

**Volume 3**

■ ■ ■ ■ ■  
**ENGINEER'S AND OWNER'S  
CERTIFICATION OF CLOSURE  
FOR WASTE MANAGEMENT UNITS  
AT PHILADELPHIA COKE COMPANY**

Prepared for:  
Philadelphia Coke Company  
Philadelphia, Pennsylvania



Prepared by:  
Woodward-Clyde Consultants  
Plymouth Meeting, Pennsylvania  
December 1992

QUARTERLY HAZARDOUS WASTE REPORT - GENERAL INFORMATION

I. This report is for the quarter ending (check one):

- March 31
  - June 30
  - September 30
  - December 31
- 19 88  
Yr.

II. Your EPA I.D. Number 

P	A	D	0	0	0	4	2	7	9	0	6
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III.  Check this block, if there is nothing to report this quarter.

IV. Name of Installation Philadelphia Coke Company

V. Mailing Address 4501 Richmond Street

Philadelphia, PA 19137

VI. Location Address 2900 Orthodox Street

Philadelphia, PA

City  
 Borough  
 Township

If within PA, Philadelphia Philadelphia Cour  
(Name of Municipality) (Check one)

VII. Contact Person James V. Husted

Phone No. 215 - 825 - 3000  
(Area Code)

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes present and future threat to human health and the environment; OR, if I am a small quantity generator I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

John T. McKenna  
A. Print or Type Name

John T. McKenna  
B. Signature of Authorized Representative

11/9/88  
C. Date Signed

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. P A D 0 0 0 4 2 7 1 9 0 1 6

II. TSD Facility's EPA I.D. No. O H D 0 4 5 2 4 3 7 0 6

TSD Facility's Name Envirosafe Services of Ohio, Inc.

Address 876 Otter Creek Road, Oregon, Ohio 43616

III. WASTE SHIPPED OFF - SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (Include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	PA. Hazard Waste Transp License N	
				K P M	A H   0   1
1	US DOT Description- RQ; Hazardous Waste Solid N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	1,883 T (See Table 1)	X	AH 0 1
2	US DOT Description- RQ; Hazardous Waste Solid N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	337 T (See Table 1)	X	AH 0 0
3	US DOT Description- RQ; Hazardous Waste Solid N.O.S.*; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	925 T (See Table 1)	X	AH 0
4	US DOT Description- RQ; Hazardous Waste Solid N.O.S.*; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	19.7 T (See Table 1)	X	AH E 2
5	US DOT Description- State Manifest Document Number -			X	AH
6	US DOT Description- State Manifest Document Number -			X	AH
7	US DOT Description- State Manifest Document Number -			X	AH
8	US DOT Description- State Manifest Document Number -			X	AH
9	US DOT Description- State Manifest Document Number -			X	AH
10	US DOT Description- State Manifest Document Number -			X	AH

E. Comments: \*Soil contaminated with tar decanter sludge from coking operations.

TABLE 1  
 PHILADELPHIA COKE COMPANY  
 SOIL MANIFEST SUMMARY - THIRD QUARTER 1988

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State*			Name	I.D. No.
1	5770634	7/19/88	30.55	Vanguard	0107
2	5770645	7/19/88	29.42	Vanguard	0107
3	5770682	7/20/88	26.21	Vanguard	0107
4	5770671	7/20/88	32.05	Vanguard	0107
5	5770660	7/20/88	27.71	Vanguard	0107
6	5770656	7/20/88	25.41	Vanguard	0107
7	5770763	7/20/88	28.84	Pfrommer	0042
8	5770752	7/20/88	26.21	Pfrommer	0042
9	5770796	7/20/88	29.39	Pfrommer	0042
10	5770785	7/20/88	25.34	Pfrommer	0042
11	5770774	7/20/88	24.16	Pfrommer	0042
11A	5723233	7/25/88	25.00	Vanguard	0107
12	5770811	7/25/88	26.52	Vanguard	0107
13	5770833	7/25/88	26.66	Vanguard	0107
14	5770822	7/25/88	26.01	Vanguard	0107
15	5770693	7/25/88	30.08	Vanguard	0107
16	5770800	7/25/88	23.49	Vanguard	0107
17	5770704	7/25/88	31.27	Vanguard	0107
18	5723244	7/25/88	26.07	Vanguard	0107
19**	5723233	7/25/88	24.49	Vanguard	0107
19	5723071	7/27/88	27.38	Vanguard	0107
20	5723104	7/27/88	27.34	Vanguard	0107
21	5723093	7/27/88	27.85	Vanguard	0107
22	5723115	7/27/88	28.45	Vanguard	0107
23	5723126	7/27/88	24.23	Vanguard	0107
24	5723163	7/27/88	25.17	Vanguard	0107
25	5723056	7/28/88	19.69	Envirosafe	B251
26	5724504	7/28/88	28.80	Pfrommer	0042
27	5724493	7/28/88	26.86	Pfrommer	0042
28	5723211	7/28/88	24.05	Vanguard	0107
29	5770973	7/29/88	28.69	Vanguard	0107
30	5724482	7/29/88	27.97	Pfrommer	0042
31	5724471	7/29/88	27.34	Pfrommer	0042
32	5723351	7/29/88	29.93	Dart	0219
33	5723023	7/29/88	28.69	Dart	0219
34	5723222	7/29/88	25.88	Dart	0219
35	5723174	7/29/88	24.79	Vanguard	0107
36	5723185	7/29/88	22.85	Vanguard	0107
37	5771010	7/29/88	22.09	Dart	0219
38	5723373	7/29/88	29.90	Vanguard	0107
39	5723325	7/29/88	27.61	Vanguard	0107
40	5723314	7/29/88	23.64	Vanguard	0107

TABLE 1  
(Continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State*			Name	L.D. No.
41	5723303	7/29/88	24.27	Vanguard	0107
42	5723292	7/29/88	25.93	Vanguard	0107
43	5723336	7/29/88	25.48	Vanguard	0107
44	5723362	7/29/88	25.94	Vanguard	0107
45	5723181	7/29/88	28.48	Vanguard	0107
46	5770542	7/30/88	24.11	Vanguard	0107
47	5771006	8/01/88	26.05	Dart	0219
48	5770531	8/01/88	22.66	Dart	0219
49	5724456	8/01/88	24.62	Dart	0219
50	5724423	8/01/88	24.44	Dart	0219
51	5724445	8/01/88	24.24	Dart	0219
52	5724434	8/01/88	26.44	Vanguard	0107
53	5724014	8/01/88	23.40	Vanguard	0107
54	5724003	8/01/88	21.82	Vanguard	0107
55	5723992	8/01/88	24.64	Vanguard	0107
56	5724412	8/01/88	22.70	Dart	0219
57	5724353	8/02/88	22.34	Dart	0219
58	5723981	8/02/88	28.37	Vanguard	0107
59	5724342	8/02/88	29.37	Dart	0219
60	5724375	8/02/88	21.08	Dart	0219
61	5724386	8/02/88	24.86	Dart	0219
62	5723955	8/02/88	27.98	Vanguard	0107
63	5770553	8/02/88	25.21	Vanguard	0107
64	5723966	8/02/88	28.01	Vanguard	0107
65	5724331	8/02/88	25.80	Dart	0219
66	5723852	8/02/88	27.55	Vanguard	0107
67	5723863	8/02/88	24.57	Vanguard	0107
68	5723874	8/02/88	27.98	Vanguard	0107
69	5723885	8/02/88	26.78	Vanguard	0107
70	5723896	8/02/88	29.87	Vanguard	0107
71	5723970	8/02/88	32.68	Vanguard	0107
72	5723944	8/02/88	31.34	Vanguard	0107
73	5723793	8/02/88	32.93	Vanguard	0107
74	5770612	8/02/88	34.56	Vanguard	0107
75	5724305	8/03/88	27.60	Dart	0219
76	5724316	8/03/88	23.28	Dart	0219
77	5724320	8/03/88	24.13	Dart	0219
78	5724390	8/03/88	27.22	Dart	0219
79	5724401	8/03/88	23.03	Dart	0219
80	5724283	8/03/88	25.14	Dart	0219
81	5724294	8/03/88	26.54	Dart	0219
82	5770601	8/03/88	26.07	Vanguard	0107
83	5770590	8/03/88	24.20	Vanguard	0107
84	5770564	8/03/88	24.20	Vanguard	0107

TABLE 1  
(Continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State*			Name	L.D. No.
85	5770575	8/03/88	24.09	Vanguard	0107
86	5723804	8/03/88	27.17	Vanguard	0107
87	5724213	8/04/88	25.60	Dart	0219
88	5724224	8/04/88	22.18	Dart	0219
89	5724235	8/04/88	21.84	Dart	0219
90	5724246	8/04/88	24.59	Dart	0219
91	5724143	8/04/88	21.20	Dart	0219
92	5724250	8/04/88	23.45	Dart	0219
93	5724261	8/04/88	26.18	Dart	0219
94	5724272	8/04/88	24.27	Dart	0219
95	5724202	8/04/88	23.09	Dart	0219
96	5724191	8/04/88	25.03	Pfrommer	0042
97	5724106	8/04/88	25.04	Dart	0219
98	5723830	8/04/88	25.36	Vanguard	0107
99	5723826	8/04/88	25.57	Vanguard	0107
100	5724095	8/04/88	25.07	Dart	0219
101	5724073	8/04/88	24.42	Pfrommer	0042
102	5724062	8/04/88	21.14	Pfrommer	0042
103	5724132	8/04/88	29.25	Dart	0219
104	5724154	8/04/88	29.51	Dart	0219
105	5723911	8/04/88	25.74	Vanguard	0107
106	5723841	8/04/88	30.53	Vanguard	0107
107	5723900	8/04/88	28.14	Vanguard	0107
108	5723922	8/04/88	26.94	Vanguard	0107
109	5723933	8/04/88	30.25	Vanguard	0107
109**	5723491	8/04/88	23.07	Vanguard	0107
110	5724176	8/04/88	23.93	Dart	0219
111	5723502	8/04/88	33.30	Vanguard	0107
112	5724180	8/04/88	28.16	Dart	0219
113	5723476	8/04/88	32.95	Vanguard	0107
114	5724025	8/04/88	31.91	Vanguard	0107
115	5723513	8/04/88	30.01	Vanguard	0107
116	5724051	8/04/88	32.57	Vanguard	0107

\* All prefaced by "PAB"

\*\* Duplicate sequential L.D. No.



GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA-D10 010 427 191016  
 II. TSD Facility's EPA I.D. No. OH D 04 524 317 016  
 TSD Facility's Name Envirosafe Services of Ohio, Inc.  
 Address 876 Otter Creek Road, Oregon, Ohio 43616

III. WASTE SHIPPED OFF - SITE				
LINE NO	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA. Hazardous Waste Transport License No.
1	US DOT Description- RQ; Hazardous Waste Solid N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	5,591 T (See Table 1)	A H   0   1   0
2	US DOT Description- RQ; Hazardous Waste Solid N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 1	K 0 8 7	660 T (See Table 1)	A H   0   0   4
3	US DOT Description- State Manifest Document Number -			A H
4	US DOT Description- State Manifest Document Number -			A H
5	US DOT Description- State Manifest Document Number -			A H
6	US DOT Description- State Manifest Document Number -			A H
7	US DOT Description- State Manifest Document Number -			A H
8	US DOT Description- State Manifest Document Number -			A H
9	US DOT Description- State Manifest Document Number -			A H
10	US DOT Description- State Manifest Document Number -			A H

E. Comments: \*Soil contaminated with tar decanter sludge from coking operations.



TABLE 1

**PHILADELPHIA COKE COMPANY  
SOIL MANIFEST SUMMARY - FOURTH QUARTER 1988**

<u>Manifest Document No.</u>		<u>Date</u>	<u>Weight (tons)</u>	<u>Transporter</u>	
<u>I.D. No.</u>	<u>State No.*</u>			<u>Name</u>	<u>I.D. No.</u>
117	5729721	10/03/88	30.50	Vanguard	0107
118	5729636	10/03/88	25.29	Vanguard	0107
119	5729640	10/03/88	28.71	Vanguard	0107
120	5729603	10/03/88	27.04	Vanguard	0107
121	5729662	10/03/88	27.63	Vanguard	0107
122	5729684	10/03/88	28.89	Vanguard	0107
123	5729651	10/03/88	31.55	Vanguard	0107
124	5729673	10/04/88	30.07	Vanguard	0107
125	5729776	10/04/88	29.05	Vanguard	0107
126	5729570	10/04/88	29.64	Vanguard	0107
127	5729695	10/04/88	26.68	Vanguard	0107
128	5729706	10/04/88	28.19	Vanguard	0107
129	5729566	10/05/88	27.22	Vanguard	0107
130	5729555	10/05/88	26.65	Vanguard	0107
131	5729544	10/05/88	25.27	Vanguard	0107
132	5729850	10/05/88	30.09	Vanguard	0107
133	5729835	10/05/88	26.61	Vanguard	0107
134	5729824	10/05/88	26.36	Vanguard	0107
135	5729846	10/05/88	25.36	Vanguard	0107
136	5729894	10/05/88	30.89	Vanguard	0107
137	5729872	10/05/88	33.68	Vanguard	0107
138	5729861	10/05/88	25.37	Vanguard	0107
139	5729533	10/05/88	25.20	Vanguard	0107
140	5729975	10/06/88	26.81	Vanguard	0107
141	5729964	10/06/88	28.25	Vanguard	0107
142	5729953	10/06/88	28.02	Vanguard	0107
143	5729942	10/07/88	27.05	Vanguard	0107
144	5729931	10/07/88	26.53	Vanguard	0107
145	5729905	10/10/88	28.70	Vanguard	0107
146	5729986	10/10/88	27.52	Vanguard	0107
147	5729614	10/10/88	26.67	Vanguard	0107
148	5729592	10/10/88	27.40	Vanguard	0107
149	5729581	10/11/88	29.09	Vanguard	0107
150	5728170	10/11/88	26.11	Vanguard	0107
151	5728166	10/11/88	27.07	Vanguard	0107
152	5728155	10/11/88	24.95	Vanguard	0107
153	5728133	10/11/88	27.97	Vanguard	0107
154	5728122	10/11/88	25.46	Vanguard	0107
155	5728100	10/12/88	23.55	Vanguard	0107
156	5728085	10/12/88	26.93	Vanguard	0107
157	5728074	10/12/88	26.33	Vanguard	0107

