



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504 • (206) 753-2353

MEMORANDUM
July 23, 1984

To: Rick Pierce
From: Art Johnson *aj*
Subject: Organics in April 17, 1984 Sample from South Lincoln Avenue
Ditch Mouth

Attached, as requested, are data on EPA organic priority pollutants/hazardous substances and other compounds in a water sample collected by Dale Norton on April 17, 1984 at the mouth of South Lincoln Avenue ditch on Blair Waterway. The sample was a composite of four one-quart grabs taken at 1015, 1105, 1135, and 1245 hours. A flow of 1.98 cfs was measured at 1245 hours the same day.

The composite sample was split in the field to provide a pair of duplicates for OA purposes. Agreement between duplicates was good except for compounds below the limit of quantification.

AJ:cp

Attachment

cc: Jim Krull

DATE PREP/RELEASE BY: Kyca MM

SAMPLE NO: J 3457 S. LINCOLN AVE DITCH
 MOUTH, BLAIR WW
 APRIL 17, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc.
 LAB SAMPLE NO: 54287

CASE NO: 2622/730J
 QC REPORT NO: RED 730J-5
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/18/84
 SAMPLE MATRIX: WATER
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE ANALYZED: 4/25/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE EXTRACTED/PREPARED: 4/19/84
 DATE ANALYZED: 5/03/84
 CONC FACTOR: 1000ml/5ml

PP#	CAS #	ug/L	PP#	CAS #	ug/L
2V	107-02-8	acrolein 10 U	89P	309-00-2	aldrin 0.05 K**
3V	107-13-1	acrylonitrile 10 U	90P	60-57-1	dieldrin 0.05 U
4V	71-43-2	benzene 1 U	91P	57-74-9	chlordane 0.50 U
6V	56-23-5	carbon tetrachloride 1 U	92P	50-29-3	4,4'-DDT 0.10 U
7V	108-90-7	chlorobenzene 1 U	93P	72-55-9	4,4'-DDE 0.05 U
8V	107-06-2	1,2-dichloroethane 1 U	94P	72-54-8	4,4'-DDD 0.10 U
1V	71-55-6	1,1,1-trichloroethane 3.1 M	95P	115-29-7	a-endosulfan 0.05 U
3V	75-34-3	1,1-dichloroethane 1 U	96P	115-29-7	b-endosulfan 0.05 U
4V	79-00-5	1,1,2-trichloroethane 1 U	97P	1031-07-8	endosulfan sulfate 0.10 U
5V	79-34-5	1,1,2,2-tetrachloroethane 1 U	93P	72-20-8	endrin 0.05 U
6V	75-00-3	chloroethane 1 U	99P	7421-93-4	endrin aldehyde 0.10 U
9V	110-75-8	2-chloroethylvinyl ether 10 U	100P	76-44-8	heptachlor 0.05 U
3V	67-66-3	chloroform 1.2 M	101P	1024-57-3	heptachlor epoxide 0.05 U
3V	75-35-4	1,1-dichloroethene 1 U	102P	319-84-6	a-BHC 0.05 U
3V	156-60-5	trans-1,2-dichloroethene 1 U	103P	319-85-7	b-BHC 0.05 U
2V	78-87-5	1,2-dichloropropane 1 U	104P	319-86-8	d-BHC 0.05 U
3V	10061-02-6	trans-1,3-dichloropropene 1 U	105P	58-89-9	g-BHC (lindane) 0.05 U
	10061-01-5	cis-1,3-dichloropropene 1 U	106P	53469-21-9	PCB-1242 0.50 U
8V	100-41-4	ethylbenzene 1 U	107P	11097-69-1	PCB-1254 1.0 U
4V	75-09-2	methylene chloride 7.8 M	108P	11104-28-2	PCB-1221 1.0 U
5V	74-87-3	chloromethane 1 U	109P	11141-16-5	PCB-1232 1.0 U
6V	74-83-9	bromomethane 1 U	110P	12672-29-6	PCB-1248 1.0 U
2V	75-25-2	bromoform 1 U	111P	11096-82-5	PCB-1260 2.0 U
3V	75-27-4	bromodichloromethane 1 U	112P	12674-11-2	PCB-1016 0.50 U
3V	75-69-4	fluorotrichloromethane 1 U	113P	8001-35-2	toxaphene 10 U
8V	75-71-8	dichlorodifluoromethane 1 U			
1V	124-48-1	chlorodibromomethane 1 U			
5V	127-18-4	tetrachloroethene 1 U			
6V	108-88-3	toluene 1 U			
7V	79-01-6	trichloroethene 1 U			
6V	75-01-4	vinyl chloride 1 U			
L13	67-64-1	acetone 5 U			
L14	78-93-3	2-butanone 5 U			
L15	75-15-0	carbendisulfide 1 U			
.16	519-78-6	2-hexanone 5 U			
.17	108-10-1	4-methyl-2-pentanone 17.8 M			
.18	100-42-5	styrene 1 U			
.19	108-05-4	vinyl acetate 5 U			
.20	95-47-6	total xylenes 1 U			

