THE
METROPOLITAN SANITARY DISTRICT
OF GREATER CHICAGO

EPA Region 5 Records Ctr.
334779

RECEIVED
ILL ENVIRONMENTAL PROTECTION AGENCY
APR 17 1981
DIV. WATER POLLUTION CONTROL
FIELD OPERATIONS SECTION

April 15, 1981

Mr. Frank Yumping
IEPA Regional Office
1701 S. First Street
Maywood, Illinois 60153

Dear Frank,

Enclosed is the 1980 monitoring well analysis of the Hanover Park Sludge Application Farms that you requested during your inspection of the facility on April 9, 1981.

Greg Maxwell
AETPO I

bfg

enclosure

1980 HANOVER PARK WRP FIELD SAMPLE SHEET

HANOVER PARK WRP WELL AND FIELD DRAIN SAMPLES

DATE	WELL #5	WELL #6	WELL #7	WELL #8	EAST SUMP WET WELL	WEST SUMP WET WELL	SAMPLER
6/10	X	NS (electrical problem)	X	X	NS	NS	Paul Andy
6/17	X	NS "	X	X	X	X	Moe Bernie
6/24	X	NS "	X	NS (lock frozen)	X	X	Pasquale Andy
7/1	X	NS "	X	X	X	X	Paul Bernie
7/8	X	NS "	X	X	X	X	Moe Andy
7/15	D	NS "	X	X	X	X	Paul Bernie
7/22	D	NS "	X	X	X	X	Pasquale Andy
7/29	D	NS "	X	X	X	X	Paul Bernie
8/5	D	NS "	X	X	X	X	Pasquale Andy
8/12	D	NS "	X	X	X	NS (PUMPS O/S)	Paul Bernie
8/17	D	NS "	X	NS (flooded)	NS (PUMPS O/S)	NS (PUMPS O/S)	Pasquale Andy
8/25	D	NS "	X	X	X	X	Paul Bernie

D - Indicates Dry Well
X - Indicates samples taken
NS - Indicates no sample taken

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EXPERIMENTAL FARM &
HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

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SAMPLE	DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	NO_2	$NO_2 + NO_3$	
Well #1	6-3-80	8.2	1000	20	131	0.8	0.6	0.4		0.1	
Well #3		7.8	850	12	204	0.8	0.4	0.2		0.2	
Well #4		8.0	710	30	117	0.8	0.3	0.1		0.1	
Well #5		8.2	500	6	86	0.8	1.3	0.7		0	
Well #7		7.9	800	18	108	0.8	1.2	0.9		0	
Well #8		8.0	550	8	51	0.8	0.8	0.5		0	
Wet Well ~~Well #9~~ Sump		8.0	1600	128	70	25.4	72.2	68.3		1.4	5
					WR 6-6-80						
Well #1	6-10-80	7.9	1000	20	137	0	0.8	0.4		0	3
Well #3		7.7	900	15	243	0	0.5	0.2		0	2
Well #4		7.6	800	34	160	0	0.4	0.2		0	2
Well #5		8.0	550	8	107	0	0.8	0.7		0	15
Well #7		7.8	900	36	93	0	1.9	1.4		1.1	3
Well #7		8.1	550	7	45	0	0.8	0.6		0	23
					WR 6-12-80						
Well 1	6-17-80	8.0	825	16	142	0.7	0.8	0.5		0.6	40
3		7.7	800	10	224	0.5	0.7	0.3		1.3	23
4		7.6	700	29	156	0.7	0.6	0.2		1.0	20
5		8.5	475	4	102	0.4	0.7	0.7		0.3	16
7		7.9	800	55	142	0.5	2.0	1.7		0.6	30
8		8.7	400	3	11	0.4	1.6	1.4		0.3	23
West Well East Sump	6-17 House	SS VSS 30/23	BOD 23					NH_3N 0.9			
West Well West Sump	6-17 House	42/24	7					0.2			

WR 6-19-80

1980

1980

EXP FARM &

HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

SAMPLE	1980 DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	NO_2	NO_2+NO_3	Alk
Well #1	6-24-80	8.1	800	16	142	0	1.1	0.7		0.4	396
3		7.8	800	11	247	0	0.6	0.3		0.3	22[illegible]
4		7.8	700	31	154	0	0.9	0.3		0.3	20[illegible]
5		8.2	550	4	126	0	1.0	0.6		0.3	156
7		8.0	800	51	102	0.2	2.1	1.5		0.3	25
? Field Drain		7.7	1400	71	156	5.5	16.3	14.7		18.4	48[illegible]
West Well Drain Sump	6-24-80	SS VSS 1790/250	BOD 22					0.4			
West Well Drain Sump	6-24	30/23	20					2.2			
					WR 6-26-80						

