Occidental Chemical Corporation

QUARTERLY OVERBURDEN MONITORING REPORT
THIRD QUARTER - 1996

- OVERBURDEN BARRIER COLLECTION SYSTEM
- COMMUNITY MONITORING PROGRAM
- LEACHATE TREATMENT SYSTEM

Hyde Park RRT Program
Niagara Falls, New York

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CONESTOGA-ROVERS & ASSOCIATES

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1.0 INTRODUCTION

In April 1996, Occidental Chemical Corporation (OxyChem) submitted to the United States of America and the State of New York (EPA/State) a document entitled "Future Monitoring and Assessment Requirements".

This document summarized the monitoring and assessment requirements of the Stipulation on Requisite Remedial Technology Program (RRT Stipulation) and the Stipulation and Judgment Approving Settlement Agreement (Settlement Agreement) for the Hyde Park Landfill Site from 1996 until eventual termination of the various programs. It was recommended in this document that future monitoring data be consolidated into three types of reports; a quarterly overburden report; a quarterly bedrock report; and an annual report.

This report represents the third such quarterly overburden monitoring report, covering the months of July, August, and September of 1996. The submitted "Future Monitoring and Assessment Requirements" document specifies that each quarterly overburden monitoring report would present the monitoring data for the following programs:

i) Overburden Barrier Collection System (Section 2.0):
ii) Community Monitoring Program (Section 3.0); and
iii) Leachate Treatment System (Section 4.0).

2.0 OVERBURDEN BARRIER COLLECTION SYSTEM

In 1991, OxyChem installed a series of Overburden Barrier Collection System (OBCS) Monitoring Wells (OMWs) around the Hyde Park Landfill Site, as required pursuant to Section 3.6 of the RRT Stipulation. Eight well pairs were installed beyond the alignment of the previously installed OBCS, with one well from each pair installed inside the overburden aqueous phase liquid (APL) plume limits and the second of each pair installed outside these limits. The purpose of these wells is to demonstrate that an inward hydraulic gradient is created at the APL plume boundary towards the operating OBCS, or that a downward vertical hydraulic gradient exists to the upper bedrock unit beneath the overburden regime.

Hydraulic stabilization of the Overburden RRT System was deemed to have occurred in May 1994; however, an inward gradient was not yet observed at wells OMW-13 and OMW-14. Subsequent chemical sampling data collected at these two wells redefined the southern limit of the overburden APL plume, resulting in an approved system design change which involved the installation of two replacement wells, OMW-13R and OMW-14R. (Beginning in September 1995, these two new wells were monitored for water level elevations and the calculated hydraulic gradient was observed to now be inward).

2.1 WATER LEVEL MONITORING AND GRADIENT EVALUATION

Appendix A contains a table of the recorded water level elevations, including a calculation of the horizontal hydraulic gradient between each well pair (note: a negative number indicates an inward gradient). Figure 2.1 presents the 16 OMW locations in relationship to the OBCS. Additionally, some shallow bedrock wells (also shown on Figure 2.1) are being monitored at locations where an inward horizontal hydraulic gradient does not exist, in order to demonstrate the presence of a downward vertical hydraulic gradient (negative number).

From the tables in Appendix A, it can be seen that an inward horizontal hydraulic gradient within the overburden regime has been achieved at four of the eight monitoring well pairs as follows:

OMW-1/OMW-2,
OMW-3/OMW-4,
OMW-13R/OMW-14R, and
OMW-15/OMW-16.

During this quarter, an inward gradient was achieved for only one of the three monitoring events at well pair OMW-3/OMW-4, although an inward gradient has been consistently present prior to this quarter. It is apparent that this quarter's results are anomalous and that the historically present inward gradient should return during future monitoring events. Also, gradients could only be calculated for one of the three monitoring events at OMW-13R/OMW-14R and for two of the three monitoring events at OMW-15/OMW-16 due to well inaccessibility.

In addition, the Appendix A tables indicate the presence of a downward vertical hydraulic gradient from the overburden to the bedrock at three of the four monitoring well pairs where an inward gradient was not present as follows:

OMW-5/OMW-6,
OMW-7/OMW-8, and
OMW-9/OMW-10.

The remaining well pair OMW-11/OMW-12 has historically (prior to 1996) shown a downward vertical hydraulic gradient toward the bedrock; however, well D1U was utilized for these previous evaluations. Changes to the NAPL Plume Containment System (part of the Bedrock RRT System) and its' associated monitoring network resulted in the conversion of a pumping well, PW-2U, to a bedrock monitoring well, D3U. This well is located closer to the OMW-11/OMW-12 well pair than the previously used D1U. Monitoring of the D3U well was initiated in January 1996. A downward vertical hydraulic gradient was achieved for two of the three monitoring events this

quarter. As for the previous quarters of 1996, bedrock system design modifications continue, which have resulted in the upper bedrock purge well system being inoperable in the immediate area. Conclusive determination of whether a downward vertical hydraulic gradient exists at well pair OMW-11/OMW-12 can only be made following commencement of operations for the redesigned upper bedrock purge well system (estimated for mid-1997).

2.2 CONCLUSIONS

A review of the hydraulic monitoring data for the third quarter of 1996 shows that inward horizontal gradients were achieved at four of the eight monitoring well pairs (OMW-1/ OMW-2, OMW-3/OMW-4, OMW-13R/OMW-14R, and OMW-15/OMW-16), and that downward vertical hydraulic gradients were achieved at three of the four remaining monitoring well pairs (OMW-5/OMW-6, OMW-7/OMW-8, and OMW-9/OMW-10). Conclusive determination of whether a downward vertical hydraulic gradient exists at the remaining monitoring well pair (OMW-11/OMW-12) can only be made following commencement of operations for the redesigned upper bedrock purge well system.

3.0 COMMUNITY MONITORING PROGRAM

In 1987, OxyChem installed a series of Community Monitoring Wells (CMWs) in the residential community areas around the Hyde Park Landfill Site, as required pursuant to Section 8.3 of the RRT Stipulation. Eight well nests (one overburden and one shallow bedrock well at each location), were initially installed, with two additional shallow bedrock wells installed at a later date. Figure 3.1 presents the 18 CMW locations in relationship to the Hyde Park Landfill Site. The overburden wells are screened to within one foot of the top of bedrock or permeable material overlying the bedrock, while the shallow bedrock wells extend approximately 15 feet beyond the top of bedrock.

The purpose of these wells is to "..supplement other monitoring and remedial programs by monitoring to provide "early warning" of APL plume migration toward residential areas..." (RRT Stipulation, page 123). Using the water level information at each well pair (the two additional bedrock wells are paired with storm sewer manholes), the vertical hydraulic gradient has and continues to be assessed. Initial chemical sampling of the overburden wells indicated no Hyde Park chemistry had migrated either horizontally through the overburden regime or vertically upwards from the underlying bedrock. Therefore, continuing gradient monitoring was required to demonstrate that this downward gradient was consistently present, preventing migration of Hyde Park chemicals from the bedrock upwards into the basements of the residences.

3.1 GRADIENT EVALUATION AND SAMPLE COLLECTION

The current data collection activities required for the Residential Community Monitoring Program, as determined from the RRT Stipulation and summarized in the "Future Monitoring and Assessment Requirements" document, are as follows:

a) quarterly hydraulic monitoring of overburden and bedrock groundwater elevations;
b) where no overburden groundwater is present, soil air samples will be collected and analyzed; and

c) annual groundwater sampling and analysis of overburden well CMW-2OB located near the intersection of Hyde Park Boulevard and New Road.

The hydraulic monitoring data required for task a) are presented in Appendix B-1. This table presents all historic water level elevations, as well as those measured during this past quarter. The calculation of vertical hydraulic gradients (negative number indicates downward) is also included and the required downward hydraulic gradient was present at all well pairs where water levels were measured.

At two CMW locations (CMW-7OB and CMW-8OB), the overburden wells typically contain no groundwater indicating unsaturated conditions in the overburden soils in these areas. The RRT Stipulation requires soil air samples to be collected under these conditions. Table 3.1 presents the analytical data for the soil air samples collected from these two overburden wells. All parameters were non-detect at both well locations this past quarter and have historically always been "clean". Appendix B-2 contains the laboratory report for the two soil air samples.

A final requirement of the RRT Stipulation is the collection of a groundwater sample from CMW-2OB, the overburden well located near the intersection of Hyde Park Boulevard and New Road. This activity is required annually and was conducted in September 1996. Table 3.2 presents the analytical data for the groundwater sample collected from this overburden well. Appendix B-3 contains the QA/QC validation for the sample.

3.2 CONCLUSIONS

A review of the hydraulic monitoring data for the third quarter of 1996 shows that at each well nest where groundwater was present a downward vertical hydraulic gradient exists. At the two dry well nest locations (CMW-7 and CMW-8) air samples were collected and analyzed. All air sample parameters were reported as non detect.

no mention of CMW-2OB

4.0 LEACHATE TREATMENT SYSTEM

During continuing operations at the Hyde Park Leachate Storage and Handling Facility, OxyChem is required to monitor and report the midpoint and effluent analyses for the APL treatment system, as required pursuant to Addendum I, Section E of the Settlement Agreement. The parameters, treatment levels and frequency of sample collection are summarized in the "Future Monitoring and Assessment Requirements" document, and involve sampling at daily, weekly, and monthly intervals for various parameter groups.

4.1 EFFLUENT ANALYSES

The APL treatment system effluent was sampled daily, weekly, and monthly during the third quarter of 1996. The sample data is discussed, based on frequency of sample collection, in the following subsections.

4.1.1 Daily Sampling

Table 4.1 summarizes the results of the daily composite sampling. No exceedances of the treatment levels were reported this quarter for any of the three daily parameters; pH, TOC, and phenol. Appendix C-1 contains copies of the laboratory reports for the daily effluent samples.

4.1.2 Weekly Sampling

Table 4.2 summarizes the results of the weekly composite sampling. No exceedances of the treatment levels were reported this quarter for any of the five weekly parameters or their isomers from the collected effluent samples. Appendix C-2 contains copies of the laboratory reports for the weekly effluent samples.

4.1.3 Monthly Sampling

Table 4.3 summarizes the results of the monthly composite sampling. No exceedances of the treatment levels were reported this quarter for any of the eight parameters or their isomers. Appendix C-3 contains copies of the laboratory reports for the monthly effluent samples.

4.2 MIDPOINT ANALYSIS

Tables 4.1 and 4.2 also include the results of the daily and weekly midpoint sampling. Daily composite samples were collected from three midpoint locations; the raw water feed to the Sequential Batch Reactor (SBR) tanks, the subsequent feed to the primary Carbon Bed (CB) units, and one of four Interstage locations between the primary and secondary CB units. Weekly discrete (or grab) samples were also collected at one of the four Interstage locations. No treatment levels have been established for comparison of midpoint sample data. These data are primarily used to determine when the carbon in the CB units requires replacement, or other operation and maintenance activities are required. Appendices C-1 and C-4 contain copies of the laboratory reports for the treatment plant daily and weekly midpoint analyses, respectively.

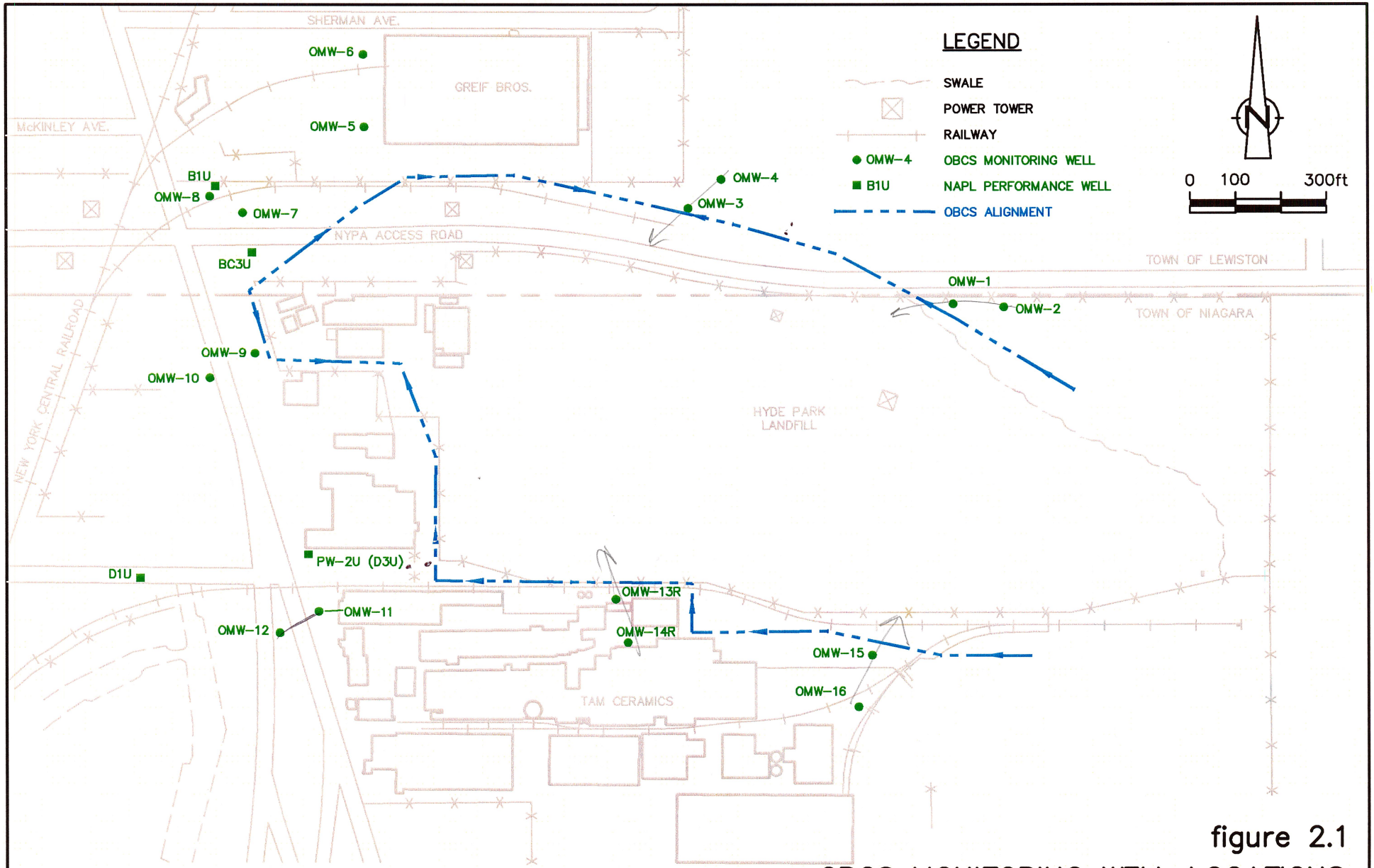

figure 2.1

OBCS MONITORING WELL LOCATIONS
HYDE PARK LANDFILL SITE
Occidental Chemical Corporation

NOTES:
1.) SITE BENCHMARK IS A P.K. NAIL SET IN THE EAST FACE OF A POWER POLE LOCATED AT THE WEST END OF THE EXISTING HYDE PARK LANDFILL, ELEVATION = 612.77. DATUM NOT VERIFIED.

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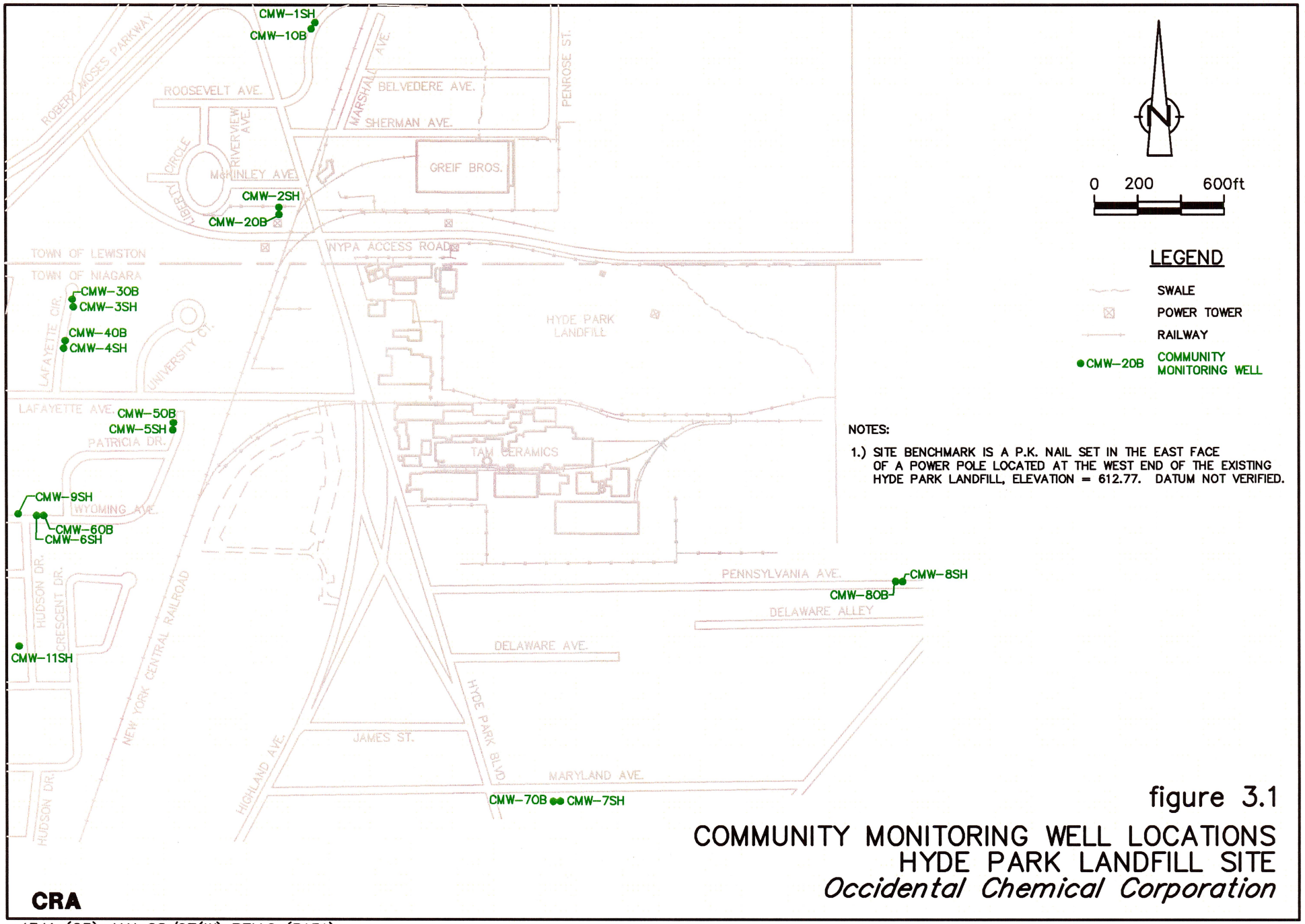

figure 3.1

COMMUNITY MONITORING WELL LOCATIONS
HYDE PARK LANDFILL SITE
Occidental Chemical Corporation

CRA

4341 (23) JAN 28/97(W) REV.0 (P151)

TABLE 3.1

QUARTERLY AIR SAMPLING ANALYTICAL RESULTS
COMMUNITY MONITORING PROGRAM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

Parameter	*CMW-7OB 9/6/96*	*CMW-8OB 8/30/96*	*Field Blank 8/30/96*	*Field Blank 9/6/96*	*Method Blank 9/18/96*
Chlorobenzene	ND 0.83	ND 0.83	ND 1.0	ND 1.0	ND 1.0
Monochlorotoluenes	ND 0.83	ND 0.83	ND 1.0	ND 1.0	ND 1.0
m-Monochlorobenzotrifluoride	ND 0.83	ND 0.83	ND 1.0	ND 1.0	ND 1.0
o-Monochlorobenzotrifluoride	ND 0.83	ND 0.83	ND 1.0	ND 1.0	ND 1.0
p-Monochlorobenzotrifluoride	ND 0.83	ND 0.83	ND 1.0	ND 1.0	ND 1.0

Note:
All units are PPBV assuming STP.

TABLE 3.2

ANNUAL GROUNDWATER SAMPLE ANALYTICAL RESULT
COMMUNITY MONITORING PROGRAM
THIRD QUARTER 1996
HYDE PARK LANDFILL SITE

Parameter	*Monitoring (1) Level (µg/L)*	*CMW-20B 9/10/96 (µg/L)*
Chlorobenzene	10	ND1
o-Chlorotoluene	3	4.0
m-Chlorotoluene	3	ND1
p-Chlorotoluene	3	ND1
o-Monochlorobenzotrifluoride	3	ND1
m-Monochlorobenzotrifluoride	3	ND1
p-Monochlorobenzotrifluoride	3	ND1
Benzoic Acid	100	ND100
o-Chlorobenzoic Acid	30	50
m-Chlorobenzoic Acid	30	ND30
p-Chlorobenzoic Acid	30	31
Chlorendic Acid	250	ND250
Total Organic Halides	500	ND 500

Note:

(1) Monitoring level appropriate for total of all isomers.

