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DATE: 2-3-95

TO: WAM: Greg Powell

FROM: Y. Lin, REAC Organic Lab Group Leader

SUBJECT: Preliminary results of Project Pier Drum, WA#0- 098

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.: 10027, 3672, 3671, 3663, 3670

Analyses: BNA

No. of Samples: 11/3

Matrix: Water/soil

cc: Central File
M. Barkley
Task Leader: R. Lewis
Analyst: J. Ji

Preliminary Analytical Report Summary
Pier Drum WA#0-098
BNA Analysis
February 2, 1995

Between 1/13/95 and 1/18/95, REAC received 11 water and 3 soil samples from the Pier Drum site on chains of custody 10027, 3672, 3671, 3663 and 3670.

The samples were basically clean. There was some phthalate contamination (including the blanks); it probably can be attributed to lab artifacts. There were two samples(B00526 and BE00527) contained low level of benzyl alcohol.

Surrogate recoveries were great except WBLK011895 had two recovered lower than CLP limits and have been confirmed.

Two pairs of MS/MSD for water and one pair for soil were quite good.

The initial calibration had diethylphthlate (31.079 %RSD); the continuing calibration had hexachlorobutadiene (38.32 %diff) and hexachlorobenzene (26.92 %diff) for 1/27/95, hexachlorobutadiene (26.99 %diff) and hexachlorocyclopentadiene (34.84 %diff) for 1/30/95, hexachlorobutadiene (34.48 %diff) for 1/31/95, hexachlorobutadiene (38.75 %diff) and 2,4-dinitrophenol (32.37 %diff), out of CLP limits. There are no hits for those compounds in any sample. The results are not affected.

NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	WBLK011995	B00525	B00526	BE00527
FILE :	^PD001	^PD002	^PD003	^PD004
LOCATION :	--	A00642	A00643	A00644
COLLECTED :	--	01/18/95	01/18/95	01/18/95
EXTRACTED :	01/19/95	01/19/95	01/19/95	01/19/95
ANALYZED :	01/27/95	01/27/95	01/27/95	01/27/95
INJECTED :	18:59	19:56	20:54	21:52
MATRIX :	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.3	1.1	1.6
UNITS :	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
Phenol	ND	10	ND	13	ND	11	ND	16
bis(-2-Chloroethyl)Ether	ND	10	ND	13	ND	11	ND	16
2-Chlorophenol	ND	10	ND	13	ND	11	ND	16
1,3-Dichlorobenzene	ND	10	ND	13	ND	11	ND	16
1,4-Dichlorobenzene	ND	10	ND	13	ND	11	ND	16
Benzyl alcohol	ND	10	16	13	17	11	15(J)	16
1,2-Dichlorobenzene	ND	10	ND	13	ND	11	ND	16
2-Methylphenol	ND	10	ND	13	ND	11	ND	16
bis(2-Chloroisopropyl)ether	ND	10	ND	13	ND	11	ND	16
4-Methylphenol	ND	10	ND	13	ND	11	ND	16
N-Nitroso-Di-n-propylamine	ND	10	ND	13	ND	11	ND	16
Hexachloroethane	ND	10	ND	13	ND	11	ND	16
Nitrobenzene	ND	10	ND	13	ND	11	ND	16
Isophorone	ND	10	ND	13	ND	11	ND	16
2-Nitrophenol	ND	10	ND	13	ND	11	ND	16
2,4-Dimethylphenol	ND	10	ND	13	ND	11	ND	16
bis(2-Chloroethoxy)methane	ND	10	ND	13	ND	11	ND	16
2,4-Dichlorophenol	ND	10	ND	13	ND	11	ND	16
1,2,4-Trichlorobenzene	ND	10	ND	13	ND	11	ND	16
Naphthalene	ND	10	ND	13	ND	11	ND	16
4-Chloroaniline	ND	10	ND	13	ND	11	ND	16
Hexachlorobutadiene	ND	10	ND	13	ND	11	ND	16
4-Chloro-3-methylphenol	ND	10	ND	13	ND	11	ND	16
2-Methylnaphthalene	ND	10	ND	13	ND	11	ND	16
Hexachlorocyclopentadiene	ND	10	ND	13	ND	11	ND	16
2,4,6-Trichlorophenol	ND	10	ND	13	ND	11	ND	16
2,4,5-Trichlorophenol	ND	50	ND	63	ND	54	ND	82
2-Chloronaphthalene	ND	10	ND	13	ND	11	ND	16
2-Nitroaniline	ND	50	ND	63	ND	54	ND	82
Dimethylphthalate	ND	10	ND	13	ND	11	ND	16
Acenaphthylene	ND	10	ND	13	ND	11	ND	16
3-Nitroaniline	ND	50	ND	63	ND	54	ND	82
Acenaphthene	ND	10	ND	13	ND	11	ND	16
2,4-Dinitrophenol	ND	50	ND	63	ND	54	ND	82

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IS UNSUBSTANTI
DATA SHOULD BE US
WITH DISCRETION.

(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	WBLK011995	B00525	B00526	BE00527
FILE :	^PD001	^PD002	^PD003	^PD004
LOCATION :	--	A00642	A00643	A00644
COLLECTED :	--	01/18/95	01/18/95	01/18/95
EXTRACTED :	01/19/95	01/19/95	01/19/95	01/19/95
ANALYZED :	01/27/95	01/27/95	01/27/95	01/27/95
INJECTED :	18:59	19:56	20:54	21:52
MATRIX :	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.3	1.1	1.6
UNITS :	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
4-Nitrophenol	ND	50	ND	63	ND	54	ND	82
Dibenzofuran	ND	10	ND	13	ND	11	ND	16
2,6-Dinitrotoluene	ND	10	ND	13	ND	11	ND	16
2,4-Dinitrotoluene	ND	10	ND	13	ND	11	ND	16
Diethylphthalate	ND	10	5(J)	13	2(J)	11	ND	16
4-Chlorophenyl-phenylether	ND	10	ND	13	ND	11	ND	16
Fluorene	ND	10	ND	13	ND	11	ND	16
4-Nitroaniline	ND	50	ND	63	ND	54	ND	82
4,6-Dinitro-2-methylphenol	ND	50	ND	63	ND	54	ND	82
N-Nitrosodiphenylamine	ND	10	ND	13	ND	11	ND	16
4-Bromophenyl-phenylether	ND	10	ND	13	ND	11	ND	16
Hexachlorobenzene	ND	10	ND	13	ND	11	ND	16
Pentachlorophenol	ND	50	ND	63	ND	54	ND	82
Phenanthrene	ND	10	ND	13	ND	11	ND	16
Anthracene	ND	10	ND	13	ND	11	ND	16
Carbazole	ND	10	ND	13	ND	11	ND	16
Di-n-butylphthalate	46	10	56(B)	13	45(B)	11	91(B)	16
Fluoranthene	ND	10	ND	13	ND	11	ND	16
Pyrene	ND	10	ND	13	ND	11	ND	16
Butylbenzylphthalate	5(J)	10	ND	13	4(J,B)	11	2(J,B)	16
3,3'-Dichlorobenzidine	ND	50	ND	63	ND	54	ND	82
Benzo(a)anthracene	ND	10	ND	13	ND	11	ND	16
Bis(2-Ethylhexyl)phthalate	11	10	12(J,B)	13	11(B)	11	15(J,B)	16
Chrysene	ND	10	ND	13	ND	11	ND	16
Di-n-octylphthalate	ND	10	ND	13	ND	11	ND	16
Benzo(b)fluoranthene	ND	10	ND	13	ND	11	ND	16
Benzo(k)fluoranthene	ND	10	ND	13	ND	11	ND	16
Benzo(a)pyrene	ND	10	ND	13	ND	11	ND	16
Indeno(1,2,3-cd)pyrene	ND	10	ND	13	ND	11	ND	16
Dibenzo(a,h)anthracene	ND	10	ND	13	ND	11	ND	16
Benzo(g,h,i)perylene	ND	10	ND	13	ND	11	ND	16

