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Dow Chem. Co. #30106

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JAN 25 '82
ENFORCEMENT AND FIELD OPERATIONS

MONITORING WELL DATA

Attached are data sheets containing a full set of background monitoring data as required by Rule 156.22.12.005(a) for 9 monitoring wells surrounding the Texas Division's Hazardous Waste Landfill (Facility No. 5). We started collecting this data in May of 1980 shortly after construction commenced on the site. Since total organic haolgen was not proposed until May of 1980, sampling continued for six quarters before a full set of data was obtained. Yearly sampling following Rule 156.22.12.003(d) will commence in February of 1982.

The turbidity in all wells exceeds the drinking water values of Appendix III. However, the footnote to the table says "turbidity is applicable only to surface water". On one occasion we found a gas chromatograph peak which could have been toxaphene. Although the quantity was in excess of the Appendix III value, samples from subsequent quarters suggest the peak was not toxaphene. There are several instances where the background levels of lead are in excess of Appendix III limits; we are not sure whether these values represent a contamination from our sampling or analytical procedure or a high background level in the water. However, we would not consider this to be a problem since we are sampling shallow, brackish, groundwater far above any aquafier which could be considered suitable for drinking water.

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9525001

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MONITOR WELL LOG - WELL # 3

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepcific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organ Halog (mg/
May '80	9.25	14600	20	7.0	0.65	<0.05	7880	46.9	0.52	18	-
Aug. '80	9.25	15150	25	7.5	0.49	<0.05	6390	44.9	0.021	128	-
Nov. '80	9.25	10200	22	6.4	0.70	<0.05	6250	48.8	0.017	18	0.127
Feb. '81	9.5	10700	20	6.6	0.66	<0.05	6390	47.7	0.014	20	0.062
May '81	9.5	8600	20	6.5	0.54	<0.05	5680	51.9	0.011	15	0.052
Aug. '81	8.5	5850	24	6.6	0.93	<0.05	4900	48.3	0.039	5	0.327
Average	9.2	10750	22	6.8	0.66	<0.05	6250	48.1	0.104	34	0.142
Variance	0.135	1.32x10	5.0	0.17	0.024	0	9.69×10^5	5.36	0.042	2149	0.016

	Endrin (mg/l)	Lindane (mg/l)	Methoxy-Chlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbity NTU	Water Level Above Sea Level (Feet)	Colifo Bacter (Count 100 m
May '80	<0.01	<0.01	<0.01	0.04	<0.1	<0.01			27	10.0	3600
Aug. '80	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01			52	9.75	990
Nov. '80	<0.002	<0.004	<0.01	<0.005	<0.1	<0.01			17	9.75	770
Feb. '81	<0.002	<0.004	<0.01	<0.005	<0.1	<0.01			8	0/5	370
May '81	<0.002	<0.004	<0.01	<0.005	<0.1	<0.01			9.5	9.5	510
Aug. '81	<0.002	<0.004	<0.01	<0.005	<0.1	<0.01			30	10.5	3000
Average	<0.002	<0.004	<0.01	0.007	<0.1	<0.01			24	9.8	1540
Variance	0	0	0	0.0003	0	0			269	0.14	1.94x1

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodiu (mg/l
May '80	<0.05	0.15	<0.01	<0.05	1.4	<0.005	<0.01	<0.1	0.16	6.7	2300
Aug. '80	<0.05	0.7	<0.01	<0.05	0.2	0.006	<0.01	<0.05	0.2	6.0	2900
Nov. '80	<0.1	0.5	<0.01	<0.05	<0.05	<0.002	<0.025	<0.05	0.2	7.1	2500
Feb. '81	<0.05	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.06	0.2	5.6	2500
May '81	<0.06	0.12	<0.01	<0.05	0.16	<0.002	<0.01	<0.05	<0.1	3.04	2640
Aug. '81	<0.06	0.13	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	1.00	5.30	2900
Average	<0.05	0.30	<0.01	<0.05	0.29	<0.002	<0.01	<0.05	0.29	5.66	2623
Variance	<0.001	0.06	0	0	0.30	0.000001	0	0	0.13	2.05	57667

