UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: AUG 1 2 1980

SUBJECT: Analytical Results; Samples from Lemont, Illinois Monitoring Wells

FROM: Ron Kovach RK
Engineering Unit II

TO: Bill Miner, Chief
Engineering Section

We have completed the analysis of the groundwater samples taken from the monitoring wells at Lemont, Illinois on June 26, 1980. Detailed copies of those results are attached to this memo.

In general, the results indicate that the activities at the J.J. Schultz Company have not, as yet, contaminated the groundwater supplies around the company. Only samples No. VL05S04, VL05S06, and VL05S08 had some questionable results. However, these results were felt to be due to laboratory error, rather than actual sample contamination. In the case of the chromium results for samples No. VL05S04 and VL05S08, they were over the maximum contaminate drinking water levels; but well within the range of experimental error associated with the running of the chromium test. In the case of sample No. VL05S06, duplicate testing was performed in order to double check the original high lead and cyanide test results. The duplicate tests indicated that both the lead and cyanide concentrations of the sample were well within acceptable levels.

It is my understanding that MSD has excavated a 10 foot by 10 foot by 10 foot hole around the point of chemical injection at the site. This excavation revealed an impermeable clay layer underneath the site. Water markings on this clay layer indicated that the direction of groundwater flow in the area was towards the west (i.e., toward the old Illinois-Michigan Canal). This indicated westerly groundwater flow was substantiated by area residents who said "tracer dyes used in the groundwater have moved from their injection point in the east, to wells in the west." Also, the general geology of the area suggests that the groundwater movement would be towards the canals and rivers of the area.

MSD, according to Mr. Stanley Whitebloom, has taken the J.J. Schultz Company to court. This litigation was in order to have the J.J. Schultz Company cease discharging as well as to clean up their operation. It is my understanding that they have done so. I will continue to track the MSD enforcement effort.

cc: Fenner
Grimes/McPhee
Leder

EPA Region 5 Records Ctr.
343494

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: August 5, 1980

SUBJECT: Analytical Results; Samples from Lemont, Illinois Monitoring Wells

FROM: Curtis Ross, Chief CR
Central Regional Laboratory

TO: Richard Bartelt, Chief
Environmental Emergency and Investigation Branch

do not copy cover sheet
However, copy the remainder of this report

Attached is a copy of the report concerning subject matter. All questions arising from this report should be directed to Dr. Emilio Sturino at 353-9065.

Attachment(s)

cc: Illeck ✓
Libby
Files

RECEIVED
AUG 7 1980
USEPA, EEI BRANCH
536 South Clark Street
Chicago, Illinois 60605

PRIORITY

92

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC DATA FORM

DIVISION/BRANCH SGA/EFTB Sampling Date 26 6 80 (Day Month Year) Arrival Date 27 6 80 (Day Month Year) Analysis Due Date 17 7 (Day Month)

D.U. NUMBER [illegible] (From Request to CRL) Study

Jun 10 July 80

LEMONT, ILLINOIS
MONITORING WELLS

CRL Sample Log Number								
ROW	Units	NH3	TOC					
1	W S01	K0.03	10					
2	S02	0.06	9					TWO SAMPLE BOTTLES
3	D02	0.12	31					
4	S04	0.04	19					
5	R04	empty bottle K3						
6	S06	0.32	29					
7	D06	0.31	27					
8	S09	0.44	31					
9	S08	0.60	21					
10		6/30/80	7-9-80					
11		DM	[illegible]					
12								
13								
14		Code 4 [illegible] sample [illegible] receiving room 102 [illegible]						
15								
16								
17								
18								
19								

PRIORITY

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC DATA FORM

DIVISION/BRANCH S&A/EEIB Sampling Date 26 6 80 (Day Month Year) Arrival Date 27 6 80 (Day Month Year) Analysis Due Date 17 7 (Day Month)

D.U. NUMBER Date Set 299 [illegible] Study

CK 7/9/80 Jun 9 July 80

LEMONT, ILLINOIS MONITORING WELLS

CRL Sample Log Number	CYANIDE (ug/l)							
80 Units								
1 05S01	KS ?							
2 05S02	KS							
3 05D02	KS							
4 05S04	KS							
5 05R04	KS							
6 05S06	KS							
7 05D06	.011							
8 05S08	KS							
9 05S09	KS							
10	KC							
11	7/9/80							
12								
13								
14	[illegible]							
15								
16								
17								
18								
19								

Lemont Illinois
Metals Data

ENVIRONMENTAL PROTECTION AGENCY, REGION V, CRL

EEIB DATA

07-07-80

OK 7/7/80

SET NO. 299

JVM 7 July 80

PARAMETER #	00916	00927	00929	01077	01105	01022	01007	01012	01027	01037
SAMPLE ID.	CA	MG	NA	AG	AL	B	BA	BE	CD	CO
UNITS	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
VL05501	149	66.3	91.8	K 3	K 90	467	31	K 1	K 2	K 5
2	142	64.5	38.2	K 3	K 90	455	14	K 1	K 2	K 5
4	166	73.7	135	K 3	K 90	614	32	K 1	K 2	K 5
6	107	48.7	877	K 3	K 90	1110	67	K 1	K 2	K 5
8	173	84.8	59.8	K 3	K 90	387	15	K 1	K 2	K 5
9	149	69.0	38.6	K 3	K 90	451	14	K 1	K 2	K 5
D02	145	64.8	39.7	K 3	K 90	489	14	K 1	K 2	K 5
D06	103	48.0	270	K 3	K 90	1180	66	K 1	K 2	K 5
R04	K5.0	K0.1	K1.2	K 3	K 90	K 80	K 5	K 1	K 2	K 5

PARAMETER #	01034	01042	01045	01055	01062	01067	01051	01102	01152	01087
SAMPLE ID.	CR	CU	FE	MN	MO	NI	PB	SN	TI	V
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
VL05501	48	17	150	25	K 10	K 30	K 30	K100	K 6	K 5
2	45	12	380	15	K 10	K 30	K 30	K100	K 6	K 5
4	51	7	463	26	K 10	K 30	K 30	K100	K 6	K 5
6	25	K 6	914	71	K 10	K 30	3570	K100	K 6	K 5
8	66	12	4350	55	K 10	K 30	K 30	K100	K 6	12
9	50	K 6	1370	44	K 10	K 30	K 30	K100	K 6	6
D02	44	10	383	12	K 10	K 30	K 30	K100	K 6	K 5
D06	28	14	767	69	K 10	K 30	K 30	K100	K 6	K 5
R04	K 5	K 6	K120	K 5	K 10	K 30	K 30	K100	K 6	K 5

PARAMETER #	01203	01092	
SAMPLE ID.	Y	ZN	XX
UNITS	UG/L	UG/L	UG/L
VL05501	K 5	195	N.A.
2	K 5	512	N.A.
4	K 5	275	N.A.
6	K 5	106	N.A.
8	14	817	N.A.
9	8	78	N.A.
D02	K 5	515	N.A.
D06	K 5	122	N.A.
R04	K 5	K 50	N.A.

Pb confirmed in VL05506, not found in VL05D06

JVM 7 July 80