(B) Indicates compound found in the blank.
(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

EVALUATION HAS BEEN PERFOR
DATA VALIDITY IS UNSUBSTANTIATE
AND THE DATA SHOULD BE USED
WITH DISCRETION.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098				
SAMPLE # :	WBLK011895	CD00636	CD00638	CD00641	CD00635
FILE :	^PD010	^PD011	^PD012	^PD013	^PD014
LOCATION :	--	--	--	--	--
COLLECTED :	--	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/18/95	01/18/95	01/18/95	01/18/95	01/18/95
ANALYZED :	01/30/95	01/30/95	01/30/95	01/30/95	01/30/95
INJECTED :	13:36	14:31	15:26	16:21	17:16
MATRIX :	WATER	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.0	1.1	1.0	1.0
UNITS :	ug/L	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
Phenol	ND	10	ND	10	ND	11	ND	11	ND	10
bis(-2-Chloroethyl)Ether	ND	10	ND	10	ND	11	ND	11	ND	10
2-Chlorophenol	ND	10	ND	10	ND	11	ND	11	ND	10
1,3-Dichlorobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
1,4-Dichlorobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
Benzyl alcohol	ND	10	ND	10	ND	11	ND	11	ND	10
1,2-Dichlorobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
2-Methylphenol	ND	10	ND	10	ND	11	ND	11	ND	10
bis(2-Chloroisopropyl)ether	ND	10	ND	10	ND	11	ND	11	ND	10
4-Methylphenol	ND	10	ND	10	ND	11	ND	11	ND	10
N-Nitroso-Di-n-propylamine	ND	10	ND	10	ND	11	ND	11	ND	10
lexachloroethane	ND	10	ND	10	ND	11	ND	11	ND	10
Nitrobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
Isophorone	ND	10	ND	10	ND	11	ND	11	ND	10
2-Nitrophenol	ND	10	ND	10	ND	11	ND	11	ND	10
2,4-Dimethylphenol	ND	10	ND	10	ND	11	ND	11	ND	10
bis(2-Chloroethoxy)methane	ND	10	ND	10	ND	11	ND	11	ND	10
2,4-Dichlorophenol	ND	10	ND	10	ND	11	ND	11	ND	10
1,2,4-Trichlorobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
Naphthalene	ND	10	ND	10	ND	11	ND	11	ND	10
4-Chloroaniline	ND	10	ND	10	ND	11	ND	11	ND	10
Hexachlorobutadiene	ND	10	ND	10	ND	11	ND	11	ND	10
4-Chloro-3-methylphenol	ND	10	ND	10	ND	11	ND	11	ND	10
2-Methylnaphthalene	ND	10	ND	10	ND	11	ND	11	ND	10
Hexachlorocyclopentadiene	ND	10	ND	10	ND	11	ND	11	ND	10
2,4,6-Trichlorophenol	ND	10	ND	10	ND	11	ND	11	ND	10
2,4,5-Trichlorophenol	ND	50	ND	52	ND	54	ND	53	ND	52
2-Chloronaphthalene	ND	10	ND	10	ND	11	ND	11	ND	10
2-Nitroaniline	ND	50	ND	52	ND	54	ND	53	ND	52
Dimethylphthalate	ND	10	ND	10	ND	11	ND	11	ND	10
Acenaphthylene	ND	10	ND	10	ND	11	ND	11	ND	10
3-Nitroaniline	ND	50	ND	52	ND	54	ND	53	ND	52
Acenaphthene	ND	10	ND	10	ND	11	ND	11	ND	10
2,4-Dinitrophenol	ND	50	ND	52	ND	54	ND	53	ND	52

(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

EVALUATION HAS BEEN PERFORM
VALIDITY IS UNSUBSTANTIATED
THE DATA SHOULD BE USED
WITH DISCRETION.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098				
SAMPLE # :	WBLK011895	CD00636	CD00638	CD00641	CD00635
FILE :	^PD010	^PD011	^PD012	^PD013	^PD014
LOCATION :	--	--	--	--	--
COLLECTED :	--	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/18/95	01/18/95	01/18/95	01/18/95	01/18/95
ANALYZED :	01/30/95	01/30/95	01/30/95	01/30/95	01/30/95
INJECTED :	13:36	14:31	15:26	16:21	17:16
MATRIX :	WATER	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.0	1.1	1.0	1.0
UNITS :	ug/L	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
4-Nitrophenol	ND	50	ND	52	ND	54	ND	53	ND	52
Dibenzofuran	ND	10	ND	10	ND	11	ND	11	ND	10
2,6-Dinitrotoluene	ND	10	ND	10	ND	11	ND	11	ND	10
2,4-Dinitrotoluene	ND	10	ND	10	ND	11	ND	11	ND	10
Diethylphthalate	ND	10	ND	10	ND	11	ND	11	ND	10
4-Chlorophenyl-phenylether	ND	10	ND	10	ND	11	ND	11	ND	10
Fluorene	ND	10	ND	10	ND	11	ND	11	ND	10
4-Nitroaniline	ND	50	ND	52	ND	54	ND	53	ND	52
4,6-Dinitro-2-methylphenol	ND	50	ND	52	ND	54	ND	53	ND	52
N-Nitrosodiphenylamine	ND	10	ND	10	ND	11	ND	11	ND	10
4-Bromophenyl-phenylether	ND	10	ND	10	ND	11	ND	11	ND	10
Hexachlorobenzene	ND	10	ND	10	ND	11	ND	11	ND	10
Pentachlorophenol	ND	50	ND	52	ND	54	ND	53	ND	52
Phenanthrene	ND	10	ND	10	ND	11	ND	11	ND	10
Anthracene	ND	10	ND	10	ND	11	ND	11	ND	10
Carbazole	ND	10	ND	10	ND	11	ND	11	ND	10
Di-n-butylphthalate	2(J)	10	1(J,B)	10	38(B)	11	50(B)	11	2(J,B)	10
Fluoranthene	ND	10	ND	10	ND	11	ND	11	ND	10
Pyrene	ND	10	ND	10	ND	11	ND	11	ND	10
Butylbenzylphthalate	ND	10	ND	10	ND	11	2(J)	11	ND	10
3,3'-Dichlorobenzidine	ND	50	ND	52	ND	54	ND	53	ND	52
Benzo(a)anthracene	ND	10	ND	10	ND	11	ND	11	ND	10
Bis(2-Ethylhexyl)phthalate	1(J)	10	ND	10	2(J,B)	11	ND	11	3(J,B)	10
Chrysene	ND	10	ND	10	ND	11	ND	11	ND	10
Di-n-octylphthalate	ND	10	ND	10	ND	11	ND	11	ND	10
Benzo(b)fluoranthene	ND	10	ND	10	ND	11	ND	11	ND	10
Benzo(k)fluoranthene	ND	10	ND	10	ND	11	ND	11	ND	10
Benzo(a)pyrene	ND	10	ND	10	ND	11	ND	11	ND	10
Indeno(1,2,3-cd)pyrene	ND	10	ND	10	ND	11	ND	11	ND	10
Dibenzo(a,h)anthracene	ND	10	ND	10	ND	11	ND	11	ND	10
Benzo(g,h,i)perylene	ND	10	ND	10	ND	11	ND	11	ND	10

(B) Indicates compound found in the blank.
(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

[illegible] PERFORMED.
[illegible] IS UNSATISFACTORY
[illegible] DATA SHOULD BE USED
WITH DISCRETION