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MONITOR WELL LOG - WELL # 4

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Specific Conductance (mhos/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate-N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organ Halog (mg/
May '80	10.5	7300	20	6.8	0.55	<0.05	5740	22.0	0.010	24	-
Aug. '80	11.25	[illegible]	25	7.8	0.45	<0.05	2310	15.2	0.005	35	-
Nov. '80	10.5	4330	22	6.8	0.53	<0.05	2980	16.1	0.006	10	0.10
Feb. '81	10.5	5000	19	6.7	0.49	<0.05	2910	15.3	<0.001	20	0.00
May '81	10.75	4640	20	6.7	0.54	<0.05	2485	12.1	<0.001	10	0.08
Aug. '81	10.0	5500	23	6.6	0.56	<0.05	3200	16.1	<0.001	5	0.21
Average	10.6	5520	22	6.8	0.52	<0.05	3270	16.1	0.004	17	0.10
Variance	0.167	1.9×10^4	5.0	0.019	0.0018	0	2.57×10^4	10.5	0.00002	120	0.00

	Endrin (mg/l)	Lindane (mg/l)	Methoxychlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbidity NTU	Water Level Above Sea Level (Feet)	Colifor Bacter (Count 100 m
May '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			18	9.0	240
Aug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			74	9.0	0
Nov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			15	8.25	210
Feb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			1.5	9.0	20
May '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			17	9.0	1950
Aug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			22	8.75	2000
Average	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			25	8.8	737
Variance	0	0	0	0	0	0			630	0.09	9.3×10^5

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodium (mg/l)
May '80	<0.05	0.2	<0.1	<0.1	0.7	<0.005	<0.01	<0.1	0.3	4.6	1300
Aug. '80	<0.05	0.3	<0.01	<0.05	0.1	<0.002	<0.01	<0.05	0.1	4.3	1300
Nov. '80	<0.1	0.4	<0.01	<0.05	<0.05	<0.002	<0.025	<0.05	0.5	4.1	1200
Feb. '81	<0.05	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	0.2	3.8	1200
May '81	<0.05	0.16	<0.01	<0.05	0.07	<0.002	<0.01	<0.05	<0.1	3.33	1030
Aug. '81	<0.05	0.26	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	4.20	2100
Average	<0.05	0.25	<0.01	<0.05	0.145	<0.002	<0.01	<0.05	0.18	4.06	1363
Variance	0	0.008	0	0	0.076	0	0	0	0.047	0.194	137000

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MONITOR WELL LOG - WELL #

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepcific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organic Halo (mg
May '80	10.25	3100	20	7.2	1.2	<0.05	1410	9.4	0.011	26	---
Aug. '80	10.75	2520	24	7.9	1.13	<0.05	107	7.38	0.014	30	---
Nov. '80	11.25	2260	22	6.8	1.48	<0.05	925	8.15	0.006	4	0.06
Feb. '81	11.25	2550	20	7.3	1.03	<0.05	1560	7.16	0.005	30	0.01
May '81	11.0	2260	20	7.0	1.04	<0.05	1640	6.14	<0.001	8	0.02
Aug. '81	9.75	2450	24	6.8	0.70	<0.05	1560	6.23	<0.001	5	.11
Average	10.7	2590	22	7.2	1.10	<0.05	1200	7.41	0.006	17	0.05
Variance	0.36	1.22×10^5	4.0	0.17	0.06	0	3.53×10^5	1.52	3.24×10^{-5}	163	0.00

	Endrin (mg/l)	Lindane (mg/l)	Methoxychlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbity NTU	Water Level Above Sea Level (Feet)	Colif Bacte (Coun 100
May '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			26	9.5	50
Aug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			48	9.25	180
Nov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			3	8.75	8
Feb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			2	8.75	23
May '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			15	9.0	73
Aug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			24	10.25	90
Average	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			20	9.3	70
Variance	0	0	0	0	0	0			295	0.33	3.79×1

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodi (mg/
May '80	<0.1	0.20	<0.1	<0.1	0.2	<0.005	<0.01	<0.1	0.2	1.1	590
Aug. '80	<0.05	0.20	<0.01	<0.05	0.1	<0.002	<0.01	<0.05	<0.1	0.	710
Nov. '80	<0.1	0.20	<0.01	<0.05	<0.05	<0.002	<0.025	<0.05	0.1	1.0	630
Feb. '81	<0.05	0.20	<0.01	<0.05	<0.05	<0.002	<0.01	<0.06	0.2	0.7	580
May '81	<0.05	0.20	<0.01	<0.05	0.13	<0.002	<0.01	<0.05	<0.1	0.68	690
Aug. '81	<0.05	0.52	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	2.0	900
Average	<0.05	0.25	<0.01	<0.05	0.06	<0.002	<0.01	<0.05	0.08	0.98	683
Variance	0	0.02	0	0	0.008	0	0	0	0.001	0.31	1400

