRATION
BENZENE, 2-(DI[illegible]YLAMINO)-	[illegible]
[illegible], DI(METHYLENE[illegible])	150[illegible]
CYCLOHEXANONE, 3,3,5-TRIMETHYL-	110[illegible]
METHYLPHENOL	940
PHENOL, 3-(1,1-DIMETHYLETHYL)- & UNKNOWN	2000
UNKNOWN	800
UNKNOWN	1100

FINAL REPORT

000261

MS DATA FILE FRN: 5253

NAME: CDO-1618: 82-CE01S13; WT= 278 G; FV= 50 ML
MISC DATA: 5-26-82 BTL#4 Q5253 D5253

IDFILE FRN: 4000

IDFILE NAME: ACID STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

		NAME	CONCENTRATION (PPB X 100)	Concentration (PPB)
STANDARD		D-10-PHENANTHRENE	74.0	7400
	1	PHENOL	28.6	2560
	2	2-CHLOROPHENOL	LESS THAN .2	
	3	2-NITROPHENOL	LESS THAN .6	
	4	2,4-DIMETHYLPHENOL	LESS THAN .3	
	5	2,4-DICHLOROPHENOL	.3	
	6	4-CHLORO-3-METHYLPHENOL	LESS THAN .4	30
	7	2,4,6-TRICHLOROPHENOL	LESS THAN .6	
	8	2,4-DINITROPHENOL	LESS THAN 28.9	
	9	4-NITROPHENOL	LESS THAN 2.3	
	10	2-METHYL-4,6-DINITROPHENOL	LESS THAN 6.2	
	11	PENTACHLOROPHENOL	LESS THAN 1.8	
	12	2-FLUOROPHENOL (SUR. SPIKE)	LESS THAN .2	
	13	PENTAFLUOROPHENOL (SUR. SPIKE)	LESS THAN .5	

FINAL REPORT

MS DATA FILE FRN: 5253

000262

NAME: CDO-1618: 82-CE01S13: WT= 275 G; FV= 50 ML
MISC DATA: 5-26-82 BTL#4 Q5253 D5253

IDFILE FRN: 4050

IDFILE NAME: B/N STD: BATCH; SE-54; LIU GC
MISC DATA: 5-4-82

	NAME	CONCENTRATION (PPB X 100)	Concentration (PPB)
STANDARD	D-10-PHENANTHRENE	74.0	7400
1	1,3-DICHLOROBENZENE	LESS THAN .1	
2	1,4-DICHLOROBENZENE	LESS THAN .1	
3	1,2-DICHLOROBENZENE	LESS THAN .1	
4	N-NITROSODIPROPYL AMINE	LESS THAN .2	
5	HEXACHLOROETHANE	LESS THAN .3	
6	NITROBENZENE	LESS THAN .1	
7	ISOPHORONE	LESS THAN .1	
8	BIS(2-CHLOROETHOXY)METHANE	LESS THAN .1	
9	1,2,4-TRICHLOROBENZENE	LESS THAN .1	
10	NAPHTHALENE	.3	30
11	HEXACHLOROBUTADIENE	LESS THAN 16.5	
12	2-CHLORONAPHTHALENE	LESS THAN .1	
13	ACENAPHTHYLENE	LESS THAN .1	
14	DIMETHYLPHTHALATE	LESS THAN .1	
15	2,6-DINITROTOLUENE	LESS THAN .7	
16	ACENAPHTHENE	LESS THAN .1	
17	2,4-DINITROTOLUENE	LESS THAN .7	
18	FLUORENE	LESS THAN .2	
19	DIETHYLPHTHALATE	LESS THAN .2	
20	1,2-DIPHENYLHYDRAZINE	LESS THAN .2	
21	4-BROMOPHENYLPHENYL ETHER	LESS THAN .5	
22	HEXACHLOROBENZENE	LESS THAN .4	
23	PHENANTHRENE	LESS THAN .3	
24	ANTHRACENE	LESS THAN .3	
25	DI-N-BUTYLPHTHALATE	1.1	110
26	FLUORANTHENE	LESS THAN .6	
27	PYRENE	LESS THAN 2.5	
28	BUTYLBENZYLPHTHALATE	LESS THAN 4.0	
29	CHRYSENE	LESS THAN 5.1	
30	BENZO(A)ANTHRACENE	LESS THAN .8	
31	BIS(2-ETHYLHEXYL)PHTHALATE	150.4	15040
32	BENZO(A)PYRENE	LESS THAN .3	
33	DIBENZO(A,H)ANTHRACENE	LESS THAN .4	
34	D-5-NITROBENZENE (SUR. SPIKE)	LESS THAN .1	
35	D-8-NAPHTHALENE (SURRO. SPIKE)	LESS THAN .1	

5/26/82 CM

MAK 6/1/82 QCW

Jun 26 May 82

transmitted by MAP 6/1/82

DATA SET : CDO.1618

ELEMENT		CE01S13
AG	µg/L <	30.0
AL		10100.
BA		439.
BE	<	10.0
CD		39.7
CO		164.
CR		1670.
CU		808.
FE		14000.
LI		227.
MN		668.
NI		301.
PB		2010.
SN	<	400.
SR		788.
TI		715.
V		229.
Y	<	50.0
ZN		6770.
CA	mg/L	94.3
K		289.
MG		29.5
NA		1580.

Jun 26 May 82

DATA SET : CD01618

ELEMENT		CE01R13		CE01S14
AG	µg/L	< 3.00	<	3.00
AL		< 80.		316.
BA		< 5.0		68.9
BE		< 1.00	<	1.00
CD		< 2.00	<	2.00
CO		< 6.00	<	6.00
CR		< 8.00		8.16
CU		< 6.00		9.16
FE		< 80.		579.
LI		< 10.0		73.6
MN		< 5.		194.
NI		< 15.0	<	15.0
PB		< 70.0	<	70.0
SN		< 40.0	<	40.0
SR		< 10.		279.
TI		< 30.0		36.0
V		< 5.00		5.84
Y		< 5.00	<	5.00
ZN		< 40.0		75.1
CA	mg/L	< 0.5		45.4
K		< 1.0		14.8
MG		< 0.10		9.57
NA		< 1.0		69.9

000265

RECEIVED
JUL 21 1982
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