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	CD00639	CD00640	CD00634	CD00637
FILE :	^PD015	^PD016	^PD019	^PD032
LOCATION :	--	--	--	--
COLLECTED :	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/18/95	01/18/95	01/18/95	01/18/95
ANALYZED :	01/30/95	01/30/95	01/30/95	02/01/95
INJECTED :	18:11	19:05	21:46	11:37
MATRIX :	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.6	1.1	1.1
UNITS :	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
Phenol	ND	10	ND	16	ND	11	ND	11
bis(-2-Chloroethyl)Ether	ND	10	ND	16	ND	11	ND	11
2-Chlorophenol	ND	10	ND	16	ND	11	ND	11
1,3-Dichlorobenzene	ND	10	ND	16	ND	11	ND	11
1,4-Dichlorobenzene	ND	10	ND	16	ND	11	ND	11
Benzyl alcohol	ND	10	ND	16	ND	11	ND	11
1,2-Dichlorobenzene	ND	10	ND	16	ND	11	ND	11
2-Methylphenol	ND	10	ND	16	ND	11	ND	11
bis(2-Chloroisopropyl)ether	ND	10	ND	16	ND	11	ND	11
4-Methylphenol	ND	10	ND	16	ND	11	ND	11
N-Nitroso-Di-n-propylamine	ND	10	ND	16	ND	11	ND	11
Hexachloroethane	ND	10	ND	16	ND	11	ND	11
Nitrobenzene	ND	10	ND	16	ND	11	ND	11
Isophorone	ND	10	ND	16	ND	11	ND	11
2-Nitrophenol	ND	10	ND	16	ND	11	ND	11
2,4-Dimethylphenol	ND	10	ND	16	ND	11	ND	11
bis(2-Chloroethoxy)methane	ND	10	ND	16	ND	11	ND	11
2,4-Dichlorophenol	ND	10	ND	16	ND	11	ND	11
1,2,4-Trichlorobenzene	ND	10	ND	16	ND	11	ND	11
Naphthalene	ND	10	ND	16	ND	11	ND	11
4-Chloroaniline	ND	10	ND	16	ND	11	ND	11
Hexachlorobutadiene	ND	10	ND	16	ND	11	ND	11
4-Chloro-3-methylphenol	ND	10	ND	16	ND	11	ND	11
2-Methylnaphthalene	ND	10	ND	16	ND	11	ND	11
Hexachlorocyclopentadiene	ND	10	ND	16	ND	11	ND	11
2,4,6-Trichlorophenol	ND	10	ND	16	ND	11	ND	11
2,4,5-Trichlorophenol	ND	52	ND	78	ND	57	ND	55
2-Chloronaphthalene	ND	10	ND	16	ND	11	ND	11
2-Nitroaniline	ND	52	ND	78	ND	57	ND	55
Dimethylphthalate	ND	10	ND	16	ND	11	ND	11
Acenaphthylene	ND	10	ND	16	ND	11	ND	11
3-Nitroaniline	ND	52	ND	78	ND	57	ND	55
Acenaphthene	ND	10	ND	16	ND	11	ND	11
2,4-Dinitrophenol	ND	52	ND	78	ND	57	ND	55

(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

[illegible] ED.
DATA VALIDITY IS [illegible]
[illegible] THE DATA SHOULD BE [illegible]
WITH DISCRETION.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	CD00639	CD00640	CD00634	CD00637
FILE :	^PD015	^PD016	^PD019	^PD032
LOCATION :	--	--	--	--
COLLECTED :	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/18/95	01/18/95	01/18/95	01/18/95
ANALYZED :	01/30/95	01/30/95	01/30/95	02/01/95
INJECTED :	18:11	19:05	21:46	11:37
MATRIX :	WATER	WATER	WATER	WATER
DIL. FACT.:	1.0	1.6	1.1	1.1
UNITS :	ug/L	ug/L	ug/L	ug/L

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
4-Nitrophenol	ND	52	ND	78	ND	57	ND	55
Dibenzofuran	ND	10	ND	16	ND	11	ND	11
2,6-Dinitrotoluene	ND	10	ND	16	ND	11	ND	11
2,4-Dinitrotoluene	ND	10	ND	16	ND	11	ND	11
Diethylphthalate	ND	10	ND	16	ND	11	ND	11
4-Chlorophenyl-phenylether	ND	10	ND	16	ND	11	ND	11
Fluorene	ND	10	ND	16	ND	11	ND	11
4-Nitroaniline	ND	52	ND	78	ND	57	ND	55
4,6-Dinitro-2-methylphenol	ND	52	ND	78	ND	57	ND	55
N-Nitrosodiphenylamine	ND	10	ND	16	ND	11	ND	11
4-Bromophenyl-phenylether	ND	10	ND	16	ND	11	ND	11
Hexachlorobenzene	ND	10	ND	16	ND	11	ND	11
Pentachlorophenol	ND	52	ND	78	ND	57	ND	55
Phenanthrene	ND	10	ND	16	ND	11	ND	11
Anthracene	ND	10	ND	16	ND	11	ND	11
Carbazole	ND	10	ND	16	ND	11	ND	11
Di-n-butylphthalate	47(B)	10	4(J,B)	16	66(B)	11	1(J,B)	11
Fluoranthene	ND	10	ND	16	ND	11	ND	11
Pyrene	ND	10	ND	16	ND	11	ND	11
Butylbenzylphthalate	4(J)	10	ND	16	ND	11	ND	11
3,3'-Dichlorobenzidine	ND	52	ND	78	ND	57	ND	55
Benzo(a)anthracene	ND	10	ND	16	ND	11	ND	11
Bis(2-Ethylhexyl)phthalate	ND	10	ND	16	1(J,B)	11	ND	11
Chrysene	ND	10	ND	16	ND	11	ND	11
Di-n-octylphthalate	ND	10	ND	16	ND	11	ND	11
Benzo(b)fluoranthene	ND	10	ND	16	ND	11	ND	11
Benzo(k)fluoranthene	ND	10	ND	16	ND	11	ND	11
Benzo(a)pyrene	ND	10	ND	16	ND	11	ND	11
Indeno(1,2,3-cd)pyrene	ND	10	ND	16	ND	11	ND	11
Dibenzo(a,h)anthracene	ND	10	ND	16	ND	11	ND	11
Benzo(g,h,i)perylene	ND	10	ND	16	ND	11	ND	11

(B) Indicates compound found in the blank.
(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	SBLK011395	A00642	A00643	A00644
FILE :	^PD024	^PD025	^PD026	^PD027
LOCATION :	--	--	--	--
COLLECTED :	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/13/95	01/13/95	01/13/95	01/13/95
ANALYZED :	01/31/95	01/31/95	01/31/95	01/31/95
INJECTED :	12:14	13:08	14:04	15:00
MATRIX :	SOIL	SOIL	SOIL	SOIL
DIL. FACT.:	1.0	1.0	1.0	1.0
% SOLID :	100	81	83	82
AMT. USED :	30	30	30	30
FINAL VOL :	1	1	1	1
UNITS :	ug/Kg	ug/Kg	ug/Kg	ug/Kg

