COPIES SENT TO RRS - MJT

CITY OF SPRINGFIELD
SAMPLING LOG SHEET

SAMPLE NAME Rockhurst St.
SAMPLE DATE 6-4-93
SAMPLE NUMBER 7470
SAMPLE TYPE Grab
SET UP BY Pabst & Chandler + Conner
COMMENTS

TIME SAMPLER IN 10:00 AM
TIME SAMPLER OUT :
METER END
METER START
REMOVED BY

RECEIVED JUL 20 1993 SEWER OPERATIONS

SAMPLED AT ROCKHURST & BURLON
WATER WAS SLIGHTLY BLUE

CONVENTIONAL PARAMETERS		METALS ANALYSES	TOTAL	DISLV	RECOV	OTHER PARAMETERS	
			✓ HNO3		FLT		
BOD_5	✓	CU	✓			VOLATILE ORGANICS (624)	✓
pH S.U.	✓	CR	✓			BASE NEUTRALS (625)	✓
NFR	✓	ZN	✓			ACID EXTRACTIBLES (625)	✓
COD	✓ H_2SO_4 ✓	CD	✓			PESTICIDES (608)	✓
TOC	H_2SO_4	PB	✓			T.C.D.D.	
TOX	H_2SO_4	NI	✓			P.P.(624,625,608,METALS,CN)	
NH_3-N	✓ H_2SO_4 ✓	AG	✓			IGNITIBILITY	
NO_3-N		FE				CORROSIVITY	
NO_2-N		HG	✓			REACTIVITY	
NO_3+NO_2-N	✓ H_2SO_4 ✓	MN	✓			T.C.L.P.	
CHLORIDE		BA	✓			T.T.O.(624,625,608)	
SULFATE		SE	✓			SULFIDE ZNA,NAOH	
TKN	✓ H_2SO_4 ✓	AS	✓			FLUORIDE	
O-PO_4-P D	✓ FLT	AL				COLOR	
TP	✓ H_2SO_4 ✓	SB	✓			ODOR	
CN TOTAL	✓ NAOH ✓	B				TEMP	
CN AMENA	NAOH	CO				VOLUME	
TDS	✓ FLT	TI				DEPTH	
PHENOLICS	✓ H_2SO_4 ✓	CR+6				HARDNESS(CALC)CA,MG	
O & G	✓ H_2SO_4 ✓	BE	✓				
MBAS		TL				WEATHER	
TURBIDITY		K					
CONDCT		NA					
CORR		MO	✓				
TOT COLI		CA					
FEC COLI		MG				pH METER NO.	
FEC STREP						CONDUCTIVITY METER NO.	

CHAIN OF CUSTODY RECORD

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Conner SEALED [] SHIPPED []	Ken Wh SEALED []	6-4-93	11:40
SEALED [] SHIPPED []	SEALED []		

ss.doc

2800 E. ROCKHURST

SOUTHWEST WASTEWATER PLANT LABORATORY, SPRINGFIELD, MISSOURI

ANALYSIS DATA REPORT

RECEIVED
JUL 20 1993
SEWER
OPERATIONS

SAMPLE NUMBER: 7470
SAMPLE NAME: ROCKHURST ST.

DATE OF SAMPLE: 06/04/93
DATE SUBMITTED: 06/04/93
TIME SUBMITTED: 11:40:00
SAMPLE TYPE: GRAB
SUBMITTED BY: PABST,CORSON,CHAN
SET UP BY:
REMOVED BY:
TIME SAMPLER IN: 10:00:00

TIME SAMPLER OUT:
METER START:
METER END:
TEMP. DEG/C:
DIS. OXY. MG/L:
FLOW: MGD:
VOLUME:
DEPTH:

COMMENTS:
SAMPLE DID NOT FLASH; BOILED AT 99.1 DEG/C. HYDROCARBON CONCENTRATION : 5.06 MG/L; A-V O&G : 22.5 MG/L.