TABLE 4.1

DAILY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

Date	*pH* Treatment Level = 5 - 10				*Total Organic Carbon (mg/L)* Treatment Level = 1,000 mg/L				*Phenol (mg/L)* Treatment Level = 1 mg/L			
	SBR Feed	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*
July												
1	7.4	7.6	7.4	8.0	69.9	14.7	3.7	3.7	16.2	<0.1	<0.1	<0.1
2	7.4	7.6	7.5	7.7	73.3	10.8	3.2	3.7	18.9	<0.1	<0.1	<0.1
3	7.4	7.8	7.4	7.9	88.9	9.8	3.6	3.7	20.8	0.13	<0.1	<0.1
4	7.4	7.7	7.4	8.0	95.6	10.6	3.2	3.2	20.0	0.10	<0.1	<0.1
5												
6	7.4	7.6	7.3	7.9	71.7	9.3	2.5	1.6	19.6	0.15	<0.1	<0.1
7	7.4	7.3	7.4	7.9	71.9	18.8	3.3	1.9	17.2	<0.1	<0.1	<0.1
8	7.4	7.9	7.3	7.9	73.4	9.5	2.8	2.0	18.6	<0.1	<0.1	<0.1
9	7.4	7.4	7.4	7.8	64.5	9.8	3.6	3.0	14.7	<0.1	<0.1	<0.1
10	7.3	7.3	7.3	8.0	46.9	13.3	3.7	3.0	10.0	0.28	<0.1	<0.1
11	7.4	7.3	7.3	7.9	54.4	9.4	4.4	2.5	13.7	0.27	<0.1	<0.1
12	7.3	7.1	7.3	7.8	46.5	10.4	3.0	1.8	12.1	<0.1	<0.1	<0.1
13	7.2	7.4	7.5	7.8	59.3	8.6	4.1	1.9	13.9	0.12	<0.1	<0.1
14	7.2	7.1	7.5	7.8	53.1	3.7	4.1	2.2	12.6	0.14	<0.1	<0.1
15	7.3	7.5	7.3	7.9	61.4	10.8	4.8	3.1	14.3	<0.1	<0.1	<0.1
16	7.2	7.4	7.4	7.8	75.8	11.1	4.1	2.1	17.4	<0.1	<0.1	<0.1
17	7.3	7.7	7.3	7.9	43.5	8.8	3.4	2.2	9.9	0.15	<0.1	<0.1
18	7.2	7.5	7.3	7.8	48.3	11.4	3.7	2.3	10.5	<0.1	<0.1	<0.1
19	7.5	7.5	7.6	7.8	69.2	9.9	4.4	3.3	16.0	<0.1	<0.1	<0.1
20		7.4	7.6	8.1		11.7	5.0	2.0		<0.1	<0.1	<0.1
21	7.1	7.3	7.5	7.7	220.2	12.2	4.4	4.0	56.5	<0.1	<0.1	<0.1
22	7.1	7.1	7.2	7.8	277.1	14.7	6.0	1.6	99.2	<0.1	<0.1	<0.1
23	7.2	7.1	7.1	7.7	252.0	27.1	11.1	2.4	84.5	2.76	0.97	<0.1
24	7.1	7.5	7.2	7.8	187.8	21.7	8.1	2.4	76.7	0.77	<0.1	<0.1
25	7.2	7.5	7.5	8.1	157.7	19.4	19.0	2.1	50.0	0.40	0.32	<0.1
26	7.4	7.6	7.5	8.0	151.9	19.3	3.2	2.8	57.6	0.37	<0.1	<0.1
27	7.3	7.8	7.6	8.1	87.2	18.5	1.7	1.8	19.9	0.28	<0.1	<0.1
28	7.3	7.8	7.5	8.0	100.0	16.9	1.5	1.6	29.3	0.29	<0.1	<0.1
29	7.2	7.4	7.4	7.8	57.6	17.2	1.6	1.2	14.5	0.15	<0.1	<0.1
30	7.3	7.2	7.3	8.0	100.0	16.9	1.5	1.6	29.3	0.29	<0.1	<0.1
31	7.5	7.5	7.3	7.8	45.1	12.0	1.3	1.6	13.0	0.36	<0.1	<0.1

TABLE 4.1

DAILY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

Date	*pH* Treatment Level = 5 - 10				*Total Organic Carbon (mg/L)* Treatment Level = 1,000 mg/L				*Phenol (mg/L)* Treatment Level = 1 mg/L			
	SBR Feed	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*
August												
1	7.3	7.3	7.4	7.9	86.4	17.7	1.1	1.5	26.3	<0.1	<0.1	<0.1
2	7.3	7.5	7.5	7.9	51.5	12.8	1.3	2.2	12.9	0.29	<0.1	<0.1
3	7.3	8.0	7.7	8.0	97.8	11.8	1.5	2.2	24.2	0.20	<0.1	<0.1
4	7.7	7.4	7.6	8.0	65.7	17.1	1.5	2.5	15.4	<0.1	<0.1	<0.1
5	7.5	7.6	7.5	8.0	32.1	11.9	2.9	2.0	7.8	0.19	<0.1	<0.1
6	8.6	7.6	7.4	7.9	61.0	9.5	1.5	2.2	13.6	0.17	<0.1	<0.1
7	7.3	7.4	7.4	8.0	58.6	9.2	2.2	2.2	13.6	<0.1	<0.1	<0.1
8	7.4	7.5	7.5	7.9	51.5	10.8	1.4	1.8	10.8	<0.1	<0.1	0.14
9	7.3	7.6	7.3	7.9	68.2	12.1	1.3	1.5	14.4	0.38	<0.1	<0.1
10	7.3	7.5	7.5	7.9	41.0	10.1	1.6	2.2	7.7	<0.1	<0.1	<0.1
11	7.3	7.6	7.5	7.9	35.3	8.9	1.7	2.6	5.5	0.29	<0.1	<0.1
12	7.4	7.6	7.7	8.0	44.9	9.5	1.6	1.3	10.3	0.23	0.10	<0.1
13	7.4	7.3	7.6	8.0	42.5	9.9	1.7	2.0	12.4	<0.1	0.47	<0.1
14	7.4	7.6	7.6	8.0	41.2	9.5	1.2	1.5	12.2	0.23	<0.1	<0.1
15	7.5	7.3	7.8	8.1	49.6	10.2	2.1	2.0	20.4	1.33	0.17	<0.1
16	7.4	7.4	7.6	8.1	58.3	8.6	1.6	2.7	17.0	<0.1	<0.1	<0.1
17	7.4	8.0	7.9	8.1	43.4	9.5	1.5	1.9	8.7	<0.1	<0.1	<0.1
18	7.4	7.4	7.7	8.2	45.5	12.9	2.0	1.8	9.7	<0.1	<0.1	<0.1
19	7.3	8.0	7.7	8.0	48.4	10.3	1.9	2.1	9.3	<0.1	<0.1	<0.1
20	7.4	7.5	7.6	8.0	43.3	17.3	1.7	1.7	7.6	0.11	<0.1	<0.1
21	7.4	7.7	7.5	8.1	70.2	11.2	3.1	2.9	13.8	<0.1	<0.1	<0.1
22	7.3	7.4	7.5	8.0	45.6	17.2	5.6	5.5	10.3	0.10	0.10	0.10
23	7.4	8.0	7.6	8.1	35.4	9.3	1.5	1.2	19.2	<0.1	0.80	<0.1
24	7.4	7.8	7.5	8.1	46.7	8.3	1.3	2.1	11.7	0.15	<0.1	<0.1
25	7.5	8.2	7.7	8.1	43.9	9.2	2.5	2.3	14.5	0.12	<0.1	0.10
26	7.6	8.4	8.1	8.3	43.3	8.5	1.6	1.8	12.1	<0.1	<0.1	<0.1
27	7.4	7.8	7.7	8.1	72.3	7.9	1.4	3.2	20.6	<0.1	0.10	<0.1
28	7.3	7.6	7.7	8.1	81.0	10.5	1.7	1.7	20.7	<0.1	<0.1	<0.1
29	7.8	7.4	8.0	8.1	109.1	13.8	1.9	2.6	16.2	<0.1	<0.1	<0.1
30	7.4	8.1	7.8	8.2	80.1	9.7	2.0	3.0	17.6	<0.1	<0.1	<0.1
31	7.4	7.8	7.6	8.2	52.2	12.8	2.5	3.0	14.0	0.20	<0.1	<0.1

TABLE 4.1

DAILY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

Date	*pH* *Treatment Level = 5 - 10*				*Total Organic Carbon (mg/L)* *Treatment Level = 1,000 mg/L*				*Phenol (mg/L)* *Treatment Level = 1 mg/L*			
	SBR Feed	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*	*SBR Feed*	*CB Feed*	*Interstage*	*Effluent*
September												
1	7.5	8.1	7.8	8.2	46.1	9.7	2.2	3.5	9.0	<0.1	<0.1	<0.1
2	7.4	7.8	7.5	8.0	35.5	9.7	1.4	1.9	6.6	<0.1	<0.1	<0.1
3												
4	7.5	7.6	7.6	8.0	33.8	8.8	2.0	3.0	7.8	<0.1	<0.1	<0.1
5	7.5	7.9	7.8	8.0	36.3	12.7	4.3	6.2	7.7	<0.1	<0.1	<0.1
6	7.4	7.9	7.8	8.1	38.3	8.7	1.3	2.4	9.2	<0.1	<0.1	<0.1
7	7.4	7.7	8.0	8.1	56.2	7.5	1.4	2.4	19.6	<0.1	<0.1	<0.1
8	7.2	7.4	7.9	8.2	38.8	9.8	1.9	3.5	11.8	<0.1	<0.1	<0.1
9	7.2	7.7	7.7	8.1	24.0	7.0	1.4	2.8	2.1	<0.1	<0.1	<0.1
10	7.2	7.6	7.6	8.1	63.8	49.5	39.6	1.4	5.2	<0.1	<0.1	<0.1
11	7.1	7.4	7.6	7.9	52.2	8.9	1.8	4.6	11.9	<0.1	<0.1	<0.1
12	7.2	7.5	7.4	8.1	56.8	7.7	1.8	2.3	15.7	<0.1	<0.1	<0.1
13	7.4	7.3	7.3	8.0	66.9	3.7	1.2	1.7	17.3	<0.1	<0.1	<0.1
14	7.3	7.4	7.4	8.1	45.9	8.4	1.3	1.8	10.5	<0.1	<0.1	<0.1
15	7.2	7.3	7.4	7.9	43.3	7.0	1.2	2.1	7.5	<0.1	<0.1	<0.1
16	7.4	7.3	7.3	7.9	40.8	7.1	1.2	1.8	9.8	<0.1	<0.1	<0.1
17	7.4	7.5	7.3	7.9	43.1	14.1	7.4	7.3	8.0	<0.1	<0.1	<0.1
18	7.6	7.5	7.3	7.6	52.6	11.1	3.8	4.5	11.5	0.10	<0.1	<0.1
19	7.4	7.4	7.0	7.9	51.1	7.0	3.3	2.7	10.3	<0.1	<0.1	<0.1
20	7.5	7.3	7.4	8.0	40.6	10.1	1.4	1.8	6.8	<0.1	<0.1	<0.1
21	7.4	7.3	7.4	7.8	28.5	9.6	1.1	2.0	4.6	<0.1	<0.1	<0.1
22	7.4	7.7	7.4	7.9	25.7	8.3	1.6	1.3	3.5	<0.1	<0.1	<0.1
23	7.4	7.3	7.4	8.1	28.4	8.4	1.5	1.5	2.9	<0.1	<0.1	<0.1
24	7.4	7.5	7.1	8.0	28.2	8.9	1.7	1.8	3.6	<0.1	<0.1	<0.1
25	7.4	7.6	7.4	8.0	55.0	7.5	1.7	1.6	9.2	<0.1	<0.1	<0.1
26	7.4	7.4	7.2	8.0	31.6	8.3	1.5	1.6	5.4	<0.1	<0.1	<0.1
27	7.4	7.5	7.4	8.0	33.1	7.3	1.3	1.8	4.8	<0.1	<0.1	<0.1
28	7.4	7.4	7.6	8.1	48.6	8.4	1.5	1.5	8.4	0.10	0.10	<0.1
29	7.5	7.7	7.5	8.0	77.9	8.7	1.6	1.4	10.8	<0.1	<0.1	<0.1
30	7.5	7.3	7.3	8.0	53.5	12.5	2.2	1.8	12.1	<0.1	<0.1	<0.1

TABLE 4.2

WEEKLY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

COMPOSITE EFFLUENT SAMPLES

Parameter	*Treatment Level (µg/L)*	*07/01 to 07/07*	*07/08 to 07/14*	*07/15 to 07/21*	*07/22 to 07/28*	*07/29 to 08/04*	*08/05 to 08/11*	*08/12 to 08/18*
Trichloroethylene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
Tetrachloroethylene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
2-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
3-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
Monochlorobenzene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
2-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
3-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1

DISCRETE MIDPOINT SAMPLES

Trichloroethylene	10	6.0	5.9	13.7	47.3	8.8	ND 1	ND 1
Tetrachloroethylene	10	ND 1	1.7	1.7	16.6	4.9	ND 1	ND 1
2-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	3.4	ND 1	ND 1	ND 1
3-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	1.5	1.1	ND 1	ND 1
4-Monochlorobenzotrifluoride	10	ND 1	1.0	ND 1	5	1.2	ND 1	ND 1
Monochlorobenzene	10	ND 1	ND 1	ND 1	1	ND 1	ND 1	ND 1
2-Monochlorotoluene	10	ND 1	ND 1	ND 1	7.9	1.1	ND 1	ND 1
3-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorotoluene	10	ND 1	ND 1	ND 1	1.5	ND 1	ND 1	ND 1

Note:
All concentrations are in µg/L

TABLE 4.2

WEEKLY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

COMPOSITE EFFLUENT SAMPLES

Parameter	*Treatment Level (µg/L)*	*08/19 to 08/25*	*08/26 to 09/01*	*09/02 to 09/08*	*09/09 to 09/15*	*09/16 to 09/22*	*09/23 to 09/29*
Trichloroethylene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
Tetrachloroethylene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
2-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
3-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
Monochlorobenzene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
2-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
3-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1

DISCRETE MIDPOINT SAMPLES

Trichloroethylene	10	ND 1	ND 1	ND 1	ND 1	1.6	ND 1
Tetrachloroethylene	10	ND 1	ND 1	ND 1	ND 1	1	ND 1
2-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
3-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorobenzotrifluoride	10	ND 1	ND 1	ND 1	ND 1	1.4	ND 1
Monochlorobenzene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
2-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	4.8	ND 1
3-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1
4-Monochlorotoluene	10	ND 1	ND 1	ND 1	ND 1	ND 1	ND 1

Note:
All concentrations are in µg/L

TABLE 4.3

MONTHLY SAMPLING ANALYTICAL RESULTS
LEACHATE TREATMENT SYSTEM
THIRD QUARTER - 1996
HYDE PARK LANDFILL SITE

Parameter	*Treatment Level (µg/L)*	*EFFLUENT DATA*		
		July	*August*	*September*
1,3,5 - Trichlorobenzene	10	ND 1	ND 1	ND 1
1,2,4 - Trichlorobenzene	10	ND 1	ND 1	ND 1
1,2,3 - Trichlorobenzene	10	ND 1	ND 1	ND 1
Hexachlorobutadiene (C-46)	10	ND 1	ND 1	ND 1
1,2,4,5 - Tetrachlorobenzene	10	ND 1	ND 1	ND 1
1,2,3,4- Tetrachlorobenzene	10	ND 1	ND 1	ND 1
Hexachlorocyclopentadiene (C-56)	10	ND 1	ND 1	ND 1
2,4,5 - Trichlorophenol	10	ND 1	ND 1	ND 1
Octochlorocyclopentene (C-58)	10	ND 1	ND 1	ND 1
Hexachlorobenzene (C-66)	10	ND 1	ND 1	ND 1
a - Hexachlorocyclohexane	10	ND 1	ND 1	ND 1
b - Hexachlorocyclohexane	10	ND 1	ND 1	ND 1
d - Hexachlorocyclohexane	10	ND 1	ND 1	ND 1
g - Hexachlorocyclohexane	10	ND 1	ND 1	ND 1

Note:
All concentrations are in micrograms/liter

APPENDIX A

OMW MONITORING PROGRAM WATER LEVEL TABLES

WELL NO.	OMW-1	OMW-2		OMW-3	OMW-4		OMW-5	OMW-6		B1U	
TYPE	O	O	Horizontal	O	O	Horizontal	O	O	Horizontal	R	Vertical
POSITION	(Inner)	(Outer)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic
CASING EL.	605.87	606.39	Gradient	599.27	600.68	Gradient	587.53	588.27	Gradient	592.40	Gradient
GROUND EL.	604.3	605.0		597.5	598.8		587.9	588.5		589.8	(B1U)
01/28/92	600.66	604.07	-3.41	586.65	590.84	-4.19	583.75	585.66	-1.91		
02/28/92	601.01	604.38	-3.37	588.57	591.31	-2.74	587.23	585.89	1.34		
03/19/92	601.77	604.33	-2.56	589.46	591.19	-1.73	586.23	586.11	0.12		
04/22/92	602.61	604.63	-2.02	590.17	591.70	-1.53	586.28	586.17	0.11		
05/15/92	602.63	604.64	-2.01	590.30	591.99	-1.69	586.41	586.35	0.06		
06/26/92	600.21	603.47	-3.26	589.23	590.61	-1.38	586.51	586.48	0.03		
07/24/92	601.95	604.30	-2.35	589.53	591.21	-1.68	586.58	586.21	0.37		
08/18/92	600.84	603.96	-3.12	589.36	591.03	-1.67	586.64	586.47	0.17		
09/28/92	600.31	604.19	-3.88	589.30	591.00	-1.70	586.78	586.31	0.47		
10/27/92	600.81	604.31	-3.50	589.38	591.31	-1.93	586.71	586.20	0.51		
11/24/92	602.70	604.69	-1.99	589.80	592.36	-2.56	586.45	586.27	0.18		
12/11/92	600.91	604.22	-3.31	589.55	591.97	-2.42	586.50	586.13	0.37		
01/19/93	601.66	604.36	-2.70	590.13	592.37	-2.24	586.50	586.32	0.18		
02/15/93	600.43	Frozen	NA	589.27	591.83	-2.56	585.92	585.85	0.07		
03/09/93	601.37	603.58	-2.21	588.95	591.25	-2.30	586.33	585.96	0.37		
04/20/93	598.53	604.18	-5.65	591.36	592.29	-0.93	586.31	586.00	0.31		
05/11/93	600.06	603.98	-3.92	590.65	591.84	-1.19	586.18	586.00	0.18		
06/16/93	600.06	604.07	-4.01	589.07	591.50	-2.43	586.09	586.07	0.02		
08/27/93	597.19	600.57	-3.38	588.92	590.08	-1.16	585.99	585.85	0.14		
09/14/93	596.88	600.24	-3.36	588.82	589.87	-1.05	585.87	585.82	0.05		
10/27/93	599.22	602.93	-3.71	589.01	590.03	-1.02	586.03	585.89	0.14		
11/24/93	599.51	604.24	-4.73	589.12	590.88	-1.76	587.33	585.92	1.41		
12/21/93	600.01	603.89	-3.88	589.33	591.27	-1.94	586.53	585.79	0.74		
01/04/94	600.17	Frozen	NA	589.27	591.12	-1.85	Frozen	585.65	NA		
02/08/94	599.54	Frozen	NA	590.15	591.20	-1.05	Frozen	584.99	NA		
03/01/94	599.65	604.59	-4.94	589.27	591.56	-2.29	Frozen	585.96	NA		
04/05/94	601.17	604.19	-3.02	589.07	592.26	-3.19	586.29	586.17	0.12		
05/10/94	599.96	603.87	-3.91	589.17	591.63	-2.46	586.04	585.98	0.06	573.15	-12.83
06/07/94	599.97	604.94	-4.97	589.27	591.53	-2.26	Flooded	585.97	NA	573.44	-12.53
07/06/94	599.56	603.43	-3.87	589.16	591.18	-2.02	Flooded	585.85	NA	572.70	-13.15
08/02/94	599.52	602.47	-2.95	589.27	592.48	-3.21	Flooded	584.75	NA	569.80	-14.95
09/06/94	598.44	601.64	-3.20	589.02	590.23	-1.21	Flooded	585.62	NA	569.32	-16.30
10/04/94	600.35	603.47	-3.12	589.01	590.38	-1.37	Flooded	586.35	NA	567.93	-18.42
11/17/94	601.62	603.89	-2.27	589.07	590.38	-1.31	585.83	585.89	-0.06	568.88	-16.95
12/01/94	600.16	603.87	-3.71	589.30	590.63	-1.33	585.91	585.84	0.07	568.82	-17.02
01/03/95	599.86	603.04	-3.18	589.39	591.18	-1.79	585.91	586.67	-0.76	569.74	-16.17
02/16/95	599.85	604.24	-4.39	589.75	591.43	-1.68	584.63	585.14	-0.51	569.33	-15.30
03/01/95	599.77	603.12	-3.35	589.45	591.07	-1.62	Flooded	585.97	NA	568.76	-17.21
04/06/95	597.97	603.54	-5.57	589.42	591.23	-1.81	585.83	585.72	0.11	569.76	-15.96
05/09/95	599.07	603.49	-4.42	589.07	589.58	-0.51	586.53	585.67	0.86	NM	NA
06/20/95	598.39	601.60	-3.21	588.86	589.26	-0.40	586.18	585.74	0.44	569.42	-16.32
07/11/95	598.82	602.40	-3.58	588.89	589.45	-0.56	586.84	585.88	0.96	569.11	-16.77
08/01/95	598.17	601.50	-3.33	588.69	587.93	0.76	Flooded	586.32	NA	569.26	NA
09/05/95	597.67	601.00	-3.33	588.45	587.03	1.42	Flooded	586.07	NA	569.02	NA
10/03/95	596.87	599.84	-2.97	587.87	585.68	2.19	586.03	585.47	0.56	568.40	-17.07
11/01/95	599.87	603.69	-3.82	587.77	589.52	-1.75	585.93	585.72	0.21	569.37	-16.35
12/05/95	601.37	604.04	-2.67	589.37	591.68	-2.31	Flooded	585.92	NA	570.89	-15.03

All elevations are based on USGS datum
O = Overburden Well
R = Bedrock Well
NM = Not Measured

WELL NO.	OMW-1	OMW-2		OMW-3	OMW-4		OMW-5	OMW-6		B1U	
TYPE	O	O	Horizontal	O	O	Horizontal	O	O	Horizontal	R	Vertical
POSITION	(Inner)	(Outer)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic
CASING EL.	605.87	606.39	Gradient	599.27	600.68	Gradient	587.53	588.27	Gradient	592.40	Gradient
GROUND EL.	604.3	605.0		597.5	598.8		587.9	588.5		589.8	(B1U)
09/05/95											
10/03/95											
11/01/95											
12/05/95											
01/02/96	599.42	603.41	-3.99	589.27	591.18	-1.91	Frozen	585.42	NA	570.72	-14.70
02/06/96	599.07	Frozen	NA	589.07	591.38	-2.31	Frozen	585.07	NA	570.61	-14.46
03/05/96	599.67	Frozen	NA	589.27	591.23	-1.96	Frozen	585.97	NA	570.88	-15.09
04/02/96	600.27	603.89	-3.62	589.17	591.63	-2.46	586.03	585.92	0.11	570.96	-14.96
05/01/96	600.42	603.89	-3.47	590.27	591.98	-1.71	586.13	586.32	-0.19	571.28	-15.04
06/04/96	599.82	603.42	-3.60	590.14	591.98	-1.84	587.33	585.93	1.40	570.81	-15.12
07/02/96	599.72	601.44	-1.72	589.47	588.78	0.69	Flooded	585.97	NA	570.20	-15.77
08/06/96	598.27	601.29	-3.02	589.07	589.38	-0.31	Flooded	585.87	NA	569.25	-16.62
09/03/96	597.17	599.99	-2.82	590.87	588.08	2.79	Blocked	585.57	NA	568.79	-16.78