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MONITOR WELL LOG - WELL # [illegible]

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Specific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Tota Orga Halo (mg
May '80	10.25	5150	21	7.2	1.2	<0.05	4230	55.8	0.015	18	–
Aug. '80	11.5	5800	23	7.8	0.9	<0.05	1950	52.4	0.053	40	–
Nov. '80	11.5	3170	23	7.2	1.16	<0.05	1705	53.0	0.011	8	0.0
Feb. '81	11.5	3650	21	7.2	0.82	<0.05	2240	52.4	0.006	30	0.0
May '81	10.5	2230	20	6.9	0.86	<0.05	2200	52.0	<0.001	6	0.0
Aug. '81	9.75	1700	24	6.7	1.13	<0.05	1490	52.5	<0.001	5	0.0
Average	10.8	3619	22	7.2	1.0	<0.05	2300	53.0	0.014	18	0.0
Variance	0.592	2.58×10^6	2.4	0.14	0.029	0	9.74×10^5	2.00	4.0×10^{-4}	208	0.0

	Endrin (mg/l)	Lindane (mg/l)	Methoxy-Chlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbidity NTU	Water Level Above Sea Level (Feet)	Colif Bacte (Coun 100
May '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			17	9.0	270
Aug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			43	8.0	170
Nov. '80	<0.0002	<0.008	<0.1	<0.005	<0.1	<0.01			5	8.0	0
Feb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			1.5	8.0	8
May '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			11	9.0	750
Aug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			27	9.75	1500
Average	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			17	8.6	450
Variance	0	0.00001	0	0	0	0			239	0.54	3.4x1

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodi (mg/
May '80	<0.1	0.1	<0.1	<0.1	0.2	<0.005	<0.01	<0.1	0.1	0.5	120
Aug. '80	<0.05	0.2	<0.01	<0.05	0.1	<0.002	<0.01	<0.05	0.1	0.4	130
Nov. '80	<0.1	0.2	<0.01	<0.05	<0.05	<0.002	<0.025	<0.05	0.1	0.9	110
Feb. '81	<0.05	0.1	<0.01	<0.05	<0.05	<0.002	<0.01	<0.06	0.1	0.8	110
May '81	0.08	0.08	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.6	124
Aug. '81	<0.05	0.08	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.8	130
Average	<0.05	0.13	<0.01	<0.05	0.05	<0.002	<0.01	<0.05	<0.1	0.67	120
Variance	0.001	0.003	0	0	0.007	0	0	0	0.003	0.039	826

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MONITOR WELL LOG - WELL # 7

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepcific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organic Halogen (mg/l)
ay '80	5.5	827	20	6.9	1.33	<0.05	4518	54.9	0.007	10	-
ug. '80	6.5	7770	26	7.6	1.5	<0.05	3480	71.6	0.006	20	-
ov. '80	7.5	6000	23	7.0	1.82	<0.05	3200	63.0	0.008	10	<0.3
eb. '81	7.25	6625	19	6.9	1.43	<0.05	3900	69.1	0.002	9	0.099
ay '81	6.5	5030	21	7.0	1.51	<0.05	3835	71.5	<0.001	14	0.042
ug. '81	5.5	4480	26	6.9	2.09	<0.05	3220	70.6	<0.001	5	0.115
verage	6.5	6360	23	7.1	1.61	<0.05	3690	66.8	0.004	11	(3) 0.085
ariance	0.71	2.23×10^6	9.1	0.075	0.081	0	2.51×10^5	44.2	1.3×10^{-5}	26.3	0.0015

	Endrin (µg/l)	Lindane (mg/l)	Methoxy-Chlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbity NTU	Water Level Above Sea Level (Feet)	Coliform Bacteria (Counts/100 ml)
ay '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			8	7.25	1856
ug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			28	6.5	140
ov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			12	5.5	900
eb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			5	5.75	2300
ay '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			7	6.5	780000
ug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			12	7.5	160
verage	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			12	6.5	130900
ariance	0	0	0	0	0	0			69	0.63	1.01×10^{11}