MM 7/2/84

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
 P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: ky, MJD

SAMPLE NO: J 3458 DUPLICATE OF J3457

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
 LAB SAMPLE NO: S4289

CASE NO: 2622/730J
 QC REPORT NO: RED 730J-5
 CONTRACT NO: 63-01-6753

DATE SAMPLE REC'D: 4/18/84
 SAMPLE MATRIX: WATER
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE EXTRACTED/PREPARED: 4/20/84
 DATE ANALYZED: 5/24/84
 CONC. FACTOR: 1L/2ml

PP#	CAS #	ug/L	PP#	CAS #	ug/L
21A	88-06-2	2,4,6-trichlorophenol	52B	87-68-3	hexachlorobutadiene
22A	59-50-7	p-chloro-m-cresol	53B	77-47-4	hexachlorocyclopentadiene
24A	95-57-8	2 chlorophenol	54B	78-59-1	isophorone
31A	120-83-2	2,4-dichlorophenol	55B	91-28-5	naphthalene
34A	105-67-9	2,4-dimethylphenol	56B	98-95-3	nitrobenzene
57A	88-75-5	2-nitrophenol	61B	62-75-9	N-nitrosodimethylamine
58A	100-02-7	4-nitrophenol	62B	86-30-6	N-nitrosodiphenylamine
59A	51-28-5	2,4-dinitrophenol	63B	621-64-7	N-nitrosodipropylamine
60A	534-52-1	4,6-dinitro-n-cresol	66B	117-81-7	bis(2-ethylhexyl)phthalate
64A	87-86-5	pentachlorophenol	67B	85-68-7	benzyl butyl phthalate
65A	108-95-2	phenol	68B	84-74-2	di-n-butyl phthalate
CL1	65-85-0	benzoic acid	69B	117-84-0	di-n-octyl phthalate
CL2	95-48-7	2-methylphenol	70B	84-66-2	diethyl phthalate
CL3	108-39-4	4-methylphenol	71B	131-11-3	dimethyl phthalate
CL4	95-95-4	2,4,5-trichlorophenol	72B	56-55-3	benzo(a)anthracene
1E	83-32-9	acenaphthene	73B	50-32-8	benzo(a)pyrene
5B	92-87-5	benzidine	74B	205-99-2	benzo(b)fluoranthene
8B	120-82-1	1,2,4-trichlorobenzene	75B	207-08-9	benzo(k)fluoranthene
9B	118-74-1	hexachlorobenzene	76B	218-01-9	chrysene
12B	67-72-1	hexachloroethane	77B	208-96-8	acenaphthylene
18B	111-44-4	bis(2-chloroethyl)ether	78B	120-12-7	anthracene
20B	91-58-7	2-chloronaphthalene	79B	191-24-2	benzo(ghi)perylene
25B	95-50-1	1,2-dichlorobenzene	80B	86-73-7	fluorene
26B	541-73-1	1,3-dichlorobenzene	81B	85-01-8	phenanthrene
27B	106-46-7	1,4-dichlorobenzene	82B	53-70-3	dibenzo(a,h)anthracene
28B	91-94-1	3,3'-dichlorobenzidine	83B	193-39-5	indeno(1,2,3-cd)pyrene
35B	121-14-2	2,4-dinitrotoluene	84B	129-00-0	pyrene
36B	606-20-2	2,6-dinitrotoluene	CL5	62-53-3	aniline
37B	122-66-7	1,2-diphenylhydrazine	CL6	100-51-6	benzyl alcohol
39B	206-44-0	fluoranthene	CL7	106-47-8	4-chloroaniline
40B	7005-72-3	4-chlorophenyl phenyl ether	CL8	132-64-9	dibenzofuran
41B	101-55-3	4-bromophenyl phenyl ether	CL9	91-57-6	2-methylnaphthalene
42B	39638-32-9	bis(2-chloroisopropyl) ether	CL10	88-74-4	2-nitroaniline
43B	111-91-1	bis(2-chloroethoxy) methane	CL11	99-09-2	3-nitroaniline
			CL12	100-01-6	4-nitroaniline

3.0

0.6

1.0

5.8

11

6/11/84

PREP/RELEASE BY: Kyca / [Signature]

SAMPLE NO: J 3458 DUPLICATE OF J3457

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc.
 LAB SAMPLE NO: 54288

CASE NO: 2622/730J
 QC REPORT NO: RED 730J-5
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/18/84
 SAMPLE MATRIX: WATER
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE ANALYZED: 4/25/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE EXTRACTED/PREPARED: 4/19/84
 DATE ANALYZED: 5/09/84
 CONC FACTOR: 1000nl/5ml