All elevations are based on USGS datum
O = Overburden Well
R = Bedrock Well
NM = Not Measured

WELL NO.	OMW-7	OMW-8		B1U		OMW-9	OMW-10		B1U	
TYPE	O	O	Horizontal	R	Vertical	O	O	Horizontal	R	Vertical
POSITION	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic
CASING EL.	593.39	592.97	Gradient	592.40	Gradient	595.97	595.51	Gradient	592.40	Gradient
GROUND EL.	590.8	590.9		589.8	(B1U)	596.3	595.9		589.8	(B1U)
01/28/92	585.19	580.78	4.41			587.48	585.40	2.08		
02/28/92	585.10	580.89	4.21			587.13	586.74	0.39		
03/19/92	585.34	581.23	4.11			586.41	586.66	-0.25		
04/22/92	585.49	582.40	3.09			586.90	588.02	-1.12		
05/15/92	585.37	582.14	3.23			586.69	588.03	-1.34		
06/26/92	584.64	580.10	4.54			585.86	586.22	-0.36		
07/24/92	585.65	582.44	3.21			586.77	587.07	-0.30		
08/18/92	585.45	582.50	2.95			586.22	587.19	-0.97		
09/28/92	585.48	582.33	3.15			585.99	586.89	-0.90		
10/27/92	585.48	582.52	2.96			586.11	587.04	-0.93		
11/24/92	585.95	583.25	2.70			587.35	588.23	-0.88		
12/11/92	585.21	582.62	2.59			587.32	587.15	0.17		
01/19/93	585.22	582.95	2.27			588.12	587.28	0.84		
02/15/93	584.78	582.21	2.57			585.86	586.44	-0.58		
03/09/93	585.27	582.40	2.87			586.35	586.36	-0.01		
04/20/93	585.46	582.73	2.73			588.03	585.84	2.19		
05/11/93	584.88	582.57	2.31			586.03	586.53	-0.50		
06/16/93	585.05	580.09	4.96			585.83	586.39	-0.56		
08/27/93	584.90	580.04	4.86			585.71	583.71	2.00		
09/14/93	584.87	579.70	5.17			585.92	583.34	2.58		
10/27/93	585.13	580.71	4.42			586.25	584.49	1.76		
11/24/93	585.14	581.32	3.82			586.08	585.71	0.37		
12/21/93	585.28	581.99	3.29			585.95	589.70	-3.75		
01/04/94	585.15	582.07	3.08			587.67	586.63	1.04		
02/08/94	584.79	583.07	1.72			Frozen	586.72	NA		
03/01/94	584.47	582.07	2.40			587.57	577.71	9.86		
04/05/94	584.79	582.31	2.48			587.87	587.63	0.24		
05/10/94	584.69	581.70	2.99	573.15	-8.55	585.98	586.52	-0.54	573.15	-13.37
06/07/94	584.79	582.47	2.32	573.44	-9.03	587.57	586.76	0.81	573.44	-13.32
07/06/94	584.92	580.75	4.17	572.70	-8.05	Flooded	586.88	NA	572.70	NA
08/02/94	585.19	581.62	3.57	569.80	-11.82	590.54	585.69	4.85	569.80	-15.89
09/06/94	584.44	578.57	5.87	569.32	-9.25	587.35	584.65	2.70	569.32	-15.33
10/04/94	585.19	578.17	7.02	567.93	-10.24	587.97	584.21	3.76	567.93	-16.28
11/17/94	585.65	578.51	7.14	568.88	-9.63	588.21	584.17	4.04	568.88	-15.29
12/01/94	585.35	578.80	6.55	568.82	-9.98	587.90	585.18	2.72	568.82	-16.36
01/03/95	585.04	578.92	6.12	569.74	-9.18	587.70	585.88	1.82	569.74	-16.14
02/16/95	584.91	578.66	6.25	569.33	-9.33	587.29	587.71	-0.42	569.33	-18.38
03/01/95	584.91	578.56	6.35	568.76	-9.80	587.64	586.05	1.59	568.76	-17.29
04/06/95	584.59	578.27	6.32	569.76	-8.51	587.26	585.91	1.35	569.76	-16.15
05/09/95	584.59	578.07	6.52	NM	NA	587.07	585.51	1.56	NM	NA
06/20/95	584.77	577.69	7.08	569.42	-8.27	587.14	585.34	1.80	569.42	-15.92
07/11/95	585.10	577.75	7.35	569.11	-8.64	587.58	585.53	2.05	569.11	-16.42
08/01/95	585.09	577.54	7.55	569.26	-8.28	587.54	584.81	2.73	569.26	-15.55
09/05/95	584.99	577.37	7.62	569.02	-8.35	587.27	583.60	3.67	569.02	-14.58
10/03/95	584.54	575.78	8.76	568.40	-7.38	587.07	581.61	5.46	568.40	-13.21
11/01/95	586.19	577.27	8.92	569.37	-7.90	587.77	584.81	2.96	569.37	-15.44
12/05/95	586.49	578.32	8.17	570.89	-7.43	588.02	587.06	0.96	570.89	-16.17

All elevations are based on USGS datum
O = Overburden Well
R = Bedrock Well
NM = Not Measured

WELL NO.	*OMW-7*	*OMW-8*		*B1U*		*OMW-9*	*OMW-10*		*BC3U*	
TYPE	*O*	*O*	*Horizontal*	*R*	*Vertical*	*O*	*O*	*Horizontal*	*R*	*Vertical*
POSITION	*(Inner)*	*(Outer)*	*Hydraulic*	*(Lower)*	*Hydraulic*	*(Inner)*	*(Outer)*	*Hydraulic*	*(Lower)*	*Hydraulic*
CASING EL.	*593.39*	*592.97*	*Gradient*	*592.40*	*Gradient*	*595.97*	*595.51*	*Gradient*	*594.88*	*Gradient*
GROUND EL.	*590.8*	*590.9*		*589.8*	*(B1U)*	*596.3*	*595.9*		*595.2*	*(BC3U)*
09/05/95										
10/03/95										
11/01/95										
12/05/95										
01/02/96	585.24	578.52	6.72	570.72	-7.80	587.97	586.01	1.96	565.34	-20.67
02/06/96	585.59	578.67	6.92	570.61	-8.06	587.17	586.21	0.96	565.71	-20.50
03/05/96	585.99	578.87	7.12	570.88	-7.99	587.05	586.01	1.04	566.41	-19.60
04/02/96	588.99	579.02	9.97	570.96	-8.06	587.52	586.71	0.81	565.90	-20.81
05/01/96	585.29	579.67	5.62	571.28	-8.39	588.17	586.81	1.36	567.20	-19.61
06/04/96	585.57	579.25	6.32	570.81	-8.44	587.59	586.33	1.26	566.44	-19.89
07/02/96	585.64	578.47	7.17	570.20	-8.27	587.37	586.21	1.16	565.56	-20.65
08/06/96	585.39	577.77	7.62	569.25	-8.52	587.47	585.41	2.06	564.88	-20.53
09/03/96	584.69	586.97	-2.28	568.79	-18.18	587.27	584.01	3.26	564.58	-19.43

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NM = Not Measured

WELL NO.	OMW-11	OMW-12		D1U		OMW-13	OMW-14		OMW-15	OMW-16	
TYPE	O	O	Horizontal	R	Vertical	O	O	Horizontal	O	O	Horizontal
POSITION	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic	(Outer)	(Inner)	Hydraulic	(Inner)	(Outer)	Hydraulic
CASING EL.	595.71	594.17	Gradient	592.89	Gradient	597.96	595.68	Gradient	605.44	606.61	Gradient
GROUND EL.	596.1	594.5		593.2	(D1U)	598.1	596.1		606.0	604.4	
01/28/92	589.51	590.45	-0.94			587.49	591.90	4.41	600.72	601.25	-0.53
02/28/92	589.76	591.09	-1.33			587.52	592.57	5.05	604.82	603.86	0.96
03/19/92	590.13	591.26	-1.13			590.49	589.76	-0.73	602.91	603.93	-1.02
04/22/92	590.22	591.91	-1.69			591.41	589.82	-1.59	604.73	604.22	0.51
05/15/92	590.23	591.63	-1.40			589.60	590.29	0.69	604.38	604.23	0.15
06/26/92	589.41	585.60	3.81			587.57	593.46	5.89	602.90	603.95	-1.05
07/24/92	589.99	590.08	-0.09			588.26	593.87	5.61	603.71	604.04	-0.33
08/18/92	589.78	588.73	1.05			588.56	593.28	4.72	603.58	604.02	-0.44
09/28/92	589.74	588.78	0.96			588.32	593.20	4.88	603.26	603.99	-0.73
10/27/92	589.79	589.51	0.28			588.62	592.80	4.18	603.52	604.00	-0.48
11/24/92	588.49	592.36	-3.87			588.61	594.20	5.59	604.27	604.18	0.09
12/11/92	589.64	589.40	0.24			588.21	593.71	5.50	604.00	604.04	-0.04
01/19/93	589.73	589.59	0.14			591.06	591.31	0.25	604.05	Frozen	NA
02/15/93	588.78	587.29	1.49			589.98	589.57	-0.41	601.34	Frozen	NA
03/09/93	589.88	587.79	2.09			590.03	588.49	-1.54	602.90	Frozen	NA
04/20/93	589.56	587.67	1.89			589.91	588.00	-1.91	604.16	604.18	-0.02
05/11/93	589.08	587.29	1.79			589.78	589.66	-0.12	603.92	603.94	-0.02
06/16/93	588.99	586.85	2.14			589.92	589.44	-0.48	603.86	603.95	-0.09
08/27/93	588.61	583.65	4.96			590.34	589.12	-1.22	601.66	604.11	-2.45
09/14/93	588.55	583.62	4.93			590.39	588.52	-1.87	601.28	603.96	-2.68
10/27/93	589.69	Dry	NA			590.72	590.14	-0.58	601.72	603.99	-2.27
11/24/93	589.52	588.32	1.20			590.64	590.33	-0.31	602.72	604.18	-1.46
12/21/93	589.30	589.97	-0.67			590.30	590.67	0.37	603.02	604.05	-1.03
01/04/94	590.51	587.89	2.62			590.13	590.83	0.70	Frozen	Frozen	NA
02/08/94	589.20	587.27	1.93			590.44	Buried	NA	602.81	Frozen	NA
03/01/94	588.78	588.67	0.11			590.96	Buried	NA	603.82	Frozen	NA
04/05/94	589.59	589.55	0.04			NM	591.22	NA	604.10	603.99	0.11
05/10/94	588.75	587.10	1.65	576.19	-10.91	591.72	587.52	-4.20	603.49	603.95	-0.46
06/07/94	589.11	587.37	1.74	579.33	-8.04	590.11	589.88	-0.23	603.74	602.86	0.88
07/06/94	589.19	587.36	1.83	579.24	-8.12	590.38	589.43	-0.95	603.74	603.82	-0.08
08/02/94	589.08	587.67	1.41	578.46	-9.21	590.58	589.34	-1.24	603.74	603.81	-0.07
09/06/94	588.74	584.89	3.85	575.08	-9.81	590.62	588.72	-1.90	601.93	603.81	-1.88
10/04/94	589.61	588.17	1.44	576.36	-11.81	590.54	589.68	-0.86	602.44	603.81	-1.37
11/17/94	589.47	589.53	-0.06	576.49	-12.98	590.50	589.58	-0.92	602.29	603.87	-1.58
12/01/94	589.19	589.68	-0.49	576.49	-12.70	590.28	589.82	-0.46	602.56	603.94	-1.38
01/03/95	588.90	589.34	-0.44	578.05	-10.85	589.46	590.16	0.70	604.64	Frozen	NA
02/16/95	589.30	588.40	0.90	577.56	-10.84	589.69	589.83	0.14	605.44	604.31	1.13
03/01/95	589.16	588.78	0.38	577.99	-10.79	589.68	Buried	NA	Buried	Frozen	NA
04/06/95	588.50	587.70	0.80	578.78	-8.92	589.60	589.57	-0.03	602.89	604.05	-1.16
05/09/95	588.31	584.17	4.14	NM	NA	589.86	589.18	-0.68	NM	603.81	NA
06/20/95	588.27	585.15	3.12	577.98	-7.17	589.46	588.62	-0.84	601.79	603.78	-1.99
07/11/95	589.00	585.76	3.24	NM	NA	590.19	Buried	NA	603.56	603.92	-0.36
08/01/95	588.96	583.57	5.39	577.57	-6.00	590.36	589.18	-1.18	603.54	603.81	-0.27
09/05/95	588.61	584.37	4.24	577.03	-7.34				602.44	603.81	-1.37
10/03/95	587.56	NA	NA	575.59	-11.97				600.64	603.71	-3.07
11/01/95	590.41	590.51	-0.10	578.94	-11.47				603.22	603.81	-0.59
12/05/95	589.61	591.02	-1.41	580.46	-9.15				604.34	603.81	0.53

All elevations are based on USGS datum
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NM = Not Measured

WELL NO.	OMW-11	OMW-12		D3U		OMW-13R	OMW-14R		OMW-15	OMW-16	
TYPE	O	O	Horizontal	R	Vertical	O	O	Horizontal	O	O	Horizontal
POSITION	(Inner)	(Outer)	Hydraulic	(Lower)	Hydraulic	(Inner)	(Outer)	Hydraulic	(Inner)	(Outer)	Hydraulic
CASING EL.	595.71	594.17	Gradient	596.50	Gradient	599.59	599.42	Gradient	605.44	606.61	Gradient
GROUND EL.	596.1	594.5		600.0	(D3U)	600.0	599.8		606.0	604.4	
09/05/95						590.49	591.12	-0.63			
10/03/95						590.64	590.52	0.12			
11/01/95						591.68	591.74	-0.06			
12/05/95						591.39	591.52	-0.13			
01/02/96	589.21	588.47	0.74	591.33	2.86	591.39	591.52	-0.13	603.84	603.81	0.03
02/06/96	589.61	588.07	1.54	592.25	4.18	592.69	Buried	NA	Buried	Frozen	NA
03/05/96	589.86	588.52	1.34	595.03	6.51	Buried	Buried	NA	Buried	Frozen	NA
04/02/96	589.81	588.77	1.04	595.05	6.28	594.19	594.02	0.17	603.44	603.81	-0.37
05/01/96	589.90	589.07	0.83	594.31	5.24	593.89	Buried	NA	Flooded	603.91	NA
06/04/96	589.50	587.92	1.58	590.07	2.15	593.70	593.83	-0.13	603.92	603.87	0.05
07/02/96	588.46	587.87	0.59	587.23	-0.64	593.49	Buried	NA	Buried	603.81	NA
08/06/96	588.81	584.77	4.04	546.88	-37.89	592.79	Buried	NA	603.14	603.81	-0.67
09/03/96	588.31	583.77	4.54	587.52	3.75	591.49	597.42	-5.93	601.54	603.81	-2.27

All elevations are based on USGS datum
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NM = Not Measured

APPENDIX B-1

CMW MONITORING PROGRAM WATER LEVEL TABLES

WELL NO.	CMW-1OB	CMW-1SH		CMW-2OB	CMW-2SH		CMW-3OB	CMW-3SH	
TYPE	O	R	Hydraulic	O	R	Hydraulic	O	R	Hydraulic
CASING EL.	576.12	576.68	Gradient	590.05	589.73	Gradient	582.79	582.74	Gradient
GROUND EL	576.8	577.3		591.5	591.2		583.4	583.5	
02/25/87	571.14	564.99	-6.15	588.56	571.75	-16.81	569.59	551.40	-18.19
03/05/87	571.86	565.63	-6.23	588.99	570.20	-18.79	570.68	553.42	-17.26
04/14/87	571.27	565.57	-5.70	589.56	571.47	-18.09	571.41	556.96	-14.45
05/05/87	571.68	562.99	-8.69	587.82	570.02	-17.80	574.74	554.95	-19.79
06/16/87	571.57	561.47	-10.10	583.35	568.99	-14.36	574.01	551.67	-22.34
07/08/87	571.56	561.35	-10.21	581.68	569.27	-12.41	572.83	551.80	-21.03
08/06/87	571.88	561.65	-10.23	581.41	NM	NA	570.93	553.04	-17.89
09/09/87	571.74	561.81	-9.93	NM	NM	NA	569.07	551.96	-17.11
10/08/87	571.89	562.12	-9.77	588.69	575.17	-13.52	568.62	NM	NA
11/06/87	571.76	561.60	-10.16	588.49	569.43	-19.06	568.64	551.90	-16.74
12/18/87	572.77	563.68	-9.09	589.78	570.44	-19.34	570.50	557.18	-13.32
01/11/88	571.61	562.78	-8.83	588.52	570.24	-18.28	572.46	555.19	-17.27
02/08/88	571.78	563.06	-8.72	588.74	570.22	-18.52	573.00	554.73	-18.27
03/08/88	571.69	563.59	-8.10	588.73	572.42	-16.31	575.23	555.92	-19.31
04/05/88	572.10	564.62	-7.48	589.83	574.01	-15.82	576.94	556.72	-20.22
05/03/88	571.78	563.90	-7.88	588.90	572.85	-16.05	576.68	555.72	-20.96
06/08/88	571.61	563.13	-8.48	585.40	572.13	-13.27	575.36	554.49	-20.87
07/20/88	571.07	562.52	-8.55	579.91	570.58	-9.33	571.80	552.00	-19.80
08/08/88	571.19	562.03	-9.16	578.28	570.08	-8.20	570.28	551.59	-18.69
09/09/88	571.20	561.91	-9.29	575.84	569.64	-6.20	568.21	551.23	-16.98
10/06/88	570.78	561.43	-9.35	574.62	568.82	-5.80	567.35	551.62	-15.73
11/04/88	573.21	565.05	-8.16	573.60	570.34	-3.26	567.03	551.44	-15.59
12/12/88	573.12	564.94	-8.18	575.07	570.42	-4.65	567.21	551.48	-15.73
03/28/89	573.59	567.51	-6.08	589.60	573.81	-15.79	567.79	553.82	-13.97
06/08/89	573.72	567.87	-5.85	589.15	573.15	-16.00	572.65	553.03	-19.62
09/02/89	572.85	565.62	-7.23	579.00	569.95	-9.05	569.23	551.58	-17.65
12/06/89	573.61	567.37	-6.24	588.87	572.65	-16.22	568.65	552.24	-16.41
03/22/90	573.81	568.60	-5.21	589.48	574.14	-15.34	576.16	555.71	-20.45
06/01/90	574.29	568.43	-5.86	589.27	573.48	-15.79	577.01	552.59	-24.42
09/21/90	573.67	566.44	-7.23	578.80	570.98	-7.82	571.09	552.24	-18.85
12/21/90	573.83	568.49	-5.34	589.55	573.03	-16.52	571.37	552.96	-18.41
03/27/91	573.91	569.41	-4.50	Flooded	575.51	NA	577.78	556.31	-21.47
06/05/91	573.57	567.18	-6.39	585.36	568.64	-16.72	575.44	553.99	-21.45
09/26/91	573.03	566.47	-6.56	573.86	565.78	-8.08	568.94	551.83	-17.11
12/18/91	573.34	566.70	-6.64	572.13	566.78	-5.35	568.31	551.94	-16.37
03/19/92	573.77	568.11	-5.66	589.53	571.37	-18.16	573.48	553.56	-19.92
06/26/92	572.68	567.57	-5.11	583.92	571.75	-12.17	574.66	552.76	-21.90
09/28/92	573.89	567.82	-6.07	588.98	573.09	-15.89	573.45	553.56	-19.89
12/21/92	573.91	568.66	-5.25	589.57	574.24	-15.33	577.47	555.59	-21.88

All elevations are based on USGS datum.
R = Bedrock Well; O = Overburden Well
NM = Not measured
NA = Not accessible
(1) = possible surface infiltration
(2) = obstructed

WELL NO.	*CMW-1OB*	*CMW-1SH*		*CMW-2OB*	*CMW-2SH*		*CMW-3OB*	*CMW-3SH*	
TYPE	*O*	*R*	*Hydraulic*	*O*	*R*	*Hydraulic*	*O*	*R*	*Hydraulic*
CASING EL.	*576.12*	*576.68*	*Gradient*	*590.05*	*589.73*	*Gradient*	*582.79*	*582.74*	*Gradient*
GROUND EL	*576.8*	*577.3*		*591.5*	*591.2*		*583.4*	*583.5*	
03/08/93	573.56	566.87	-6.69	587.90	571.78	-16.12	576.06	550.03	-26.03
06/16/93	573.84	566.55	-7.29	586.95	567.78	-19.17	575.42	549.95	-25.47
09/14/93	573.47	566.12	-7.35	578.59	571.19	-7.40	571.02	549.72	-21.30
12/21/93	573.54	566.23	-7.31	589.03	573.73	-15.30	571.47	550.40	-21.07
03/01/94	573.61	567.40	-6.21	589.01	571.78	-17.23	578.98	551.14	-27.84
05/10/94	573.61	567.40	-6.21	588.22	572.53	-15.69	576.58	549.80	-26.78
08/02/94	573.58	565.97	-7.61	585.90	569.02	-16.88	574.84	549.92	-24.92
11/01/94	573.08	565.43	-7.65	584.97	566.98	-17.99	571.24	549.34	-21.90
02/16/95	574.27	565.78	-8.49	588.80	568.03	-20.77	575.97	549.89	-26.08
05/11/95	574.32	566.48	-7.84	586.70	568.77	-17.93	577.59	549.03	-28.56
08/01/95	574.82	565.58	-9.24	581.07	568.43	-12.64	573.64	549.88	-23.76
11/02/95	574.82	565.98	-8.84	589.02	568.93	-20.09	570.21	549.78	-20.43
02/06/96	573.59	566.47	-7.12	588.67	569.67	-19.00	576.52	550.16	-26.36
05/01/96	573.87	567.36	-6.51	589.30	570.38	-18.92	577.91	551.84	-26.07
08/06/96	573.64	565.84	-7.80	582.11	568.19	-13.92	574.06	549.07	-24.99
11/05/96	573.97	566.64	-7.33	589.01	569.49	-19.52	571.99	549.28	-22.71