\* All Prefaced by "PAB"

TABLE 1  
(continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State No.*			Name	I.D. No.
158	5772314	10/12/88	23.17	Vanguard	0107
159	5772325	10/13/88	26.87	Vanguard	0107
160	5772303	10/13/88	29.71	Vanguard	0107
161	5772292	10/13/88	28.43	Vanguard	0107
162	5772406	10/13/88	29.62	Vanguard	0107
163	5772395	10/13/88	30.86	Vanguard	0107
164	5772384	10/13/88	30.91	Vanguard	0107
165	5772373	10/14/88	25.29	Vanguard	0107
166	5772362	10/14/88	25.17	Vanguard	0107
167	5772351	10/14/88	26.68	Vanguard	0107
168	5772281	10/14/88	24.48	Vanguard	0107
169	5772340	10/14/88	27.67	Vanguard	0107
170	5772336	10/17/88	30.95	Vanguard	0107
171	5728192	10/17/88	27.72	Vanguard	0107
172	5728026	10/17/88	28.08	Vanguard	0107
173	5772454	10/17/88	30.27	Vanguard	0107
174	5772410	10/17/88	24.16	Vanguard	0107
175	5772432	10/17/88	26.95	Vanguard	0107
176	5772421	10/17/88	28.87	Vanguard	0107
177	5772443	10/17/88	23.48	Vanguard	0107
178	5728030	10/18/88	29.57	Vanguard	0107
179	5729990	10/18/88	29.23	Vanguard	0107
180	5730001	10/18/88	27.12	Vanguard	0107
181	5770015	10/18/88	27.89	Vanguard	0107
182	5728181	10/18/88	24.31	Vanguard	0107
183	5811525	10/18/88	29.99	Vanguard	0107
184	5811536	10/18/88	28.83	Vanguard	0107
185	5811676	10/19/88	29.80	Pfrommer	0042
186	5811621	10/19/88	25.94	Pfrommer	0042
187	5811632	10/19/88	27.32	Pfrommer	0042
188	5811643	10/19/88	26.06	Pfrommer	0042
189	5811665	10/19/88	25.51	Pfrommer	0042
190	5811540	10/19/88	25.27	Vanguard	0107
191	5811551	10/19/88	29.05	Vanguard	0107
192	5811562	10/19/88	26.08	Vanguard	0107
193	5811654	10/19/88	25.75	Pfrommer	0042
194	5811702	10/19/88	25.13	Pfrommer	0042
195	5811735	10/19/88	26.64	Pfrommer	0042
196	5811713	10/19/88	24.52	Pfrommer	0042
197	5811772	10/19/88	25.77	Vanguard	0107
198	5811573	10/19/88	23.00	Vanguard	0107

\* All Prefaced by "PAB"

TABLE 1  
(continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State No.*			Name	I.D. No.
199	5811691	10/19/88	26.06	Pfrommer	0042
200	5811783	10/19/88	30.90	Vanguard	0107
201	5811761	10/19/88	28.82	Vanguard	0107
201A	5811680	10/20/88	25.40	Pfrommer	0042
202	5811746	10/20/88	23.86	Vanguard	0107
203	**				
204	5811934	10/20/88	20.97	Pfrommer	0042
205	5811831	10/20/88	26.94	Vanguard	0107
206	5812015	10/20/88	26.07	Pfrommer	0042
207	5811584	10/20/88	22.01	Vanguard	0107
208	5811595	10/20/88	24.11	Vanguard	0107
209	5811875	10/20/88	23.40	Pfrommer	0042
210	5811986	10/20/88	21.45	Pfrommer	0042
211	5811890	10/20/88	21.96	Pfrommer	0042
212	5811901	10/20/88	19.24	Pfrommer	0042
213	5811606	10/20/88	28.44	Vanguard	0107
214	5811610	10/20/88	31.50	Vanguard	0107
215	5811912	10/21/88	26.92	Pfrommer	0042
216	5811923	10/21/88	26.16	Pfrommer	0042
217	5814605	10/21/88	27.36	Pfrommer	0042
218	5811794	10/21/88	28.91	Vanguard	0107
219	5811805	10/21/88	28.22	Vanguard	0107
220	5811816	10/21/88	26.64	Vanguard	0107
221	5814594	10/21/88	25.68	Pfrommer	0042
222	5814583	10/21/88	25.45	Pfrommer	0042
223	5811820	10/21/88	29.63	Vanguard	0107
224	5811842	10/21/88	29.57	Vanguard	0107
225	5814524	10/21/88	29.38	Vanguard	0107
226	5814561	10/21/88	24.00	Vanguard	0107
227	5811945	10/21/88	25.83	Pfrommer	0042
228	5811956	10/21/88	25.50	Pfrommer	0042
229	5814535	10/21/88	29.02	Vanguard	0107
230	5814546	10/21/88	24.68	Vanguard	0107
231	5814550	10/21/88	26.08	Vanguard	0107
232	5811853	10/21/88	25.11	Vanguard	0107
233	5811971	10/21/88	23.07	Vanguard	0107
234	5811960	10/21/88	26.35	Vanguard	0107
235	5811982	10/21/88	28.29	Vanguard	0107
236	5811993	10/21/88	23.73	Vanguard	0107
237	5814631	10/21/88	29.16	Vanguard	0107
238	5811864	10/21/88	27.35	Vanguard	0107

\* All Prefaced by "PAB"

\*\* Number 203 intentionally omitted in order to correct sequencing.

TABLE 1  
(continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State No.*			Name	I.D. No.
239	5812004	10/21/88	28.12	Vanguard	0107
240	5814723	10/24/88	30.21	Vanguard	0107
241	5814701	10/24/88	25.54	Vanguard	0107
242	5814690	10/24/88	24.70	Vanguard	0107
243	5814686	10/24/88	26.07	Vanguard	0107
244	5814675	10/24/88	26.72	Vanguard	0107
245	5814664	10/24/88	22.67	Vanguard	0107
246	5814756	10/24/88	27.56	Vanguard	0107
247	5814745	10/24/88	30.81	Vanguard	0107
248	5814734	10/24/88	29.87	Vanguard	0107
249	5814712	10/24/88	28.23	Vanguard	0107
250	5814653	10/25/88	29.48	Vanguard	0107
251	5814642	10/25/88	30.91	Vanguard	0107
252	5814616	10/26/88	26.76	Pfrommer	0042
253	5814572	10/26/88	29.16	Pfrommer	0042
254	5814815	10/26/88	27.46	Vanguard	0107
255	5814804	10/26/88	22.93	Vanguard	0107
256	5814793	10/26/88	29.67	Vanguard	0107
257	5814782	10/26/88	27.34	Vanguard	0107
258	5814830	10/26/88	31.88	Vanguard	0107
259	5814760	10/26/88	31.32	Vanguard	0107
260	5814771	10/26/88	31.55	Vanguard	0107
261	5814826	10/27/88	29.19	Vanguard	0107
262	5814863	10/27/88	30.21	Vanguard	0107
263	5814852	10/27/88	32.90	Vanguard	0107
264	5814841	10/27/88	30.17	Vanguard	0107
265	5814874	10/27/88	33.30	Vanguard	0107
266	5814911	10/27/88	29.37	Vanguard	0107
267	5814900	10/27/88	29.80	Vanguard	0107
268	5814896	10/27/88	29.71	Vanguard	1017
269	5814885	10/27/88	29.95	Vanguard	0107
270	5814933	10/27/88	30.15	Vanguard	0107
271	5814922	10/27/88	27.60	Vanguard	0107
272	5814992	10/27/88	29.08	Vanguard	0107
273	5814981	10/27/88	28.50	Vanguard	0107
274	5814970	10/27/88	28.82	Vanguard	0107
275	5814966	10/27/88	27.35	Vanguard	0107
276	5814955	10/27/88	29.28	Vanguard	0107
277	5814944	10/27/88	28.88	Vanguard	0107
278	5815003	10/27/88	29.08	Vanguard	0107
279	5372986	10/27/88	28.67	Vanguard	0107
280	5815014	10/28/88	26.14	Vanguard	0107

\* All Prefaced by "PAB"

TABLE 1  
(continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State No.*			Name	I.D. No.
281	5372990	10/28/88	24.93	Vanguard	0107
282	5373001	10/28/88	23.15	Vanguard	0107
283	5373012	10/28/88	26.01	Vanguard	0107
284	5372920	10/28/88	28.76	Vanguard	0107
285	5372931	10/28/88	26.64	Vanguard	0107
286	5372942	10/28/88	28.79	Vanguard	0107
287	5372975	11/01/88	25.97	Vanguard	0107
288	5372964	11/01/88	25.98	Vanguard	0107
289	5372953	11/01/88	28.48	Vanguard	0107
290	5813522	11/01/88	27.13	Vanguard	0107
291	5813533	11/01/88	31.13	Vanguard	0107
292	5813555	11/01/88	28.63	Vanguard	0107
293	5813544	11/01/88	30.75	Vanguard	0107
294	5813566	11/01/88	28.23	Vanguard	0107
295	5813570	11/03/88	27.47	Vanguard	0107
296	5813636	11/03/88	25.93	Vanguard	0107
297	5813625	11/03/88	25.87	Vanguard	0107
298	5813614	11/03/88	27.95	Vanguard	0107
299	5813603	11/03/88	24.69	Vanguard	0107
300	5813592	11/03/88	29.51	Vanguard	0107
301	5813581	11/03/88	28.04	Vanguard	0107
302	5813640	11/03/88	28.83	Vanguard	0107
303	5813651	11/07/88	29.32	Vanguard	0107
304	5813662	11/07/88	21.89	Vanguard	0107
305	5813673	11/07/88	27.02	Vanguard	0107
306	5813684	11/07/88	29.07	Vanguard	0107
307	5813695	11/07/88	29.70	Vanguard	0107
308	5813765	11/16/88	27.62	Vanguard	0107
309	5813754	11/16/88	23.71	Vanguard	0107
310	5813743	11/16/88	27.40	Vanguard	0107
311	5813732	11/16/88	28.03	Vanguard	0107
312	5813721	11/16/88	25.94	Vanguard	0107
313	5813710	12/16/88	27.06	Vanguard	0107
314	5813706	12/16/88	25.21	Vanguard	0107
315	5813791	12/16/88	28.41	Vanguard	0107
316	5813780	12/16/88	35.55	Vanguard	0107
317	5813776	12/16/88	28.45	Vanguard	0107
318	5813894	12/16/88	28.74	Vanguard	0107
319	5813883	12/16/88	27.12	Vanguard	0107
320	5813872	12/16/88	24.78	Vanguard	0107
321	5813850	12/16/88	29.26	Vanguard	0107
322	5813846	12/16/88	25.94	Vanguard	0107

\* All Prefaced by "PAB"

TABLE 1  
(continued)

Manifest Document No.		Date	Weight (tons)	Transporter	
I.D. No.	State No.*			Name	I.D. No.
323	5813835	12/16/88	27.35	Vanguard	0107
324	5813824	12/16/88	27.94	Vanguard	0107
325	5813813	12/16/88	30.70	Vanguard	0107
326	5813802	12/16/88	24.07	Vanguard	0107
327	5813861	12/16/88	26.63	Vanguard	0107
328	5813942	12/19/88	27.01	Vanguard	0107
329	5813931	12/19/88	26.96	Vanguard	0107
330	5813920	12/19/88	27.17	Vanguard	0107
331	5813986	12/19/88	26.38	Vanguard	0107
332	5813975	12/19/88	28.11	Vanguard	0107
333	5813964	12/19/88	25.13	Vanguard	0107
334	5813905	12/19/88	26.94	Vanguard	0107
335	5813916	12/19/88	30.46	Vanguard	0107
336	5814001	12/19/88	26.37	Vanguard	0107
337	5814012	12/19/88	26.18	Vanguard	0107
338	5373340	12/19/88	26.09	Vanguard	0107
339	5373362	12/19/88	29.19	Vanguard	0107
340	5373351	12/19/88	25.63	Vanguard	0107
341	5813990	12/19/88	28.08	Vanguard	0107
342	5373373	12/19/88	29.58	Vanguard	0107
343	5373421	12/20/88	28.97	Vanguard	0107
344	5373432	12/20/88	30.33	Vanguard	0107

\* All Prefaced by "PAB"

QUARTERLY HAZARDOUS WASTE REPORT - GENERAL INFORMATION

I. This report is for the quarter ending (check one):

- March 31
  - June 30
  - September 30
  - December 31
- 19 88  
Yr.