CONVENTIONAL PARAMETERS				TOTAL METALS UG/L	DISSOLVED METALS UG/L	TOTAL RECOVERABLE METALS UG/L
BOD-5	MG/L:	66	CU:	107		
PH STD.	UNITS:		CR:	71.2		
NFR	MG/L:	56	ZN:	112		
COD	MG/L:	NS	CD:	<5		
TOC	MG/L:	63.0	PB:	34.8		
NH3-N	MG/L:	0.78	NI:	<10		
NO3-N	MG/L:	1.44	AG:	<5		
NO2-N	MG/L:	<0.25	FE:			
NO3+NO2-N	MG/L:		HG:	<1		
CHLORIDE	MG/L:		MN:	49.3		
SULFATE	MG/L:		BA:	133		
TKN	MG/L:	8.28	SE:	<20		
TOX	UG/L		AS:	<20		
O-PO4-P DIS	MG/L:	0.69	AL:			
TP	MG/L:	2.16	SB:	<20		
CN TOTAL	UG/L:	<10	B :			
CN AMMENA	UG/L:		CO:			
TDS	MG/L:	284	TI:			
PHENOLICS	UG/L:	12.9	CR+6:			
OIL&GREASE	MG/L:	27.6	BE:	<20		
MBAS	MG/L:		TL:			
TURBIDITY	NTU:		K :			
CONDUCT	UMOS/CM:		NA:			
TOTAL COLI	/100ML:		MO:	<20		
FECAL COLI	/100ML:		CA:			
FECA STREP	/100ML:		MG:			
TOTAL CL2	MG/L:					
FREE CL2	MG/L:					
SULFIDE	MG/L:					
FLUORIDE	MG/L:					

CALCULATED HARDNESS MG EQ. CACO3/L:

SOUTHWEST WASTEWATER PLANT LABORATORY
SPRINGFIELD, MISSOURI
VOLATILE ORGANIC ANALYSIS

EPA METHOD #624

RECEIVED
JUL 20 1993
SEWER
OPERATIONS

SAMPLE NUMBER 7470 DATE OF SAMPLE 06/04/93
SAMPLE CODE MISC COMPOSITE/GRAB GRAB
SAMPLE NAME ROCKHURST ST. SUBMITTED BY PABST,CORSON,CHANDLR

COMMENTS:

	COMPOUND	CONCENTRATION DETECTED (UG/L)	DETECTION LIMIT (UG/L)
1V.	CHLOROMETHANE	BDL	10
2V.	VINYL CHLORIDE	BDL	10
3V.	CHLOROETHANE	BDL	10
4V.	BROMOMETHANE	BDL	10
5V.	ACROLEIN	BDL	12
6V.	ACRYLONITRILE	BDL	22
7V.	METHYLENE CHLORIDE	BDL	5
8V.	TRICHLOROFLUOROMETHANE	BDL	10
9V.	1,1-DICHLOROETHYLENE	BDL	1
10V.	1,1-DICHLOROETHANE	BDL	1
11V.	TRANS-1,2-DICHLOROETHYLENE	BDL	1
12V.	CHLOROFORM	BDL	1
13V.	1,2-DICHLOROETHANE	BDL	1
14V.	1,1,1-TRICHLOROETHANE	3.28	1
15V.	CARBON TETRACHLORIDE	BDL	1
16V.	BROMODICHLOROMETHANE	BDL	1
17V.	1,2-DICHLOROPROPANE	BDL	1
18V.	TRANS-1,3-DICHLOROPROPENE	BDL	1
19V.	TRICHLOROETHYLENE	BDL	1
20V.	BENZENE	BDL	5
21V.	CIS-1,3-DICHLOROPROPENE	BDL	1
22V.	1,1,2-TRICHLOROETHANE	BDL	1
23V.	DIBROMOCHLOROMETHANE	BDL	1
24V.	BROMOFORM	BDL	1
25V.	1,1,2,2-TETRACHLOROETHYLENE	BDL	1
26V.	1,1,2,2-TETRACHLOROETHANE	BDL	1
27V.	TOLUENE	24.1	5
28V.	CHLOROBENZENE	BDL	5
29V.	ETHYLBENZENE	BDL	5
30V.	2-CHLOROETHYL VINYL ETHER	BDL	10
31V.	XYLENES	BDL	10