All elevations are based on USGS datum.
R = Bedrock Well; O = Overburden Well
NM = Not measured
NA = Not accessible
(1) = possible surface infiltration
(2) = obstructed

WELL NO.	CMW-4OB	CMW-4SH		CMW-5OB	CMW-5SH		CMW-6OB	CMW-6SH	
TYPE	O	R	Hydraulic	O	R	Hydraulic	O	R	Hydraulic
CASING EL.	574.85	574.97	Gradient	584.13	584.13	Gradient	572.55	572.68	Gradient
GROUND EL	575.7	575.6		584.70	584.70		573.4	573.3	
02/25/87	568.52	565.72	-2.80	579.11	577.65	-1.46	Dry	560.74	NA
03/05/87	568.60	566.76	-1.84	580.90	578.98	-1.92	569.40	562.14	-7.26
04/14/87	567.69	567.24	-0.45	581.27	579.41	-1.86	569.53	563.23	-6.30
05/05/87	567.84	566.22	-1.62	579.96	577.69	-2.27	569.61	562.76	-6.85
06/16/87	567.94	NM	NA	577.97	576.35	-1.62	569.84	562.36	-7.48
07/08/87	568.39	564.84	-3.55	577.66	576.14	-1.52	570.17	562.28	-7.89
08/06/87	569.48	565.05	-4.43	577.75	576.44	-1.31	571.34	562.63	-8.71
09/09/87	570.89	564.86	-6.03	578.04	576.19	-1.85	570.03	562.49	-7.54
10/08/87	572.00	NM	NA	NM	576.59	NA	570.54	562.14	NA
11/06/87	571.13	565.20	-5.93	578.46	576.57	-1.89	569.95	562.08	-7.87
12/18/87	573.34	566.39	-6.95	580.89	578.91	-1.98	572.42	562.75	-9.67
01/11/88	571.48	566.04	-5.44	579.20	577.60	-1.60	570.60	562.76	-7.84
02/08/88	570.82	566.14	-4.68	Frozen	577.67	NA	570.68	562.81	-7.87
03/08/88	572.61	566.44	-6.17	580.31	578.23	-2.08	570.81	562.88	-7.93
04/05/88	571.01	566.91	-4.10	580.96	578.84	-2.12	571.35	562.92	-8.43
05/03/88	570.72	566.52	-4.20	579.57	578.08	-1.49	570.09	562.82	-7.27
06/08/88	569.95	565.97	-3.98	578.30	576.72	-1.58	569.73	562.52	-7.21
07/20/88	571.46	565.07	-6.39	578.04	575.84	-2.20	571.44	562.13	-9.31
08/08/88	570.92	564.72	-6.20	577.63	575.13	-2.50	570.05	562.02	-8.03
09/09/88	570.33	564.07	-6.26	577.38	574.60	-2.78	569.40	561.92	-7.48
10/06/88	570.94	563.66	-7.28	576.99	574.14	-2.85	Dry	561.66	NA
11/04/88	574.29	564.49	-9.80	577.86	575.49	-2.37	569.95	562.97	-6.98
12/12/88	574.29	565.15	-9.14	577.71	575.90	-1.81	570.47	562.18	-8.29
03/28/89	Flooded	566.43	NA	580.82	578.36	-2.46	570.78	563.05	-7.73
06/08/89	Flooded	565.22	NA	580.11	577.88	-2.23	570.86	562.80	-8.06
09/02/89	574.34	563.64	-10.70	577.61	573.96	-3.65	569.78	561.85	-7.93
12/06/89	574.85	564.80	-10.05	578.61	576.71	-1.90	569.95	562.60	-7.35
03/22/90	Flooded	566.27	NA	581.87	578.93	-2.94	570.20	563.28	-6.92
06/01/90	Flooded	565.37	NA	580.63	577.98	-2.65	570.05	562.32	-7.73
09/21/90	Flooded	564.47	NA	577.38	574.78	-2.60	570.65	561.98	-8.67
12/21/90	Flooded	566.87	NA	579.63	577.93	-1.70	570.94	562.26	-8.68
03/27/91	Flooded	568.34	NA	581.25	579.35	-1.90	572.05	563.47	-8.58
06/05/91	Flooded	566.16	NA	577.93	576.68	-1.25	571.05	562.09	-8.96
09/26/91	Flooded	564.28	NA	NM	572.79	NA	NM	561.79	NA
12/18/91	Flooded	564.28	NA	578.49	575.89	-2.60	570.15	562.53	-7.62
03/19/92	Flooded	567.04	NA	579.94	577.75	-2.19	571.29	562.99	-8.30
06/26/92	Flooded	566.82	NA	578.12	576.49	-1.63	569.35	562.47	-6.88
09/28/92	Flooded	566.69	NA	578.28	576.83	-1.45	569.86	562.59	-7.27
12/21/92	Flooded	568.25	NA	581.36	579.51	-1.85	570.36	563.18	-7.18

All elevations are based on USGS datum.
R = Bedrock Well; O = Overburden Well
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NA = Not accessible
(1) = possible surface infiltration
(2) = obstructed

WELL NO.	CMW-4OB	CMW-4SH		CMW-5OB	CMW-5SH		CMW-6OB	CMW-6SH	
TYPE	O	R	Hydraulic	O	R	Hydraulic	O	R	Hydraulic
CASING EL.	574.85	574.97	Gradient	584.13	584.13	Gradient	572.55	572.68	Gradient
GROUND EL	575.7	575.6		584.70	584.70		573.4	573.3	
03/08/93	Flooded	568.67	NA	583.61	579.59	-4.02	571.19	562.88	-8.31
06/16/93	Flooded	566.15	NA	578.53	577.10	-1.43	569.62	562.62	-7.00
09/14/93	Flooded	566.04	NA	577.10	573.90	-3.20	Dry	562.05	NA
12/21/93	Flooded	567.13	NA	579.11	577.36	-1.75	570.02	562.78	-7.24
03/01/94	574.68	567.82	-6.86	Flooded	578.51	NA	570.10	562.88	-7.22
05/10/94	Flooded	567.35	NA	579.83	577.63	-2.20	569.43	562.65	-6.78
08/02/94	Flooded	566.58	NA	577.99	576.42	-1.57	569.85	562.45	-7.40
11/01/94	Flooded	565.72	NA	577.20	569.58	-7.62	Dry	562.48	NA
02/16/95	574.85	566.32	-8.53	579.18	577.43	-1.75	571.46	562.45	-9.01
05/11/95	574.85	566.72	-8.13	577.93	577.05	-0.88	569.44	562.89	-6.55
08/01/95	574.85	566.05	-8.80	577.78	576.13	-1.65	569.32	562.41	-6.91
11/02/95	Flooded	566.41	NA	579.00	576.94	-2.06	570.22	562.42	-7.80
02/06/96	574.10	567.07	-7.03	580.05	577.28	-2.77	570.24	562.74	-7.50
05/01/96	Flooded	567.77	NA	580.95	579.08	-1.87	569.35	563.09	-6.26
08/06/96	Flooded	565.97	NA	577.38	575.72	-1.66	Dry	562.46	NA
11/05/96	Flooded	566.72	NA	578.77	577.01	-1.76	570.14	562.34	-7.80

All elevations are based on USGS datum.
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NA = Not accessible
(1) = possible surface infiltration
(2) = obstructed

WELL NO.	*CMW-7OB*	*CMW-7SH*		*CMW-8OB*	*CMW-8SH*	
TYPE	*O*	*R*	*Hydraulic*	*O*	*R*	*Hydraulic*
CASING EL.	*611.38*	*611.16*	*Gradient*	*616.78*	*617.01*	*Gradient*
GROUND EL	*612.1*	*612.1*		*617.3*	*617.3*	
02/25/87	606.17	599.33	-6.84	Dry	607.44	NA
03/05/87	606.18	600.24	-5.94	Dry	610.47	NA
04/14/87	Dry	602.78	NA	Dry	612.57	NA
05/05/87	Dry	599.85	NA	Dry	609.26	NA
06/16/87	Dry	587.33	NA	Dry	605.59	NA
07/08/87	Dry	599.09	NA	Dry	NM	NA
08/06/87	Dry	599.41	NA	Dry	605.48	NA
09/09/87	Dry	599.02	NA	Dry	NM	NA
10/08/87	Dry	599.45	NA	Dry	606.93	NA
11/06/87	Dry	599.08	NA	Dry	605.43	NA
12/18/87	606.18	600.76	-5.42	Dry	610.88	NA
01/11/88	606.11	599.49	-6.62	Dry	608.39	NA
02/08/88	Frozen	Frozen	NA	613.52	607.11	-6.41
03/08/88	606.16	599.80	-6.36	613.54	609.05	-4.49
04/05/88	Dry	600.40	NA	Dry	610.43	NA
05/03/88	Dry	599.76	NA	Dry	608.70	NA
06/08/88	Dry	599.15	NA	Dry	606.31	NA
07/20/88	Dry	598.58	NA	Dry	Plugged	NA
08/08/88	Dry	597.78	NA	Dry	Plugged	NA
09/09/88	Dry	597.00	NA	Dry	Plugged	NA
10/06/88	Dry	596.26	NA	Dry	Plugged	NA
11/04/88	Dry	597.43	NA	Dry	Plugged	NA
12/12/88	Dry	597.88	NA	Dry	Plugged	NA
03/28/89	Dry	599.24	NA	Dry	Plugged	NA
06/08/89	Dry	600.58	NA	Dry	610.51	NA
09/02/89	Dry	597.24	NA	Dry	Plugged	NA
12/06/89	Dry	599.12	NA	Dry	606.51	NA
03/22/90	Dry	601.56	NA	Dry	612.30	NA
06/01/90	Dry	600.21	NA	Dry	610.61	NA
09/21/90	Dry	598.31	NA	Dry	NM	NA
12/21/90	Dry	599.72	NA	Dry	607.49	NA
03/27/91	Dry	602.24	NA	Dry	613.43	NA
06/05/91	Dry	599.71	NA	Dry	607.91	NA
09/26/91	Dry	596.39	NA	Dry	NM	NA
12/18/91	Dry	598.90	NA	Dry	Dry	NA
03/19/92	Dry	599.78	NA	Dry	609.09	NA
06/26/92	Dry	599.53	NA	Dry	607.82	NA
09/28/92	Dry	599.98	NA	Dry	608.71	NA
12/21/92	Dry	602.86	NA	Dry	613.80	NA

All elevations are based on USGS datum.
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(2) = obstructed

WELL NO.	*CMW-7OB*	*CMW-7SH*		*CMW-8OB*	*CMW-8SH*	
TYPE	*O*	*R*	*Hydraulic*	*O*	*R*	*Hydraulic*
CASING EL.	*611.38*	*611.16*	*Gradient*	*616.78*	*617.01*	*Gradient*
GROUND EL	*612.1*	*612.1*		*617.3*	*617.3*	
03/08/93	606.38	Buried	NA	Dry	609.40	NA
06/16/93	Dry	600.41	NA	Dry	609.88	NA
09/14/93	Dry	597.89	NA	Dry	605.01	NA
12/21/93	608.26	599.24	-9.02	Dry	Obstructed	NA
03/01/94	606.89	Obstructed	NA	Dry	610.59	NA
05/10/94	606.17	600.12	-6.05	Dry	610.03	NA
08/02/94	Dry	599.22	NA	Dry	607.45	NA
11/01/94	Obstructed	598.14	NA	Obstructed	605.53	NA
02/16/95	Obstructed	599.86	NA	612.93	599.81	-13.12
05/11/95	605.98	598.86	-7.12	613.47	606.11	-7.36
08/01/95	Dry	598.46	NA	Dry	Dry	NA
11/02/95	Dry	599.24	NA	Buried	Buried	NA
02/06/96	NM	NM	NA	NM	NM	NA
05/01/96	Dry	602.04	NA	613.47	612.29	-1.18
08/06/96	Dry	598.59	NA	Dry	605.20	NA
11/05/96	Dry	599.74	NA	Dry	607.82	NA

All elevations are based on USGS datum.
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WELL NO.	CMW-9SH	MANHOLE Hudson &		CMW-11SH	MANHOLE Hudson &	
TYPE	R	Wyoming	Hydraulic	R	Garrett	Hydraulic
CASING EL.	572.59	572.33	Gradient	573.86	574.56	Gradient
GROUND EL	572.8	--		574.0	--	
02/25/87			NA			NA
03/05/87			NA			NA
04/14/87			NA			NA
05/05/87			NA			NA
06/16/87			NA			NA
07/08/87			NA			NA
08/06/87			NA			NA
09/09/87			NA			NA
10/08/87	560.83	559.68	-1.15	562.41	561.04	-1.37
11/06/87	560.82	559.83	-0.99	562.60	561.16	-1.44
12/18/87	561.48	560.06	-1.42	565.21	561.16	-4.05
01/11/88	560.83	559.80	-1.03	562.58	561.21	-1.37
02/08/88	560.86	559.85	-1.01	562.96	561.23	-1.73
03/08/88	560.98	559.89	-1.09	562.86	561.25	-1.61
04/05/88	561.19	559.91	-1.28	565.18	561.23	-3.95
05/03/88	561.01	559.79	-1.22	565.00	561.17	-3.83
06/08/88	560.72	559.70	-1.02	561.94	561.18	-0.76
07/20/88	560.70	559.75	-0.95	561.03	561.22	0.19
08/08/88	560.55	559.68	-0.87	560.80	561.17	0.37
09/09/88	560.55	559.70	-0.85	560.70	561.11	0.41
10/06/88	560.50	559.75	-0.75	560.55	561.24	0.69
11/04/88	560.58	559.93	-0.65	560.90	561.41	0.51
12/12/88	560.53	559.70	-0.83	563.17	561.28	-1.89
03/28/89	560.96	Frozen	NA	565.42	Frozen	NA
06/08/89	560.94	NM	NA	565.26	NM	NA
09/02/89	560.51	NM	NA	560.63	NM	NA
12/06/89	560.55	NM	NA	565.11	NM	NA
03/22/90	560.87	NM	NA	NM	NM	NA
06/01/90	560.64	NM	NA	NM	NM	NA
09/21/90	560.53	NM	NA	561.01	NM	NA
12/21/90	560.87	NM	NA	565.21	NM	NA
03/27/91	561.84	NM	NA	565.76	NM	NA
06/05/91	560.44	NM	NA	561.29	NM	NA
09/26/91	560.59	559.91	-0.68	564.25	Not Found	NA
12/18/91	560.46	Frozen	NA	564.29	Not Found	NA
03/19/92	569.39	560.03	-9.36	565.48	561.43	-4.05
06/26/92	569.49	559.86	-9.63	562.60	561.23	-1.37
09/28/92	569.49	559.83	-9.66	565.13	561.28	-3.85
12/21/92	569.49	559.85	-9.64	565.68	561.32	-4.36

All elevations are based on USGS datum.
R = Bedrock Well; O = Overburden Well
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NA = Not accessible
(1) = possible surface infiltration
(2) = obstructed

CMW MONITORING PROGRAM
HYDE PARK LANDFILL

WELL NO.	*CMW-9SH*	*MANHOLE Hudson & Wyoming*	*Hydraulic Gradient*	*CMW-11SH*	*MANHOLE Hudson & Garrett*	*Hydraulic Gradient*
TYPE	*R*			*R*		
CASING EL.	*572.59*	*572.33*		*573.86*	*574.56*	
GROUND EL	*572.8*	--		*574.0*	--	
03/08/93	569.49	559.93	-9.56	565.03	561.31	-3.72
06/16/93	569.59	559.93	-9.66	563.76	561.46	-2.30
09/14/93	569.29	559.76	-9.53	560.89	NM	NA
12/21/93	569.59	559.92	-9.67	563.73	561.31	-2.42
03/01/94	560.66	559.71	-0.95	563.54	561.35	-2.19
05/10/94	560.53	559.78	-0.75	563.50	561.39	-2.11
08/02/94	Obstructed	559.78	NA	563.39	NM	NA
11/01/94	Obstructed	NM	NA	560.94	NM	NA
02/16/95	Obstructed	Dry	NA	563.75	561.31	-2.44
05/11/95	Obstructed	Dry	NA	563.20	561.28	-1.92
08/01/95	Obstructed	559.83	NA	561.08	561.22	0.14
11/02/95	560.56	559.82	-0.74	565.10	561.32	-3.78
02/06/96	560.61	559.93	-0.68	565.28	561.38	-3.90
05/01/96	560.85	559.87	-0.98	565.46	561.28	-4.18
08/06/96	560.31	Dry	NA	560.77	561.05	0.28
11/05/96	560.46	558.99	-1.47	564.69	562.16	-2.53

All elevations are based on USGS datum.
R = Bedrock Well; O = Overburden Well
NM = Not measured
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(2) = obstructed

APPENDIX B-2

AIR SAMPLING ANALYTICAL DATA AND LABORATORY REPORT - CMW MONITORING

COPY

CRA
2055 Niagara Falls Boulevard
Suite Three
Niagara Falls, New York 14304
(716) 297-6150
(716) 297-2265 Telecopier

MEMO

TO: Mike Kargatis

REFERENCE NO: 4341

FROM: Dave Tyran/js/11

DATE: September 6, 1996

RE: Hyde Park ~~Gorge Seep~~ Community Monitoring Sampling

C.C.: Rick Hoekstra

The third quarterly sampling event of 1996 for the Hyde Park community monitoring wells (CMW) was recently completed by Conestoga-Rovers & Associates (CRA). CMW-7-OB and CMW-8-OB were sampled during the period from August 29, 1996 to September 6, 1996.

The field data pertinent to this program has been summarized as follows:

1. Pump Calibration

   The SKC Airchek Sampler pumps model number 224-PCxR3 were calibrated to draw 250 cc of air per minute.

2. Sample Media

   All air samples were collected using SKC charcoal tubes.

3. CMW-7-OB

Date	*Pump No.*	*Run Time (Minutes)*	*Avg. Flow Rate*	*Total Flow (L)*
09/05/96	529881	442	.249	110.0
09/05/96	529873	317	.249	78.9
09/05/96	529839	217	.249	54.0
09/06/96	529879	350	.249	87.2
09/06/96	529881	127	.249	31.7

Total Purge Volume: 362L
Target Purge Volume: 348L

4. CWM-8-OB

Date	*Pump No.*	*Run Time (Minutes)*	*Avg. Flow Rate*	*Total Flow (L)*
08/29/96	529873	509	.253	128.8
08/29/96	531177	250	253	63.2
08/30/96	529839	343	.253	86.8
08/30/96	529879	321	.253	81.2

Total Purge Volume: 360L
Target Purge Volume: 348L

All charcoal tubes, including opened blanks, were submitted to Recra Environmental Inc. (Recra) for analysis under CRA chains of custody 1524 and 3115 on August 30, 1996 and September 6, 1996, respectively.

If you should have any questions, please contact me at 716-297-6150.

RECRA ENVIRONMENTAL INC.

Chemical and Environmental Analysis Services

September 20, 1996

Mr. Michael Kargatis
Occidental Chemical Corporation
360 Rainbow Blvd. South
Niagara Falls, NY 14302

Dear Mr. Kargatis:

Please find enclosed the results of the analyses of the sample(s) submitted by your firm.

Quote#: NY93-539
Project#: NY9C1936
Task#: 1

Project Name: HYDE PARK AIR ANALYSIS
Matrix: Air
Samples Rec'd: 08/30/96
Sample Date: 08/30/96

Methodology:
___ 40 CFR 136
___ SW 846, 3rd EDITION
___ 40 CFR 261 (TCLP)
_X_ NIOSH Other

If you have any questions concerning these data, please contact me at (716) 691-2600. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

C. Fox

Candace L. Fox KEK for
Program Manager

CLF/ltb
cc: Denise Tuhovak
2055 Niagara Falls Blvd, S-3
Niagara Falls, NY 14304

I.D.#A96-4222
#NY9C1936

Prepared For:

Occidental Chemical Corp.
360 Rainbow Blvd. South
Niagara Falls, New York 14302

Prepared By:

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical result is indicated on the specific data table. The method numbers presented refers to the following U.S. Department of Health, Education, and Welfare, Publ. (NIOSH).

* NIOSH Method 1003; NIOSH Manual of Analytical Methods, 2nd ed., V. 1. P&CAM 127.

COMMENTS

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

METHOD 1003 DATA

Water was present in the extracts in either end of the tubes.

The detection limits were low due to the volume sampled; test was set up for 30 liters, not 300.

ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction blank as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

Occidental Chemical Corporation

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS **000003**

Laboratory: Recra LabNet :RECNY
Lab Job No: A96-4222
Lab Samp ID:A6422201
Client ID: 96C-4341-DJT-CMW-80b

Matrix: Air
Dilution Factor: 1
Sample Date: 08/30/96
Analysis Date: 09/18/96

Parameter Units = MG/M3	Result	Q
Chlorobenzene	0.83	U
Monochlorotoluenes	0.83	U
m-Monochlorobenzotrifluoride	0.83	U
o-Monochlorobenzotrifluoride	0.83	U
p-Monochlorobenzotrifluoride	0.83	U

Occidental Chemical Corporation

000004

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet :RECNY
Lab Job No: A96-4222
Lab Samp ID:A6422202
Client ID: 96C-4341-DJT-BLANK

Matrix: Air
Dilution Factor: 1
Sample Date: 08/30/96
Analysis Date: 09/18/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

Occidental Chemical Corporation

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet
Lab Job No: A96-4222
Lab Samp ID:A6B0808501
Client ID: Method Blank

:RECNY

Matrix: Air
Dilution Factor: 1
Sample Date: -
Analysis Date: 09/18/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

Occidental Chemical Corporation

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet :RECNY
Lab Job No: A96-4222
Lab Samp ID:A6B0808502
Client ID: Matrix Spike Blank

Matrix: Air
Dilution Factor: 1
Sample Date: -
Analysis Date: 09/19/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

OCCIDENTAL CHEMICAL CORPORATION
METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS
WATER MATRIX SPIKE BLANK RECOVERY

Lab Name: Recra LabNet Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: Method Blank

COMPOUND	SPIKE ADDED MG/M3	MSB CONCENTRATION MG/M3	MSB % REC
Chlorobenzene	0.20	0.21	105
Monochlorotoluenes	0.40	0.41	102

Comments: _____

CHAIN OF CUSTODY RECORD

TreaTek - CRA™ COMPANY
2055 Niagara Falls Blvd. Suite Three
Niagara Falls, NY 14304 (716)297-2160

SHIPPED TO (Laboratory Name): Recra

REFERENCE NUMBER: 4341
Hyde Park - 1/4 Ly CMW
Air Sampling

SAMPLER'S SIGNATURE: David J Tyran PRINTED NAME: David J Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	8.30.96	0900	96C-4341-DJT CMW-80b	Charcoal	1		
	↓		96C-4341-DJT-BLANK	↓	1		
			Total Flow CMW 80b 360.05		L		

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① David J Tyran	DATE: 8-30-96 TIME: 18 00	RECEIVED BY: ② Michael Phitrin	DATE: 08/30/96 TIME: 18:00
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Auto WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: D. Tyran

RECEIVED FOR LABORATORY BY: _____ Nº NF-1524
DATE: _____ TIME: _____

1001 (D) OCT 31/94(NF) REV.0 (F-13)

RECRA ENVIRONMENTAL INC.

Chemical and Environmental Analysis Services

September 20, 1996

Mr. Michael Kargatis
Occidental Chemical Corporation
360 Rainbow Blvd. South
Niagara Falls, NY 14302

Dear Mr. Kargatis:

Please find enclosed the results of the analyses of the sample(s) submitted by your firm.

Quote#: NY93-539
Project#: NY9C1936
Task#: 1

Project Name: HYDE PARK AIR ANALYSIS
Matrix: Air
Samples Rec'd: 09/06/96
Sample Date: 09/06/96

Methodology:

___ 40 CFR 136
___ SW 846, 3rd EDITION
___ 40 CFR 261 (TCLP)
_X_ NIOSH Other

If you have any questions concerning these data, please contact me at (716) 691-2600. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

C. Fox

Candace L. Fox KEK for
Program Manager

CLF/ltb
cc: Denise Tuhovak
2055 Niagara Falls Blvd, S-3
Niagara Falls, NY 14304

I.D.#A96-4348
#NY9C1936

Prepared For:

Occidental Chemical Corp.
360 Rainbow Blvd. South
Niagara Falls, New York 14302

Prepared By:

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical result is indicated on the specific data table. The method numbers presented refers to the following U.S. Department of Health, Education, and Welfare, Publ. (NIOSH).

* NIOSH Method 1003; NIOSH Manual of Analytical Methods, 2nd ed., V. 1. P&CAM 127.

COMMENTS

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

METHOD 1003 DATA

Water was present in the extracts in either end of the tubes.

The detection limits were low due to the volume sampled; test was set up for 30 liters, not 300.

ORGANIC DATA COMMENT PAGE

000002

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction blank as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

Occidental Chemical Corporation

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet
Lab Job No: A96-4348
Lab Samp ID:A6434801
Client ID: 96C-4341-DJT-CMW-70b

:RECNY Matrix: Air
Dilution Factor: 1
Sample Date: 09/06/96
Analysis Date: 09/18/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		0.83	U
Monochlorotoluenes		0.83	U
m-Monochlorobenzotrifluoride		0.83	U
o-Monochlorobenzotrifluoride		0.83	U
p-Monochlorobenzotrifluoride		0.83	U

Occidental Chemical Corporation

000004

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet
Lab Job No: A96-4348
Lab Samp ID:A6434802
Client ID: 96C-4341-DJT-BLANK

:RECNY

Matrix: Air
Dilution Factor: 1
Sample Date: 09/06/96
Analysis Date: 09/18/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

Occidental Chemical Corporation

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

000005

Laboratory: Recra LabNet
Lab Job No: A96-4348
ab Samp ID:A6B0808501
-lient ID: Method Blank

:RECNY Matrix: Air
Dilution Factor: 1
Sample Date: -
Analysis Date: 09/18/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

Occidental Chemical Corporation

000006

METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS

Laboratory: Recra LabNet :RECNY Matrix: Air
Lab Job No: A96-4348 Dilution Factor: 1
Lab Samp ID:A6B0808502 Sample Date: -
Client ID: Matrix Spike Blank Analysis Date: 09/19/96

Parameter	Units = MG/M3	Result	Q
Chlorobenzene		1.0	U
Monochlorotoluenes		1.0	U
m-Monochlorobenzotrifluoride		1.0	U
o-Monochlorobenzotrifluoride		1.0	U
p-Monochlorobenzotrifluoride		1.0	U

OCCIDENTAL CHEMICAL CORPORATION
METHOD 1003 - HYDE PARK AIR TUBE ANALYSIS
WATER MATRIX SPIKE BLANK RECOVERY

000007

Lab Name: Recra LabNet Contract: _____

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: Method Blank

COMPOUND	SPIKE ADDED MG/M3	MSB CONCENTRATION MG/M3	MSB % REC
Chlorobenzene	0.20	0.21	105
Monochlorotoluenes	0.40	0.41	102

Comments: _____
_____

CHAIN OF CUSTODY RECORD

CRA
CONESTOGA-ROVERS & ASSOCIATES
2055 Niagara Falls Blvd. Suite Three
Niagara Falls, NY 14304 (716)297-6150

SHIPPED TO (Laboratory Name): Recra

REFERENCE NUMBER: 4341
Hyde Park CMW 1/4 'Ly
Air Sampling 3rd Quarter

SAMPLER'S SIGNATURE: David J Tyran PRINTED NAME: David J Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	9-6-96	1300	96C-4341-DJT-CMW 7ab	charcoal	1		
			96C-4341-DJT-BLANK	↓	1		
			Total Flow 361.8 L				
TOTAL NUMBER OF CONTAINERS					2	HEALTH/CHEMICAL HAZARDS	

RELINQUISHED BY: ① David J Tyran	DATE: 9-6-96 TIME: 1730	RECEIVED BY: ②	DATE: 9-6-96 TIME: 1730
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Hand Delivered WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: D. Tyran, T. Roner

RECEIVED FOR LABORATORY BY:
DATE: 9-6-96 TIME: 1730

Nº NF- 3115

1001 (D) OCT 31/94(NF) REV.1 (F-05)

APPENDIX B-3

ANNUAL GROUNDWATER SAMPLE ANALYTICAL DATA AND LABORATORY REPORT - CMW MONITORING

CRA
2055 Niagara Falls Boulevard
Suite Three
Niagara Falls, New York 14304
(716) 297-6150
(716) 297-2265 Telecopier

MEMO

TO: Rick Hoekstra

REFERENCE NO: 4341

FROM: Lisa Reyes/ms/2

DATE: November 19, 1996

RE: Community Monitoring Well Program
Occidental Chemical Corporation
Hyde Park Landfill

CC: Mike Kargatis

Sample CMW 20B was collected on September 10, 1996 in support of the annual Community Monitoring Program at Hyde Park, Niagara Falls, New York. The sample was analyzed for site-specific organic compounds using OxyChem's HPLC[1] and microextraction[2], and total organic halides using EPA Method 450.1[3]. The analytical results are summarized in Table 1 and the chains of custody are attached.

The sample was analyzed within the method-specified holding times. Matrix spike/matrix spike duplicate and blank spike results were acceptable. All method blank results were non-detect for the compounds of interest.

All analytical results were acceptable for use.

---

1 HPLC: High Performance Liquid Chromatography "Determination of Benzoic Acid, Chlorobenzoic Acids, and Chlorendic Acid in Water", Quality Assurance Plans and Analytical Protocols for High Priority Programs, Hyde Park Requisite Remedial Technology Program, July 1986.

2 "Compilation of Microextraction Method, "Remi Cortellucci, August 1989.

3 "Methods for Chemical Analysis of Water and Wastes", March 1983.

TABLE 1

ANALYTICAL RESULTS SUMMARY
ANNUAL COMMUNITY MONITORING WELL SAMPLING
OCCIDENTAL CHEMICAL CORPORATION
NIAGARA FALLS, NEW YORK
SEPTEMBER 1996

Location ID:	*CMW20B*
Collection Date:	*09/10/96*
	(µg/L)
Parameters	
Chlorobenzene	ND 1
o-Chlorotoluene	4.0
m-Chlorotoluene	ND 1
p-Chlorotoluene	ND 1
o-Chlorobenzotrifluoride	ND 1
m-Chlorobenzotrifluoride	ND 1
p-Chlorobenzotrifluoride	ND 1
Benzoic Acid	ND 100
o-Chlorobenzoic Acid	50
m-Chlorobenzoic Acid	ND 30
p-Chlorobenzoic Acid	31
Chlorendic Acid	ND 250
Total Organic Halides	24

Notes:
NDx Not detected at or above x.

CHAIN OF CUSTODY RECORD

TreaTek - CRA™ COMPANY
2055 Niagara Falls Blvd. Suite Three
Niagara Falls, NY 14304 (716)297-2160

SHIPPED TO (Laboratory Name): Works

REFERENCE NUMBER: 1069/434 Hyde Park NDW 4th Qtr Sampling

SAMPLER'S SIGNATURE: John Ranes PRINTED NAME: John Ranes

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: Phenol	Misc	methods master	REMARKS
	9/10	0900	96C-1069-JR-H3L	GW	2	1 X			
	9/10	1400	96C-1069-JR-H2M	GW	2	1 X			
	9/10	1230	96A-4341-596-JR-IFW5	GW	1		X		
	9/10	1300	96A-4341-596-JR-CMW20B	GW	1			X	
			TOTAL NUMBER OF CONTAINERS		4	HEALTH/CHEMICAL HAZARDS			

RELINQUISHED BY ① John Ranes	DATE: 9/11/96 TIME: 0815	RECEIVED BY: ②	DATE: 9-11-96 TIME: 0815
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: John Ranes

RECEIVED FOR LABORATORY BY:
DATE: TIME:

№ NF-1567

1001 (D) OCT 31/94(NF) REV.0 (F-13)

CHAIN OF CUSTODY RECORD

TreaTek - CRA™ COMPANY
2055 Niagara Falls Blvd. Suite Three
Niagara Falls, NY 14304 (716)297-2160

SHIPPED TO (Laboratory Name): Weston

REFERENCE NUMBER: 1069/4341

NDW 1/4/y Sampling

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: John Raner

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: HPLC	Tox	PCB's	Chloroform	REMARKS
	9/10/96	0900	96C-1069-JR-H3L	GW	2	1	1			NDW - 1069
	9/10/96	1400	96C-1069-JR-H2M	GW	2	1	1			NDW - 1069
	9/10/96	1230	96A-4341-996-JR-IFW5	GW	4			2	2	IFW Annual - 4341
	9/10/96	1300	96A-4341-996-JR-CMW2OB	GW	2	1	1			CMW Sampling 4341 c
			temp blank							

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [signature]	DATE: 9/10/96 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Federal Express WAY BILL No. 7974937386

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: John Raner

RECEIVED FOR LABORATORY BY: Dawn Mund

DATE: 9/11/96 TIME: 900

Nº NF–

APPENDIX C-1

LEACHATE TREATMENT SYSTEM

DAILY EFFLUENT AND MIDPOINT ANALYTICAL DATA

DE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 212

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST & AND COMMENTS
Daily Comp	7/1	7/1	8.0	3.7	7/1	<.1	7/1	TOC 19-1805	
Influx A	↓	↓	7.4	3.7	↓	<.1	↓	Phenol 19-1836	
CB Feed			7.6	14.7		<.1		pH 18-1789	
BTL Feed	↓	↓	7.4	69.9		16.2			
QA	Daily Comp Dup			2.3		<.1		TOC	
	Spiked With			1000		see HP 7/2		Phenol	
	Found-Spike A			921					
	Found-Spike B			948		for QC			
	Plant			2.2	↓	↓	↓		

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST & AND COMMENTS
Daily Comp	7/2	7/2	7.7	3.7	7/2	<.1	7/2	TOC 19-1806	Settled off 7/2 29ppm TSS
Influx A	↓	↓	7.5	3.2	↓	<.1	↓	Phenol 19-1838	
CB Feed			7.6	10.8		<.1		pH 18-1791	
BTL Feed	↓	↓	7.4	73.3		18.9			
QA	Daily Comp Dup			2.1		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			942		1.99			
	Found-Spike B			960		1.96			
	Plant			10.3	↓	<.1	↓		

PARK CALOON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 212
batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	6/30	6/30	7.9	2.4	7/2	<.1	7/2	TOC 19-1807
Inter A			7.3	2.6		<.1		Phenol 19-1839
CS Feed			7.6	9.2		<.1		pH 18-1792
SBR Feed			7.6	89.7		23.6		
QA	Daily Comp Dup			2.0		<.1		TOC
	Spiked With			1000				Phenol
	Found-Spike A			952				
	Found-Spike B			943				
	Blank			10.0				

ANALYST
AND COMMENTS
QC done on HP 6/29 (Phenol)
7/2/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/3	7/3	7.9	3.7	7/3	<.1	7/3	TOC 19-1808
Inter			7.4	3.6		<.1		Phenol 19-1840
CS Feed			7.8	9.8		0.13		pH 18-1793
SBR Feed			7.4	88.9		20.8		
QA	Daily Comp Dup			2.7		<.1		TOC
	Spiked With			1000				Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST
AND COMMENTS
Section 46 7/3
2 ppm TSS

ID:
AUG 06'96 10:54 No.003 P.19

HYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AP AND COMMENTS
Daily Comp	7/4	7/5	8.0	3.2	7/5	<.1	7/5	TOC 19-1809	QC done on NP 7/4
Inter A			7.4	3.2		<.1		Phenol 19-1841	
CB Feed			7.7	10.6		0.10		pH 18-1795	
BBR Feed			7.4	95.6		20.0			
QA	Daily Comp Dup			2.5		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AP AND COMMENTS
Daily Comp	7/6	7/7	7.9	1.6	7/8	<.1	7/8	TOC 19-1810	QC done on HP 7/8
Inter A			7.3	2.5		<.1		Phenol 19-1842	
CB Feed			7.6	9.3		0.15		pH 18-1796	
BBR Feed			7.4	71.7		19.6			
QA	Daily Comp Dup			1.7		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

7/5/96

KYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Kyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/7	7/7	7.9	1.9	7/8	<.1	7/8	NC 19-1811	QC done on AP 7/8
Inlet A			7.4	3.3		<.1		Phenol 19-1843	
CU Feed			7.3	18.8		<.1		pH 18-1797	
KPC Feed			7.4	71.9		17.2			
QA	Daily Comp Dup			1.4		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike I								
	Found-Spike II								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/8	7/8	2.9	2.0	7/8	<.1	7/8	NC 19-1814	Settler Eff 7/5
Inlet A			7.3	2.8		<.1		Phenol 18-1843	22ppm TSS
CU Feed			7.9	9.5		<.1		pH 18-1797	
KPC Feed			7.4	73.4		18.6			
QA	Daily Comp Dup			1.5		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike I			964		1.88			
	Found-Spike II			976		1.97			
	Blank			6.9		<.1			

HYDE PARK GALOON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/9	7/9	7.8	3.0	7/9	<.1	7/9	TOC 19-1812
Intec A	↓	↓	7.4	3.1	↓	<.1	↓	Phenol 19-1844
Cl Feed	↓	↓	7.4	9.8	↓	<.1	↓	pH 18-1778
SRU Feed	↓	↓	7.4	64.5	↓	14.7	↓	
QA	Daily Comp Dup			1.6	↓	<.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			954	↓	2.06	↓	
	Found-Spike B			972	↓	1.95	↓	
	Blank			1.7	↓	<.1	↓	

ANALYST
AND COMMENTS
Settler Eff 7/9 6pm TSS
EJ 7/9/96

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/10	7/10	8.0	3.0	7/10	<.1	7/10	TOC 19-1813
Intec A	↓	↓	7.3	3.7	↓	<.1	↓	Phenol 19-1845
Cl Feed	↓	↓	7.3	13.3	↓	0.28	↓	pH 18-1799
SRU Feed	↓	↓	7.3	46.9	↓	10.0	↓	
QA	Daily Comp Dup			1.9	↓	<.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			944	↓	1.86	↓	
	Found-Spike B			961	↓	1.86	↓	
	Blank			51	↓	<.1	↓	

ANALYST
AND COMMENTS
Settler Eff 7/10/96
6pm TSS
EJ 7/10/96

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 168

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	pH ✓	TOC (PPM) ✓	TOC ANALYSIS DATE	PHENOL (PPM) ✓	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/11	7/11	7.9	25	7/11	<.1	7/11	TOC 19-184	Settled eff 7/11
Inter A	↓	↓	7.3	4.4	↓	<.1	↓	Phenol 19-184	22ppm TSS
GS Feed	↓	↓	7.3	9.4	↓	0.27	↓	pH 18-180	
SSL Feed	↓	↓	7.4	54.4	↓	13.7	↓		
QA	Daily Comp Dup			26	↓	<.1	↓	TOC	
	Spiked With			1002	↓	2.00	↓	Phenol	
	Found-Spike A			987	↓	1.82	↓		
	Found-Spike B			1002	↓	2.16	↓		
	Blank			3.6	↓	<.1	↓		

EJ 7/11/96

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	pH ✓	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM) ✓	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/12	7/12	7.8	1.8	7/17	LO.1	7/15/96	TOC	Settled Eff 7/12
Inter A	↓	↓	7.3	3.0	↓	LO.1	↓	Phenol 19-1848	30ppm TSS
GS Feed	↓	↓	7.1	10.4	↓	LO.1	↓	pH 19-1801	Phenol instr broken
SSL Feed	↓	↓	7.3	46.5	↓	12.10	↓		QC done on NP 7/11
QA	Daily Comp Dup			1.2	↓	LO.1	↓	TOC	for phenol
	Spiked With							Phenol	
	Found-Spike A								TOC QC done on NP 7/17
	Found-Spike B								
	Blank								

EJ 7/18/96

ID:

AUG 06'96 10:50 No.003 P.14

HYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/15/96	7/15/96	7.9	3.1	7/15/96	0.19	7/15/96	TOC 19-1816
Inter	↓	↓	7.3	4.8	↓	<0.1	↓	Phenol 19-1847
GB Feed	↓	↓	7.5	10.8	↓	<0.1	↓	pH 19-1802
BB Feed	↓	↓	7.3	61.4	↓	14.28	↓	
QA	Daily Comp Dup			2.2	↓	<0.1	↓	TOC
	Spiked With			/	↓	/	↓	Phenol
	Feed-Spike A			/	↓	/	↓	
	Feed-Spike B			/	↓	/	↓	
	Blank			1.6	↓	<0.1	↓	

ANALYST 8J

AND COMMENTS

QA done on NP 7/14 run on 7/15

Settler eff TSS 124 ppm

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/13	7/14	7.8	1.9	7/16	<.1	7/16	TOC 19-1817
Inter A	↓	↓	7.5	4.1	↓	<.1	↓	Phenol 19-1830
GB Feed	↓	↓	7.4	8.6	↓	0.12	↓	pH 19-1804
BB Feed	↓	↓	7.2	59.3	↓	13.9	↓	
QA	Daily Comp Dup			1.7	↓	<.1	↓	TOC
	Spiked With			/	/	/	/	Phenol
	Feed-Spike A			/	/	/	/	
	Feed-Spike B			/	/	/	/	
	Blank			/	/	/	/	

ANALYST JR

AND COMMENTS

QA done on AP 7/16

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/14	7/14	7.8	2.2	7/16	<.1	7/16	TOC 19-1818
Inter A			7.5	4.1		<.1		Phenol 19-1850
GAC Feed			7.1	3.7		0.14		pH 19-1804
RBC Feed			7.2	53.1		12.6		
QA	Daily Comp Dup			1.6		<.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST
AND COMMENTS

BC done on CC. 7/16
(will recheck DUP)

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/15	7/16	7.8	2.1	7/16	<.1	7/16	TOC 19-1817
Inter A			7.4	4.1		<.1		Phenol 19-1850
GAC Feed			7.4	11.1		<.1		pH 19-1803
RBC Feed			7.2	75.8		17.4		
QA	Daily Comp Dup			1.5		<.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			1007		1.97		
	Found-Spike B			984		2.00		
	Blank			1.0		<.1		

ANALYST
AND COMMENTS

Settled @ 7/16
TSS = 140ppm

HYDE PARK GALOON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/17	7/17	7.9	2.2	7/17	<.1	7/17	TOC 19-1812
Intec A			7.3	3.4		<.1		Phenol 19-1857
Oil Pond			7.7	8.8		0.15		pH 19-1805
SBR Pond			7.3	43.5		9.9		
QA	Daily Comp Dup			1.7		<.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

QC done on NP 7/17

TSS Settled Eff 7/17

159 ppm

7/18/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/18	7/18	7.8	2.3	7/18	<.1	7/18	TOC 19-1810
Intec A			7.3	3.7		<.1		Phenol 19-1852
Oil Pond			7.5	11.4		<.1		pH 19-1806
SBR Pond			7.2	48.3		10.5		
QA	Daily Comp Dup			1.6		<.1		TOC
	Spiked With			1000		20		Phenol
	Found-Sp'ke A			1004		2.02		
	Found-Spike B			1011		1.95		
	Blank			2.5		<.1		

ANALYST

AND COMMENTS

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/19/96	7/19/96	7.8	3.3	7/19/96	< .1	7/19/96	TOC 19-1821
Inter			7.6	4.4		< .1		Phenol 19-1853
CB Feed			7.5	9.9		< .1		pH 19-1808
SBR Feed			7.5	69.2		16.0		
QA	Daily Comp Dup			2.0		< .1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike 1			968.4		2.00		
	Found-Spike 2			977.2		2.05		
	Blank			2.9		< .1		