II. Your EPA I.D. Number 

P	A	D	0	0	0	4	2	7	9	0	6
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III.  Check this block, if there is nothing to report this quarter.

IV. Name of Installation Philadelphia Coke Company

V. Mailing Address 4501 Richmond Street

Philadelphia, PA 19137

VI. Location Address 2900 Orthodox Street

Philadelphia, PA

If within PA, Philadelphia  
(Name of Municipality)

- City
  - Borough
  - Township
- (Check one)

Philadelphia County

VII. Contact Person James V. Husted

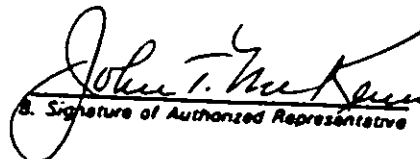
Phone No. 215 - 825 - 3000  
(Area Code)

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

John T. McKenna  
A. Print or Type Name

  
B. Signature of Authorized Representative

11/9/88  
C. Date Signed

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. P A D 0 0 0 1 4 2 7 9 0 1 6

II. TSD Facility's EPA I.D. No. N J D 0 0 2 3 8 5 7 3 0

TSD Facility's Name E.I. DuPont de Nemours, Inc.

Address Chambers Works Plant - Rt. 130, Deepwater, New Jersey 08023

III. WASTE SHIPPED OFF - SITE

LINE NO	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (Include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	PA. Hazardous Waste Transp. Lic. No.	
				K P	A H
1	US DOT Description- RQ; Hazardous Waste Liquid; N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 2	k 0 B 7	1,069 T (Bulk Liquid Shipments via Semi-tanker)	K P	A H   0   1
2	US DOT Description- State Manifest Document Number -			K P	A H
3	US DOT Description- State Manifest Document Number -			K P	A H
4	US DOT Description- State Manifest Document Number -			K P	A H
5	US DOT Description- State Manifest Document Number -			K P	A H
6	US DOT Description- State Manifest Document Number -			K P	A H
7	US DOT Description- State Manifest Document Number -			K P	A H
8	US DOT Description- State Manifest Document Number -			K P	A H
9	US DOT Description- State Manifest Document Number -			K P	A H
10	US DOT Description- State Manifest Document Number -			K P	A H

E. Comments: \* Rainwater derived from tar decanter sludge from coking operations.



TABLE 2

PHILADELPHIA COKE COMPANY  
WATER MANIFEST SUMMARY - THIRD QUARTER 1988

Manifest Document No.		Date	Gallons	Weight (tons)	Transporter	
I.D. No.	State*				Name	I.D. No.
1	0263496	08/18/88	5500	22.94	Vanguard	NJDEPS-3516
2	0263497	08/18/88	5400	22.52	Vanguard	NJDEPS-3516
3	0263495	08/18/88	5500	22.94	Vanguard	NJDEPS-3516
4	0263498	08/18/88	5400	22.52	Vanguard	NJDEPS-3516
5	0263428	08/19/88	5500	22.94	Vanguard	NJDEPS-3516
6	0263424	08/19/88	5500	22.94	Vanguard	NJDEPS-3516
7	0263425	08/19/88	5500	22.94	Vanguard	NJDEPS-3516
8	0263499	08/19/88	5500	22.94	Vanguard	NJDEPS-3516
9	0263470	09/06/88	5300	22.10	Vanguard	NJDEPS-3516
10	0263467	09/06/88	5300	22.10	Vanguard	NJDEPS-3516
11	0263469	09/08/88	5500	22.94	Vanguard	NJDEPS-3516
12	0263468	09/08/88	5500	22.94	Vanguard	NJDEPS-3516
13	0263479	09/08/88	5500	22.94	Vanguard	NJDEPS-3516
14	0263474	09/08/88	4500	18.77	Vanguard	NJDEPS-3516
15	0263480	09/09/88	5500	22.94	Vanguard	NJDEPS-3516
16	0263481	09/09/88	4500	18.77	Vanguard	NJDEPS-3516
17	0263478	09/09/88	5500	22.94	Vanguard	NJDEPS-3516
18	0263482	09/09/88	4500	18.77	Vanguard	NJDEPS-3516
19	0263484	09/12/88	5500	22.94	Vanguard	NJDEPS-3516
20	0530448	09/12/88	5500	22.94	Vanguard	NJDEPS-3516
21	0530449	09/12/88	5500	22.94	Vanguard	NJDEPS-3516
21A	0263485	09/13/88	5400	22.52	Vanguard	NJDEPS-3516
23	0530466	09/13/88	5500	22.94	Vanguard	NJDEPS-3516
24	0263487	09/13/88	5400	22.52	Vanguard	NJDEPS-3516
25	0530458	09/13/88	5500	22.94	Vanguard	NJDEPS-3516
26	0530467	09/13/88	5500	22.94	Vanguard	NJDEPS-3516
25A	0530468	09/14/88	4500	18.77	Vanguard	NJDEPS-3516
26A	0530464	09/14/88	4900	20.43	Vanguard	NJDEPS-3516
29	0530459	09/14/88	4500	18.77	Vanguard	NJDEPS-3516
30	0530454	09/14/88	4900	20.43	Vanguard	NJDEPS-3516
31	0530462	09/14/88	4500	18.77	Vanguard	NJDEPS-3516
32	0530453	09/14/88	4900	20.43	Vanguard	NJDEPS-3516
33	0530487	09/20/88	5000	20.85	Vanguard	NJDEPS-3516
34	0530488	09/20/88	5000	20.85	Vanguard	NJDEPS-3516
35	0530478	09/20/88	5000	20.85	Vanguard	NJDEPS-3516
36	0530490	09/20/88	5000	20.85	Vanguard	NJDEPS-3516
37	0530489	09/20/88	5000	20.85	Vanguard	NJDEPS-3516
38	0530481	09/20/88	4500	18.77	Vanguard	NJDEPS-3516
39	0530465	09/22/88	5000	20.85	Vanguard	NJDEPS-3516
40	0530483	09/22/88	4500	18.77	Vanguard	NJDEPS-3516

**TABLE 2  
(Continued)**

<u>Manifest Document No.</u>		<u>Date</u>	<u>Gallons</u>	<u>Weight (tons)</u>	<u>Transporter</u>	
<u>I.D. No.</u>	<u>State*</u>				<u>Name</u>	<u>L.D. No.</u>
41	0530450	09/22/88	5000	20.85	Vanguard	NJDEPS-3516
42	0530486	09/22/88	5500	22.94	Vanguard	NJDEPS-3516
43	0263488	09/22/88	4500	18.77	Vanguard	NJDEPS-35
44	0530451	09/22/88	5000	20.85	Vanguard	NJDEPS-35
45	0530507	09/28/88	4500	18.77	Vanguard	NJDEPS-3516
46	0530463	09/28/88	5500	22.94	Vanguard	NJDEPS-35
47	0530511	09/29/88	5500	22.94	Vanguard	NJDEPS-35
48	0530513	09/29/88	4500	18.77	Vanguard	NJDEPS-3516
49	0530512	09/29/88	5500	22.94	Vanguard	NJDEPS-35
50	0530514	09/29/88	4500	18.77	Vanguard	NJDEPS-35

**Total Weight = 1069.35 tons**

**\*All Prefaced by "NJA"**

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. P A D 0 0 1 0 1 4 1 2 7 ' 9 0 ' 6

II. TSD Facility's EPA I.D. No. P A D 0 6 4 3 7 5 4 7 0

TSD Facility's Name Delaware Container Co., Inc.

Address W. 11th Avenue & Valley Road, Coatesville, PA 19320

III. WASTE SHIPPED OFF - SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (Include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	PA. Hazard Waste Trans. License No.
1	US DOT Description- RQ; Waste Flammable Liquid; N.O.S.; UN 1993 (oil/gasoline/water) State Manifest Document Number - <u>PAB 4928991</u>	<u>0001</u>	<u>0.8 T</u>	<u>AH00</u>
2	US DOT Description- State Manifest Document Number -			<u>AH</u>
3	US DOT Description- State Manifest Document Number -			<u>AH</u>
4	US DOT Description- State Manifest Document Number -			<u>AH</u>
5	US DOT Description- State Manifest Document Number -			<u>AH</u>
6	US DOT Description- State Manifest Document Number -			<u>AH</u>
7	US DOT Description- State Manifest Document Number -			<u>AH</u>
8	US DOT Description- State Manifest Document Number -			<u>AH</u>
9	US DOT Description- State Manifest Document Number -			<u>AH</u>
10	US DOT Description- State Manifest Document Number -			<u>AH</u>

E. Comments:

QUARTERLY HAZARDOUS WASTE REPORT - GENERAL INFORMATION

I. This report is for the quarter ending (check one):

- March 31
  - June 30
  - September 30
  - December 31
- 19 88  
Yr.

II. Your EPA I.D. Number 

P	A	D	0	0	0	4	2	7	9	0	6
---	---	---	---	---	---	---	---	---	---	---	---

III.  Check this block, if there is nothing to report this quarter.

IV. Name of Installation Philadelphia Coke Company

V. Mailing Address 4501 Richmond Street  
Philadelphia, PA 19137

VI. Location Address 2900 Orthodox Street  
Philadelphia, PA

If within PA, Philadelphia  City  Borough  Township Philadelphia County  
(Name of Municipality) (Check one)

VII. Contact Person James V. Husted

Phone No. 215 - 825 - 3000  
(Area Code)

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

John T. McKenna  
A. Print or Type Name

\_\_\_\_\_  
B. Signature of Authorized Representative

\_\_\_\_\_  
C. Date Signed

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA D 0 0 0 4 2 1 7 9 0 6

II. TSD Facility's EPA I.D. No. N J D 0 0 2 3 8 5 7 3 0

TSD Facility's Name E.I. DuPont de Nemours, Inc.

Address Chambers Works Plant - Rt. 130, Deepwater, New Jersey 08023

III. WASTE SHIPPED OFF - SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	Per 'X' in Box	D. PA. Hazardous Waste Transpo License No.
1	US DOT Description- RQ; hazardous Waste Liquid; N.O.S. *; ORM-E; NA 9189 State Manifest Document Number - See Table 2	1087	765 T (Bulk liquid Shipments via Semi-tanker)	K P R M	A H   0   1   1
2	US DOT Description- State Manifest Document Number -			K P T M	A H
3	US DOT Description- State Manifest Document Number -			K P T M	A H
4	US DOT Description- State Manifest Document Number -			K P T M	A H
5	US DOT Description- State Manifest Document Number -			K P T M	A H
6	US DOT Description- State Manifest Document Number -			K P T M	A H
7	US DOT Description- State Manifest Document Number -			K P T M	A H
8	US DOT Description- State Manifest Document Number -			K P T M	A H
9	US DOT Description- State Manifest Document Number -			K P T M	A H
10	US DOT Description- State Manifest Document Number -			K P T M	A H

