01 MAY 1980

LABORATORY ANALYSIS (1)

TEST RESULTS REPORTED IN MG/L EXCEPT PH AND TEMPERATURE

SAMPLE ID: NUS 08110083
: EPA 28-36-24

SOURCE : PLANT NO. 4622 ZINC
: RAW WATER
LOC/DAY: A 1

PARAMETER NO.	NAME	T/D	(2) CONCENTRATION MG/L	PARAMETER NO.	NAME	T/D	(2) CONCENTRATION MG/L
121	CYANIDES	T	0.013	153	MAGNESIUM (MG)	T	35
122	LEAD (PB)	T	< 0.05	155	SILICA (SI)	D	8.4
128	ZINC (ZN)	T	0.04	157	SULFATE (S)	T	16
131	SUSPENDED SOLIDS	T	1	158	DISSOLVED SOLIDS	T	560
132	OIL & GREASE (O&G)	T	9	160	THIOCYANATE (SCN)	T	< 0.1
133	AMMONIA (N)	T	0.4	161	CYANATE (CNO)	T	< 0.4
134	AMENABLE CYANIDES	T	0.001	163	IRON (FE)	T	0.70
135	SULFIDE (S)	T	1.4	164	SODIUM (NA)	T	45
136	PH	T	7.7	172	ACIDITY FREE (CACO3)	T	0
137	FLUORIDE (F)	T	0.67	173	ALKALINITY PHT. (CACO3)	T	0
138	MANGANESE (MN)	T	0.06	175	ALUMINUM (AL)	T	< 0.1
142	TIN (SN)	T	< 2	181	CARBON ORGANIC (C)	T	3
147	ACIDITY TOTAL (CACO3)	T	13	184	CYANIDE FREE AISI	T	0.010
148	ALKALINITY MO (CACO3)	T	305	190	NITROGEN,KJELDAHL (N)	T	0.5
149	CHLORIDE (CL)	T	71	191	PHENOLIC CPDS. (PHENOL)	T	< 0.002
150	HARDNESS	T	882	195	VOLATILE SOLIDS	D	150
151	CALCIUM (CA)	T	92	201	POTASSIUM (K)	T	2.5

(1) ALL ANALYSIS RUN BY NUS LAB

(2) T/D INDICATES TOTAL OR DISSOLVED

01 MAY 1980

LABORATORY ANALYSIS (1)