JR/ESA ANALYST AND COMMENTS

Settling Eff 149 mm 7/19/96

E 7/19/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/20/96	7/22/96	8.1	2.0	7/22/96	<0.1	7/22/96	TOC 19-1822
Inter	↓	↓	7.6	5.0		<0.1		Phenol 19-1854
CB Feed	↓	↓	7.4	11.7		<0.1		pH 19-1810
SBR Feed	No	Sample	—	—	—	—	—	
QA	Daily Comp Dup			2.2		<0.1		TOC
	Spiked With			/		/		Phenol
	Found-Spike 1			/		/		
	Found-Spike 2			/		/		
	Blank							

ANALYST E

AND COMMENTS

QA done on NP 7/21/96

- NO SAMPLE DUE TO PROCESS UPSETS

(JKW)

HYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7-21-96	7/21	7.7	4.0	7/23	<.1	7/22	19-1824	
Inlet			7.5	4.4		<.1		Mezzi 19-1851	
GB Prod			7.3	12.2		<.1		pH 19-1811	
ISR Prod			7.1	220.2		56.5			
QA	Daily Comp Dup			3.7		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			1004		1.96			
	Found-Spike B			1000		2.00			
	Blank			2.5		<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/23	7/23	7.7	3.4	7/23	<.1	7/23	TOC	QC above (7/23)
Inlet A			7.1	11.1		0.97		Mezzi 19-1852	
GB Prod			7.1	27.1		2.76		pH	
ISR Prod			7.2	252.0		84.5			
QA	Daily Comp Dup			1.8		<.1		TOC	
	Spiked With							Mezzi	
	Found-Spike A								
	Found-Spike B								
	Blank								

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/22/96	7/22/96	7.8	1.6	7/22/96	<0.1	7/22/96	TOC 19-1823
Inter	↓	↓	7.2	6.0	↓	<0.1	↓	Phenol 19-1855
CS Feed	↓	↓	7.1	14.7	↓	<0.1	↓	pH 19-1809
SH Feed	↓	↓	7.1	277.1	↓	99.2	↓	
QA	Daily Comp Dup			1.6	↓	<0.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			944.4	↓	2.22	↓	
	Found-Spike B			973.2	↓	2.03	↓	
	Blank			1.5	↓	<0.1	↓	

ANALYST E 7/23/96 E

AND COMMENTS

Settler eff bypass

TSS ppm

problem with process - do not run TSS as per J WNUKOWSKI 7/23/96 E

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/24/96	7/24/96	7.8	2.4	7/24/96	<0.1	7/24/96	TOC 19-1826
Inter	↓	↓	7.2	8.1	↓	<0.1	↓	Phenol 19-1856
CS Feed	↓	↓	7.5	21.7	↓	0.77	↓	pH 19-1813
SH Feed	↓	↓	7.1	187.8	↓	76.7	↓	
QA	Daily Comp Dup			1.7	↓	<0.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			1009.2	↓	2.11	↓	
	Found-Spike B			1002.8	↓	2.09	↓	
	Blank			3.3	↓	<0.1	↓	

ANALYST JR

AND COMMENTS

ID:

AUG 06'96 10:46 No.003 P.08

HYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	pH ✓	TOC (PPM) ✓	TOC ANALYSIS DATE	PHENOL (PPM) ✓	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/25	7/25	8.1	2.1	7/25	<.1	7/25	TOC 19-1827
Inter B	↓	↓	7.5	19.0	↓	0.32	↓	Phenol 19-1859
Oil Feed	↓	↓	7.5	19.4	↓	0.40	↓	pH 19-1814
SBR Feed	↓	↓	7.2	152.7	↓	50.0	↓	
QA	Daily Comp Dup			1.6	↓	<.1	↓	TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

QC on NP 7/24

NB.
Could not run Settler Eff
(NAPL present)

7/25/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	7/26	7/26	8.0	2.8	7/26	<.1	7/26	TOC 19-1828
Inter B	↓	↓	7.5	3.2	↓	<.1	↓	Phenol 19-1860
Oil Feed	↓	↓	7.6	19.3	↓	0.37	↓	pH 19-1815
SBR Feed	↓	↓	7.4	151.9	↓	57.6	↓	
QA	Daily Comp Dup			1.1	↓	<.1	↓	TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			984		2.29		
	Found-Spike B			984		2.12		
	Blank			2.1	↓	<.1	↓	

ANALYST

AND COMMENTS

Settler Eff 7/26
28 ppm TSS

HYDE PARK GAIGON UNIT - DAILY ANALYSIS SUMMARY -- Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/27	7/28	8.1	1.8	7/29	<.1	7/29	TOC 19-1830	QC on 1HP 7/29
Inter B			7.6	1.7		<.1		Phenol 19-1862	
SE Pond			7.8	18.5		0.28		pH 19-1816	
SW Pond			7.3	87.2		19.9			
QA	Daily Comp Dup			1.9		<.1		TOC	
	Spiked With							Phenol	
	Pond-Spike A								
	Pond-Spike B								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/29	7/29	7.8	1.2	7/29	<.1	7/29	TOC 19-1830	
Inter C			7.7	1.6		<.1		Phenol 19-1862	
SE Pond			7.4	17.2		0.15		pH 19-1817	
SW Pond			7.2	57.6		14.5			
QA	Daily Comp Dup			1.2		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Pond-Spike A			1008		2.01			
	Pond-Spike B			1002		1.97			
	Blank			2.5		<.1			

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPB)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/28	7/28	8.0	1.6	7/30	<.1	7/30	TOC 19-1831	
Inter (3)			7.5	1.5		<.1		Phenol 19-1863	
GB Feed			7.8	16.9		0.29		pH 19-1818	
SBR Feed			7.3	100.0		29.3			
QA	Daily Comp Dup			1.2		<.1		TOC	
	Spiked Milli			1000		2.00		Phenol	
	Found-Spike A			982		1.97			
	Found-Spike B			957		1.96			
	Blank			1.7		<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPB)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/30	7/30	8.6	1.6	7/30	<.1	7/30	TOC 19-1831	QC above Settler Eff 7/30 16ppm TSS
Inter C			7.3	1.2		<.1		Phenol 19-1863	
GB Feed			7.2	22.9		<.1		pH 19-1818	
SBR Feed			7.3	55.5		13.4			
QA	Daily Comp Dup			1.3		<.1		TOC	
	Spiked Milli							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SEP 04 '96 07:19 NO.002 P.21

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	7/31	7/31	7.8	1.6	7/31	<.1	7/31	TOC 19-1832	Settled Eff 8631
Inter B			7.3	1.3		<.1		Phenol 19-1864	16 ppm TSS
GB Feed			7.5	12.0		0.32		pH 19-1819	
BBL Feed			7.5	45.1		13.0			
QA	Daily Comp Dup			1.1		<.1		TOC	
	Spiked Milli			1000		2.00		Phenol	
	Found-Spike A			968		2.07			
	Found-Spike B			974		2.08			
	Blank			2.2		<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8/1/96	8/1	7.5	1.5	8/1	<.1	8/1	TOC 19-1832A	Settled Eff 81
Inter			7.4	1.1		<.1		Phenol 19-1865	61 ppm TSS
GB Feed			7.3	17.7		<.1		pH 19-1820	
BBL Feed			7.3	86.4		26.3			
QA	Daily Comp Dup			1.3		<.1		TOC	
	Spiked Milli			1000		2.00		Phenol	
	Found-Spike A			938		1.98			
	Found-Spike B			954		2.07			
	Blank			2.1		<.1			

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8/2	8/2	7.9	2.2	8/2	<.1	8/2	TOC 19-1832B
Inter B	↓	↓	7.5	1.3	↓	<.1	↓	Phenol 19-1866
GB Feed			7.5	12.8		0.29		pH 19-1821
HWL Feed	↓	↓	7.3	515		12.9		
QA	Daily Comp Dup			1.2	↓	<.1	↓	TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST JK

AND COMMENTS

QC done on HP 8/1

Settled Eff 8/2

3 ppm TSS

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8/3	8/4	8.0	2.2	8/5 JW	<.1	8/5	TOC 19-1834
Inter B			7.7	1.5		<.1		Phenol 19-1868
GB Feed			8.0	11.8		0.20		pH 19-1822
HWL Feed	↓	↓	7.3	97.8		24.2		
QA	Daily Comp Dup			2.7		<.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			970.0		1.97		
	Found-Spike B			983.6		1.87		
	Blank			2.5		<.1	↓	

ANALYST JK

AND COMMENTS

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8/4	8/4	8.0	2.5	8-5-96	<.1	8/4	TOC 19-1834	QC on HP 8/4
Inter A			7.6	1.5		<.1		Phenol 19-1867	TOC QC done on 8/2/96 Hyde Park
GS Feed			7.9	17.1		<.1		pH 19-1822	
SBR Feed			7.7	65.7		15.4			
QA	Daily Comp Dup			2.4		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8/5	8/5	8.0	2.0	8/5/96	<.1	8/4	TOC 19-1833	QC done on HP 8/3
Inter B			7.5	2.9		<1		Phenol 19-1867	Settled 8/5 288ppm TSS
GS Feed			7.6	11.9		0.19		pH 19-1823	
SBR Feed			7.5	32.1		7.82			
QA	Daily Comp Dup			8.1		<.1		TOC	
	Spiked With			1000				Phenol	
	Found-Spike A			967.2					
	Found-Spike B			968.0					
	Blank			3.1					

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete JK SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8/5	8/6	7.9	2.2	8/6	<.1	8/6/96	TOC 19-1834A
Intake 3	↓	↓	7.4	1.5	↓	<.1	↓ SK	Phenol 19-1869
Cl Feed	↓	↓	7.6	9.5	↓	0.17	↓	pH 19-1824
SBR Feed	↓	↓	8.6	61.0	↓	13.6	↓	
QA	Daily Comp Dup			1.5	↓	<.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			920	↓	1.92	↓	
	Found-Spike B			950	↓	1.96	↓	
	Blank			3.5	↓	<.1	↓	

ANALYST JK

AND COMMENTS

Settled Eff 8/6/96
665ppm TSS

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8/7	8/7	8.0	2.2	8/7	<.1	8/7	TOC 19-1835
Intake 3	↓	↓	7.4	2.2	↓	<.1	↓	Phenol 19-1870
Cl Feed	↓	↓	7.4	9.2	↓	<.1	↓	pH 19-1825
SBR Feed	↓	↓	7.3	58.6	↓	13.6	↓	
QA	Daily Comp Dup			2.0	↓	<.1	↓	TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST JK

AND COMMENTS

QC done on LC 8/7
Settled Eff 8/7
194 ppm TSS

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-8-96	8-8-96	7.9	1.8	8-8-96	.14	8-8-96	TOC 19-1836	Settler Eff 8/8/96
Influx			7.5	1.4		<.1		Phenol 19-1871	TSS = 60ppm
GI Feed			7.5	10.8		<.1		pH 19-1826	
SBR Feed			7.4	51.5		10.8			
QA	Daily Comp Dup			1.2		.18		TOC	
	Spiked With			1000		2.00		Phenol	
	Feed-Spike A			962.8		1.85			
	Feed-Spike B			951.6		2.00			
	Blank			1.3		<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8/9	8/9	7.9	1.5	8/9	<.1	8/9	TOC 19-1837	QC done on WP 8/8
Influx	↓	↓	7.3	1.3	↓	<.1	↓	Phenol 19-1872	Settler Eff 8/9
GI Feed			7.6	12.1		0.38		pH 19-1827	124 ppm TSS
SBR Feed			7.3	68.2		14.4			
QA	Daily Comp Dup			1.2		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Feed-Spike A					2.31			
	Feed-Spike B					2.08			
	Blank					<.1			

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Bulk Comp	8-10-96	8-12-96	7.9	2.2	8-12	<1	8-12-96	TOC 19-1838
Influx			7.5	10.1		<1		Phenol 19-1873
GB Feed			7.5	1.6		<1		pH 19-1828
SBR Feed			7.3	41.0		79		
QA	Bulk Comp Dup			1.1		<1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank					<0.1		

ANALYST NP

AND COMMENTS

QA done on
NP 8/9/96
HP + 8/11/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Bulk Comp	8-17-96	8-19-96	7.9	2.5	8/12	<1	8-12-96	TOC 19-1839
Influx			7.5	1.7		<1		Phenol 19-1874
GB Feed			7.6	8.9		0.29		pH 19-1828
SBR Feed			7.3	35.3		5.52		
QA	Bulk Comp Dup			1.1		<1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			962		1.96		
	Found-Spike B			946		1.98		
	Blank			2.0		<1		

ANALYST NP

AND COMMENTS

Settled Eff
TSS - 41 ppm

ID:

HYDE PARK CAISSON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-12-96	8-12-96	8.0	1.3	8/12	<.1	8/12	TOC 19-1839	QA done on NP 8/9/96 HP 8/11/96
Inter			7.7	1.6		0.10		Phenol 19-1874	
CH Feed			7.6	9.5		0.23		pH 19-1829	
SBR Feed			7.4	44.9		10.3			
QA	Daily Comp Dup			1.2		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank					<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-13-96	8-13-96	8.0	2.0	8-13-96	<.10	8-13-96	TOC 19-1840	Settles off TSS 27ppm GA done on NP 8/12/96 LC 8/13/96
Inter			7.6	1.7		.47		Phenol 19-1875	
CH Feed			7.3	9.9		<.10		pH 19-1830	
SBR Feed			7.4	42.5		12.4			
QA	Daily Comp Dup			1.7		<.10		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank					<.10			

DE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-14-96	8-14-96	8.0	1.5	8-14-96	<.1	8-14-96	TOC 19-1841	Settled off
Influx			7.6	1.2		<.1		Phenol 19-1826	TSS - 27 ppm
GB Feed			7.6	9.5		0.23		pH 19-1831	
SBR Feed			7.4	41.2		12.2			
QA	Daily Comp Dup			1.3		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			932		2.15			
	Found-Spike B			964		2.20			
	Blank			2.6		<.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-15-96	8-15-96	8.1	2.0	8-15-96	<0.10	8-15-96	TOC 19-1842	Settled off
Influx			7.8	2.1		0.17		Phenol 19-1827	TSS - 63 ppm
GB Feed			7.5	10.2		1.33		pH 19-1832	QA, QC done on Aug 8/14/96
SBR Feed			7.5	49.6		20.43			
QA	Daily Comp Dup			2.0		<0.10		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank					<0.16			

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-16-96	8-16-96	8.1	2.7	8-16-96	<0.10	8-16-96	TOC 19-843
Inter			7.6	1.6		<0.10		Phenol 19-[illegible]
CB Feed			7.4	8.6		<0.10		pH 19-833
SBR Feed			7.4	58.3		17.0		
QA	Daily Comp Dup			1.7		<0.10		TOC
	Spiked With			1000		2.06		Phenol
	Found-Spike A			934.0		2.20		
	Found-Spike B			939.6		2.05		
	Blank			1.2		<0.10		

ANALYST DM
AND COMMENTS
Bottles off 11pp TSS
EJ 8/16/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-17-96	8-19-96	8.1	1.9	8-19-96	<0.1	8-19-96	TOC 19-844
Inter			7.9	1.5		<0.1		Phenol 19-879
CB Feed			8.0	9.5		<0.1		pH 19-834
SBR Feed			7.4	43.4		8.7		
QA	Daily Comp Dup			1.7		<0.1		TOC
	Spiked With			/		/		Phenol
	Found-Spike A							
	Found-Spike B							
	Blank			/		/		

ANALYST [illegible]
AND COMMENTS
QA+QC done on HP 8/18

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8/18/96	8/19/96	8.2	1.8	8-19-96	<0.1	8-19-96	TOC 19-844	
Inter			7.7	2.0		<0.1		Phenol 19-879	
CB Feed			7.4	12.9		<0.1		pH 19-834	
HM Feed			7.4	45.5		9.7			
QA	Daily Comp Dup			1.4		<0.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			969.2		1.88			
	Found-Spike B			1002.4		1.86			
	Blank			2.3		<0.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-19-96	8-19-96	8.0	2.1	8-19-96	<0.1	8-19-96	TOC 19-845	Settled eff
Inter			7.7	1.9		<0.1		Phenol 19-880	TSS = 653 ppm
CB Feed			8.0	10.3		<0.1		pH 19-835	GA, QC done
HM Feed			7.3	48.4		9.3			on 8/18
QA	Daily Comp Dup			1.6		<0.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SEP 04'96 7:09 NO.002 P.02

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-20-96	8-20-96	8.0	1.68	8-20-96	<0.1	8-20-96	TOC 19-1846	Settles off 133ppm TSS
Inter			7.6	1.66		<0.1		Phenol 19-1881	
GB Feed			7.5	17.33		.11		pH 19-1836	
HR Feed			7.4	43.31		7.62			
QA	Daily Comp Dup			1.67		<0.1		TOC	
	Spiked With			100.0		2.08		Phenol	
	Found-Spike A			96.5.6		1.86			
	Found-Spike B			957.6		1.74			
	Blank			1.74		<.10			

EJ 8/20/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	8-21-96	8-21-96	8.1	2.9	8-21-96	<0.1	8-21-96	TOC 19-1847	Settles off 65ppm TSS
Inter			7.5	3.1		<0.1		Phenol 19-1882	
GB Feed			7.7	11.2		<0.1		pH 19-1837	
HR Feed			7.4	70.2		13.8			
QA	Daily Comp Dup			3.0		<0.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

QA, QC done on HP 8/20

SEP 04 '96 7:09 NO.002 P.06

TO:

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete

SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-22-96	8-22-96	8.0	5.5	8-22-96	0.10	8-22-96	TOC 19-1898
Influx			7.5	5.6		0.10		Phenol 19-1883
GS Feed			7.4	17.2		0.10		pH 19-1858
SHR Feed			7.3	45.6		10.3		
QA	Daily Comp Dup			5.3		0.10		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			900		1.83		
	Found-Spike B			930		1.96		
	Blank			6.4		<0.10		

ANALYST AND COMMENTS: Settleoff - 78ppm TSS

8/22/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-23-96	8-23-96	8.1	1.2	8-27-96	<0.1	8-23-96	TOC 19-1851
Influx			7.6	1.5		0.8		Phenol 19-1884
GS Feed			8.0	9.3		<0.1		pH 19-1839
SHR Feed			7.4	35.4		19.2		
QA	Daily Comp Dup			1.4		<0.1		TOC
	Spiked With			1000				Phenol
	Found-Spike A			968.0				
	Found-Spike B			953.2				
	Blank			2.6				

ANALYST AND COMMENTS: QA, QC done on NP 8/22

Settleoff 22ppm

E PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
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SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-24-96	8-26-96	8.1	2.1	8-28-96	<0.1	8-26-96	TOC 19-1853
Influx			7.5	1.3		<0.1		Phenol 19-1885
C1 Feed			7.8	8.3		.15		pH 19-1840
SBR Feed			7.4	46.7		11.66		
QA	Daily Comp Dup			1.4		<0.1		TOC
	Spiked With			/		2.00		Phenol
	Found-Spike A			/		1.94		
	Found-Spike B			/		1.80		
	Blank			/		<0.10		

ANALYST AH
AND COMMENTS
QA+QC done on HP 8/28

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-25-96	8-26-96	8.1	2.3	8-27-96	0.1	8-26-96	TOC 19-1852
Influx			7.7	2.5		<0.1		Phenol 19-1885
C1 Feed			8.2	9.2		.12		pH 19
SBR Feed			7.5	43.9		14.46		
QA	Daily Comp Dup			2.5		<0.1		TOC
	Spiked With			/		/		Phenol
	Found-Spike A			/		/		
	Found-Spike B			/		/		
	Blank			/		/		

ANALYST AH
AND COMMENTS
QA/QC on HP 8/24 + NP 8/25

Revised report note TOC 8/25/96

HYDE PARK FALCON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-26-96	8-26-96	8.3	1.8	8-28-96	<0.1	8-26-96	TOC 19-1854
Intac			8.1	1.6		<0.1		Phenol 19-1886
SB Feed			8.4	8.5		<0.1		pH 19-184
SBE Feed			7.6	43.3		12.09		
QA	Daily Comp Dup			1.3		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			985.6		1.95		
	Found-Spike B			996.4		1.99		
	Blank			3.9		<0.1		

ANALYST SH
AND COMMENTS
Settle off - 24ppm TOC Solids

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-27-96	8-27-96	8.1	3.2	8-27-96	<0.10	8-27-96	TOC 19-1850
Intac			7.7	1.4		0.10		Phenol 19-1857
SB Feed			7.8	7.9		<0.10		pH 19-1842
SBE Feed			7.4	72.3		20.57		
QA	Daily Comp Dup			1.5		<0.10		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			980.4		1.99		
	Found-Spike B			990.8		2.15		
	Blank			0.9		<0.10		

ANALYST SH
AND COMMENTS
Settle off - 15ppm
D.C. 199-08 of 8/26
0.7ppm PhOS.