PP#	CAS #	ug/L	PP#	CAS #	ug/L
2V	107-02-8	10 U	89P	309-00-2	0.05 U
3V	107-13-1	10 U	90P	60-57-1	0.05 U
4V	71-43-2	1 U	91P	57-74-9	0.50 U
6V	56-23-5	1 U	92P	50-29-3	0.10 U
7V	108-90-7	1 U	93P	72-55-9	0.05 U
10V	107-06-2	1 U	94P	72-54-8	0.10 U
11V	71-55-6	3.7M	95P	115-29-7	0.05 U
13V	75-34-3	1 U	96P	115-29-7	0.05 U
14V	79-00-5	1 U	97P	1031-07-8	0.10 U
15V	79-34-5	1 U	98P	72-20-8	0.05 U
16V	75-00-3	1 U	99P	7421-93-4	0.10 U
19V	110-75-8	10 U	100P	76-44-8	0.05 U
23V	67-66-3	1.2M	101P	1024-57-3	0.05 U
29V	75-35-4	1 U	102P	319-84-6	0.05 U
30V	156-60-5	1 U	103P	319-85-7	0.05 U
32V	78-87-5	1 U	104P	319-86-8	0.05 U
33V	10061-02-6	1 U	105P	58-89-9	0.05 U
	10061-01-5	1 U	106P	53469-21-9	0.50 U
38V	100-41-4	1 U	107P	11097-69-1	1.0 U
44V	75-09-2	77	108P	11104-28-2	1.0 U
45V	74-87-3	1 U	109P	11141-16-5	1.0 U
46V	74-83-9	1 U	110P	2672-29-6	1.0 U
47V	75-25-2	1 U	111P	11096-82-5	2.0 U
48V	75-27-4	1 U	112P	2674-11-2	0.50 U
49V	75-69-4	1 U	113P	6001-35-2	10 U
50V	75-71-8	1 U			
51V	124-48-1	1 U			
85V	127-18-4	1M			
96V	108-88-3	1 U			
97V	79-01-6	1 U			
88V	75-01-4	1 U			
CL13	67-64-1	5 U			
CL14	78-93-3	5 U			
CL15	75-15-0	1 U			
CL16	519-78-6	5 U			
CL17	108-10-1	16			
CL18	100-42-5	1 U			
CL19	108-05-4	5 U			
CL20	95-47-6	1 U			

OK 7/2/84

TENTATIVELY IDENTIFIED COMPOUNDS

<u>SAMPLE #</u>	<u>COMPOUND NAME</u>	<u>CAS #</u>	<u>ESTIMATED CONC. (ug/kg)</u>
J3454	Benzeneethanol	60-12-8	11.6J
J3457	Octane, 2,6-Dimethyl-	2051-30-1	22.5J
	Heptane, 3-Ethyl-2-Methyl-	14676-29-0	19.3J
	Cyclohexane, 1-Ethyl-2-Methyl-	4923-77-7	43.4J
	Decane	124-18-5	88.0J
	Undecane	1120-21-4	119.9J
	Dodecane	112-40-3	95.7J
	Tridecane, 7-Methyl-	26730-14-3	35.1J
	Tetradecane	629-59-4	62.6J
	Pentadecane	629-62-9	55.6J
	Octadecane	593-45-3	34.7J
	Eicosane	112-95-8	20.6J
J3458	Octane, 2,6-Dimethyl-	2051-30-1	14.3J
	Benzene, 1,2,4-Trimethyl-	95-63-6	22.1J
	Decane	124-18-5	72.5J
	Cyclohexane, Butyl-	1678-93-9	19.1J
	Undecane	1120-21-4	122.8J
	Benzene, 2-Ethyl-1,4-Dimethyl-	1758-88-9	40.2J
	Benzene, 1,2,3,5-Tetramethyl-	527-53-7	58.0J
	Dodecane	112-40-3	74.3J
	Tridecane, 7-Methyl-	26730-14-3	29.0J

TENTATIVELY IDENTIFIED COMPOUNDS

<u>SAMPLE #</u>	<u>COMPOUND NAME</u>	<u>CAS #</u>	<u>ESTIMATED CONC. (ug/kg)</u>
J3458	Tridecane	629-50-5	64.2J
	Tetradecane	629-59-4	51.5J
	Pentadecane	629-62-9	45.8J
J3482	Cyclohexanol, 2-Bromo-, Cis-	165-36-57-5	29.4J
J4514	3-Penten-2-One, 4-Methyl-	41-79-7	8.3J
	1-Pentyn-3-ol, 4-Methyl-	565-68-4	5.6J