BDL = BELOW DETECTION LIMIT N.R. = NOT RUN

SOUTHWEST WASTEWATER PLANT LABORATORY
SPRINGFIELD, MISSOURI
PESTICIDES/PCB ANALYSIS

EPA METHOD #608

RECEIVED
JUL 20 1993
SEWER OPERATIONS

SAMPLE NUMBER 7470 DATE OF SAMPLE 06/04/93
SAMPLE CODE MISC COMPOSITE/GRAB GRAB
SAMPLE NAME ROCKHURST ST. SUBMITTED BY PABST, CORSON, CHANDLR

COMMENTS:

	COMPOUND	CONCENTRATION DETECTED (UG/L)	DETECTION LIMIT (UG/L)
1P.	ALDRIN	BDL	0.005
2P.	ALPHA-BHC	BDL	0.005
3P.	BETA-BHC	BDL	0.005
4P.	GAMMA-BHC (LINDANE)	BDL	0.005
5P.	DELTA-BHC	BDL	0.005
6P.	CHLORDANE	BDL	0.010
7P.	4,4'-DDT	BDL	0.005
8P.	4,4'-DDE	0.010	0.005
9P.	4,4'-DDD	BDL	0.005
10P.	DIELDRIN	BDL	0.005
11P.	ALPHA-ENDOSULFAN	BDL	0.005
12P.	BETA-ENDOSULFAN	BDL	0.005
13P.	ENDOSULFAN SULFATE	BDL	0.005
14P.	ENDRIN	BDL	0.005
15P.	ENDRIN ALDEHYDE	BDL	0.005
16P.	HEPTACHLOR	BDL	0.005
17P.	HEPTACHLOR EPOXIDE	BDL	0.005
18P.	PCB-1242	BDL	20
19P.	PCB-1254	BDL	20
20P.	PCB-1221	BDL	10
21P.	PCB-1232	BDL	10
22P.	PCB-1248	BDL	20
23P.	PCB-1260	BDL	20
24P.	PCB-1016	BDL	20
25P.	TOXAPHENE	BDL	0.025

BDL = BELOW DETECTION LIMIT

N.R. = NOT RUN

SOUTHWEST WASTEWATER PLANT LABORATORY
SPRINGFIELD, MISSOURI
BASE NEUTRAL ORGANIC ANALYSIS
EPA METHOD #625

SAMPLE NUMBER	7470	DATE OF SAMPLE	06/04/93
SAMPLE CODE	MISC	COMPOSITE/GRAB	GRAB
SAMPLE NAME	ROCKHURST ST.	SUBMITTED BY	PABST, CORSON, CHANDLR

COMMENTS:

RECEIVED
JUL 20 1993
SEWER OPERATIONS

	COMPOUND	CONCENTRATION DETECTED (UG/L)	DETECTION LIMIT (UG/L)
2B.	BIS (2-CHLOROETHYL) ETHER	BDL	10
3B.	1,3-DICHLOROBENZENE	BDL	10
4B.	1,4-DICHLOROBENZENE	BDL	10
5B.	1,2-DICHLOROBENZENE	BDL	10
6B.	BIS (2-CHLOROISOPROPYL) ETHER	BDL	10
7B.	HEXACHLOROETHANE	BDL	10
8B.	N-NITROSODI-N-PROPYLAMINE	BDL	10
9B.	NITROBENZENE	BDL	10
10B.	ISOPHORONE	BDL	10
11B.	BIS (2-CHLOROETHOXY) METHANE	BDL	10
12B.	1,2,4-TRICHLOROBENZENE	BDL	10
13B.	NAPHTHALENE	BDL	10
14B.	HEXACHLOROBUTADIENE	BDL	10
15B.	HEXACHLOROCYCLOPENTADIENE	BDL	10
16B.	2-CHLORONAPHTHALENE	BDL	10
17B.	DIMETHYLPHTHALATE	BDL	10
18B.	ACENAPHTHYLENE	BDL	10
19B.	2,6-DINITROTOLUENE	BDL	10
20B.	ACENAPHTHENE	BDL	10
21B.	2,4-DINITROTOLUENE	BDL	10
22B	DIETHYLPHTHALATE	BDL	10
23B.	FLUORENE	BDL	10
24B.	4-CHLOROPHENYL PHENYL ETHER	BDL	10
25B.	N-NITROSODIPHENYLAMINE	BDL	10
26B.	1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	BDL	10
27B.	4-BROMOPHENYL PHENYL ETHER	BDL	10
28B.	HEXACHLOROBENZENE	BDL	10
29B.	PHENANTHRENE	BDL	10
30B.	ANTHRACENE	BDL	10
31B.	DI-N-BUTYLPHTHALATE	BDL	10
32B.	FLUORANTHENE	BDL	10
33B.	BENZIDINE	NR	10
34B.	PYRENE	BDL	10
35B.	BUTYLBENZYLPHTHALATE	BDL	10
36B.	BENZO(A)ANTHRACENE	BDL	10
37B.	3,3'-DICHLOROBENZIDINE	NR	10
38B.	CHRYSENE	BDL	10
39B.	BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10
40B.	DI-N-OCTYLPHTHALATE	BDL	10
41B.	BENZO(B)FLUORANTHENE	BDL	10
42B.	BENZO(K)FLUORANTHENE	BDL	10
43B.	BENZO(A)PYRENE	BDL	10
44B.	INDENO(1,2,3-C,D)PYRENE	BDL	10
45B.	DIBENZO(A,H)ANTHRACENE	BDL	10
46B.	BENZO(B,H,I)PERYLENE	BDL	10
47B.	2,3,7,8 TCDD (DIOXIN)	BDL	0.1
48B.	BROMOMETHOXYNAPTHALENE (BMN)	BDL	10

BDL = BELOW DETECTION LIMIT N.R. = NOT RUN

SOUTHWEST WASTEWATER PLANT LABORATORY
SPRINGFIELD, MISSOURI
ACID ORGANIC COMPOUND ANALYSIS

EPA METHOD #625

RECEIVED
JUL 20 1993
SEWER
OPERATIONS

SAMPLE NUMBER	7470	DATE OF SAMPLE	06/04/93
SAMPLE CODE	MISC	COMPOSITE/GRAB	GRAB
SAMPLE NAME	ROCKHURST ST.	SUBMITTED BY	PABST, CORSON, CHANDLR

COMMENTS:

	COMPOUND	CONCENTRATION DETECTED (UG/L)	DETECTION LIMIT (UG/L)
1A.	PHENOL	BDL	10
2A.	2-CHLOROPHENOL	BDL	10
3A.	2-NITROPHENOL	BDL	20
4A	2,4-DIMETHYLPHENOL	BDL	10
5A.	2,4-DICHLOROPHENOL	BDL	10
6A.	P-CHLORO-M-CRESOL	BDL	10
7A.	2,4,6-TRICHLOROPHENOL	BDL	10
8A.	2,4-DINITROPHENOL	BDL	25
9A.	4-NITROPHENOL	BDL	25
10A	4,6-DINITRO-O-CRESOL	BDL	25
11A.	PENTACHLOROPHENOL	BDL	25

BDL = BELOW DETETCTION LIMITS