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
Phenol	ND	330	ND	407	ND	398	ND	402
bis(-2-Chloroethyl)Ether	ND	330	ND	407	ND	398	ND	402
2-Chlorophenol	ND	330	ND	407	ND	398	ND	402
1,3-Dichlorobenzene	ND	330	ND	407	ND	398	ND	402
1,4-Dichlorobenzene	ND	330	ND	407	ND	398	ND	402
Benzyl alcohol	ND	330	ND	407	ND	398	ND	402
1,2-Dichlorobenzene	ND	330	ND	407	ND	398	ND	402
2-Methylphenol	ND	330	ND	407	ND	398	ND	402
bis(2-Chloroisopropyl)ether	ND	330	ND	407	ND	398	ND	402
4-Methylphenol	ND	330	ND	407	ND	398	ND	402
N-Nitroso-Di-n-propylamine	ND	330	ND	407	ND	398	ND	402
Hexachloroethane	ND	330	ND	407	ND	398	ND	402
Nitrobenzene	ND	330	ND	407	ND	398	ND	402
Isophorone	ND	330	ND	407	ND	398	ND	402
2-Nitrophenol	ND	330	ND	407	ND	398	ND	402
2,4-Dimethylphenol	ND	330	ND	407	ND	398	ND	402
bis(2-Chloroethoxy)methane	ND	330	ND	407	ND	398	ND	402
2,4-Dichlorophenol	ND	330	ND	407	ND	398	ND	402
1,2,4-Trichlorobenzene	ND	330	ND	407	ND	398	ND	402
Naphthalene	ND	330	ND	407	ND	398	ND	402
4-Chloroaniline	ND	330	ND	407	ND	398	ND	402
Hexachlorobutadiene	ND	330	ND	407	ND	398	ND	402
4-Chloro-3-methylphenol	ND	330	ND	407	ND	398	ND	402
2-Methylnaphthalene	ND	330	ND	407	ND	398	ND	402
Hexachlorocyclopentadiene	ND	330	ND	407	ND	398	ND	402
2,4,6-Trichlorophenol	ND	330	ND	407	ND	398	ND	402
2,4,5-Trichlorophenol	ND	1650	ND	2037	ND	1988	ND	2012
2-Chloronaphthalene	ND	330	ND	407	ND	398	ND	402
2-Nitroaniline	ND	1650	ND	2037	ND	1988	ND	2012
Dimethylphthalate	ND	330	ND	407	ND	398	ND	402
Acenaphthylene	ND	330	ND	407	ND	398	ND	402
3-Nitroaniline	ND	1650	ND	2037	ND	1988	ND	2012
Acenaphthene	ND	330	ND	407	ND	398	ND	402
2,4-Dinitrophenol	ND	1650	ND	2037	ND	1988	ND	2012

[illegible] HA[illegible] ME[illegible]
[illegible] VALIDITY IS UNQUALIFIED
[illegible] DATA SHOULD BE [illegible]

(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

RESULTS OF BASE NEUTRAL/ACID EXTRACTABLES ANALYSIS

PROJECT :	PIER DRUM,#0098			
SAMPLE # :	SBLK011395	A00642	A00643	A00644
FILE :	^PD024	^PD025	^PD026	^PD027
LOCATION :	--	--	--	--
COLLECTED :	01/11/95	01/11/95	01/11/95	01/11/95
EXTRACTED :	01/13/95	01/13/95	01/13/95	01/13/95
ANALYZED :	01/31/95	01/31/95	01/31/95	01/31/95
INJECTED :	12:14	13:08	14:04	15:00
MATRIX :	SOIL	SOIL	SOIL	SOIL
DIL. FACT.:	1.0	1.0	1.0	1.0
% SOLID :	100	81	83	82
AMT. USED :	30	30	30	30
FINAL VOL :	1	1	1	1
UNITS :	ug/Kg	ug/Kg	ug/Kg	ug/Kg

COMPOUND	CONC.	MDL	CONC.	MDL	CONC.	MDL	CONC.	MDL
4-Nitrophenol	ND	1650	ND	2037	ND	1988	ND	2012
Dibenzofuran	ND	330	ND	407	ND	398	ND	402
2,6-Dinitrotoluene	ND	330	ND	407	ND	398	ND	402
2,4-Dinitrotoluene	ND	330	ND	407	ND	398	ND	402
Diethylphthalate	ND	330	87(J)	407	ND	398	ND	402
4-Chlorophenyl-phenylether	ND	330	ND	407	ND	398	ND	402
Fluorene	ND	330	ND	407	ND	398	ND	402
4-Nitroaniline	ND	1650	ND	2037	ND	1988	ND	2012
4,6-Dinitro-2-methylphenol	ND	1650	ND	2037	ND	1988	ND	2012
N-Nitrosodiphenylamine	ND	330	ND	407	ND	398	ND	402
4-Bromophenyl-phenylether	ND	330	ND	407	ND	398	ND	402
Hexachlorobenzene	ND	330	ND	407	ND	398	ND	402
Pentachlorophenol	ND	1650	ND	2037	ND	1988	ND	2012
Phenanthrene	ND	330	ND	407	ND	398	ND	402
Anthracene	ND	330	ND	407	ND	398	ND	402
Carbazole	ND	330	ND	407	ND	398	ND	402
Di-n-butylphthalate	2448	330	2765(B)	407	3029(B)	398	1581(B)	402
Fluoranthene	ND	330	ND	407	ND	398	ND	402
Pyrene	ND	330	ND	407	ND	398	ND	402
Butylbenzylphthalate	149(J)	330	179(J,B)	407	156(J,B)	398	ND	402
3,3'-Dichlorobenzidine	ND	1650	ND	2037	ND	1988	ND	2012
Benzo(a)anthracene	ND	330	ND	407	ND	398	ND	402
Bis(2-Ethylhexyl)phthalate	620	330	338(J,B)	407	ND	398	39(J,B)	402
Chrysene	ND	330	ND	407	ND	398	ND	402
Di-n-octylphthalate	ND	330	ND	407	ND	398	ND	402
Benzo(b)fluoranthene	ND	330	ND	407	ND	398	ND	402
Benzo(k)fluoranthene	ND	330	ND	407	ND	398	ND	402
Benzo(a)pyrene	ND	330	ND	407	ND	398	ND	402
Indeno(1,2,3-cd)pyrene	ND	330	ND	407	ND	398	ND	402
Dibenzo(a,h)anthracene	ND	330	ND	407	ND	398	ND	402
Benzo(g,h,i)perylene	ND	330	ND	407	ND	398	ND	402

(B) Indicates compound found in the blank.
(J) Indicates compound concentration found below MDL.
ND Indicates compound Not Detected.

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S UNSUBSTANTIAT
DATA SHOULD BE USE
DISCRETION.

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in H_2O
WA# 0-078 Pier Drum

Sample Number WBK011995
Lab File # SPD001

Unit µg/L
Conversion Factor 1.00

CAS#	Compound Name	Q	RT	Conc.*
1. –	Unknown	–	31.04	5
2. –	Ethylhexyl diphenyl Phosphoric Acid	–	31.73	8
3.	$C_{20}H_{27}O_4P$			
4.				
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* Estimated Concentration (Response Factor = 1.0)

NO QC EVALUATION HAS BEEN PERFORMED
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number WBLK011895 Unit µg/L
Lab File # >PD010 Conversion Factor 1.00

CAS#	Compound Name	Q	RT	Conc.*
1.	Carboxylic Acid $C_{14}H_{28}O_2$	-	31.02	11
2.	~~Alkane $C_{14}H_{30}$~~	-	~~33.14~~	~~11~~
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NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Soil
WA# 0-098 Pier Drum

Sample Number SBLK01B95
Lab File # SPD024

Unit ug/kg
Conversion Factor 33.3

CAS#		Compound Name	Q	RT	Conc.*
1.	119619	Benzophenone $C_{13}H_{10}O$	89	21.93	1000
2.	–	Unknown	–	22.84	410
3.	–	Phthalate	–	25.10	230
4.	–	Alcohol $C_nH_{2n+2}O$	–	30.08	170
5.	–	Alkene / Cycloalkane C_nH_{2n}	–	32.16	3300
6.	–	Phosphonic Acid derivative	–	34.19	270
7.	–	Alcohol $C_nH_{2n+2}O$	–	38.83	300
8.	–	Unknown	–	38.98	170
9.	–	↓	–	40.37	170
10.	–	↓	–	42.69	300
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NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-078 Pier Drum