Ended June 1980

Jim,
What was the
time of data from?
Greg

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File

EXP. FARM 1

HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

SAMPLE	1980 DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	NO_2	NO_2+NO_3	ALK
Well #1	7-01-80	8.0	900	17	135	0.2	1.1	1.1		0.8	392
3		7.8	800	10	246	0.1	0.5	0.5		0.7	234
4		7.8	750	31	158	0.2	1.0	0.7		0.6	208
5		8.1	550	3	123	0.1	0.7	0.7		0.6	152
7		7.8	1000	37	100	0.1	1.1	1.0		0.6	390
8		8.2	600	5	43	0.1	1.3	1.2		0.6	262
Field Drain		7.7	1800	122	139	9.9	56.4	55.6		10.4	502
West Well House Sump	7-01-80	SS VSS 76/50	BOD 36					25.9			
West Well House Sump		154/19	4					0.3			
					WR	7-3					
Well #1	7-8-80	8.1	900	19	147		0.7	0.7		0.5	370
3		7.7	850	14	259		0.4	0.4		0.7	230
4		7.7	760	35	186		0.3	0.3		0.6	203
5		8.4	550	5	125		0.6	0.6		0.4	150
7		7.9	950	45	101		1.1	1.1		0.5	354
8		8.7	425	10	15		2.4	2.3		0.5	170
East Sump House	7-8-80	SS/VSS 76/56	BOD 45					33.8			
West Sump House	2	7/-	1					0.7			
			WR 7-10								

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EXP FARM #

HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

SAMPLE	1980 DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	NO_2	$NO_2 + NO_3$	ALK
Well 1	7-15-80	7.7	950	22	127	0.1	1.0	1.0		0.8	376
3		7.4	925	15	231	0.1	1.5	1.5		1.1	22[illegible]
4		7.4	800	35	154	0.1	0.7	0.7		0.8	208
7		7.5	960	55	107	0.1	1.8	1.8		0.7	296
8		8.2	600	9	47	0.2	1.1	1.1		0.5	25[illegible]
EAST Sump House	7-15-80	SS/VSS 40/30	BOD 216					34.8			
WEST Sump House		7/—	6					6.4			
				WR	7/17						
Well #1	7-22-80	8.0	925	20	127	0.1	0.9	0.9		1.4	37[illegible]
#3		7.3	900	16	239	0.1	0.5	0.2		0.9	23[illegible]
#4		7.2	850	35	170	0.1	0.4	0.4		1.0	23[illegible]
Field Drain		7.3	1850	134	199	0.7	7.7	7.2		27.5	52[illegible]
East Sump House	7-22-80	SS/VSS 140/47	BOD 33					14.0			
West Sump House	7-22-80	91/53	29					58.0			
					WR 7-24						
Well 1	7-29-80	8.1	940	24	118	0.15	0.6	0.3		3.0	384
3		7.6	900	18	258	0.2	0.25	0.2		3.3	236
4		7.8	875	32	157	0.1	0.5	0.4		3.6	256
7		8.1	900	52	83	0.25	0.9	1.1		3.2	32[illegible]
8		8.5	500	12	28	0	1.5	1.4		2.0	22[illegible]
East Sump House		SS/VSS 32/17	BOD 14					7.0			
West Sump House		22/10	7					5.8			

WR 7-31

EXP. FARM 4

HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

SAMPLE	1980 DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	~~NO_2~~	NO_2+ NO_3	ALK
Well #1	8-05	8.2	900	26	99	0.1	0.9	0.5		0.2	37[illegible]
3		7.4	900	18	229	0.1	0.5	0.2		0	232
4		7.3	950	34	156	0.1	0.2	0.2		0	276
7		8.2	580	12	43	0.1	0.7	0.6		0	262
8		8.3	550	14	50	0.8	2.8	1.7		0.4	218
Field Drain		7.4	1700	120	188	0.7	2.9	1.8		25.6	458
East Simp. Hse		SS/VSS 36/24	BOD 19					12.3			
West Simp. Hse		808/142	19	Metals, Iron Fe		in particular		10.5			
		Rusty particles in water	Small [illegible]		WR 8/7						
WELL #1	8/12/80	8.3	875	30	122	0.1	0.4	0.7		0.6	360
WELL #3		7.6	950	24	253	0.1	0.6	0.3		0.6	23[illegible]
4		7.7	920	43	174	0.1	0.4	0.2		0	254
7		7.8	1025	60	104	0.1	0.9	0.7		0	366
8		8.5	500	12	42	0.1	1.5	0.0		0	178
FIELD DRAIN		7.6	1500	71	189	0.6	3.0	0.6		42.4	356
EAST SIMP HSE	8/12/80	SS/VSS 26/16	BOD 10					4.4			
				WR 8/14							

EXP. PARA 8

HANOVER - FISHER FARM WELLS
LAND RECLAMATION AND SOIL SCIENCE
J. PETERSON
PROJECT 71-104-1W

SAMPLE	1980 DATE	pH	COND.	Cl	SO_4	P	Total N	Ammonia N	[illegible]	NO_2 + NO_3	ALK
Well 1	8-19	8.3	840	24	106	0.3	1.1	0.7		0.2	36
3		7.7	900	19	242	0.2	0.4	0.2		0.1	250
4		7.8	850	36	167	0.3	0.6	0.2		0.3	256
Field Drain		7.5	1200	49	140	0.8	2.3	0.6		17.6	306
Well 7	8-20 Recd 8-21	7.2	600	102	71	0.7	1.7	0.6		3.4	110
				WR 8-21							
Well 1	8-26	8.4	850	21	108			0.8		0.3	352
3		7.9	950	16	235			0.1		0.1	242
4		7.9	875	34	166			0.3		0	238
7		7.5	1200	50	144			0.4		0	43
8		8.1	620	10	62			1.1		0.1	243
Field Drain		7.6	1600	89	174			1.2		30.8	42
East Sump House		SS/VSS 15/13	BOD 6					NH3 N 1.9			
West Sump House		7						0.1			
				WR 8/28							