E. Comments: \* Rainwater derived from tar decanter sludge from coking operations.

TABLE 2

**PHILADELPHIA COKE COMPANY  
WATER MANIFEST SUMMARY - FOURTH QUARTER 1988**

Manifest Numbers			Gallons	Estimated Tons	Transporter	
I.D. No.	State No.*	Date			Name	I.D. No.
51	0540266	10/11/88	5400	22.52	Vanguard	NJDEP S-3516
52	0540282	10/11/88	5500	22.94	Vanguard	NJDEP S-3516
53	0540272	10/11/88	5500	22.94	Vanguard	NJDEP S-3516
54	0540283	10/11/88	5500	22.94	Vanguard	NJDEP S-3516
55	0540267	10/11/88	5500	22.94	Vanguard	NJDEP S-3516
56	0540276	10/11/88	5500	22.94	Vanguard	NJDEP S-3516
57	0540268	10/12/88	4500	18.77	Vanguard	NJDEP S-3516
58	0540286	10/12/88	4500	18.77	Vanguard	NJDEP S-3516
59	0540287	10/12/88	5000	20.85	Vanguard	NJDEP S-3516
60	0540284	10/12/88	4500	18.77	Vanguard	NJDEP S-3516
61	0540289	10/13/88	5000	20.85	Vanguard	NJDEP S-3516
62	0540291	10/13/88	5000	20.85	Vanguard	NJDEP S-3516
63	0540288	10/13/88	5500	22.94	Vanguard	NJDEP S-3516
64	0540281	10/13/88	5000	20.85	Vanguard	NJDEP S-3516
65	0540305	10/19/88	5500	22.94	Vanguard	NJDEP S-3516
66	0540306	10/19/88	5000	20.85	Vanguard	NJDEP S-3516
67	0540303	10/19/88	5500	22.94	Vanguard	NJDEP S-3516
68	0540304	10/19/88	5000	20.85	Vanguard	NJDEP S-3516
69	0540307	10/20/88	5500	22.94	Vanguard	NJDEP S-3516
70	0540308	10/20/88	5000	20.85	Vanguard	NJDEP S-3516
71	0540293	10/20/88	5000	20.85	Vanguard	NJDEP S-3516
72	0540294	10/20/88	5000	20.85	Vanguard	NJDEP S-3516
73	0546701	11/01/88	5500	22.94	Vanguard	NJDEP S-3516
74	0546702	11/01/88	5500	22.94	Vanguard	NJDEP S-3516
75	0546704	11/01/88	5000	20.85	Vanguard	NJDEP S-3516
76	0546708	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
77	0546707	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
78	0546706	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
79	0546709	11/02/88	5500	22.94	Vanguard	NJDEP S-3516
80	0546736	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
81	0546731	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
82	0546730	11/03/88	5000	20.85	Vanguard	NJDEP S-3516
83	0546728	11/03/88	2500	10.43	Vanguard	NJDEP S-3516
84	0546737	11/23/88	5500	22.94	Vanguard	NJDEP S-3516
85	0546738	11/23/88	5500	22.94	Vanguard	NJDEP S-3516
86	0546735	11/23/88	5000	20.85	Vanguard	NJDEP S-3516

\* Prefaced by "NJA"

Appendix D-3: Confirmatory Soil Sample Analysis

<u>Sample Area</u> <u>(Fig. 5)</u>	<u>Sample Name</u>
I	FGH 4.5 COMBO
II	FGH 5.5 COMBO
III	EFG 6-7 COMBO
IV	FGH 7.5 COMBO
V	FGH 8.5 COMBO
VI	GH 6-8 COMBO
VII	TARP-1
VIII	SP 1-5
IX	SP 6-10
X	SP 11-15
XI	B-8/6B
XII	B-4/11C
XIII	A-4/8C
XIV	SC 11-13
XV	OB-1
XVI	SC 8-9

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 658-2301

LLI Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	32.1 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112201500
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500
Acid Extractables (Soils)	attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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American Association for  
Laboratory Accreditation  
in Biological & Environmental  
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Our Standard Terms And Conditions

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS





# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2429 New Holland Pike, Lancaster, PA 17601-5886 (717) 698-0000

LLI Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.33 mg/kg		0.33	118600000N
phenol	< 0.33 mg/kg		0.33	118500000N
2-nitrophenol	< 0.33 mg/kg		0.33	065100000N
2,4-dimethylphenol	< 0.33 mg/kg		0.33	064800000N
2,4-dichlorophenol	< 0.33 mg/kg		0.33	064700000N
4-chloro-3-methylphenol	< 0.33 mg/kg		0.33	119000000N
2,4,6-trichlorophenol	< 0.33 mg/kg		0.33	065600000N
2,4-dinitrophenol	< 0.833 mg/kg		0.833	065000000N
4-nitrophenol	< 0.833 mg/kg		0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg		0.833	064900000N
pentachlorophenol	< 0.833 mg/kg		0.833	119400000N

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-6896 (717) 646-2222

III Sample No. SV 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/ 7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000N
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000N
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000N
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000N
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000N
hexachloroethane	< 0.33	mg/kg	0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000N
nitrobenzene	< 0.33	mg/kg	0.33	069600000N
isophorone	< 0.33	mg/kg	0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000N
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000N
naphthalene	1.53	mg/kg	0.33	069500000N
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000N
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000N
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000N
acenaphthylene	< 0.33	mg/kg	0.33	065800000N
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000N
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000N
acenaphthene	1.27	mg/kg	0.33	119100000N
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000N
fluorene	1.00	mg/kg	0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000N
diethyl phthalate	< 0.33	mg/kg	0.33	068000000N
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000N
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000N
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000N
hexachlorobenzene	< 0.33	mg/kg	0.33	039000000N
phenanthrene	2.67	mg/kg	0.33	070000000N

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Lancaster Laboratories, Inc.  
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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5884 (717) 658-2200

LLI Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGB 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
Base Neutrals cont (Soils)	AS RECEIVED		DETECTION	
anthracene	0.70	mg/kg	0.33	065900000N
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000N
fluoranthene	1.53	mg/kg	0.33	068700000N
pyrene	2.33	mg/kg	0.33	119500000N
benzidine	< 0.833	mg/kg	0.833	066000000N
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000N
benzo (a) anthracene	1.03	mg/kg	0.33	066100000N
chrysene	1.37	mg/kg	0.33	067400000N
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000N
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000N
benzo (b) fluoranthene	1.23	mg/kg	0.33	066300000N
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000N
benzo (a) pyrene	0.90	mg/kg	0.33	066200000N
indeno (1,2,3-cd) pyrene	0.47	mg/kg	0.33	069300000N
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000N
benzo (ghi) perylene	0.57	mg/kg	0.33	066400000N

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5004 (717) 650-2201

LLI Sample No. TL 1336019

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co. FGH  
4.5 Combo Composite Soil Sample  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500
Barium	< 0.1 mg/l	0.1	024601300
Cadmium	0.007 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	< 0.05 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 666-2300

LLI Sample No. SV 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	DRY WT. BASIS attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGB 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF DETECTION	LAB CODE
	DRY WT.	BASIS		
Acid Extractables (Soils)				
2-chlorophenol	< 0.50	mg/kg	0.5	118600000N
phenol	< 0.50	mg/kg	0.5	118500000N
2-nitrophenol	< 0.50	mg/kg	0.5	065100000N
2,4-dimethylphenol	< 0.50	mg/kg	0.5	064800000N
2,4-dichlorophenol	< 0.50	mg/kg	0.5	064700000N
4-chloro-3-methylphenol	< 0.50	mg/kg	0.5	119000000N
2,4,6-trichlorophenol	< 0.50	mg/kg	0.5	065600000N
2,4-dinitrophenol	< 1.0	mg/kg	1.	065000000N
4-nitrophenol	< 1.0	mg/kg	1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0	mg/kg	1.	064900000N
pentachlorophenol	< 1.0	mg/kg	1.	119400000N

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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 666-2301

LLT Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT.	BASIS	DETECTION	
Base Neutrals (Soils)	< 0.50	mg/kg	0.5	069700000N
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	066700000N
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	067700000N
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	118700000N
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	067600000N
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	066800000N
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	069200000N
hexachloroethane	< 0.50	mg/kg	0.5	118800000N
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	069600000N
nitrobenzene	< 0.50	mg/kg	0.5	066600000N
isophorone	< 0.50	mg/kg	0.5	118900000N
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	069500000N
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	069000000N
naphthalene	2.25	mg/kg	0.5	069100000N
hexachlorobutadiene	< 0.50	mg/kg	0.5	067200000N
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	065800000N
2-chloronaphthalene	< 0.50	mg/kg	0.5	068100000N
acenaphthylene	< 0.50	mg/kg	0.5	068400000N
dimethyl phthalate	< 0.50	mg/kg	0.5	119100000N
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	119300000N
acenaphthene	1.87	mg/kg	0.5	068800000N
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	067300000N
fluorene	1.47	mg/kg	0.5	068000000N
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	068600000N
diethyl phthalate	< 0.50	mg/kg	0.5	069900000N
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	067000000N
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	068900000N
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	070000000N
hexachlorobenzene	< 0.50	mg/kg	0.5	
phenanthrene	3.93	mg/kg	0.5	

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Lancaster Laboratories, Inc.  
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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 656-2301

LLI Sample No. SW 1336017

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 4.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	1.03	mg/kg	0.5	065900000N
di-n-butyl phthalate	< 0.50	mg/kg	0.5	068200000N
fluoranthene	2.25	mg/kg	0.5	068700000N
pyrene	3.43	mg/kg	0.5	119500000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.50	mg/kg	0.5	067100000N
benzo (a) anthracene	1.52	mg/kg	0.5	066100000N
chrysene	2.02	mg/kg	0.5	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.50	mg/kg	0.5	066900000N
di-n-octyl phthalate	< 0.50	mg/kg	0.5	068500000N
benzo (b) fluoranthene	1.81	mg/kg	0.5	066300000N
benzo (K) fluoranthene	< 0.50	mg/kg	0.5	066500000N
benzo (a) pyrene	1.33	mg/kg	0.5	066200000N
indeno (1,2,3-cd) pyrene	0.69	mg/kg	0.5	069300000N
dibenzo (a,h) anthracene	< 0.50	mg/kg	0.5	067500000N
benzo (ghi) perylene	0.84	mg/kg	0.5	066400000N

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Reviewed and Approved by:

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

425 New Holland Pike, Lancaster, PA 17601-5000

LLI Sample No. SV 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Moisture	40.5	% by wt.	0.1	011101100P
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
Reactivity	see below			112104000P
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.				
Sulfide (Reactivity)	< 50.	mg/kg	50.	112201500P
Cyanide (Reactivity)	< 100.	mg/kg	100.	112301500P
Acid Extractables (Soils)	attached			119817000P
Base Neutrals (Soils)	attached			119929000P
Base Neutrals cont (Soils)	attached			120000000P

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

03464 60.00 060100

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5500

III Sample No. SV 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.33	mg/kg	0.33	118600000P
phenol	< 0.33	mg/kg	0.33	118500000P
2-nitrophenol	< 0.33	mg/kg	0.33	065100000P
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000P
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000P
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	119000000P
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000P
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000P
4-nitrophenol	< 0.833	mg/kg	0.833	119200000P
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000P
pentachlorophenol	< 0.833	mg/kg	0.833	119400000P

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
Fields of Testing



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Our Standard Terms And Conditions



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2807

LLI Sample No. SW 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000P
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000P
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000P
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000P
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000P
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000P
hexachloroethane	< 0.33	mg/kg	0.33	069200000P
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000P
nitrobenzene	< 0.33	mg/kg	0.33	069600000P
isophorone	< 0.33	mg/kg	0.33	069400000P
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000P
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000P
naphthalene	< 0.33	mg/kg	0.33	069500000P
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000P
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000P
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000P
acenaphthylene	< 0.33	mg/kg	0.33	065800000P
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000P
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000P
acenaphthene	< 0.33	mg/kg	0.33	119100000P
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000P
fluorene	< 0.33	mg/kg	0.33	068800000P
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000P
diethyl phthalate	< 0.33	mg/kg	0.33	068000000P
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000P
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000P
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000P
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000P
phenanthrene	< 0.33	mg/kg	0.33	070000000P

1 COPY TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

225 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2201

LLI Sample No. SV 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

	RESULT		LIMIT OF DETECTION	LAB CODE
	AS RECEIVED			
Base Neutrals cont (Soils)				
anthracene	< 0.33	mg/kg	0.33	065900000P
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000P
fluoranthene	< 0.33	mg/kg	0.33	068700000P
pyrene	< 0.33	mg/kg	0.33	119500000P
benzidine	< 0.833	mg/kg	0.833	066000000P
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000P
benzo (a) anthracene	< 0.33	mg/kg	0.33	066100000P
chrysene	< 0.33	mg/kg	0.33	067400000P
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000P
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000P
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000P
benzo (b) fluoranthene	< 0.33	mg/kg	0.33	066300000P
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000P
benzo (a) pyrene	< 0.33	mg/kg	0.33	066200000P
indeno (1,2,3-cd) pyrene	< 0.33	mg/kg	0.33	069300000P
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000P
benzo (ghi) perylene	< 0.33	mg/kg	0.33	066400000P

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. TL 1309495

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co. FGH  
5.5 Combo Composite Soil Sample  
Collected on 09/20/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500P
Barium	0.3 mg/l	0.1	024601300P
Cadmium	< 0.005 mg/l	0.005	024901300P
Chromium	< 0.05 mg/l	0.05	025101300P
Lead	< 0.05 mg/l	0.05	025501300P
Mercury	< 0.0005 mg/l	0.0005	025902500P
Selenium	< 0.02 mg/l	0.02	026402500P
Silver	< 0.01 mg/l	0.01	026601300P

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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ATTN: Jim Husled

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03464 150.00 029000

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

25 New Holland Pike, Lancaster, PA 17604-2000 (717) 399-2000

LLI Sample No. SW 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

### ANALYSIS

Acid Extractables (Soils)  
Base Neutrals (Soils)  
Base Neutrals cont (Soils)