Sample Number B00525
Lab File # >PD802

Unit ug/L
Conversion Factor 1.25

CAS#	Compound Name	Q	RT	Conc.*
1. –	Unknown	–	6.70	8
2. –	↓	–	12.71	16
3. –	Phenyl Butanone $C_{10}H_{12}O$	–	15.22	11
4. –	Carboxylic Acid	–	17.27	10
5. –	Alkene / Cycloalkane C_nH_{2n}	–	19.24	16
6. 599644	Phenol, 4-(1-methyl-1-phenylethyl) $C_{15}H_{16}O$	99	25.13	6
7. –	Carboxylic Acid	–	31.05	8
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NO QC EVALUATION HAS BEEN PERFORMED.
~~DATA VALIDITY IS UNSUBSTANTIATED~~
AND THE DATA SHOULD BE USED
WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0.098 Pier Drum

Sample Number B00526
Lab File # >PD003

Unit ug/L
Conversion Factor 1.09

CAS#	Compound Name	Q	RT	Conc.*
1. —	Unknown	—	6.68	5
2. —		—	12.61	10
3. —		—	12.68	9
4. —		—	14.46	5
5. —		—	15.58	5
6. —		—	35.04	5
7.				
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NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number BE00527
Lab File # 3PD004

Unit µg/L
Conversion Factor 1.64

CAS#	Compound Name	Q	RT	Conc.*
1. —	Chlorowa	—	31.03	8
2.				
3.				
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NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00636 Unit ug/L
Lab File # SPD011 Conversion Factor 1.03

CAS#	Compound Name	Q	RT	Conc.*
1. 10544500	Sulfur, mol. S8.	65	27.83	15
2. —	Carboxylic Acid $C_nH_{2n}O_2$	-	31.03	9
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NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00638
Lab File # SPD012

Unit µg/L
Conversion Factor 1.08

CAS#	Compound Name	Q	RT	Conc.*
1. —	Unknown	—	6.70	8
2. —	↓	—	15.95	10
3. —		—	16.76	5
4. —		—	28.84	5
5. —		—	31.03	12
6. —	Alkane C_nH_{2n+2}	—	35.01	5
7. —	↓	—	36.01	5
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NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED ~~AND THE DATA SHOULD BE USED~~ WITH DISCRETION.

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00641
Lab File # SPD013

Unit ug/L
Conversion Factor 1.65

CAS#	Compound Name	Q	RT	Conc.*
1. 10544500	Sulfur S_8	51	27.82	6
2. –	Unknown	–	28.84	30
3. –	Carboxylic Acid $C_nH_{2n}O_2$	–	31.05	44
4. –	Alkane	–	34.11	5
5. –	↓	–	35.03	6
6. –	↓	–	36.03	5
7.				
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NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00635
Lab File # SPD014

Unit ug/L
Conversion Factor 1.03

CAS#	Compound Name	Q	RT	Conc.*
1. —	Unknown	—	6.79	11
2. 10544500	Sulfur S8	80	27.81	8
3. —	Carboxylic Acid $C_nH_{2n}O_2$	—	31.02	9
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22.	NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED			
23.	AND THE DATA SHOULD BE USED WITH DISCRETION.			

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00610
Lab File # SPD 015

Unit ug/L
Conversion Factor 1.04

CAS#	Compound Name	Q	RT	Conc.*
1. —	Unknown	—	28.01	6
2. —	Carboxylic Acid $C_{14}H_{28}O_2$	—	31.06	8
3. —	Phthalate	—	32.29	6
4. —	Alkane	—	33.16	5
5. —		—	34.12	7
6. —		—	35.04	10
7. —		—	36.06	7
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23.	NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.			

* Estimated Concentration (Response Factor = 1.0)

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Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00640
Lab File # >PD016

Unit ug/L
Conversion Factor 1.56

CAS#	Compound Name	Q	RT	Conc.*
1. –	Carboxylic Acid	–	31.05	16
2.				
3.				
4.				
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22.	NO QC EVALUATION HAS BEEN [illegible] PERFORMED.			
23.	DATA VALIDITY IS UNSUPPORTED AND THE DATA SHOULD BE USED WITH [illegible]			

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00634
Lab File # >PD019

Unit µg/L
Conversion Factor 1.14

CAS#	Compound Name	Q	RT	Conc.*
1. —	Unknown	—	6.70	8
2. —		—	6.79	10
3. —		—	21.28	7
4. 10544500	Sulfur, S8	81	27.87	18
5. ~~—~~	~~Carboxylic Acid~~ ~~CnH2nO2~~	~~—~~	~~28.86~~	~~7~~ 8
6. —	Unknown	—	28.86	7
7. —	Carboxylic Acid CnH2nO2	—	31.05	17
8. —	Alkane CnH2n+2	—	32.18	7
9. —		—	33.17	12
10. —		—	34.13	18
11. —		—	35.06	~~10~~ 22
12. —		—	36.07	17
13. —		—	37.23	11
14. —		—	38.57	7
15.				
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20.				
21.	NO QC EVALUATION HAS BEEN PERFORMED.			
22.	DATA VALIDITY IS UNKNOWN			
23.	AND THE DATA SHOULD BE USED WITH DISCRETION			

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Water
WA# 0-098 Pier Drum

Sample Number CD00637
Lab File # SPD032

Unit ug/L
Conversion Factor 1.11

CAS#		Compound Name	Q	RT	Conc.*
1.	–	Benzoic Acid Derivatives	–	13.65	9
2.	–	Benzenacetate	–	15.39	21
3.	–	Unknown	–	15.61	6
4.	–	↓	–	16.42	6
5.	85449	phthalic anhydride $C_8H_4O_3$	95	16.66	7
6.	–	Unknown	–	20.18	6
7.	–	↓	–	24.51	6
8.	10544500	Sulfur S_8	64	27.91	21
9.	–	Unknown	–	28.02	11
10.	–	Methyl tricycloalkane carboxylic Acid	–	28.22	8
11.		$C_{13}H_{20}O_2$			
12.	–	Unknown	–	28.37	12
13.	–	Carboxylic Acid $C_nH_{2n}O_2$	–	31.06	38
14.	–	Alkane	–	35.04	6
15.					
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20.					
21.		NO QC EVALUATION HAS BEEN PERFORMED.			
22.		DATA VALIDITY IS UNSUBSTANTIATED			
23.		AND THE DATA SHOULD BE USED WITH DISCRETION.			

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Soil
WA# 0-098 Pier Drum

Sample Number A00642
Lab File # SPD025

Unit µg/kg
Conversion Factor 41.2

CAS#	Compound Name	Q	RT	Conc.*
1. 100414	Ethyl Benzene C_8H_{10}	97	6.52	580
2. 85449	Phthalic anhydride $C_8H_4O_3$	99	16.65	780
3. –	Cycloalkane C_nH_{2n}	–	19.22	700
4. 119619	Benzophenone $C_{13}H_{10}O$	84	21.94	780
5. –	Cycloalkane / C_nH_{2n}	–	22.37	250
6. –	phthalate	–	25.11	250
7. –	Alkane C_nH_{2n+2}	–	30.06	330
8. –	↓	–	31.13	210
9. –	Unknown	–	32.18	2700
10. –	Alkane C_nH_{2n+2}	–	33.15	450
11. –		–	34.11	540
12. –		–	35.03	660
13. –		–	36.03	580
14. –		–	37.19	290
15. –		–	38.56	330
16. –	Unknown	–	39.10	660
17. –		–	40.14	290
18. –		–	40.37	490
19. –		–	42.69	540
20.				
21.				
22.				
23.				