TESTS RESULTS REPORTED IN MG/L

SAMPLE ID: NUS 18110084
: 18110086
: EPA 28-36-25

SOURCE : PLANT NO. 4622 ZINC
: QUENCH WASTES
LOC/DAY: B 1

PARAMETER NO.	NAME	CONCENTRATION (2) MG/L	PARAMETER NO.	NAME	CONCENTRATION (2) MG/L
001	ACENAPHTHENE	ND	044	METHYLENE CHLORIDE (	0.300
002	ACROLEIN	ND	045	METHYL CHLORIDE (CHL	ND
003	ACRYLONITRILE	ND	046	METHYL BROMIDE (BROM	ND
004	BENZENE	0.150	047	BROMOFORM (TRIBROMOM	ND
005	BENZIDINE	ND	048	DICHLOROBROMOMETHANE	ND
006	CARBON TETRACHLORIDE	0.029	049	TRICHLOROFLUOROMETHA	ND
007	CHLOROBENZENE	ND	050	DICHLORODIFLUOROMETH	ND
008	1,2,4-TRICHLOROBENZE	ND	051	CHLORODIBROMOMETHANE	ND
009	HEXACHLOROBENZENE	ND	052	HEXACHLOROBUTADIENE	ND
010	1,2-DICHLOROETHANE	ND	053	HEXACHLOROCYCLOPENTA	ND
011	1,1,1-TRICHLOROETHAN	0.044	054	ISOPHORONE	ND
012	HEXACHLOROETHANE	ND	055	NAPHTHALENE	0.060
013	1,1-DICHLOROETHANE	ND	056	NITROBENZEN	ND
014	1,1,2-TRICHLOROETHAN	ND	057	2-NITROPHENOL	ND
015	1,1,2,2-TETRACHLOROE	ND	058	4-NITPOPHENOL	ND
016	CHLOROETHANE	ND	059	2,4-DINITROPHENOL	ND
017	BIS-(CHLOROMETHYL) E	ND	060	4,6-DINITRO-O-CRESOL	ND
018	BIS(2-CHLOROETHYL) E	ND	061	N-NITROSODIMETHYLAMI	ND
019	2-CHLOROETHYL VINYL	ND	062	N-NITROSODIPHENYLAMI	ND
020	2-CHLORONAPHTHALENE	ND	063	N-NITROSODI-N-PROPYL	ND
021	2,4,6-TRICHLOROPHENO	ND	064	PENTACHLOROPHENOL	ND
022	PARACHLOROMETA CRESO	0.030	065	PHENOL	0.460
023	CHLOROFORM	0.067	066	BIS-(2-ETHYLHEXYL) P	4.300
024	CHLOROPHENOL	0.210	067	BUTYL BENZYL PHTHALA	ND
025	1,2-DICHLOROBENZENE	ND	068	DI-N-BUTYL PHTHALATE	0.220
026	1,3-DICHLOROBENZENE	ND	069	DI-N-OCTYL PHTHALATE	2.800
027	1,4-DICHLOROBENZENE	ND	070	DIETHYL PHTHALATE	ND
028	3,3-DICHLOROBENZIDIN	ND	071	DIMETHYL PHTHALATE	ND
029	1,1-DICHLOROETHYLENE	ND	072	BENZO (A) ANTHRACENE	ND
030	1,2-TRANS-DICHLOROET	0.043	073	BENZO (A) PYRENE (3,	ND
031	2,4-DICHLOROPHENOL	ND	074	3,4-BENZOFLUORANTHEN	ND
032	1,2-DICHLOROPROPANE	ND	075	BENZO (K) FLUORANTHA	ND
033	1,2-DICHLOROPROPYLEN	ND	076	CHRYSENE	ND
034	2,4-DIMETHYLPHENOL	0.032	077	ACENAPHTHYLENE	ND
035	2,4-DINITROTOLUENE	ND	078	ANTHRACENE	ND
036	2,6-DINITROTOLUENE	ND	079	BENZO (GHI) PERYLENE	ND
037	1,2-DIPHENYLHYDRAZIN	ND	080	FLUORENE	ND
038	ETHYLBENZENE	ND	081	PHENATHRENE	ND
039	FLUORANTHENE	ND	082	DIBENZO (A,H) ANTHRA	ND
040	4-CHLOROPHENYL PHENY	ND	083	INDENO (1,2,3-CD) PY	ND
041	4-BROMOPHENYL PHENYL	ND	084	PYRENE	ND
042	BIS (2-CHLOROISOPROP	ND	085	TETRACHLOROETHYLENE	0.142
043	BIS (2-CHLOROETHOXY)	ND	086	TOLUENE	0.027

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: 18110086
: EPA 28-36-25

SOURCE : PLANT NO. 4622 ZINC
: QUENCH WASTES
LOC/DAY: B 1

PARAMETER NO.	NAME	CONCENTRATION (2) MG/L	PARAMETER NO.	NAME		CONCENTRATION (2) MG/L
087	TRICHLOROETHYLENE	0.230	101	HEPTACHLOR EPOXIDE		**
088	VINYL CHLORIDE (CHLO	ND	102	A-BHC-ALPHA		**
089	ALDRIN	ND	103	B-BHC-BETA		ND
090	DIELDRIN	ND	104	R-BHC (LINDANE)-GAMA		**
091	CHLORDANE	**	105	G-BHC-DELTA		ND
092	4,4'-DDT	**	106	PCB-1242 (AROCHLOR 1	&	0.050
093	4,4'-DDE (P,P'-DDX)	**	107	PCB-1254 (AROCHLOR 1	&	0.050
094	4,4'-DDD (P,P'-TDE)	ND	108	PCB-1221 (AROCHLOR 1	&	0.050
095	A-ENDOSULFAN-ALPHA	**	109	PCB-1232 (AROCHLOR 1	&	0.056
096	B-ENDOSULFAN-BETA	**	110	PCB-1248 (AROCHLOR 1	&	0.056
097	ENDOSULFAN SULFATE	**	111	PCB-1260 (AROCHLOR 1	&	0.056
098	ENDRIN	ND	112	PCB-1016 (AROCHLOR 1	&	0.056
099	ENDRIN ALDEHYDE	ND	113	TOXAPHENE		ND
100	HEPTACHLOR	ND	130	XYLENE		ND

(1) ALL ANALYSIS RUN BY NUS LAB

(2) * CONCENTRATION IS <10 PPB
** CONCENTRATION IS <5 PPB
+ PRESENT BUT NOT QUANTIFIED
<= COMPOUND COULD NOT BE SEPARATED
& COMPOUND IS PART OF A GROUP
ND NOT DETECTED
NS NOT SAMPLED
NR NOT REPORTED
NA NOT ANALYZED