SEP 04'96 07:06 NO.002 P.03

HYDE PARK GALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-28-96	8-28-96	8.1	1.7	8-28-96	<0.1	8-28-96	TOC 19-853
Inter			7.7	1.7		<0.1		Phenol 19-888
CB Feed			7.6	10.5		<0.1		pH 19-843
HHR Feed			7.3	81.0		20.7		
QA	Daily Comp Dup			1.6		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			983.6		1.86		
	Found-Spike B			984.4		1.93		
	Blank			<1.3		<0.1		

ANALYST DF
AND COMMENTS: Settler eff - 86 ppm TSS

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-29-96	8-29-96	8.1	2.4	8-29-96	<0.10	8-29-96	TOC 19-855
Inter			8.0	1.9		<0.10		Phenol 19-889
CB Feed			7.4	13.8		<0.10		pH 19-844
HHR Feed			7.8	69.1		16.2		
QA	Daily Comp Dup			1.8		<0.10		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST DF
AND COMMENTS: Settler eff - 9 ppm TSS
QA/QC done on 8/28

E PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-30-96	8-30-96	8.2	3.0	8-30-96	<0.1	8-30-96	TOC 19-1856
Inter			7.8	2.0		<0.1		Phenol 19-1870
CB Feed			8.1	9.7		<0.1		pH 19-1845
SBR Feed			7.4	80.1		17.6		
QA	Daily Comp Dup			2.0		<0.1		TOC
	Spiked With					2.00		Phenol
	Found-Spike A					1.66		
	Found-Spike B					1.88		
	Blank					<0.1		

ANALYST
AND COMMENTS
Settleroff = 35ppm TSS
QAQC done on NP 8/29

8/30/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	8-31-96	9-1-96	8.2	3.0	9-3-96	<0.1	9-3-96	TOC 19-1857
Inter			7.6	2.5		<0.1		Phenol 19-1891
CB Feed			7.8	12.8		.2		pH 19-1846
SBR Feed			7.4	52.2		14.0		
QA	Daily Comp Dup			2.1		<0.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST
AND COMMENTS
QA, QC done on NP 9/1/96

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-1-96	9-3-96	8.2	3.5	9-3-96	<0.1	9-3-96	TOC 19-1857
Inter			7.8	2.2		<0.1		Phenol 19-1891
CB Feed			8.1	9.7		<0.1		pH 19-1846
SBR Feed			7.5	46.1		9.0		
QA	Daily Comp Dup			2.1		<0.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST AND COMMENTS: QA QC done on HP 9/2

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-2-96	9-3-96	8.0	1.9	9-3-96	<0.1	9-3-96	TOC 19-1858
Inter			7.5	1.4		<0.1		Phenol 19-1892
CB Feed			7.8	9.7		<0.1		pH 19-1847
SBR Feed			7.4	33.5		6.6		
QA	Daily Comp Dup			1.4		<0.1		TOC
	Spiked With			1006		2.0		Phenol
	Found-Spike A			967.2		1.41		
	Found-Spike B			992		1.38		
	Blank			1.2		<0.1		

ANALYST AND COMMENTS:

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-4-96	9-4-96	8.0	3.0	9-4-96	<0.1	9-4-96	TOC 19-1859
Later			7.6	2.0		<0.1		Phenol 19-1893
CB Feed			7.6	8.8		<0.1		pH 19-1848
SBR Feed			7.5	33.8		7.8		
QA	Daily Comp Dup			2.4		<0.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

Settles Eff - 123 ppm TSS
QA QC done on 9/4

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-5-96	9-5-96	8.0	6.2	9-5-96	<0.1	9-5-96	TOC 19-1860
Later			7.8	4.3		<0.1		Phenol 19-1894
CB Feed			7.9	12.7		<0.1		pH 19-1849
SBR Feed			7.5	36.3		7.7		
QA	Daily Comp Dup			5.5		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			973.6		1.65		
	Found-Spike B			1045.6		1.85		
	Blank			4.1		<0.1		

ANALYST

AND COMMENTS

Settles eff - 54 ppm TSS

PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

mplete AMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-6-96	9-6-96	8.1	2.4	9/6	<0.1	9-6-96	TOC 19-1861
Inter			7.8	1.3		<0.1		Phenol 19-1895
CR Feed			7.9	8.7		<0.1		pH 19-1850
SBR Feed			7.4	38.3		9.22		
QA	Daily Comp Dup			1.4		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			992		1.80		
	Found-Spike B			988		1.85		
	Blank			5.3	↓	<0.1		

Settlen eff = 21 ppm TSS

ANALYST

AND COMMENTS

EJ 9/9/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-9-96	9/9	8.1	2.8	9/9	<.1	9/9	TOC 19-1862
Inter			7.7	1.4		<.1		Phenol 19-1896
CR Feed			7.7	7.0		<.1		pH 19.1857
SBR Feed			7.2	24.0		2.08		
QA	Daily Comp Dup			1.3		<.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			1012		2.07		
	Found-Spike B			1002		2.20		
	Blank			1.1	↓	<.1	↓	

ANALYST

AND COMMENTS

PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

MPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
ly Comp	9/7	9/8	8.1	2.4	9/10	<.1	9/10	TOC 19-1864	
ater			8.0	1.4		<.1		Phenol 19-1898	
Feed			7.7	7.5		<.1		pH 19-1853	
Feed			7.4	56.2		19.6			
QA	Daily Comp Dup			1.3		<.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			972		2.34			
	Found-Spike B			1018		2.34			
	Blank			7.2		<.1			

AMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
ily Comp	9/8	9/8	8.2	3.5	9/10	<.1	9/10	TOC 19-1865	QC above
later			7.9	1.9		<.1		Phenol 19-1898	
B Feed			7.4	9.8		<.1		pH 19-1853	
BR Feed			7.2	38.8		11.8			
QA	Daily Comp Dup			2.1		<.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

AMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
ly Comp	9/10	9/10	8.1	1.4	9/10	<.1	9/10	TOC 19-1865	QC done on NP 9/9
nter	↓	↓	7.6	39.6	↓	<.1	↓	Phenol 19-1898	TSS-Settled Eff 779 ppm
B Feed	↓	↓	7.2	49.5	↓	<.1	↓	pH 19-1854	
H Feed	↓	↓	7.2	63.8	↓	5.2	↓		
QA	Daily Comp Dup			1.1	↓	<.1	↓	TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

AMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
ily Comp								TOC	
Inter								Phenol	
CB Feed								pH	
HH Feed									
QA	Daily Comp Dup							TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/11 *	9/11	7.9	4.6	9/11	<.1	9/11	TOC 19-1866
Inter			7.6	1.8		<.1		Phenol 19-1901
CB Feed			7.4	8.9		<.1		pH 19-1855
HHK Feed			7.1	52.2		11.9		
QA	Daily Comp Dup			2.0		<.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

Settled Eff 9/11 6.39 ppm / 155

Qd done on NP 9/10 spls

* Spls labelled 9/14

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/12 **	9/12	8.1	2.3	9/12	<.1	9/12	TOC 19-1867
Inter			7.4	1.8		<.1		Phenol 20-1901
CB Feed			7.5	7.7		<.1		pH 19-1852
HHK Feed			7.2	56.8		15.7		
QA	Daily Comp Dup			1.2		<.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			948		1.92		
	Found-Spike B			954		1.81		
	Blank			4.5		<.1		

ANALYST

AND COMMENTS

** Spls labelled 9/15

HYDE PARK CALGON UNIT - DAI[illegible] ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/13	9/13	8.0	1.7	9/13	< .1	9/13	TOC A-1868
Inter			7.3	1.2		< .1		Phenol 20-1902
CB Feed			7.3	3.7		< .1		pH 19-1837
SBR Feed			7.4	66.9		17.3		
QA	Daily Comp Dup			1.4		< .1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

QC done on NP 9/12

Settle Eff ppm TSS

9/12 = 222

9/13 = 321

9/16/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/14/96	9/14/96	8.1	1.8	9/14/96	<0.1	9/14/96	TOC 19-1870
Inter			7.4	1.3		<0.1		Phenol 20-1904
CB Feed			7.4	8.4		<0.1		pH 19-1859
SBR Feed			7.3	45.9		10.5		
QA	Daily Comp Dup			1.3		<0.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

QA+QC done on NP 9/15/96

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9/15/96	9/16/96	7.8	2.1	9-17-96	<0.1	9/17/96	TOC 19-187	
Inter			7.4	1.2		<0.1		Phenol 26-90	
CB Feed			7.3	7.0		<0.1		pH 19-1860	
SBR Feed			7.4	43.3		7.5			
QA	Daily Comp Dup			1.0		<0.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			972.6		1.83			
	Found-Spike B			984.4		1.84			
	Blank			2.9		<0.1			

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9/14/96	9/14/96	7.9	1.8	9/16/96	<0.1	9/14/96	TOC 19-1869	QA+QC on AP 9/1 Settled off TSS=46
Inter			7.3	1.2		<0.1		Phenol 10-196	
CB Feed			7.3	7.1		<0.1		pH 19-1858	
SBR Feed			7.4	40.8		9.8			
QA	Daily Comp Dup			1.1		<0.1		TOC	
	Spiked With			1000				Phenol	
	Found-Spike A			995.2					
	Found-Spike B			1008.8					
	Blank			0.1					

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/17/96	9/17/96	7.9	7.3	9/17/96	<0.1	9/17/96	TOC 19-187.1
Inter			7.3	7.4		<0.1		Phenol 20-1906
CB Feed			7.5	14.1		<0.1		pH 19-860
HBR Feed			7.4	43.1		8.6		
QA	Daily Comp Dup			7.0		<0.1		TOC
	Spiked With					2.00		Phenol
	Found-Spike A					1.52		
	Found-Spike B					1.43		
	Blank					<0.1		

ANALYST

AND COMMENTS

Settleoff = 98 TS
QA+QA Comp NP 9/17
Decanter 1 pH 7.1
2 7.1
3 5.0

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/18/96	9/18/96	7.6	4.5	9/18/96	<0.1	9/18/96	TOC 19-1872
Inter			7.3	3.8		<0.1		Phenol 20-1907
CB Feed			7.5	11.1		.1		pH 19-861
HBR Feed			7.6	52.6		11.6		
QA	Daily Comp Dup			3.4		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			950.0		1.68		
	Found-Spike B			944.4		1.70		
	Blank			3.2		<0.1		

ANALYST

AND COMMENTS

Settleoff = 29 TS

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	✓ pH	✓ TOC (PPM)	TOC ANALYSIS DATE	✓ PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/19/96	9/19/96	7.9	2.7	9/19/96	<0.1	9/19/96	TOC 19-1873
Inter			7.0	3.3		<0.1		Phenol 20-198
CB Feed			7.4	7.6		<0.1		pH 19-182
SBR Feed			7.4	51.1		10.3		
QA	Daily Comp Dup			2.8		<0.1		TOC
	Spiked With			/		/		Phenol
	Found-Spike A							
	Found-Spike B							
	Blank			/		/		

ANALYST AND COMMENTS

QA+QC on NP 9/18
Settler eff = 105 ppm TSS

9/19/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/20/96	9/20/96	8.0	1.8	9/20/96	<0.1	9/20/96	TOC 19-1874
Inter			7.4	1.4		<0.1		Phenol 20-199
CB Feed			7.3	10.1		<0.1		pH 19-183
SBR Feed			7.5	40.6		6.82		
QA	Daily Comp Dup			1.3		<0.1		TOC
	Spiked With			/		/	/	Phenol
	Found-Spike A							
	Found-Spike B			/		/	/	

ANALYST AND COMMENTS

GA QC done on NP 9
Settler eff = 9 ppm TSS

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments. Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/21	9/22	7.8	2.0	9/22	<.1	9/22	TOC 19-1875
Inter	↓	↓	7.4	1.1	↓	<.1	↓	Phenol 20-1910
CB Feed	↓	↓	7.3	9.6	↓	<.1	↓	pH 19.1864
SBR Feed	↓	↓	7.4	28.5	↓	4.6	↓	
QA	Daily Comp Dup			1.0	↓	<.1	↓	TOC
	Spiked With			1000	↓	2.00	↓	Phenol
	Found-Spike A			964	↓	1.85	↓	
	Found-Spike B			962	↓	1.81	↓	
	Blank			5.7	↓	<.1	↓	

ANALYST

AND COMMENTS

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9/22	9/22	7.9	1.3	9/22	<.1	9/22	TOC 19-1875
Inter	↓	↓	7.4	1.6	↓	<.1	↓	Phenol 20-1910
CB Feed	↓	↓	7.7	8.3	↓	<.1	↓	pH 19.864
SBR Feed	↓	↓	7.4	25.7	↓	3.6	↓	
QA	Daily Comp Dup			1.5	↓	<.1	↓	TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST

AND COMMENTS

QC above

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

Complete SAMPLE	DATE SAMPLED	DATE IN LAB	pH ✓	TOC (PPM) ✓	TOC ANALYSIS DATE	PHENOL (PPM) ✓	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-23-96	9-23-96	8.1	1.5	9-23-96	<0.1	9-23-96	TOC 19-1876
Inter			7.4	1.5		<0.1		Phenol 20-191
CR Feed			7.3	8.4		<0.1		pH 19-1865
SBR Feed			7.4	28.4		8.9		
QA	Daily Comp Dup			1.3		<0.1		TOC
	Spiked With			1000		2.00		Phenol
	Found-Spike A			987.2		1.49		
	Found-Spike B			1004.4		1.47		
	Blank			2.4		<0.1		

ANALYST AND COMMENTS
Settlr Eff = 30 ppm
EJ
9/23/96

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-24-96	9-24-96	8.0	1.8	9-24-96	<0.1	9-24-96	TOC 19-1877
Inter			7.1	1.7		<0.1		Phenol 20-192
CR Feed			7.5	8.9		<0.1		pH 19-1866
SBR Feed			7.4	28.2		3.6		
QA	Daily Comp Dup			1.3		<0.1		TOC
	Spiked With							Phenol
	Found-Spike A							
	Found-Spike B							
	Blank							

ANALYST AND COMMENTS
Settlr eff = 25 ppm
GAGC on LC 9/24

HYDE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9-25-96	9-26-96	8.0	1.6	9-25-96	<0.1	9/26/96	TOC 19-1878	Settler eff = 18 ppm TS
Inter			7.4	1.7		<0.1		Phenol 20-193	GAGE on NP 9/24
CB Feed			7.6	7.5		0.1		pH 19-1867	
HBK Feed			7.4	55.0		9.2			
QA	Daily Comp Dup			1.2		<0.1		TOC	
	Spiked With			/				Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9-26-96	9-26-96	8.0	1.6	9-26-96	<0.1	9/26/96	TOC 19-1879	Settler eff = 10 ppm
Inter			7.2	1.5		<0.1		Phenol 20-194	
CB Feed			7.4	8.3		<0.1		pH 19-1868	
HBK Feed			7.4	31.6		5.4			
QA	Daily Comp Dup			1.2		<0.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			955.2		1.64			
	Found-Spike B			956.4		1.66			
	Blank			1.1					

DE PARK CALGON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163

If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9-27-96	9-27-96	8.0	1.8	9-27-96	<0.1	9-27-96	TOC 19-1889	Setteln off. = 15ppm TSS
Inter			7.4	1.3		<0.1		Phenol 26-1914	QA+QC Lonion NP
CB Feed			7.5	7.3		<0.1		pH 19 1869	9/26
SBR Feed			7.4	33.1		4.8			
QA	Daily Comp Dup			1.3		<0.1		TOC	
	Spiked With							Phenol	
	Found-Spike A								
	Found-Spike B								
	Blank								

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #	ANALYST AND COMMENTS
Daily Comp	9-28-96	9-30-96	8.1	1.5	9-30-96	<0.1		TOC 19-1881	
Inter			7.6	1.5		0.1		Phenol 20-1916	
CB Feed			7.4	8.4		0.1		pH 19-1871	
SBR Feed			7.4	48.6		8.4			
QA	Daily Comp Dup			1.3		<0.1		TOC	
	Spiked With			1000		2.00		Phenol	
	Found-Spike A			1004		1.31			
	Found-Spike B			925.6		1.19			
	Blank			1.9		<0.1			

HYDE PARK CARBON UNIT - DAILY ANALYSIS SUMMARY - Niagara Plant Works Lab - Room 163
If batched with and QA performed on Niagara Plant samples, please note under Comments.
Also indicate date of Niagara Plant samples that Hyde Park samples were batched with.

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-29-96	9-30-96	8.0	1.4	9-30-96	<0.1	9-30-96	TOC 19-1882
Inter			7.5	1.6	"	<0.1	"	Phenol 20-196
CB Feed			7.7	8.7	"	<0.1	"	pH 19-1871
HHR Feed			7.5	77.9	"	10.8	"	
QA	Daily Comp Dup			1.2	"	<0.1	"	TOC
	Spiked With			/	"	/	"	Phenol
	Found-Spike A			/	"	/	"	
	Found-Spike B			/	"	/	"	
	Blank			/	"	/	"	

ANALYST
AND COMMENTS
QAQC demon WP 9/29

SAMPLE	DATE SAMPLED	DATE IN LAB	pH	TOC (PPM)	TOC ANALYSIS DATE	PHENOL (PPM)	PHENOL ANALYSIS DATE	BOOK & PAGE #
Daily Comp	9-30-96	9-30-96	8.0	1.8	9-30-96	<0.1	9-30-96	TOC 19-1881
Inter			7.3	2.2	"	<0.1	"	Phenol 20-195
CB Feed			7.3	12.5	"	<0.1	"	pH 19-1870
HHR Feed			7.5	53.5	"	12.1	"	
QA	Daily Comp Dup			1.6	"	<0.1	"	TOC
	Spiked With			/	"	/	"	Phenol
	Found-Spike A			/	"	/	"	
	Found-Spike B			/	"	/	"	

ANALYST
AND COMMENTS
Settler Eff- 84 ppm TSS
GAQC on WP 9/29+
WP 9/27

APPENDIX C-2

LEACHATE TREATMENT SYSTEM
WEEKLY EFFLUENT ANALYTICAL DATA

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
07/08/96 07/01/96 to 07/07/96

**** Extracted ****
07/08/96

**** Analyzed ****
07/09/96 to

****Date Reported****
08/21/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	20.3	19.8	102.5
PCE	ND1	24.2	21.0	115.2
2-MCBTF	ND1	22.2	20.6	107.8
3-MCBTF	ND1		-	
4-MCBTF	ND1	18.8	20.4	92.2
MCB	ND1	15.4	19.6	78.6
2-MCT	ND1	15.1	19.6	77.0
3-MCT	ND1	15.1	20.0	75.5
4-MCT	ND1	15.0	20.0	75.0

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	17.1	16.5	19.8	86.4	83.3	0.6
PCE	ND1	20.0	19.7	21.0	95.2	93.8	0.3
2-MCBTF	ND1	18.7	18.5	20.6	90.8	89.8	0.2
3-MCBTF	ND1			-			
4-MCBTF	ND1	15.4	15.4	20.4	75.5	75.5	0.0
MCB	ND1	13.6	13.5	19.6	69.4	68.9	0.1
2-MCT	ND1	13.4	13.3	19.6	68.4	67.9	0.1
3-MCT	ND1	13.5	13.4	20.0	67.5	67.0	0.1
4-MCT	ND1	13.4	13.4	20.0	67.0	67.0	0.0

Comments:

All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
07/15/96 07/08/96 to 07/14/96

**** Extracted ****
07/15/96

**** Analyzed ****
07/15/96 to

****Date Reported****
08/21/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	18.1	19.8	91.4
PCE	ND1	21.1	21.0	100.5
2-MCBTF	ND1	19.8	20.6	96.1
3-MCBTF	ND1		-	
4-MCBTF	ND1	18.2	20.4	89.2
MCB	ND1	19.5	19.6	99.5
2-MCT	ND1	18.8	19.6	95.9
3-MCT	ND1	20.1	20.0	100.5
4-MCT	ND1	18.8	20.0	94.0

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	15.8	15.6	19.8	79.8	78.8	0.2
PCE	ND1	17.7	17.4	21.0	84.3	82.9	0.3
2-MCBTF	ND1	17.0	16.7	20.6	82.5	81.1	0.3
3-MCBTF	ND1			-			
4-MCBTF	ND1	15.1	14.7	20.4	74.0	72.1	0.4
MCB	ND1	17.7	17.5	19.6	90.3	89.3	0.2
2-MCT	ND1	16.8	16.6	19.6	85.7	84.7	0.2
3-MCT	ND1	18.1	18.0	20.0	90.5	90.0	0.1
4-MCT	ND1	16.9	16.6	20.0	84.5	83.0	0.3

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
07/22/96 07/15/96 to 07/21/96

**** Extracted ****
07/22/96

**** Analyzed ****
07/22/96 to

****Date Reported****
08/21/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	21.5	19.8	108.6
PCE	ND1	23.0	21.0	109.5
2-MCBTF	ND1	22.3	20.6	108.3
3-MCBTF	ND1		-	
4-MCBTF	ND1	19.4	20.4	95.1
MCB	ND1	18.6	19.6	94.9
2-MCT	ND1	19.7	19.6	100.5
3-MCT	ND1	19.8	20.0	99.0
4-MCT	ND1	19.5	20.0	97.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	18.0	18.0	19.8	90.9	90.9	0.0
PCE	ND1	18.9	18.8	21.0	90.0	89.5	0.1
2-MCBTF	ND1	18.7	18.7	20.6	90.8	90.8	0.0
3-MCBTF	ND1			-			
4-MCBTF	ND1	16.1	15.8	20.4	78.9	77.5	0.3
MCB	ND1	16.1	16.0	19.6	82.1	81.6	0.1
2-MCT	ND1	17.3	17.2	19.6	88.3	87.8	0.1
3-MCT	ND1	17.5	17.5	20.0	87.5	87.5	0.0
4-MCT	ND1	17.3	17.3	20.0	86.5	86.5	0.0

Comments:

All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
07/29/96 07/22/96 to 07/28/96

**** Extracted ****
07/29/96

**** Analyzed ****
07/29/96 to

****Date Reported****
08/21/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	22.2	19.8	112.1
PCE	ND1	24.0	21.0	114.3
2-MCBTF	ND1	23.4	20.6	113.6
3-MCBTF	ND1		-	
4-MCBTF	ND1	20.7	20.4	101.5
MCB	ND1	18.6	19.6	94.9
2-MCT	ND1	19.8	19.6	101.0
3-MCT	ND1	19.5	20.0	97.5
4-MCT	ND1	19.3	20.0	96.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	17.4	16.3	19.8	87.9	82.3	1.1
PCE	ND1	18.1	17.0	21.0	86.2	81.0	1.1
2-MCBTF	ND1	18.1	17.1	20.6	87.9	83.0	1.0
3-MCBTF	ND1			-			
4-MCBTF	ND1	15.7	14.5	20.4	77.0	71.1	1.2
MCB	ND1	14.7	14.2	19.6	75.0	72.4	0.5
2-MCT	ND1	15.8	15.3	19.6	80.6	78.1	0.5
3-MCT	ND1	16.0	15.5	20.0	80.0	77.5	0.5
4-MCT	ND1	15.8	15.3	20.0	79.0	76.5	0.5

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
08/05/96 07/29/96 to 08/04/96

**** Extracted ****
08/05/96

**** Analyzed ****
08/05/96 to 08/06/96

****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	16.6	19.8	83.8
PCE	ND1	18.2	20.6	88.3
2-MCBTF	ND1	18.9	20.2	93.6
3-MCBTF	ND1		-	
4-MCBTF	ND1	16.0	20.4	78.4
MCB	ND1	16.6	20.4	81.4
2-MCT	ND1	18.0	19.8	90.9
3-MCT	ND1	17.8	19.8	89.9
4-MCT	ND1	17.7	20.2	87.6

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	14.6	-	19.8	73.7	0.0	-
PCE	ND1	15.0	-	20.6	72.8	0.0	-
2-MCBTF	ND1	15.4	-	20.2	76.2	0.0	-
3-MCBTF	ND1		-	-			-
4-MCBTF	ND1	12.6	-	20.4	61.8	0.0	-
MCB	ND1	14.8	-	20.4	72.5	0.0	-
2-MCT	ND1	15.4	-	19.8	77.8	0.0	-
3-MCT	ND1	15.5	-	19.8	78.3	0.0	-
4-MCT	ND1	15.3	-	20.2	75.7	0.0	-

Comments:

All QC/QA within established limits
Spike # 2 - flask broken during extraction
No additional sample to repeat analysis
All QA/QC measured is acceptable - results accepted as is

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
08/12/96 08/05/96 to 08/11/96

**** Extracted ****
08/12/96

**** Analyzed ****
08/12/96 to 08/13/96

****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	17.6	19.8	88.9
PCE	ND1	18.8	20.6	91.3
2-MCBTF	ND1	17.5	20.2	86.6
3-MCBTF	ND1		-	
4-MCBTF	ND1	16.8	20.4	82.4
MCB	ND1	18.1	20.4	88.7
2-MCT	ND1	19.7	19.8	99.5
3-MCT	ND1	20.0	19.8	101.0
4-MCT	ND1	19.7	20.2	97.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	15.3	14.8	19.8	77.3	74.7	0.5
PCE	ND1	15.9	15.8	20.6	77.2	76.7	0.
2-MCBTF	ND1	15.3	15.3	20.2	75.7	75.7	0.0
3-MCBTF	ND1			-			
4-MCBTF	ND1	14.2	14.3	20.4	69.6	70.1	0.
MCB	ND1	16.4	16.0	20.4	80.4	78.4	0.
2-MCT	ND1	17.7	17.3	19.8	89.4	87.4	0.4
3-MCT	ND1	18.0	17.6	19.8	90.9	88.9	0.
4-MCT	ND1	17.7	17.4	20.2	87.6	86.1	0.