### RESULT DRY WT. BASIS

attached  
attached  
attached

### LIMIT OF DETECTION

LAB CODE  
119817000P  
119929000P  
120000000P

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

1425 New Holland Pike, Lancaster, PA 17601-9888 (717) 399-8500

III Sample No. SW 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

Acid Extractables (Soils)	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 0.60 mg/kg	0.6	118600000P
phenol	< 0.60 mg/kg	0.6	118500000P
2-nitrophenol	< 0.60 mg/kg	0.6	065100000P
2,4-dimethylphenol	< 0.60 mg/kg	0.6	064800000P
2,4-dichlorophenol	< 0.60 mg/kg	0.6	064700000P
4-chloro-3-methylphenol	< 0.60 mg/kg	0.6	119000000P
2,4,6-trichlorophenol	< 0.60 mg/kg	0.6	065600000P
2,4-dinitrophenol	< 1.0 mg/kg	1.	065000000P
4-nitrophenol	< 1.0 mg/kg	1.	119200000P
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg	1.	064900000P
pentachlorophenol	< 1.0 mg/kg	1.	119400000P

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

425 New Holland Pike, Lancaster, PA 17601-5904 (717) 651-9900

LLI Sample No. SW 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. FGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT.	BASIS	DETECTION	
Base Neutrals (Soils)	< 0.60	mg/kg	0.6	069700000P
N-nitrosodimethylamine	< 0.60	mg/kg	0.6	066700000P
bis (2-chloroethyl) ether	< 0.60	mg/kg	0.6	067700000P
1,3-dichlorobenzene	< 0.60	mg/kg	0.6	118700000P
1,4-dichlorobenzene	< 0.60	mg/kg	0.6	067600000P
1,2-dichlorobenzene	< 0.60	mg/kg	0.6	066800000P
bis (2-chloroisopropyl) ether	< 0.60	mg/kg	0.6	069200000P
hexachloroethane	< 0.60	mg/kg	0.6	118800000P
N-nitrosodi-n-propylamine	< 0.60	mg/kg	0.6	069600000P
nitrobenzene	< 0.60	mg/kg	0.6	069400000P
isophorone	< 0.60	mg/kg	0.6	066600000P
bis (2-chloroethoxy) methane	< 0.60	mg/kg	0.6	118900000P
1,2,4-trichlorobenzene	< 0.60	mg/kg	0.6	069500000P
naphthalene	< 0.60	mg/kg	0.6	069000000P
hexachlorobutadiene	< 0.60	mg/kg	0.6	069100000P
hexachlorocyclopentadiene	< 0.60	mg/kg	0.6	067200000P
2-chloronaphthalene	< 0.60	mg/kg	0.6	065800000P
acenaphthylene	< 0.60	mg/kg	0.6	068100000P
dimethyl phthalate	< 0.60	mg/kg	0.6	068400000P
2,6-dinitrotoluene	< 0.60	mg/kg	0.6	119100000P
acenaphthene	< 0.60	mg/kg	0.6	119300000P
2,4-dinitrotoluene	< 0.60	mg/kg	0.6	068800000P
fluorene	< 0.60	mg/kg	0.6	067300000P
4-chlorophenyl phenyl ether	< 0.60	mg/kg	0.6	068000000P
diethyl phthalate	< 0.60	mg/kg	0.6	068600000P
1,2-diphenylhydrazine	< 0.60	mg/kg	0.6	069900000P
N-nitrosodiphenylamine	< 0.60	mg/kg	0.6	067000000P
4-bromophenyl phenyl ether	< 0.60	mg/kg	0.6	068900000P
hexachlorobenzene	< 0.60	mg/kg	0.6	070000000P
phenanthrene	< 0.60	mg/kg	0.6	

1 COPY TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Busled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

23 New Holland Pike, Lancaster, PA 17601-5000

LLI Sample No. SH 1309494

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/ 5/88  
Date Submitted 9/21/88  
Discard Date 11/ 5/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Philadelphia Coke Co. PGH 5.5 Combo Composite Soil  
Collected on 09/20/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.60 mg/kg		0.6	065900000P
di-n-butyl phthalate	< 0.60 mg/kg		0.6	068200000P
fluoranthene	< 0.60 mg/kg		0.6	068700000P
pyrene	< 0.60 mg/kg		0.6	119500000P
benzidine	< 1.0 mg/kg		1.	066000000P
butyl benzyl phthalate	< 0.60 mg/kg		0.6	067100000P
benzo (a) anthracene	< 0.60 mg/kg		0.6	066100000P
chrysene	< 0.60 mg/kg		0.6	067400000P
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000P
bis (2-ethylhexyl) phthalate	< 0.60 mg/kg		0.6	066900000P
di-n-octyl phthalate	< 0.60 mg/kg		0.6	068500000P
benzo (b) fluoranthene	< 0.60 mg/kg		0.6	066300000P
benzo (K) fluoranthene	< 0.60 mg/kg		0.6	066500000P
benzo (a) pyrene	< 0.60 mg/kg		0.6	066200000P
indeno (1,2,3-cd) pyrene	< 0.60 mg/kg		0.6	069300000P
dibenzo (a,h) anthracene	< 0.60 mg/kg		0.6	067500000P
benzo (ghi) perylene	< 0.60 mg/kg		0.6	066400000P

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.	32.6 % by wt.	0.1	011101100P
Reactivity Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.	see below		112104000P
Sulfide (Reactivity)	< 50. mg/kg	50.	112201500P
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500P
Acid Extractables (Soils)	attached		119817000P
Base Neutrals (Soils)	attached		119929000P
Base Neutrals cont (Soils)	attached		120000000P

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ATTN: Julie Via  
ATTN: Jim Husted

03464 60.00 060100

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5894 (717) 656-2301

LLI Sample No. SV 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.33 mg/kg		0.33	118600000P
phenol	< 0.33 mg/kg		0.33	118500000P
2-nitrophenol	< 0.33 mg/kg		0.33	065100000P
2,4-dimethylphenol	< 0.33 mg/kg		0.33	064800000P
2,4-dichlorophenol	< 0.33 mg/kg		0.33	064700000P
4-chloro-3-methylphenol	< 0.33 mg/kg		0.33	119000000P
2,4,6-trichlorophenol	< 0.33 mg/kg		0.33	065600000P
2,4-dinitrophenol	< 0.833 mg/kg		0.833	065000000P
4-nitrophenol	< 0.833 mg/kg		0.833	119200000P
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg		0.833	064900000P
pentachlorophenol	< 0.833 mg/kg		0.833	119400000P

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ATTN: Julie Via  
ATTN: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

Member Association for  
1976, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025



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OUR STANDARD TERMS AND CONDITIONS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33 mg/kg		0.33	069700000P
bis (2-chloroethyl) ether	< 0.33 mg/kg		0.33	066700000P
1,3-dichlorobenzene	< 0.33 mg/kg		0.33	067700000P
1,4-dichlorobenzene	< 0.33 mg/kg		0.33	118700000P
1,2-dichlorobenzene	< 0.33 mg/kg		0.33	067600000P
bis (2-chloroisopropyl) ether	< 0.33 mg/kg		0.33	066800000P
hexachloroethane	< 0.33 mg/kg		0.33	069200000P
N-nitrosodi-n-propylamine	< 0.33 mg/kg		0.33	118800000P
nitrobenzene	< 0.33 mg/kg		0.33	069600000P
isophorone	< 0.33 mg/kg		0.33	069400000P
bis (2-chloroethoxy) methane	< 0.33 mg/kg		0.33	066600000P
1,2,4-trichlorobenzene	< 0.33 mg/kg		0.33	118900000P
naphthalene	0.50 mg/kg		0.33	069500000P
hexachlorobutadiene	< 0.33 mg/kg		0.33	069000000P
hexachlorocyclopentadiene	< 0.33 mg/kg		0.33	069100000P
2-chloronaphthalene	< 0.33 mg/kg		0.33	067200000P
acenaphthylene	< 0.33 mg/kg		0.33	065800000P
dimethyl phthalate	< 0.33 mg/kg		0.33	068100000P
2,6-dinitrotoluene	< 0.33 mg/kg		0.33	068400000P
acenaphthene	< 0.33 mg/kg		0.33	119100000P
2,4-dinitrotoluene	< 0.33 mg/kg		0.33	119300000P
fluorene	< 0.33 mg/kg		0.33	068800000P
4-chlorophenyl phenyl ether	< 0.33 mg/kg		0.33	067300000P
diethyl phthalate	< 0.33 mg/kg		0.33	068000000P
1,2-diphenylhydrazine	< 0.33 mg/kg		0.33	068600000P
N-nitrosodiphenylamine	< 0.33 mg/kg		0.33	069900000P
4-bromophenyl phenyl ether	< 0.33 mg/kg		0.33	067000000P
hexachlorobenzene	< 0.33 mg/kg		0.33	068900000P
phenanthrene	0.53 mg/kg		0.33	070000000P

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ATTN: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

American Association for  
Laboratory Accreditation  
Chemical & Biological Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EPG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.33	mg/kg	0.33	065900000P
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000P
fluoranthene	0.97	mg/kg	0.33	068700000P
pyrene	1.13	mg/kg	0.33	119500000P
benzidine	< 0.833	mg/kg	0.833	066000000P
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000P
benzo (a) anthracene	0.60	mg/kg	0.33	066100000P
chrysene	1.13	mg/kg	0.33	067400000P
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000P
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000P
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000P
benzo (b) fluoranthene	0.77	mg/kg	0.33	066300000P
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000P
benzo (a) pyrene	0.53	mg/kg	0.33	066200000P
indeno (1,2,3-cd) pyrene	< 0.33	mg/kg	0.33	069300000P
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000P
benzo (ghi) perylene	< 0.33	mg/kg	0.33	066400000P

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

2 COPIES TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Julie Via  
ATTN: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Environmental Laboratories Institute



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5984 (717) 656-2301

LLI Sample No. TL 1317666

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EP Toxicity of EFG6-7 Combo Soil

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500P
Barium	0.4 mg/l	0.1	024601300P
Cadmium	0.006 mg/l	0.005	024901300P
Chromium	0.05 mg/l	0.05	025101300P
Lead	< 0.05 mg/l	0.05	025501300P
Mercury	< 0.0005 mg/l	0.0005	025902500P
Selenium	< 0.02 mg/l	0.02	026402500P
Silver	< 0.01 mg/l	0.01	026601300P

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

2 COPIES TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Julie Via  
ATTN: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis

03464 150.00 029000

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

ANALYSIS	RESULT	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	DRY WT. BASIS attached		119817000P
Base Neutrals (Soils)	attached		119929000P
Base Neutrals cont (Soils)	attached		120000000P

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1 COPY TO Philadelphia Coke Company

ATTN: Julie Via  
ATTN: Jim Busted

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2426 NEW HOLLAND PIKE, LANCASTER, PA 17601-5984 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

Acid Extractables (Soils)	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 0.50 mg/kg	0.5	118600000P
phenol	< 0.50 mg/kg	0.5	118500000P
2-nitrophenol	< 0.50 mg/kg	0.5	065100000P
2,4-dimethylphenol	< 0.50 mg/kg	0.5	064800000P
2,4-dichlorophenol	< 0.50 mg/kg	0.5	064700000P
4-chloro-3-methylphenol	< 0.50 mg/kg	0.5	119000000P
2,4,6-trichlorophenol	< 0.50 mg/kg	0.5	065600000P
2,4-dinitrophenol	< 1.0 mg/kg	1.	065000000P
4-nitrophenol	< 1.0 mg/kg	1.	119200000P
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg	1.	064900000P
pentachlorophenol	< 1.0 mg/kg	1.	119400000P

2 COPIES TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Julie Via  
ATTN: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

American Association for  
Quality Accreditation  
Chemical and Biological Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories

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2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	069700000P
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	066700000P
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	067700000P
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	118700000P
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	067600000P
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	066800000P
hexachloroethane	< 0.50	mg/kg	0.5	069200000P
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	118800000P
nitrobenzene	< 0.50	mg/kg	0.5	069600000P
isophorone	< 0.50	mg/kg	0.5	069400000P
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	066600000P
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	118900000P
naphthalene	0.74	mg/kg	0.5	069500000P
hexachlorobutadiene	< 0.50	mg/kg	0.5	069000000P
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	069100000P
2-chloronaphthalene	< 0.50	mg/kg	0.5	067200000P
acenaphthylene	< 0.50	mg/kg	0.5	065800000P
dimethyl phthalate	< 0.50	mg/kg	0.5	068100000P
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	068400000P
acenaphthene	< 0.50	mg/kg	0.5	119100000P
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	119300000P
fluorene	< 0.50	mg/kg	0.5	068800000P
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	067300000P
diethyl phthalate	< 0.50	mg/kg	0.5	068000000P
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	068600000P
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	069900000P
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	067000000P
hexachlorobenzene	< 0.50	mg/kg	0.5	068900000P
phenanthrene	0.79	mg/kg	0.5	070000000P

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1 COPY TO Philadelphia Coke Company

ATTN: Julie Via  
ATTN: Jim Husted

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

American Association for  
Laboratory Accreditation  
Chemical and Biological Fields Institute



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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. SV 1317665

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 10/24/88  
Date Submitted 10/13/88  
Discard Date 11/24/88  
Collected by C  
P.O. 87C2839A-5  
Rel.