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

* Estimated Concentration (Response Factor = 1.0)

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Soil
WA# 0-098 Pier Drum

Sample Number A00643
Lab File # >PD026

Unit µg/kg
Conversion Factor 40.2

CAS#	Compound Name	Q	RT	Conc.*
1. 119619	Benzophenone $C_{13}H_{10}O$	64	21.93	880
2. —	phthalate	—	25.10	320
3. 10544500	Sulfur S_8	88	27.84	320
4. —	Carboxylic Acid	—	30.07	240
5. —	Unknown	—	32.18	4400
6. —	↓	—	32.80	240
7. —	Alcohle $C_nH_{2n+2}O$	—	34.19	240
8. —	Unknown	—	35.05	360
9. —	Alkane C_nH_{2n+2}	—	36.04	240
10. —	↓	—	38.53	200
11. —	Alcohle $C_nH_{2n+2}O$	—	38.80	360
12. —	Unknown	—	38.99	280
13. —		—	39.11	560
14. —		—	40.37	400
15. —		—	42.69	640
16.				
17.				
18.				
19.				
20.				
21.	SOME EVALUATION HAS BEEN PERFORMED			
22.	DATA VALIDITY IS UNCERTAIN			
23.	AND THE DATA SHOULD BE USED WITH DISCRETION			

* Estimated Concentration (Response Factor = 1.0)

2 2 0053

Table 1.__(cont.) Results of Tentatively Identified Compounds for BNA in Soil
WA# 0-098 Pier Drum

Sample Number A00644
Lab File # SPD027

Unit µg/kg
Conversion Factor 40.6

CAS#	Compound Name	Q	RT	Conc.*
1. 119619	Benzophenone $C_{13}H_{10}O$	75	21.95	2000
2. –	Unknown	–	22.83	200
3. –	Unknown phthalate	–	25.10	280
4. –	Unknown	–	30.06	200
5. –		–	32.16	3800
6. –		–	34.18	200
7. –		–	35.03	200
8. –		–	38.77	410
9. –		–	38.97	240
10. –		–	39.10	490
11. –		–	40.37	240
12. –		–	42.67	570
13. –		–	43.11	530
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.	NO DV EVALUATION HAS BEEN PERFORMED.			
23.	DATA VALIDATION IS IN PROGRESS AND THE DATA SHOULD BE USED WITH DISCRETION.			

* Estimated Concentration (Response Factor = 1.0)

DFTPP File >DF352 Injected at 08:50 on the date of 01/31/95

Reviewed By:_____ Date:_____.
Checked By:_____ Date:_____.

Sample #	Data File	Internal Standards 1 4 area	2 5 area	3 6 area	Surrogates NBZ PHL %	FBP 2FP %	TPH TBP %	Flags	Chrom. Acceptable Y or N	Premlim. Data Acceptable Y or ReRun
CAL CHECK 50 PPM BNA	>PD021	38434	163272	120938	NA	NA	NA		Y or N	Y or ReRun
		231504	234487	248960	NA	NA	NA			
SBLK011395	>PD024	36298	150688	115900	92	96	65		Y or N	Y or ReRun
		211649	278112	220347	87	87	99			
A00642	>PD025	34691	152529	102508	80	102	77		Y or N	Y or ReRun
		212295	243231	210899	79	90	104			
A00643	>PD026	32854	138441	103061	96	101	76		Y or N	Y or ReRun
		201910	229956	207427	98	106	108			
A00644	>PD027	30669	142742	106559	77	84	70		Y or N	Y or ReRun
		196969	241902	203685	85	79	97			
A00644 MS	>PD028	31675	135866	97579	84	99	80		Y or N	Y or ReRun
		189961	228494	200295	89	95	109			
A00644 MSD	>PD029	26902	120589	99910	98	88	84		Y or N	Y or ReRun
		191646	224721	192040	92	109	99			

DFTPP Inj. Time is 08:50
Last Inj. Time is 17:02

SURROGATE LIMITS	WATER	SOIL
S1 (NBZ) = Nitrobenzene-d5	(35-114)	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)	(30-115)
S3 (TPH) = Terphenyl-d14	(35-114)	(18-137)
S4 (PHL) = Phenol-d5	(10-110)	(24-113)
S5 (2FP) = 2-Fluorophenol	(21-110)	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)	(19-122)

*A = Area is > 200% or < 50% of Cal Check
*R = RT is Plus or Minus .5 min. of Cal Check

* Values outside of contract required QC Limits

**NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.**

DFTPP File >DF351 Injected at 11:26 on the date of 01/30/95

Reviewed By:_____ Date:_____.
Checked By:_____ Date:_____.

Sample #	Data File	Internal Standards 1 4 area	2 5 area	3 6 area	Surrogates NBZ PHL %	FBP 2FP %	TPH TBP %	Flags	Chrom. Acceptable Y or N	Premlim. Data Acceptable Y or ReRun
CAL CHECK 50 PPM BNA	>PD007	39875	174384	129444	NA	NA	NA		Y or N	Y or ReRun
		250541	250185	296069	NA	NA	NA			
BE00527 MS	>PD008	41269	199129	146879	93	93	67		Y or N	Y or ReRun
		279101	389251	339551	94	100	117			
BE00527 MSD	>PD009	46081	192055	144902	89	82	72		Y or N	Y or ReRun
		254658	328287	343633	77	87	115			
WBLK011895	>PD010	31905	142809	102084	27*	30*	46		Y or N	Y or ReRun
		198702	240967	214443	59	70	76			
CD00636	>PD011	30721	133957	95093	75	85	62		Y or N	Y or ReRun
		207842	258949	242135	71	79	94			
CD00638	>PD012	33455	145356	124516	94	88	69		Y or N	Y or ReRun
		205400	284653	239478	84	102	125*			
CD00641	>PD013	33306	151794	114365	84	76	62		Y or N	Y or ReRun
		230724	294088	254581	79	94	101			
CD00635	>PD014	38167	171288	125508	88	93	64		Y or N	Y or ReRun
		238915	292358	274031	67	88	103			
CD00639	>PD015	33135	151576	117413	77	71	69		Y or N	Y or ReRun
		228271	255086	248236	70	92	96			
CD00640	>PD016	33189	125163	91698	59	58	58		Y or N	Y or ReRun
		202208	228261	234704	70	84	81			
CD00640 MS	>PD017	32712	138868	107572	57	56	53		Y or N	Y or ReRun
		204117	271469	238689	73	85	90			
CD00640 MSD	>PD018	32325	135612	107602	49	48	46		Y or N	Y or ReRun
		204579	282333	258520	77	80	88			
CD00634	>PD019	34238	153494	116291	91	90	68		Y or N	Y or ReRun
		235951	292426	264288	90	94	97			

DFTPP Inj. Time is 11:26
Last Inj. Time is 21:46

SURROGATE LIMITS	WATER	SOIL
S1 (NBZ) = Nitrobenzene-d5	(35-114)	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)	(30-115)
S3 (TPH) = Terphenyl-d14	(35-114)	(18-137)
S4 (PHL) = Phenol-d5	(10-110)	(24-113)
S5 (2FP) = 2-Fluorophenol	(21-110)	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)	(19-122)

*A = Area [illegible]
*R = RT is [illegible]

NO QC EVALUATION HAS BEEN PERFORMED. DATA VALIDITY IS UNSUBSTANTIATED AND THE DATA SHOULD BE USED WITH DISCRETION.

* Values outside of contract required QC Limits

2 2 0000

DFTPP File >DF349 Injected at 11:48 on the date of 01/27/95

Reviewed By:_____ Date:_____.
Checked By:_____ Date:_____.