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodium (mg/l)
ay '80	<0.05	0.1	<0.1	<0.1	0.53	<0.005	<0.01	<0.1	0.1	0.75	1500
ug. '80	<0.05	0.3	<0.01	<0.05	0.2	<0.002	<0.01	<0.05	0.1	1.0	1800
ov. '80	<0.1	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	1.5	1800
eb. '81	<0.05	0.3	<0.01	<0.05	<0.05	<0.002	<0.01	<0.1	0.1	1.6	1800
ay '81	0.08	0.27	<0.01	<0.05	0.14	<0.002	<0.01	<0.05	<0.1	1.14	1820
ug. '81	<0.05	0.08	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	0.1	1.40	2100
verage	<0.05	0.21	<0.01	<0.05	0.15	<0.002	<0.01	<0.05	<0.1	1.23	1803
ariance	0.0011	0.010	0	0	0.043	0	0	0	0.003	0.106	36000

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MONITOR WELL LOG - WELL # 8

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepcific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organic Halogen (mg/l)
ay '80	6.75	8125	22	7.2	0.7	<0.05	3480	61.4	0.012	8	-
ug. '80	9.0	7150	25	7.7	0.59	<0.05	2910	65.6	0.005	11	-
ov. '80	9.5	5975	23	7.1	0.72	<0.05	2840	63.9	0.005	6	-
eb. '81	9.25	6100	21	7.1	0.64	<0.05	3270	65.9	0.002	12	0.094
ay '81	9.0	5150	21	7.0	0.66	<0.05	3410	64.5	<0.001	11	0.192
ug. '81	8.75	4370	27	6.8	0.92	<0.05	2910	67.1	<0.001	10	0.076
verage	8.70	6145	23	7.2	0.71	<0.05	3140	64.7	0.004	10	(3) 0.121
ariance	0.985	1.82×10^{9}	5.8	0.091	0.013	0	8.02×10^{4}	3.9	2.04×10^{-5}	5.1	0.0039

	Endrin (mg/l)	Lindane (mg/l)	Methoxychlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbidity NTU	Water Level Above Sea Level (Feet)	Coliform Bacteria (Counts/100 ml)
ay '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			7	7.25	320
ug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			54	4.0	590
ov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			10	3.5	840
eb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			5	3.75	117
ay '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			10	4.0	T.N.T.C.
ug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			22	4.25	13400
verage	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			18	4.5	3053
ariance	0	0	0	0	0	0			346	1.39	3.35×10^{7}

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodium (mg/l)
ay '80	<0.1	0.1	<0.1	<0.1	0.56	<0.005	<0.01	<0.1	<0.1	0.7	1400
ug. '80	<0.05	0.3	<0.01	<0.05	0.2	<0.002	<0.01	<0.05	<0.1	0.6	1600
ov. '80	<0.1	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.9	1500
eb. '81	<0.05	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.01	<0.1	0.3	1500
ay '81	0.06	0.09	<0.01	<0.05	0.12	<0.002	<0.01	<0.05	<0.1	<0.1	1630
ug. '81	<0.05	0.08	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.8	1900
verage	<0.05	0.16	<0.01	<0.05	0.15	<0.002	<0.01	<0.05	<0.1	0.55	1588
ariance	0.0006	0.008	0	0	0.048	0	0	0	0	0.115	30000

ATTACHMENT

IF THE PAGE FILMED IS NOT AS LEGIBLE AS THIS LABEL, IT IS DUE TO THE QUALITY OF THE ORIGINAL.

MONITOR WELL LOG - WELL # 9

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepci-fic Conduc-tance (mho/cm)	Temp. °C	pH	Fluo-ride (mg/l)	Nitrate -N (mg/l)	Chlo-ride (mg/l)	Sul-fate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organic Halogen (mg/l)
ay '80	6.25	10625	21	7.0	1.23	<0.05	5010	63.5	0.008	11	-
ug. '80	6.75	10250	26	7.6	1.20	<0.05	4120	66.1	0.013	46	-
ov. '80	10.25	8350	23	6.8	1.00	<0.05	3980	66.2	<0.005	2	-
eb. '81	10.0	8825	20	6.7	1.28	<0.05	4540	65.8	<0.001	13	0.014
ay '81	10.5	7000	21	7.0	1.37	<0.05	4260	66.1	<0.001	11	0.614
ug. '81	10.25	6000	27	6.9	0.71	<0.05	3690	70.0	<0.001	20	0.090
verage	9.0	8510	23	7.0	1.13	<0.05	4267	66.3	0.004	17	(310.239
ariance	3.8	3.24×10^{6}	7.8	0.10	0.058	0	2.13×10^{5}	4.4	3.2×10^{-5}	233	0.107