Phila. Coke Co. EFG6-7 Combo Soil Sample  
Collected on 10/13/88 at 0900 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.50 mg/kg		0.5	065900000P
di-n-butyl phthalate	< 0.50 mg/kg		0.5	068200000P
fluoranthene	1.44 mg/kg		0.5	068700000P
pyrene	1.68 mg/kg		0.5	119500000P
benzidine	< 1.0 mg/kg		1.	066000000P
butyl benzyl phthalate	< 0.50 mg/kg		0.5	067100000P
benzo (a) anthracene	0.89 mg/kg		0.5	066100000P
chrysene	1.68 mg/kg		0.5	067400000P
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000P
bis (2-ethylhexyl) phthalate	< 0.50 mg/kg		0.5	066900000P
di-n-octyl phthalate	< 0.50 mg/kg		0.5	068500000P
benzo (b) fluoranthene	1.14 mg/kg		0.5	066300000P
benzo (K) fluoranthene	< 0.50 mg/kg		0.5	066500000P
benzo (a) pyrene	0.79 mg/kg		0.5	066200000P
indeno (1,2,3-cd) pyrene	< 0.50 mg/kg		0.5	069300000P
dibenzo (a,h) anthracene	< 0.50 mg/kg		0.5	067500000P
benzo (ghi) perylene	< 0.50 mg/kg		0.5	066400000P

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SW 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	36.0 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112201500
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500
Acid Extractables (Soils)	attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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310 03464 60.00 060100



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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5900 (717) 834-6000

LIT Sample No. SW 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.33 mg/kg		0.33	118600000N
phenol	< 0.33 mg/kg		0.33	118500000N
2-nitrophenol	< 0.33 mg/kg		0.33	065100000N
2,4-dimethylphenol	< 0.33 mg/kg		0.33	064800000N
2,4-dichlorophenol	< 0.33 mg/kg		0.33	064700000N
4-chloro-3-methylphenol	< 0.33 mg/kg		0.33	119000000N
2,4,6-trichlorophenol	< 0.33 mg/kg		0.33	065600000N
2,4-dinitrophenol	< 0.833 mg/kg		0.833	065000000N
4-nitrophenol	< 0.833 mg/kg		0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg		0.833	064900000N
pentachlorophenol	< 0.833 mg/kg		0.833	119400000N

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mfg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33 mg/kg		0.33	069700000N
bis (2-chloroethyl) ether	< 0.33 mg/kg		0.33	066700000N
1,3-dichlorobenzene	< 0.33 mg/kg		0.33	067700000N
1,4-dichlorobenzene	< 0.33 mg/kg		0.33	118700000N
1,2-dichlorobenzene	< 0.33 mg/kg		0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33 mg/kg		0.33	066800000N
hexachloroethane	< 0.33 mg/kg		0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33 mg/kg		0.33	118800000N
nitrobenzene	< 0.33 mg/kg		0.33	069600000N
isophorone	< 0.33 mg/kg		0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33 mg/kg		0.33	066600000N
1,2,4-trichlorobenzene	< 0.33 mg/kg		0.33	118900000N
naphthalene	< 0.33 mg/kg		0.33	069500000N
hexachlorobutadiene	< 0.33 mg/kg		0.33	069000000N
hexachlorocyclopentadiene	< 0.33 mg/kg		0.33	069100000N
2-chloronaphthalene	< 0.33 mg/kg		0.33	067200000N
acenaphthylene	< 0.33 mg/kg		0.33	065800000N
dimethyl phthalate	< 0.33 mg/kg		0.33	068100000N
2,6-dinitrotoluene	< 0.33 mg/kg		0.33	068400000N
acenaphthene	< 0.33 mg/kg		0.33	119100000N
2,4-dinitrotoluene	< 0.33 mg/kg		0.33	119300000N
fluorene	< 0.33 mg/kg		0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33 mg/kg		0.33	067300000N
diethyl phthalate	< 0.33 mg/kg		0.33	068000000N
1,2-diphenylhydrazine	< 0.33 mg/kg		0.33	068600000N
N-nitrosodiphenylamine	< 0.33 mg/kg		0.33	069900000N
4-bromophenyl phenyl ether	< 0.33 mg/kg		0.33	067000000N
hexachlorobenzene	< 0.33 mg/kg		0.33	068900000N
phenanthrene	0.77 mg/kg		0.33	070000000N

1 COPY TO Woodward Clyde Consultants ATTN: Julie Via

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5000 (717) 656-2381

LLI Sample No. SV 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	< 0.33 mg/kg		0.33	065900000N
di-n-butyl phthalate	< 0.33 mg/kg		0.33	068200000N
fluoranthene	0.83 mg/kg		0.33	068700000N
pyrene	1.33 mg/kg		0.33	119500000N
benzidine	< 0.833 mg/kg		0.833	066000000N
butyl benzyl phthalate	< 0.33 mg/kg		0.33	067100000N
benzo (a) anthracene	0.60 mg/kg		0.33	066100000N
chrysene	0.73 mg/kg		0.33	067400000N
3,3'-dichlorobenzidine	< 0.833 mg/kg		0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33 mg/kg		0.33	066900000N
di-n-octyl phthalate	< 0.33 mg/kg		0.33	068500000N
benzo (b) fluoranthene	0.63 mg/kg		0.33	066300000N
benzo (K) fluoranthene	< 0.33 mg/kg		0.33	066500000N
benzo (a) pyrene	0.47 mg/kg		0.33	066200000N
indeno (1,2,3-cd) pyrene	< 0.33 mg/kg		0.33	069300000N
dibenzo (a,h) anthracene	< 0.33 mg/kg		0.33	067500000N
benzo (ghi) perylene	< 0.33 mg/kg		0.33	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5804 (717) 652-2424

III Sample No. TL 1342955

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co.  
FGH 7.5 Combo Composite Soil Sample  
Collected on 12/22/88 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500
Barium	0.3 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	< 0.05 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

*Lancaster Laboratories* INC. INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 858-2301

III Sample No. 57 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

## ANALYSIS

Acid Extractables (Soils)  
Base Neutrals (Soils)  
Base Neutrals cont (Soils)

## RESULT DRY WT. BASIS

attached  
attached  
attached

## LIMIT OF DETECTION

LAB CODE  
119800000  
119900000  
120000000

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Lancaster Laboratories, Inc.  
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Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 658-2301

Sample No. SU 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.50 mg/kg		0.5	118600000N
phenol	< 0.50 mg/kg		0.5	118500000N
2-nitrophenol	< 0.50 mg/kg		0.5	065100000N
2,4-dimethylphenol	< 0.50 mg/kg		0.5	064800000N
2,4-dichlorophenol	< 0.50 mg/kg		0.5	064700000N
4-chloro-3-methylphenol	< 0.50 mg/kg		0.5	119000000N
2,4,6-trichlorophenol	< 0.50 mg/kg		0.5	065600000N
2,4-dinitrophenol	< 1.0 mg/kg		1.	065000000N
4-nitrophenol	< 1.0 mg/kg		1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg		1.	064900000N
pentachlorophenol	< 1.0 mg/kg		1.	119400000N

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SW 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	069700000N
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	066700000N
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	067700000N
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	118700000N
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	067600000N
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	066800000N
hexachloroethane	< 0.50	mg/kg	0.5	069200000N
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	118800000N
nitrobenzene	< 0.50	mg/kg	0.5	069600000N
isophorone	< 0.50	mg/kg	0.5	069400000N
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	066600000N
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	118900000N
naphthalene	< 0.50	mg/kg	0.5	069500000N
hexachlorobutadiene	< 0.50	mg/kg	0.5	069000000N
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	069100000N
2-chloronaphthalene	< 0.50	mg/kg	0.5	067200000N
acenaphthylene	< 0.50	mg/kg	0.5	065800000N
dimethyl phthalate	< 0.50	mg/kg	0.5	068100000N
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	068400000N
acenaphthene	< 0.50	mg/kg	0.5	119100000N
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	119300000N
fluorene	< 0.50	mg/kg	0.5	068800000N
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	067300000N
diethyl phthalate	< 0.50	mg/kg	0.5	068000000N
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	068600000N
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	069900000N
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	067000000N
hexachlorobenzene	< 0.50	mg/kg	0.5	068900000N
phenanthrene	1.20	mg/kg	0.5	070000000N

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SV 1342954

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 1/17/89  
Date Submitted 12/23/88  
Discard Date 2/17/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 7.5 Combo Composite Soil  
Sample  
Collected on 12/22/88 at 1400 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.50	mg/kg	0.5	065900000N
di-n-butyl phthalate	< 0.50	mg/kg	0.5	068200000N
fluoranthene	1.30	mg/kg	0.5	068700000N
pyrene	2.08	mg/kg	0.5	119500000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.50	mg/kg	0.5	067100000N
benzo (a) anthracene	0.94	mg/kg	0.5	066100000N
chrysene	1.14	mg/kg	0.5	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.50	mg/kg	0.5	066900000N
di-n-octyl phthalate	< 0.50	mg/kg	0.5	068500000N
benzo (b) fluoranthene	0.98	mg/kg	0.5	066300000N
benzo (K) fluoranthene	< 0.50	mg/kg	0.5	066500000N
benzo (a) pyrene	0.73	mg/kg	0.5	066200000N
indeno (1,2,3-cd) pyrene	< 0.50	mg/kg	0.5	069300000N
dibenzo (a,h) anthracene	< 0.50	mg/kg	0.5	067500000N
benzo (ghi) perylene	< 0.50	mg/kg	0.5	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2301

LLI Sample No. SW 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	25.8 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112201500
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500
Acid Extractables (Soils)	attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SW 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
Acid Extractables (Soils)	AS RECEIVED		DETECTION	
2-chlorophenol	< 0.33	mg/kg	0.33	118600000N
phenol	< 0.33	mg/kg	0.33	118500000N
2-nitrophenol	< 0.33	mg/kg	0.33	065100000N
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000N
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000N
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	119000000N
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000N
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000N
4-nitrophenol	< 0.833	mg/kg	0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000N
pentachlorophenol	< 0.833	mg/kg	0.833	119400000N

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

LLI Sample No. SV 1336018

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33 mg/kg		0.33	069700000N
bis (2-chloroethyl) ether	< 0.33 mg/kg		0.33	066700000N
1,3-dichlorobenzene	< 0.33 mg/kg		0.33	067700000N
1,4-dichlorobenzene	< 0.33 mg/kg		0.33	118700000N
1,2-dichlorobenzene	< 0.33 mg/kg		0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33 mg/kg		0.33	066800000N
hexachloroethane	< 0.33 mg/kg		0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33 mg/kg		0.33	118800000N
nitrobenzene	< 0.33 mg/kg		0.33	069600000N
isophorone	< 0.33 mg/kg		0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33 mg/kg		0.33	066600000N
1,2,4-trichlorobenzene	< 0.33 mg/kg		0.33	118900000N
naphthalene	< 0.33 mg/kg		0.33	069500000N
hexachlorobutadiene	< 0.33 mg/kg		0.33	069000000N
hexachlorocyclopentadiene	< 0.33 mg/kg		0.33	069100000N
2-chloronaphthalene	< 0.33 mg/kg		0.33	067200000N
acenaphthylene	0.47 mg/kg		0.33	065800000N
dimethyl phthalate	< 0.33 mg/kg		0.33	068100000N
2,6-dinitrotoluene	< 0.33 mg/kg		0.33	068400000N
acenaphthene	0.50 mg/kg		0.33	119100000N
2,4-dinitrotoluene	< 0.33 mg/kg		0.33	119300000N
fluorene	2.57 mg/kg		0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33 mg/kg		0.33	067300000N
diethyl phthalate	< 0.33 mg/kg		0.33	068000000N
1,2-diphenylhydrazine	< 0.33 mg/kg		0.33	068600000N
N-nitrosodiphenylamine	< 0.33 mg/kg		0.33	069900000N
4-bromophenyl phenyl ether	< 0.33 mg/kg		0.33	067000000N
hexachlorobenzene	< 0.33 mg/kg		0.33	068900000N
phenanthrene	11.7 mg/kg		3.3	070000000N

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5884 (717) 658-2301

LLI Sample No. SW 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	1.50 mg/kg		0.33	065900000N
di-n-butyl phthalate	< 0.33 mg/kg		0.33	068200000N
fluoranthene	10.0 mg/kg		3.3	068700000N
pyrene	4.00 mg/kg		0.33	119500000N
benzidine	< 0.833 mg/kg		0.833	066000000N
butyl benzyl phthalate	0.70 mg/kg		0.33	067100000N
benzo (a) anthracene	2.23 mg/kg		0.33	066100000N
chrysene	2.20 mg/kg		0.33	067400000N
3,3'-dichlorobenzidine	< 0.833 mg/kg		0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33 mg/kg		0.33	066900000N
di-n-octyl phthalate	< 0.33 mg/kg		0.33	068500000N
benzo (b) fluoranthene	2.73 mg/kg		0.33	066300000N
benzo (K) fluoranthene	< 0.33 mg/kg		0.33	066500000N
benzo (a) pyrene	1.73 mg/kg		0.33	066200000N
indeno (1,2,3-cd) pyrene	0.97 mg/kg		0.33	069300000N
dibenzo (a,h) anthracene	< 0.33 mg/kg		0.33	067500000N
benzo (ghi) perylene	1.07 mg/kg		0.33	066400000N