Sample #	Data File	Internal Standards 1 4 area	2 5 area	3 6 area	Surrogates NBZ PHL %	FBP 2FP %	TPH TBP %	Flags	Chrom. Acceptable Y or N	Premlim. Data Acceptable Y or ReRun
CAL CHECK 50 PPM BNA	>SM005	41021	170697	120567	NA	NA	NA		Y or N	Y or ReRun
		241360	258471	300823	NA	NA	NA			
WBLK011995	>PD001	38169	144186	115204	81	75	66		Y or N	Y or ReRun
		239769	298718	281582	40	48	82			
B00525	>PD002	46924	212640	159659	80	69	71		Y or N	Y or ReRun
		290233	364226	351123	55	68	99			
B00526	>PD003	38582	175233	111491	77	81	74		Y or N	Y or ReRun
		218230	280286	276763	46	69	98			
BE00527	>PD004	41094	165496	129866	75	66	65		Y or N	Y or ReRun
		228236	291819	289160	54	59	91			

DFTPP Inj. Time is 11:48
Last Inj. Time is 21:52

SURROGATE LIMITS	WATER	SOIL
S1 (NBZ) = Nitrobenzene-d5	(35-114)	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)	(30-115)
S3 (TPH) = Terphenyl-d14	(35-114)	(18-137)
S4 (PHL) = Phenol-d5	(10-110)	(24-113)
S5 (2FP) = 2-Fluorophenol	(21-110)	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)	(19-122)

*A = Area is > 200% or < 50% of Cal Check
*R = RT is Plus or Minus .5 min. of Cal Check

* Values outside of contract required QC Limits

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: REAC II | Contract: --

Lab Code: PIER DRUM Case No.: 0-001 SAS No.: -- SDG No.: --

Matrix Spike - EPA Sample No.: BE00527

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	163.93	0.00	143.63	87	12- 89
2-Chlorophenol	163.93	0.00	165.60	101	27-123
1,4-Dichlorobenzene	81.97	0.00	67.38	82	36- 97
N-Nitroso-di-n-prop.(1)	81.97	0.00	79.75	97	41-116
1,2,4-Trichlorobenzene	81.97	0.00	62.72	76	39- 98
4-Chloro-3-methylphenol	163.93	0.00	143.73	87	23- 97
Acenaphthene	81.97	0.00	72.39	88	46-118
4-Nitrophenol	163.93	0.00	140.03	85 *	10- 80
2,4-Dinitrotoluene	81.97	0.00	78.62	95	24- 96
Pentachlorophenol	163.93	0.00	164.66	100	9-103
Pyrene	81.97	0.00	61.41	74	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	163.93	119.72	73	17	42	12- 89
2-Chlorophenol	163.93	135.11	82	20	40	27-123
1,4-Dichlorobenzene	81.97	50.14	61	29 *	28	36- 97
N-Nitroso-di-n-prop.(1)	81.97	63.38	77	22	38	41-116
1,2,4-Trichlorobenzene	81.97	52.04	63	18	28	39- 98
4-Chloro-3-methylphenol	163.93	132.14	80	8	42	23- 97
Acenaphthene	81.97	75.48	92	4	31	46-118
4-Nitrophenol	163.93	147.32	89 *	4	50	10- 80
2,4-Dinitrotoluene	81.97	78.42	95	0	38	24- 96
Pentachlorophenol	163.93	170.63	104 *	3	50	9-103
Pyrene	81.97	67.12	81	9	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: 1 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

NO QC EVALUATION HAS BEEN PERFORMED
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

COMMENTS: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: REAC II | Contract: --

Lab Code: PIER DRUM Case No.: 0-001 SAS No.: -- SDG No.: --

Matrix Spike - EPA Sample No.: CD00640

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	156.25	0.00	111.96	71	12- 89
2-Chlorophenol	156.25	0.00	115.54	73	27-123
1,4-Dichlorobenzene	78.13	0.00	32.21	41	36- 97
N-Nitroso-di-n-prop.(1)	78.13	0.00	40.69	52	41-116
1,2,4-Trichlorobenzene	78.13	0.00	33.85	43	39- 98
4-Chloro-3-methylphenol	156.25	0.00	120.71	77	23- 97
Acenaphthene	78.13	0.00	46.43	59	46-118
4-Nitrophenol	156.25	0.00	132.21	84 *	10- 80
2,4-Dinitrotoluene	78.13	0.00	49.25	63	24- 96
Pentachlorophenol	156.25	0.00	126.99	81	9-103
Pyrene	78.13	0.00	52.05	66	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	156.25	107.20	68	4	42	12- 89
2-Chlorophenol	156.25	118.39	75	2	40	27-123
1,4-Dichlorobenzene	78.13	29.13	37	10	28	36- 97
N-Nitroso-di-n-prop.(1)	78.13	37.15	47	10	38	41-116
1,2,4-Trichlorobenzene	78.13	34.41	44	2	28	39- 98
4-Chloro-3-methylphenol	156.25	131.69	84	8	42	23- 97
Acenaphthene	78.13	44.59	57	3	31	46-118
4-Nitrophenol	156.25	123.95	79	6	50	10- 80
2,4-Dinitrotoluene	78.13	47.13	60	4	38	24- 96
Pentachlorophenol	156.25	121.33	77	5	50	9-103
Pyrene	78.13	43.07	55	18	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

NO QC EVALUATION HAS BEEN PERFOR
DATA VALIDITY IS UNSUBSTANTIATE
AND THE DATA SHOULD BE USED
WITH DISCRETION.

COMMENTS: _____.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: REAC II | Contract: --

Lab Code: PIER DRUM Case No.: 0-001 SAS No.: -- SDG No.: --

Matrix Spike - EPA Sample No.: A00644 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	4065.04	0.00	4031.18	99 *	26- 90
2-Chlorophenol	4065.04	0.00	3646.30	89	25-102
1,4-Dichlorobenzene	2032.52	0.00	1573.13	77	28-104
N-Nitroso-di-n-prop.(1)	2032.52	0.00	1562.72	76	41-126
1,2,4-Trichlorobenzene	2032.52	0.00	1734.39	85	38-107
4-Chloro-3-methylphenol	4065.04	0.00	3996.10	98	26-103
Acenaphthene	2032.52	0.00	1900.73	93	31-137
4-Nitrophenol	4065.04	0.00	4204.63	103	11-114
2,4-Dinitrotoluene	2032.52	0.00	2018.82	99 *	28- 89
Pentachlorophenol	4065.04	0.00	2808.33	69	17-109
Pyrene	2032.52	0.00	1859.76	91	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	4065.04	4527.48	111 *	11	35	26- 90
2-Chlorophenol	4065.04	4025.73	99	10	50	25-102
1,4-Dichlorobenzene	2032.52	1813.58	89	14	27	28-104
N-Nitroso-di-n-prop.(1)	2032.52	1956.38	96	23	38	41-126
1,2,4-Trichlorobenzene	2032.52	1900.85	93	8	23	38-107
4-Chloro-3-methylphenol	4065.04	4232.72	104 *	5	33	26-103
Acenaphthene	2032.52	1874.71	92	1	19	31-137
4-Nitrophenol	4065.04	3982.72	97	6	50	11-114
2,4-Dinitrotoluene	2032.52	1871.91	92 *	7	47	28- 89
Pentachlorophenol	4065.04	3473.37	85	20	47	17-109
Pyrene	2032.52	1780.00	87	4	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: 0 out of 11 outside limits
Spike Recovery: 5 out of 22 outside limits

NO QC EVALUATION HAS BEEN PERFORMED
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION.