	Endrin (mg/l)	Lindane (mg/l)	Meth-oxy-Chlor (mg/l)	Toxa-phene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turb-ity NTU	Water Level Above Sea Level (Feet)	Coliform Bacteria (Counts/ 100 ml)
ay '80	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01			14	7.5	1260
ug. '80	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01			69	5.75	3300
ov. '80	<0.0002	<0.004	<0.1	<0.005	<0.01	<0.01			19	3.25	2700
eb. '81	<0.0002	<0.004	<0.1	<0.005	<0.01	<0.01			16	3.5	1500
ay '81	<0.0002	<0.004	<0.1	<0.005	<0.01	<0.01			7	3.0	T.N.T.C.
ug. '81	<0.0002	<0.004	<0.1	<0.005	<0.01	<0.01			11	3.25	540
verage	<0.0002	<0.004	<0.1	<0.005	<0.01	<0.01			23	4.5	1860
ariance	0	0	0	0	0	0			532	4.1	1.25×10^{6}

	Arsenic (mg/l)	Barium (mg/l)	Cad-mium (mg/l)	Chro-mium (mg/l)	Lead (mg/l)	Mer-cury (mg/l)	Selen-ium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manga-nese (mg/l)	Sodium (mg/l)
ay '80	<0.05	0.1	<0.1	<0.1	0.8	<0.005	<0.01	<0.1	0.1	1.5	1800
ug. '80	<0.05	0.4	<0.01	<0.05	0.1	<0.002	<0.01	<0.05	0.1	1.3	2000
ov. '80	<0.1	0.3	<0.005	<0.05	<0.05	<0.002	<0.01	<0.05	0.1	1.7	2200
eb. '81	<0.05	0.3	<0.01	<0.05	<0.05	<0.002	<0.01	0.1	0.1	3.0	2100
ay '81	0.06	0.08	<0.01	<0.05	0.17	<0.002	<0.01	<0.01	<0.1	1.44	2000
ug. '81	<0.05	0.08	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	1.70	2100
verage	<0.05	0.21	<0.01	<0.05	0.19	<0.002	<0.01	<0.05	<0.1	1.77	2033
ariance	6×10^{-4}	0.14	0	0	0.10	0	0	0.002	0.003	0.39	23000

ATTACHMENT

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MONITOR WELL LOG - WELL # 10

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sepcific Conductance (mho/cm)	Temp. °C	pH	Fluoride (mg/l)	Nitrate -N (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Total Organ Halog (mg/
May '80	6.5	7510	21	7.3	0.6	<0.05	3480	52.6	0.006	8	----
Aug. '80	6.25	7725	27	7.3	0.58	<0.05	2590	60.2	0.016	33	----
Nov. '80	8.5	5575	23	7.0	0.59	<0.05	2340	58.8	0.005	9	0.051
Feb. '81	8.75	5050	19	6.9	0.71	<0.05	2770	60.2	0.005	11	0.080
May '81	8.75	5000	20	6.9	0.68	<0.05	2910	60.7	<0.001	15	0.124
Aug. '81	6.0	4700	27	6.8	0.88	<0.05	3270	61.5	<0.001	15	0.082
Average	7.5	5925	23	7.0	0.67	<0.05	2890	59.0	0.005	15	0.084
Variance	1.79	1.80×10^6	12.2	0.047	0.013	0	1.80×10^5	10.6	3.43×10^{-5}	85.0	0.009

	Endrin (mg/l)	Lindane (mg/l)	Methoxychlor (mg/l)	Toxaphene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turbity NTU	Water Level Above Sea Level (Feet)	Colifo Bacter (Count 100 m
May '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			13	7.75	2430
Aug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			33	7.25	40
Nov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			25	5.75	1100
Feb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			10	5.25	313
May '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			4.5	5.25	600000
Aug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			9	8.0	33000
Average	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			16	6.5	106147
Variance	0	0	0	0	0	0			119	1.61	5.87×1