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Richard S. Rodgers, B.S.  
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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2301

LLI Sample No. TL 1336020

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co. FGH  
8.5 Combo Composite Soil Sample  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500
Barium	0.2 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	< 0.05 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SV 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/ 7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 37C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

ANALYSIS	RESULT	LIMIT OF	LAB CODE
	DRY WT. BASIS	DETECTION	
Acid Extractables (Soils)	attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SV 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.40	mg/kg	0.4	118600000N
phenol	< 0.40	mg/kg	0.4	118500000N
2-nitrophenol	< 0.40	mg/kg	0.4	065100000N
2,4-dimethylphenol	< 0.40	mg/kg	0.4	064800000N
2,4-dichlorophenol	< 0.40	mg/kg	0.4	064700000N
4-chloro-3-methylphenol	< 0.40	mg/kg	0.4	119000000N
2,4,6-trichlorophenol	< 0.40	mg/kg	0.4	065600000N
2,4-dinitrophenol	< 1.0	mg/kg	1.	065000000N
4-nitrophenol	< 1.0	mg/kg	1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0	mg/kg	1.	064900000N
pentachlorophenol	< 1.0	mg/kg	1.	119400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000N
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000N
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000N
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000N
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000N
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000N
hexachloroethane	< 0.40	mg/kg	0.4	069200000N
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000N
nitrobenzene	< 0.40	mg/kg	0.4	069600000N
isophorone	< 0.40	mg/kg	0.4	069400000N
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000N
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000N
naphthalene	< 0.40	mg/kg	0.4	069500000N
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000N
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000N
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000N
acenaphthylene	0.63	mg/kg	0.4	065800000N
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000N
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000N
acenaphthene	0.67	mg/kg	0.4	119100000N
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000N
fluorene	3.46	mg/kg	0.4	068800000N
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000N
diethyl phthalate	< 0.40	mg/kg	0.4	068000000N
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000N
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000N
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000N
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000N
phenanthrene	15.8	mg/kg	4.	070000000N

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1336018

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 12/29/88  
Date Submitted 12/ 7/88  
Discard Date 1/29/89  
Collected by C  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. FGH 8.5 Combo Composite Soil  
Collected on 12/06/88 at 1500 by JV

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	2.02 mg/kg		0.4	065900000N
di-n-butyl phthalate	< 0.40 mg/kg		0.4	068200000N
fluoranthene	13.5 mg/kg		4.	068700000N
pyrene	5.39 mg/kg		0.4	119500000N
benzidine	< 1.0 mg/kg		1.	066000000N
butyl benzyl phthalate	0.94 mg/kg		0.4	067100000N
benzo (a) anthracene	3.01 mg/kg		0.4	066100000N
chrysene	2.96 mg/kg		0.4	067400000N
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.40 mg/kg		0.4	066900000N
di-n-octyl phthalate	< 0.40 mg/kg		0.4	068500000N
benzo (b) fluoranthene	3.68 mg/kg		0.4	066300000N
benzo (K) fluoranthene	< 0.40 mg/kg		0.4	066500000N
benzo (a) pyrene	2.33 mg/kg		0.4	066200000N
indeno (1,2,3-cd) pyrene	1.31 mg/kg		0.4	069300000N
dibenzo (a,h) anthracene	< 0.40 mg/kg		0.4	067500000N
benzo (ghi) perylene	1.44 mg/kg		0.4	066400000N

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Lancaster Laboratories, Inc.  
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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

**Lancaster Laboratories** INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 658-2301

LLI Sample No. SV 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

ANALYSIS	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Moisture	31.1	% by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
Reactivity	see below			112102000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.				
Sulfide (Reactivity)	< 50.	mg/kg	50.	112204000S
Cyanide (Reactivity)	< 100.	mg/kg	100.	112303000S
Acid Extractables (Soils)	attached			119817500S
Base Neutrals (Soils)	attached			119930000S
Base Neutrals cont (Soils)	attached			120000000S

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis

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Waste Testing

228 03464 55.00 063100



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# ANALYSIS REPORT

## Lancaster Laboratories INC. INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

III Sample No. SW 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

Acid Extractables (Soils)	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
2-chlorophenol	< 0.33 mg/kg	0.33	118600000S
phenol	< 0.33 mg/kg	0.33	118500000S
2-nitrophenol	< 0.33 mg/kg	0.33	065100000S
2,4-dimethylphenol	< 0.33 mg/kg	0.33	064800000S
2,4-dichlorophenol	< 0.33 mg/kg	0.33	064700000S
4-chloro-3-methylphenol	< 0.33 mg/kg	0.33	119000000S
2,4,6-trichlorophenol	< 0.33 mg/kg	0.33	065600000S
2,4-dinitrophenol	< 0.833 mg/kg	0.833	065000000S
4-nitrophenol	< 0.833 mg/kg	0.833	119200000S
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg	0.833	064900000S
pentachlorophenol	< 0.833 mg/kg	0.833	119400000S

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED  
 2025 New Holland Pike, Lancaster, PA 17601-5884 (717) 654-2381

LLI Sample No. SW 1353031

Woodward Clyde Consultants  
 5120 Butler Pike  
 Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
 Date Submitted 1/30/89  
 Discard Date 3/10/89  
 Collected by C  
 P.O. 87C2839A-3  
 Rel.

Philadelphia Coke GB 6-8 Combo Composite Soil Samp  
 Collected on 01/20/89 at 1100 by JV

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		QUANTITATION	
Base Neutrals (Soils)	< 0.33	mg/kg	0.33	069700000S
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	066700000S
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	067700000S
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	118700000S
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	067600000S
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	066800000S
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000S
hexachloroethane	< 0.33	mg/kg	0.33	069200000S
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000S
nitrobenzene	< 0.33	mg/kg	0.33	069600000S
isophorone	< 0.33	mg/kg	0.33	069400000S
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000S
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000S
naphthalene	< 0.33	mg/kg	0.33	069500000S
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000S
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000S
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000S
acenaphthylene	< 0.33	mg/kg	0.33	065800000S
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000S
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000S
acenaphthene	< 0.33	mg/kg	0.33	119100000S
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000S
fluorene	< 0.33	mg/kg	0.33	068800000S
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000S
diethyl phthalate	< 0.33	mg/kg	0.33	068000000S
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000S
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000S
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000S
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000S
phenanthrene	0.77	mg/kg	0.33	070000000S

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 Lancaster Laboratories, Inc.  
 Reviewed and Approved by:

Richard S. Rodgers, B.S.  
 Group Leader, GC/MS

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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2622 New Holland Pike, Lancaster, PA 17601-5084 (717) 650-2301

LLI Sample No. SV 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

Base Neutrals cont (Soils)	RESULT		LIMIT OF	
	AS RECEIVED		QUANTITATION	LAB CODE
anthracene	< 0.33	mg/kg	0.33	065900000S
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000S
fluoranthene	0.47	mg/kg	0.33	068700000S
pyrene	1.17	mg/kg	0.33	119500000S
benzidine	< 0.833	mg/kg	0.833	066000000S
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000S
benzo (a) anthracene	0.47	mg/kg	0.33	066100000S
chrysene	0.80	mg/kg	0.33	067400000S
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000S
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000S
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000S
benzo (b) fluoranthene	0.77	mg/kg	0.33	066300000S
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000S
benzo (a) pyrene	0.57	mg/kg	0.33	066200000S
indeno (1,2,3-cd) pyrene	< 0.33	mg/kg	0.33	069300000S
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000S
benzo (ghi) perylene	< 0.33	mg/kg	0.33	066400000S

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 Mumma Highway, Lancaster, PA 17601-6804 (717) 656-2301

LLI Sample No. IL 1353032

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

EP Toxicity Leachate of Philadelphia Coke GB 6-8  
Combo Composite Soil Sample  
Collected on 01/30/89 at 1100 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Barium	0.2 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	02490130C
Chromium	< 0.05 mg/l	0.05	025101300S
Lead	< 0.05 mg/l	0.05	025501300~
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500s
Silver	< 0.01 mg/l	0.01	026601300S
Arsenic	< 0.05 mg/l	0.05	133501300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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228 03464 150.00 027800

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis





# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 696-2301

LLI Sample No. SW 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.50 mg/kg		0.5	118600000
phenol	< 0.50 mg/kg		0.5	118500000
2-nitrophenol	< 0.50 mg/kg		0.5	065100000S
2,4-dimethylphenol	< 0.50 mg/kg		0.5	064800000S
2,4-dichlorophenol	< 0.50 mg/kg		0.5	064700000L
4-chloro-3-methylphenol	< 0.50 mg/kg		0.5	119000000L
2,4,6-trichlorophenol	< 0.50 mg/kg		0.5	065600000S
2,4-dinitrophenol	< 1.0 mg/kg		1.	065000000L
4-nitrophenol	< 1.0 mg/kg		1.	119200000L
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg		1.	064900000S
pentachlorophenol	< 1.0 mg/kg		1.	119400000S

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5904 (717) 656-2301

LLI Sample No. SV 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

	RESULT		LIMIT OF	
	DRY WT.	BASIS	QUANTITATION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	069700000S
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	066700000S
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	067700000S
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	118700000S
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	067600000S
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	066800000S
hexachloroethane	< 0.50	mg/kg	0.5	069200000S
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	118800000S
nitrobenzene	< 0.50	mg/kg	0.5	069600000S
isophorone	< 0.50	mg/kg	0.5	069400000S
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	066600000S
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	118900000S
naphthalene	< 0.50	mg/kg	0.5	069500000S
hexachlorobutadiene	< 0.50	mg/kg	0.5	069000000S
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	069100000S
2-chloronaphthalene	< 0.50	mg/kg	0.5	067200000S
acenaphthylene	< 0.50	mg/kg	0.5	065800000S
dimethyl phthalate	< 0.50	mg/kg	0.5	068100000S
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	068400000S
acenaphthene	< 0.50	mg/kg	0.5	119100000S
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	119300000S
fluorene	< 0.50	mg/kg	0.5	068800000S
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	067300000S
diethyl phthalate	< 0.50	mg/kg	0.5	068000000S
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	068600000S
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	069900000S
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	067000000S
hexachlorobenzene	< 0.50	mg/kg	0.5	068900000S
phenanthrene	1.12	mg/kg	0.5	070000000S

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5804 (717) 858-2301

LLI Sample No. SW 1353031

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/ 7/89  
Date Submitted 1/30/89  
Discard Date 3/10/89  
Collected by C  
P.O. 87C2839A-3  
Rel.

Philadelphia Coke GH 6-8 Combo Composite Soil Samp  
Collected on 01/20/89 at 1100 by JV

Base Neutrals cont (Soils)	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
anthracene	< 0.50	mg/kg	0.5	065900000S
di-n-butyl phthalate	< 0.50	mg/kg	0.5	068200000S
fluoranthene	0.68	mg/kg	0.5	068700000C
pyrene	1.70	mg/kg	0.5	119500000L
benzidine	< 1.0	mg/kg	1.	066000000S
butyl benzyl phthalate	< 0.50	mg/kg	0.5	067100000
benzo (a) anthracene	0.68	mg/kg	0.5	066100000
chrysene	1.16	mg/kg	0.5	067400000S
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000S
bis (2-ethylhexyl) phthalate	< 0.50	mg/kg	0.5	066900000
di-n-octyl phthalate	< 0.50	mg/kg	0.5	068500000L
benzo (b) fluoranthene	1.12	mg/kg	0.5	066300000S
benzo (K) fluoranthene	< 0.50	mg/kg	0.5	066500000
benzo (a) pyrene	0.83	mg/kg	0.5	066200000
indeno (1,2,3-cd) pyrene	< 0.50	mg/kg	0.5	069300000S
dibenzo (a,h) anthracene	< 0.50	mg/kg	0.5	067500000S
benzo (ghi) perylene	< 0.50	mg/kg	0.5	066400000

1 COPY TO Woodward Clyde Consultants ATTN: Julie P. Via

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Other Lab Services Available  
1970-1981  
Department of Environmental  
Control



Member Since 1970  
Professional Laboratory



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

III Sample No. SW 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

TARP-1  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

ANALYSIS	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Moisture	31.4	% by wt.	0.1	011101650S
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
Reactivity	see below			112106000S
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.				
Sulfide (Reactivity)	< 50.	mg/kg	50.	112202250S
Cyanide (Reactivity)	< 100.	mg/kg	100.	112302250S
Acid Extractables (Soils)		attached		119825500S
Base Neutrals (Soils)		attached		119943500S
Base Neutrals cont (Soils)		attached		120000000S