COMMENTS: _____

Roy F. Weston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

Project Name: Pier Drum
Project Number: 03347-040-0098-01
RFW Contact: B. Holderness Phone: X4243

No: 10027

SHEET NO. 1 OF 1

011875

SAMPLE IDENTIFICATION / ANALYSES REQUESTED

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/ Preservative	TCLP Metals	TCLP BNA	TCLP Pcp/Pest	
574	A00525	A00642	W	1/18/95	1 ea	1L Poly/4°C HNO3	X			
575	B00525	"				1L Amber/4°C		X		
576	C00525	"				1L Amber/4°C			X	
577	A00526	A00643				1L Poly/HNO3	X			
578	B00526	"				1L Amber/4°C		X		
579	C00526	"				1L Amber/4°C			X	
580	A,D00527	A 00644				1L Poly/HNO3	X			
581	B,E00527	"				1L Amber/4°C		X		
582	C,F00527	"				1L Amber/4°C			X	

Matrix:
SD - Sediment
DS - Drum Solids
DL - Drum Liquids
X - Other
PW - Potable Water
GW - Groundwater
SW - Surface Water
SL - Sludge
S - Soil
W - Water
O - Oil
A - Air

Special Instructions:
00527 D, E, F = MS/MSD

FOR SUBCONTRACTING USE ONLY
FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time
All Analysis	B. Holderness	1/18/95	Michael Yen	1/18/95	14:30

Items/Reason	Relinquished By	Date	Received By	Date	Time
3/metals	Michael Yen	1/18/95			
6/Pest/Pcp, BNA	Michael Yen	1/18/95	Amy Bowman	1-18-95	

REAC, Edison, NJ
(908) 321-4200
EPA Contract 68-C4-0022

CHAIN OF CUSTODY RECORD

Project Name: Pier Drum
Project Number: 03347 040 001 009801
RFW Contact: R Lewis Phone: 4269

No: 03672

SHEET NO. __ OF __

011395 — Sample Identification — TAL Analyses Requested — TCLP

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	Metals	Pest/PCB's	BNA's	VOA's	
533	AB00634		W	1/11/95	2	HNO_3/4°C	X				
534	CD00634				2	4°C		X	X		
535	EF00634				2	4°C		X			
536	GHI00634				3	4°C				X	
537	AB00637				2	HNO_3/4°C	X				
538	CD00637				2	4°C			X		
539	EF00637				2			X			
540	GHI00637				3					X	
541	A00642	+	S		1	4°C	X	X	X	X	X
542	CDE 00642		S		3	4°C				X	
543	A00643	+			1		X	X	X	X	X
544	CDE00643				3					X	
545	A00644	+			1		X	X	X	X	X
546	CDE00644				3					X	

Matrix:
SD - Sediment; DS - Drum Solids; DL - Drum Liquids; X - Other
PW - Potable Water; GW - Groundwater; SW - Surface Water; SL - Sludge
S - Soil; W - Water; O - Oil; A - Air

Special Instructions:
For A00643, A00644, A00642 > sample to Jess
Brian Holderness

* not for VOA analysis (MV)

+ filiquots removed for (MV) various analyses. original bottle relinquished to B. Holderness

FOR SUBCONTRACTING USE ONLY
FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time
All/Analysis	Ray Lewis	1/13/95	Michael Van Cleef	1/13/95	11:00

Items/Reason	Relinquished By	Date	Received By	Date	Time
2/metals	Michael Van Cleef	1/13/95	Callenger	1/13/95	2:30
4/BNA, Pest/PCB	Michael Van Cleef	1/13/95	[illegible]	1/13/95	1410
5/VOA	Michael Van Cleef	1/13/95	Lisa Cerundi	1/13/95	1423
3/TCLP	Michael Van Cleef	1/13/95			

FORM #4 8/94

* U.S. GPO 1994 383-015

REAC, Edison, NJ
(908) 321-4200
EPA Contract 68-C4-0022

CHAIN OF CUSTODY RECORD

Project Name: Pier Dam
Project Number: 03347 040 001 UP98 01
RFW Contact: R Lewis Phone: 4269

No: 03671

SHEET NO.__OF__

01695 -

Sample Identification / Analyses Requested

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	Metals	BNA	Pest/PCB's	VOA's	TCP
496	AB00636		W	1/4/95	2	HNO3/4°C	X				
497	CD00636				2	4°C		X			
498	EF00636				2				X		
499	GHI00636				3					X	
500	AB00638				2		X				
501	CD00638				2			X			
502	EF00638				2				X		
503	GHI00638				3					X	

Matrix:

SD -	Sediment	PW -	Potable Water	S -	Soil
DS -	Drum Solids	GW -	Groundwater	W -	Water
DL -	Drum Liquids	SW -	Surface Water	O -	Oil
X -	Other	SL -	Sludge	A -	Air

Special Instructions:

FOR SUBCONTRACTING USE ONLY

FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time	Items/Reason	Relinquished By	Date	Received By	Date	Time
			Michael Van Cleef	1/13/95	11:00	2/metals	Michael Van Cleef	1/13/95	Colleen Ryan	1/13/95	2:30
						4/BNA Pest/PCBs	Michael Van Cleef	1/13/95	[illegible]	1/13/95	1410
						2/VOA	Michael Van Cleef	1/13/95	Dean Cerrido	1/13/95	1423

FORM #4

8/94

★ U.S. GPO 1994-383-015

REAC, Edison, NJ
(908) 321-4200
EPA Contract 68-C4-0022

CHAIN OF CUSTODY RECORD

Project Name: Pier Dam
Project Number: 0334704000100980 1
RFW Contact: R Lemus Phone: 4265

No: 03663

SHEET NO.__OF__

01/13/95

Sample Identification / Analyses Requested

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	TAL Metals	BNA	Pest/PCB	VOA's
516	AD00641		W	1/11/95	2	HNO_3/4°C	X			
517	CD00641				2	4°C		X		
518	EF00641				2				X	
519	GHI00641				3					X
520	BC00645				2					X

Special Instructions:

Matrix:

SD -	Sediment	PW -	Potable Water	S -	Soil
DS -	Drum Solids	GW -	Groundwater	W -	Water
DL -	Drum Liquids	SW -	Surface Water	O -	Oil
X -	Other	SL -	Sludge	A -	Air

FOR SUBCONTRACTING USE ONLY

FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time	Items/Reason	Relinquished By	Date	Received By	Date	Time
All/Analyze	[illegible]	1/12/95	[illegible]	1/13/95	11:00	1/metals	[illegible]	1/13/95	[illegible]	1/13/95	2:30
						2/BNA, tot [illegible]	[illegible]	1/13/95	[illegible]	1/13/95	14:10
						2/VOA	[illegible]	1/13/95	[illegible]	1/13/95	14:23

FORM #4

8/94

★ U.S. GPO 1994-383-015

REAC, Edison, NJ
(908) 321-4200
EPA Contract 68-C4-0022

CHAIN OF CUSTODY RECORD

Project Name: Fir Drum
Project Number: 03347040001009801
RFW Contact: R Lewis Phone: 4261

No: 03670

SHEET NO.__OF__

01395-

Sample Identification / Analyses Requested

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	TAL Metals	BNA	PCB/Pest	VOA's
501	AB00635		W	1/11/95	2	HNO_3/4°C	X			
502	CD00635				2	4°C		X		
503	EF00635				2				X	
504	GHI00635				3					X
505	AB00639				2	HNO_3/4°C	X			
506	CD00639				2	4°C		X		
507	EF00639				2				X	
508	GHI00639				3					X
509	AD00640				2	4°C/HNO_3	X			
510	CD00640				2	4°C		X		
511	EF00640				2				X	
512	GHI00640				3					X

Matrix:

SD -	Sediment	PW -	Potable Water	S -	Soil
DS -	Drum Solids	GW -	Groundwater	W -	Water
DL -	Drum Liquids	SW -	Surface Water	O -	Oil
X -	Other	SL -	Sludge	A -	Air

Special Instructions:
* only 2 bottles
I 00640 missing.

FOR SUBCONTRACTING USE ONLY

FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time	Items/Reason	Relinquished By	Date	Received By	Date	Time
All/Analysis	[illegible]	1/13/95	[illegible]	1/13/95	11:00	3/metals	[illegible]	1/13/95	[illegible]	1/13/95	2:30
						6/BNA & PCB	[illegible]	1/13/95	[illegible]	1/13/95	1410
						3/VOA	[illegible]	1/13/95	[illegible]	1/13/95	1423

FORM #4

8/94

* U.S. GPO 1994 383-015