	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Sodiu (mg/l
May '80	<0.05	0.1	<0.1	<0.1	0.67	<0.005	<0.01	<0.1	<0.1	0.76	1200
Aug. '80	<0.05	0.3	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	0.1	0.5	1300
Nov. '80	<0.1	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.8	1200
Feb. '81	<0.05	0.2	<0.01	<0.05	<0.05	<0.002	<0.01	0.1	0.1	1.1	1200
May '81	<0.05	0.10	<0.01	<0.05	0.18	<0.002	<0.01	<0.05	<0.1	0.81	1320
Aug. '81	<0.05	0.06	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	1.10	1400
Average	<0.05	0.16	<0.01	<0.05	0.14	<0.002	<0.01	<0.05	<0.1	0.85	1270
Variance	0	0.008	0	0	0.072	0	0	0.002	0.003	0.052	7000

ATTACHMENT

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MONITOR WELL LOG - WELL # 1

BACKGROUND AVERAGES

	Water Level to Top of Pipe (Feet)	Sep i-fic Conduc-tance (mho/cm)	Temp. °C	pH	Fluo-ride (mg/l)	Nitrate -N (mg/l)	Chlo-ride (mg/l)	Sul-fate (mg/l)	Total Phenols (mg/l)	Total Organic Carbon (mg/l)	Tota Orga Halo (mg
May '80	6.5	4070	21	7.1	0.73	<0.05	1980	53.2	0.007	15	---
Aug. '80	7.25	4140	26	7.9	0.60	<0.05	107	53.4	0.010	28	---
Nov. '80	7.25	3620	23	7.5	0.57	<0.05	1070	53.5	0.019	3	---
Feb. '81	7.25	3025	20	7.3	0.82	<0.05	1350	61.8	0.006	8	0.1
May '81	7.5	3000	22	7.1	0.69	<0.05	1420	56.4	0.009	1	0.(
Aug. '81	6.25	2810	27	6.9	0.91	<0.05	850	56.1	<0.001	15	(3) .(
Average	7.0	3440	23	7.3	0.72	<0.05	1130	55.7	0.009	12	0.0
Variance	0.25	3.36×10^{5}	7.9	0.128	0.017	0	3.97×10^{5}	10.8	3.87×10^{-5}	98	0.(

	Endrin (mg/l)	Lindane (mg/l)	Meth-oxy-Chlor (mg/l)	Toxa-phene (mg/l)	2,4-D (mg/l)	2,4,5,-TP Silvex (mg/l)			Turb-ity NTU	Water Level Above Sea Level (Feet)	Colif Bacte (Coun 100
May '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			14	8.0	361
Aug. '80	<0.01	<0.01	<0.1	<0.01	<0.1	<0.01			48	7.25	55(
Nov. '80	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			40	7.25	14(
Feb. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			30	7.25	33(
May '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			22	7.0	30000
Aug. '81	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			17	8.25	59(
Average	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01			29	7.5	5328
Variance	0	0	0	0	0	0			180	0.25	1.46x1

	Arsenic (mg/l)	Barium (mg/l)	Cad-mium (mg/l)	Chro-mium (mg/l)	Lead (mg/l)	Mer-cury (mg/l)	Selen-ium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manga-nese (mg/l)	Sodi (mg/
May '80	<0.05	<0.1	<0.1	<0.1	0.4	<0.005	<0.01	<0.1	<0.1	0.27	72(
Aug. '80	<0.05	0.1	<0.01	<0.05	<0.1	<0.002	<0.01	<0.05	<0.1	<0.1	92(
Nov. '80	<0.1	0.1	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.3	88(
Feb. '81	<0.05	0.1	<0.01	<0.05	<0.05	<0.002	<0.01	<0.1	<0.2	<0.1	78(
May '81	<0.05	0.10	<0.01	<0.05	0.13	<0.002	<0.01	<0.05	<0.1	0.27	84(
Aug. '81	<0.05	0.04	<0.01	<0.05	<0.05	<0.002	<0.01	<0.05	<0.1	0.32	92(
Average	<0.05	<0.1	<0.01	<0.05	0.09	<0.002	<0.01	<0.05	<0.1	0.19	84
Variance	0	0.002	0	0	0.026	0	0	0	0.007	0.023	650(

Last ATTACHMENT 1-25-82