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
08/19/96 08/12/96 to 08/18/96

**** Extracted ****
08/19/96

**** Analyzed ****
08/19/96 to
****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	17.2	19.8	86.9
PCE	ND1	18.5	20.6	89.8
2-MCBTF	ND1	17.6	20.2	87.1
3-MCBTF	ND1		-	
4-MCBTF	ND1	16.8	20.4	82.4
MCB	ND1	17.9	20.4	87.7
2-MCT	ND1	20.0	19.8	101.0
3-MCT	ND1	19.8	19.8	100.0
4-MCT	ND1	19.5	20.2	96.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	14.4	14.5	19.8	72.7	73.2	0.1
PCE	ND1	15.2	15.3	20.6	73.8	74.3	0.1
2-MCBTF	ND1	15.1	15.2	20.2	74.8	75.2	0.1
3-MCBTF	ND1			-			
4-MCBTF	ND1	13.8	13.8	20.4	67.6	67.6	0.0
MCB	ND1	15.4	15.7	20.4	75.5	77.0	0.3
2-MCT	ND1	16.8	16.8	19.8	84.8	84.8	0.0
3-MCT	ND1	17.1	17.1	19.8	86.4	86.4	0.0
4-MCT	ND1	17.0	17.0	20.2	84.2	84.2	0.0

Comments:

All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
08/26/96 08/19/96 to 08/25/96

**** Extracted ****
08/26/96

**** Analyzed ****
08/26/96 to 08/28/96

****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	16.7	19.8	84.3
PCE	ND1	17.5	20.6	85.0
2-MCBTF	ND1	17.1	20.2	84.7
3-MCBTF	ND1		-	
4-MCBTF	ND1	16.2	20.4	79.4
MCB	ND1	16.8	20.4	82.4
2-MCT	ND1	18.8	19.8	94.9
3-MCT	ND1	18.7	19.8	94.4
4-MCT	ND1	18.5	20.2	91.6

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	14.5	14.1	19.8	73.2	71.2	0.
PCE	ND1	15.6	15.1	20.6	75.7	73.3	0.
2-MCBTF	ND1	15.1	14.6	20.2	74.8	72.3	0.5
3-MCBTF	ND1			-			
4-MCBTF	ND1	13.8	13.2	20.4	67.6	64.7	0.
MCB	ND1	15.7	15.3	20.4	77.0	75.0	0.
2-MCT	ND1	17.3	16.8	19.8	87.4	84.8	0.5
3-MCT	ND1	17.6	17.0	19.8	88.9	85.9	0.
4-MCT	ND1	17.4	16.8	20.2	86.1	83.2	0.

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
09/02/96 08/26/96 to 09/01/96

**** Extracted ****
09/03/96

**** Analyzed ****
09/06/96 to
****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	18.1	19.8	91.4
PCE	ND1	20.2	20.6	98.1
2-MCBTF	ND1	19.2	20.2	95.0
3-MCBTF	ND1		-	
4-MCBTF	ND1	18.7	20.4	91.7
MCB	ND1	17.6	20.4	86.3
2-MCT	ND1	20.0	19.8	101.0
3-MCT	ND1	19.8	19.8	100.0
4-MCT	ND1	19.6	20.2	97.0

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	14.6	15.2	19.8	73.7	76.8	0.6
PCE	ND1	16.1	16.2	20.6	78.2	78.6	0.1
2-MCBTF	ND1	15.9	15.9	20.2	78.7	78.7	0.0
3-MCBTF	ND1			-			
4-MCBTF	ND1	14.5	14.7	20.4	71.1	72.1	0.2
MCB	ND1	15.6	15.1	20.4	76.5	74.0	0.5
2-MCT	ND1	17.6	16.9	19.8	88.9	85.4	0.7
3-MCT	ND1	17.7	17.1	19.8	89.4	86.4	0.6
4-MCT	ND1	17.5	17.0	20.2	86.6	84.2	0.5

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
09/09/96 09/02/96 to 09/08/96

**** Extracted ****
09/10/96

**** Analyzed ****
09/10/96 to 09/11/96

****Date Reported****
09/16/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	17.9	19.8	90.4
PCE	ND1	18.9	20.6	91.7
2-MCBTF	ND1	17.8	20.2	88.1
3-MCBTF	ND1		-	
4-MCBTF	ND1	17.1	20.4	83.8
MCB	ND1	16.7	20.4	81.9
2-MCT	ND1	19.2	19.8	97.0
3-MCT	ND1	19.4	19.8	98.0
4-MCT	ND1	19.1	20.2	94.6

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	15.0	15.5	19.8	75.8	78.3	0.5
PCE	ND1	15.5	16.0	20.6	75.2	77.7	0.5
2-MCBTF	ND1	15.2	15.7	20.2	75.2	77.7	0.5
3-MCBTF	ND1			-			
4-MCBTF	ND1	13.8	14.3	20.4	67.6	70.1	0.5
MCB	ND1	15.4	15.1	20.4	75.5	74.0	0.5
2-MCT	ND1	16.7	17.2	19.8	84.3	86.9	0.5
3-MCT	ND1	17.0	17.4	19.8	85.9	87.9	0.4
4-MCT	ND1	16.9	17.3	20.2	83.7	85.6	0.4

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
09/16/96 09/09/96 to 09/15/96

**** Extracted ****
09/17/96

**** Analyzed ****
09/20/96 to
****Date Reported****
11/12/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	16.8	19.8	84.8
PCE	ND1	17.7	20.6	85.9
2-MCBTF	ND1	16.5	20.2	81.7
3-MCBTF	ND1		-	
4-MCBTF	ND1	15.8	20.4	77.5
MCB	ND1	18.4	20.4	90.2
2-MCT	ND1	20.7	19.8	104.5
3-MCT	ND1	20.8	19.8	105.1
4-MCT	ND1	20.5	20.2	101.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	13.9	14.0	19.8	70.2	70.7	0.1
PCE	ND1	14.3	14.1	20.6	69.4	68.4	0.2
2-MCBTF	ND1	14.0	13.9	20.2	69.3	68.8	0.1
3-MCBTF	ND1			-			
4-MCBTF	ND1	12.6	12.4	20.4	61.8	60.8	0.2
MCB	ND1	16.1	16.0	20.4	78.9	78.4	0.1
2-MCT	ND1	18.2	17.7	19.8	91.9	89.4	0.5
3-MCT	ND1	18.4	18.1	19.8	92.9	91.4	0.3
4-MCT	ND1	18.3	18.1	20.2	90.6	89.6	0.2

Comments:

All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
09/23/96 09/16/96 to 09/22/96

**** Extracted ****
09/24/96

**** Analyzed ****
09/24/96 to 09/25/96

****Date Reported****
11/12/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	17.0	19.8	85.9
PCE	ND1	17.7	20.6	85.9
2-MCBTF	ND1	16.9	20.2	83.7
3-MCBTF	ND1		-	
4-MCBTF	ND1	16.8	20.4	82.4
MCB	ND1	17.8	20.4	87.3
2-MCT	ND1	19.9	19.8	100.5
3-MCT	ND1	19.8	19.8	100.0
4-MCT	ND1	19.5	20.2	96.5

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	1.6	15.2	15.7	19.8	68.7	71.2	0.5
PCE	1.0	16.0	16.7	20.6	72.8	76.2	0.7
2-MCBTF	ND1	15.6	16.1	20.2	77.2	79.7	0.5
3-MCBTF	ND1			-			
4-MCBTF	1.4	14.6	15.0	20.4	64.7	66.7	0.4
MCB	ND1	16.7	17.2	20.4	81.9	84.3	0.5
2-MCT	4.8	18.6	19.2	19.8	69.7	72.7	0.6
3-MCT	ND1	18.8	19.3	19.8	94.9	97.5	0.5
4-MCT	ND1	18.7	19.1	20.2	92.6	94.6	0.4

Comments:
All QC/QA within established limits

CALGON WEEKLY RESULTS-HYDE PARK UNIT

**** Sample Date ****
09/30/96 09/23/96 to 09/29/96

**** Extracted ****
09/30/96

**** Analyzed ****
09/30/96 to
****Date Reported****
11/12/96

All results in PPB (micrograms/liter)

Water Blank

	Value	Found 1	Spike	% Rec
TCE	ND1	18.5	19.8	93.4
PCE	ND1	19.5	20.6	94.7
2-MCBTF	ND1	20.1	20.2	99.5
3-MCBTF	ND1		-	
4-MCBTF	ND1	18.5	20.4	90.7
MCB	ND1	18.6	20.4	91.2
2-MCT	ND1	19.1	19.8	96.5
3-MCT	ND1	19.5	19.8	98.5
4-MCT	ND1	19.0	20.2	94.1

Sample

	Value	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
TCE	ND1	14.7	15.6	19.8	74.2	78.8	0.9
PCE	ND1	16.2	17.0	20.6	78.6	82.5	0.3
2-MCBTF	ND1	17.1	17.9	20.2	84.7	88.6	0.8
3-MCBTF	ND1			-			
4-MCBTF	ND1	15.4	16.0	20.4	75.5	78.4	0.6
MCB	ND1	15.9	16.7	20.4	77.9	81.9	0.8
2-MCT	ND1	17.0	17.7	19.8	85.9	89.4	0.7
3-MCT	ND1	17.3	18.1	19.8	87.4	91.4	0.8
4-MCT	ND1	16.9	17.5	20.2	83.7	86.6	0.6

Comments:

All QC/QA within established limits

APPENDIX C-3

LEACHATE TREATMENT SYSTEM
MONTHLY EFFLUENT ANALYTICAL DATA

CALGON MONTHLY RESULTS - HYDE PARK UNIT

**** Sample Date ****
July 1996 Monthly

**** Extracted ****
08/05/96

**** Analyzed ****
08/06/96 to 08/08/96

**** Date Reported **** 09/16/96

Water Blank

	Value	Found 1	Spike	% Rec
135-TCB	ND1	18.9	19.2	98.4
124-TCB	ND1	18.3	18.8	97.3
123-TCB	ND1	20.7	20.2	102.5
C-46	ND1	17.8	19.2	92.7
1245-TCB	ND1	19.3	18.8	102.7
C-56	ND1	16.2	19.0	85.3
245-TCP	ND1	18.7	19.8	94.4
1234-TCB	ND1	20.0	20.0	100.0
C-58	ND1	18.1	18.8	96.3
A-BHC	ND1	20.5	19.2	106.8
B-BHC	ND1	17.1	18.2	94.0
C-66	ND1	10.1	20.2	50.0
G-BHC	ND1	18.9	18.0	105.0
D-BHC	ND1	18.5	18.0	102.8

Sample

	Monthly	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
135-TCB	ND1	18.1	18.0	19.2	94.3	93.8	0.1
124-TCB	ND1	18.1	17.5	18.8	96.3	93.1	0.6
123-TCB	ND1	20.2	20.1	20.2	100.0	99.5	0.1
C-46	ND1	15.8	15.9	19.2	82.3	82.8	0.1
1245-TCB	ND1	18.8	18.8	18.8	100.0	100.0	0.0
C-56	ND1	13.0	14.0	19.0	68.4	73.7	1.0
245-TCP	ND1	17.0	17.0	19.8	85.9	85.9	0.0
1234-TCB	ND1	19.8	19.8	20.0	99.0	99.0	0.0
C-58	ND1	13.6	15.3	18.8	72.3	81.4	1.7
A-BHC	ND1	21.1	20.9	19.2	109.9	108.9	0.2
B-BHC	ND1	17.7	17.5	18.2	97.3	96.2	0.2
C-66	ND1	13.7	15.0	20.2	67.8	74.3	1.3
G-BHC	ND1	19.4	19.3	18.0	107.8	107.2	0.1
D-BHC	ND1	18.8	18.7	18.0	104.4	103.9	0.1

Comments:

All QA/QC within established limits

CALGON MONTHLY RESULTS - HYDE PARK UNIT

**** Sample Date ****
August 1996 Monthly

**** Extracted ****
09/03/96

**** Analyzed ****
09/05/96 to

**** Date Reported **** 09/16/96

Water Blank

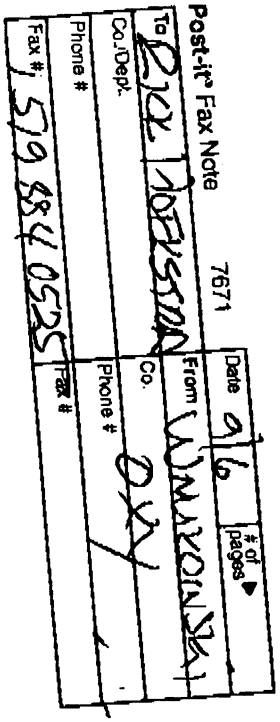
	Value	Found 1	Spike	% Rec
135-TCB	ND1	18.5	19.2	96.4
124-TCB	ND1	17.6	18.8	93.6
123-TCB	ND1	20.4	20.2	101.0
C-46	ND1	17.8	19.2	92.7
1245-TCB	ND1	18.1	18.8	96.3
C-56	ND1	20.5	19.0	107.9
245-TCP	ND1	9.5	19.8	48.0
1234-TCB	ND1	17.9	20.0	89.5
C-58	ND1	19.4	18.8	103.2
A-BHC	ND1	20.8	19.2	108.3
B-BHC	ND1	15.9	18.2	87.4
C-66	ND1	14.8	20.2	73.3
G-BHC	ND1	19.6	18.0	108.9
D-BHC	ND1	17.2	18.0	95.6

Sample

	Monthly	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
135-TCB	ND1	16.8	16.8	19.2	87.5	87.5	0.0
124-TCB	ND1	16.4	16.5	18.8	87.2	87.8	0.1
123-TCB	ND1	19.3	19.5	20.2	95.5	96.5	0.2
C-46	ND1	15.3	15.2	19.2	79.7	79.2	0.1
1245-TCB	ND1	17.0	17.2	18.8	90.4	91.5	0.2
C-56	ND1	18.0	18.0	19.0	94.7	94.7	0.0
245-TCP	ND1	11.2	11.5	19.8	56.6	58.1	0.3
1234-TCB	ND1	17.1	17.2	20.0	85.5	86.0	0.1
C-58	ND1	17.7	17.7	18.8	94.1	94.1	0.0
A-BHC	ND1	20.6	20.8	19.2	107.3	108.3	0.2
B-BHC	ND1	16.2	16.6	18.2	89.0	91.2	0.4
C-66	ND1	14.0	15.0	20.2	69.3	74.3	1.0
G-BHC	ND1	19.2	19.5	18.0	106.7	108.3	0.3
D-BHC	ND1	17.5	17.7	18.0	97.2	98.3	0.2

Comments:

All QA/QC within established limits



CALGON MONTHLY RESULTS - HYDE PARK UNIT

**** Sample Date ****
September 1996 Monthly

**** Extracted ****
10/07/96

**** Analyzed ****
10/07/96 to 10/08/96

**** Date Reported **** 11/12/96

Water Blank

	Value	Found 1	Spike	% Rec
135-TCB	ND1	18.8	19.2	97.9
124-TCB	ND1	18.3	18.8	97.3
123-TCB	ND1	21.0	20.2	104.0
C-46	ND1	17.8	19.2	92.7
1245-TCB	ND1	20.4	18.8	108.5
C-56	ND1	16.5	19.0	86.8
245-TCP	ND1	13.4	19.8	67.7
1234-TCB	ND1	20.6	20.0	103.0
C-58	ND1	17.2	18.8	91.5
A-BHC	ND1	19.8	19.2	103.1
B-BHC	ND1	16.5	18.2	90.7
C-66	ND1	18.0	20.2	89.1
G-BHC	ND1	18.6	18.0	103.3
D-BHC	ND1	17.5	18.0	97.2

Sample

	Monthly	Found 1	Found 2	Spike	% Rec 1	% Rec 2	Range
135-TCB	ND1	18.7	19.0	19.2	97.4	99.0	0.3
124-TCB	ND1	18.5	18.9	18.8	98.4	100.5	0.4
123-TCB	ND1	21.0	21.6	20.2	104.0	106.9	0.6
C-46	ND1	16.5	16.8	19.2	85.9	87.5	0.3
1245-TCB	ND1	20.4	20.9	18.8	108.5	111.2	0.5
C-56	ND1	14.8	14.8	19.0	77.9	77.9	0.0
245-TCP	ND1	13.9	14.3	19.8	70.2	72.2	0.4
1234-TCB	ND1	20.5	21.0	20.0	102.5	105.0	0.5
C-58	ND1	16.1	15.8	18.8	85.6	84.0	0.3
A-BHC	ND1	20.8	21.3	19.2	108.3	110.9	0.5
B-BHC	ND1	17.2	17.8	18.2	94.5	97.8	0.6
C-66	ND1	14.0	14.7	20.2	69.3	72.8	0.7
G-BHC	ND1	19.7	20.1	18.0	109.4	111.7	0.4
D-BHC	ND1	18.4	18.9	18.0	102.2	105.0	0.5

Comments:

All QA/QC within established limits

APPENDIX C-4

LEACHATE TREATMENT SYSTEM
WEEKLY MIDPOINT ANALYTICAL DATA

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage A 141-7

**** Sample Date ****
07/01/96

**** Extracted ****
07/01/96

**** Analyzed ****
07/02/96 to

*** Date Reported *** 08/21/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	6.0
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage A 147-7

**** Sample Date ****
07/08/96

**** Extracted ****
07/08/96

**** Analyzed ****
07/09/96 to

*** Date Reported *** 08/21/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	5.9
PCE	1.7
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	1.0
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage A 154-6

**** Sample Date ****
07/15/96

**** Extracted ****
07/15/96

**** Analyzed ****
07/15/96 to

*** Date Reported *** 08/21/96

All results are in PPB (micrograms/liter)

Sample	Value
TCE	13.7
PCE	1.7
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage A 163-7

**** Sample Date ****
07/22/96

**** Extracted ****
07/22/96

**** Analyzed ****
07/22/96 to

*** Date Reported *** 08/21/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	47.3
PCE	16.6
2-MCBTF	3.4
3-MCBTF	1.5
4-MCBTF	5.0
MCB	1.0
2-MCT	7.9
3-MCT	ND1
4-MCT	1.5

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage C 170-7

**** Sample Date ****
07/29/96

**** Extracted ****
07/29/96

**** Analyzed ****
07/29/96 to

*** Date Reported *** 08/21/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage 184-7

**** Sample Date ****
08/12/96

**** Extracted ****
08/12/96

**** Analyzed ****
08/12/96 to 08/13/96

*** Date Reported *** 09/16/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage B 192-7

**** Sample Date ****
08/19/96

**** Extracted ****
08/19/96

**** Analyzed ****
08/19/96 to

*** Date Reported *** 09/16/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage B 199-7

**** Sample Date ****
08/26/96

**** Extracted ****
08/26/96

**** Analyzed ****
08/26/96 to 08/28/96

*** Date Reported *** 09/16/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage B 212-7

**** Sample Date ****
09/09/96

**** Extracted ****
09/10/96

**** Analyzed ****
09/10/96 to 09/11/96

*** Date Reported *** 09/16/96

All results are in PPB (micrograms/liter)

Sample	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage B 219-7

**** Sample Date ****
09/16/96

**** Extracted ****
09/17/96

**** Analyzed ****
09/20/96 to

*** Date Reported *** 11/12/96

All results are in PPB (micrograms/liter)

Sample	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage B 227-7

**** Sample Date ****
09/23/96

**** Extracted ****
09/24/96

**** Analyzed ****
09/24/96 to 09/25/96

*** Date Reported *** 11/12/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.

CALGON WEEKLY RESULTS - HYDE PARK UNIT
Interstage

**** Sample Date ****
09/30/96

**** Extracted ****
09/30/96

**** Analyzed ****
09/30/96 to

*** Date Reported *** 11/12/96

All results are in PPB (micrograms/liter)

Sample

	Value
TCE	ND1
PCE	ND1
2-MCBTF	ND1
3-MCBTF	ND1
4-MCBTF	ND1
MCB	ND1
2-MCT	ND1
3-MCT	ND1
4-MCT	ND1

Comments: Refer to Hyde Park Calgon weekly report for appliciable QC/QA results.