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ATTN: Vinay Ghanekar

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03464 90.00 090150

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

5120 Butler Pike, Lancaster, PA 17602

LLI Sample No. SW 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

*TARP-1*  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

	RESULT	LIMIT OF	LAB CODE
	AS RECEIVED	DETECTION	
Acid Extractables (Soils)			
2-chlorophenol	< 0.33 mg/kg	0.33	118600000S
phenol	< 0.33 mg/kg	0.33	118500000S
2-nitrophenol	< 0.33 mg/kg	0.33	065100000S
2,4-dimethylphenol	< 0.33 mg/kg	0.33	064800000S
2,4-dichlorophenol	< 0.33 mg/kg	0.33	064700000S
4-chloro-3-methylphenol	< 0.33 mg/kg	0.33	119000000S
2,4,6-trichlorophenol	< 0.33 mg/kg	0.33	065600000S
2,4-dinitrophenol	< 0.833 mg/kg	0.833	065000000S
4-nitrophenol	< 0.833 mg/kg	0.833	119200000S
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg	0.833	064900000S
pentachlorophenol	< 0.833 mg/kg	0.833	119400000S

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

American Association for  
Accreditation  
Biological & Environmental  
Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories

1000 New Holland Pike, Lancaster, PA 17601-5000 (717) 399-8000

LLI Sample No. SW 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

TARP-1  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000S
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000S
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000S
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000S
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000S
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000S
hexachloroethane	< 0.33	mg/kg	0.33	069200000S
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000S
nitrobenzene	< 0.33	mg/kg	0.33	069600000S
isophorone	< 0.33	mg/kg	0.33	069400000S
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000S
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000S
naphthalene	1.50	mg/kg	0.33	069500000S
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000S
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000S
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000S
acenaphthylene	0.57	mg/kg	0.33	065800000S
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000S
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000S
acenaphthene	< 0.33	mg/kg	0.33	119100000S
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000S
fluorene	1.13	mg/kg	0.33	068800000S
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000S
diethyl phthalate	< 0.33	mg/kg	0.33	068000000S
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000S
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000S
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000S
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000S
phenanthrene	6.67	mg/kg	0.33	070000000S

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

LLI Sample No. SW 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted /29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

TARP-1  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

Base Neutrals cont (Soil:)	RESULT AS RECEIVED	UNIT	LIMIT OF DETECTION	LAB CODE
anthracene	1.60	mg/kg	0.33	065900000S
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000S
fluoranthene	7.67	mg/kg	0.33	068700000S
pyrene	6.67	mg/kg	0.33	119500000S
benzidine	< 0.833	mg/kg	0.833	066000000S
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000S
benzo (a) anthracene	3.07	mg/kg	0.33	066100000S
chrysene	4.00	mg/kg	0.33	067400000S
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000S
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000S
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000S
benzo (b) fluoranthene	4.00	mg/kg	0.33	066300000S
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000S
benzo (a) pyrene	2.40	mg/kg	0.33	066200000S
indeno (1,2,3-cd) pyrene	1.77	mg/kg	0.33	069300000S
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000S
benzo (ghi) perylene	1.93	mg/kg	0.33	066400000S

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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Lancaster Laboratories, Inc.  
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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

07/27/88 D 2 2

LLI Sample No. TL 1290742

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

*TARD-1*  
EP Toxicity Leachate Of Philadelphia Coke TP-1  
(CD-8.5')(A-3')(AB-7)(BC-6')(C-10') Composite Soil  
Collected on 07/27/88 at 1430 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024503750S
Barium	< 0.1 mg/l	0.1	024601950S
Cadmium	0.008 mg/l	0.005	024901950S
Chromium	< 0.05 mg/l	0.05	025101950S
Lead	0.06 mg/l	0.05	025501950S
Mercury	< 0.0005 mg/l	0.0005	025903750S
Selenium	< 0.02 mg/l	0.02	026403750S
Silver	< 0.01 mg/l	0.01	026601950S

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

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03464 225.00 043500



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

07/10/77 D 2 2

1000 Hollister Pike, Lancaster, PA 17602

Sample No. SU-1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

TARD-1  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

### ANALYSIS

Acid Extractables (Soils)  
Base Neutrals (Soils)  
Base Neutrals cont (Soils)

### RESULT DRY WT. BASIS

attached  
attached  
attached

### LIMIT OF DETECTION

LAB CODE  
119800000S  
119900000S  
120000000S

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

Member American Council on  
Environmental Education



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

1000 New Holland Pike, Lancaster, PA 17602

LLI Sample No. SV 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

<sup>T990-1</sup>  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

Acid Extractables (Soils)	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 0.50 mg/kg	0.5	118600000S
phenol	< 0.50 mg/kg	0.5	118500000S
2-nitrophenol	< 0.50 mg/kg	0.5	065100000S
2,4-dimethylphenol	< 0.50 mg/kg	0.5	064800000S
2,4-dichlorophenol	< 0.50 mg/kg	0.5	064700000S
4-chloro-3-methylphenol	< 0.50 mg/kg	0.5	119000000S
2,4,6-trichlorophenol	< 0.50 mg/kg	0.5	065600000S
2,4-dinitrophenol	< 1.0 mg/kg	1.	065000000S
4-nitrophenol	< 1.0 mg/kg	1.	119200000S
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg	1.	064900000S
pentachlorophenol	< 1.0 mg/kg	1.	119400000S

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

LLI Sample No. SW 1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

<sup>TARD-1</sup>  
Philadelphia Coke TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	069700000S
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	066700000S
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	067700000S
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	118700000S
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	067600000S
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	066800000S
hexachloroethane	< 0.50	mg/kg	0.5	069200000S
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	118800000S
nitrobenzene	< 0.50	mg/kg	0.5	069600000S
isophorone	< 0.50	mg/kg	0.5	069400000S
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	066600000S
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	118900000S
naphthalene	2.19	mg/kg	0.5	069500000S
hexachlorobutadiene	< 0.50	mg/kg	0.5	069000000S
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	069100000S
2-chloronaphthalene	< 0.50	mg/kg	0.5	067200000S
acenaphthylene	0.83	mg/kg	0.5	065800000S
dimethyl phthalate	< 0.50	mg/kg	0.5	068100000S
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	068400000S
acenaphthene	< 0.50	mg/kg	0.5	119100000S
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	119300000S
fluorene	1.65	mg/kg	0.5	068800000S
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	067300000S
diethyl phthalate	< 0.50	mg/kg	0.5	068000000S
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	068600000S
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	069900000S
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	067000000S
hexachlorobenzene	< 0.50	mg/kg	0.5	068900000S
phenanthrene	9.72	mg/kg	0.5	070000000S

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

Holland Pike, Lancaster, PA 17602

07/27/88 D 2 2

LLI Sample No. SH-1290741

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/16/88  
Date Submitted 7/29/88  
Discard Date 9/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke <sup>TARP-1</sup> TP-1 (CD-8.5')(A-3')(AB-7)(BC-6)  
(C-10) Composite Soil Sample  
Collected on 07/27/88 at 1430 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	2.33 mg/kg		0.5	065900000S
di-n-butyl phthalate	< 0.50 mg/kg		0.5	068200000S
fluoranthene	11.2 mg/kg		0.5	068700000S
pyrene	9.72 mg/kg		0.5	119500000S
benzidine	< 1.0 mg/kg		1.	066000000S
butyl benzyl phthalate	< 0.50 mg/kg		0.5	067100000S
benzo (a) anthracene	4.48 mg/kg		0.5	066100000S
chrysene	5.83 mg/kg		0.5	067400000S
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000S
bis (2-ethylhexyl) phthalate	< 0.50 mg/kg		0.5	066900000S
di-n-octyl phthalate	< 0.50 mg/kg		0.5	068500000S
benzo (b) fluoranthene	5.83 mg/kg		0.5	066300000S
benzo (K) fluoranthene	< 0.50 mg/kg		0.5	066500000S
benzo (a) pyrene	3.50 mg/kg		0.5	066200000S
indeno (1,2,3-cd) pyrene	2.58 mg/kg		0.5	069300000S
dibenzo (a,h) anthracene	< 0.50 mg/kg		0.5	067500000S
benzo (ghi) perylene	2.81 mg/kg		0.5	066400000S

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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ATTN: Vinay Ghanekar

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/ 7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	12.4 % by wt.	0.1	011101650S
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112106000S
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112202250S
Cyanide (Reactivity)	< 100. mg/kg	100.	112302250S
Acid Extractables (Soils)	attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Fields of Testing



03464 90.00 090150

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

Member Association of  
ASTM Accreditation



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5894 (717) 656-2300

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

Acid Extractables (Soils)	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 3.3 mg/kg	3.3	118600000S
phenol	< 3.3 mg/kg	3.3	118500000S
2-nitrophenol	< 3.3 mg/kg	3.3	065100000S
2,4-dimethylphenol	< 3.3 mg/kg	3.3	064800000S
2,4-dichlorophenol	< 3.3 mg/kg	3.3	064700000S
4-chloro-3-methylphenol	< 3.3 mg/kg	3.3	119000000S
2,4,6-trichlorophenol	< 3.3 mg/kg	3.3	065600000S
2,4-dinitrophenol	< 8.33 mg/kg	8.33	065000000S
4-nitrophenol	< 8.33 mg/kg	8.33	119200000S
2-methyl-4,6-dinitrophenol	< 8.33 mg/kg	8.33	064900000S
pentachlorophenol	< 8.33 mg/kg	8.33	119400000S

The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS analysis.

2 COPIES TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Busled

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS





# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

LLI Sample No. SW 1304714

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 3.3	mg/kg	3.3	069700000S
bis (2-chloroethyl) ether	< 3.3	mg/kg	3.3	066700000S
1,3-dichlorobenzene	< 3.3	mg/kg	3.3	067700000S
1,4-dichlorobenzene	< 3.3	mg/kg	3.3	118700000S
1,2-dichlorobenzene	< 3.3	mg/kg	3.3	067600000S
bis (2-chloroisopropyl) ether	< 3.3	mg/kg	3.3	066800000S
hexachloroethane	< 3.3	mg/kg	3.3	069200000S
N-nitrosodi-n-propylamine	< 3.3	mg/kg	3.3	118800000S
nitrobenzene	< 3.3	mg/kg	3.3	069600000S
isophorone	< 3.3	mg/kg	3.3	069400000S
bis (2-chloroethoxy) methane	< 3.3	mg/kg	3.3	066600000S
1,2,4-trichlorobenzene	< 3.3	mg/kg	3.3	118900000S
naphthalene	26.7	mg/kg	3.3	069500000S
hexachlorobutadiene	< 3.3	mg/kg	3.3	069000000S
hexachlorocyclopentadiene	< 3.3	mg/kg	3.3	069100000S
2-chloronaphthalene	< 3.3	mg/kg	3.3	067200000S
acenaphthylene	< 3.3	mg/kg	3.3	065800000S
dimethyl phthalate	< 3.3	mg/kg	3.3	068100000S
2,6-dinitrotoluene	< 3.3	mg/kg	3.3	068400000S
acenaphthene	< 3.3	mg/kg	3.3	119100000S
2,4-dinitrotoluene	< 3.3	mg/kg	3.3	119300000S
fluorene	< 3.3	mg/kg	3.3	068800000S
4-chlorophenyl phenyl ether	< 3.3	mg/kg	3.3	067300000S
diethyl phthalate	< 3.3	mg/kg	3.3	068000000S
1,2-diphenylhydrazine	< 3.3	mg/kg	3.3	068600000S
N-nitrosodiphenylamine	< 3.3	mg/kg	3.3	069900000S
4-bromophenyl phenyl ether	< 3.3	mg/kg	3.3	067000000S
hexachlorobenzene	< 3.3	mg/kg	3.3	068900000S
phenanthrene	8.0	mg/kg	3.3	070000000S

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5224 (717) 398-1001

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 3.3	mg/kg	3.3	065900000S
di-n-butyl phthalate	< 3.3	mg/kg	3.3	068200000S
fluoranthene	8.0	mg/kg	3.3	068700000S
pyrene	7.7	mg/kg	3.3	119500000S
benzidine	< 8.33	mg/kg	8.33	066000000S
butyl benzyl phthalate	< 3.3	mg/kg	3.3	067100000S
benzo (a) anthracene	4.3	mg/kg	3.3	066100000S
chrysene	5.7	mg/kg	3.3	067400000S
3,3'-dichlorobenzidine	< 8.33	mg/kg	8.33	067900000S
bis (2-ethylhexyl) phthalate	< 3.3	mg/kg	3.3	066900000S
di-n-octyl phthalate	< 3.3	mg/kg	3.3	068500000S
benzo (b) fluoranthene	6.0	mg/kg	3.3	066300000S
benzo (K) fluoranthene	< 3.3	mg/kg	3.3	066500000S
benzo (a) pyrene	< 3.3	mg/kg	3.3	066200000S
indeno (1,2,3-cd) pyrene	< 3.3	mg/kg	3.3	069300000S
dibenzo (a,h) anthracene	< 3.3	mg/kg	3.3	067500000S
benzo (ghi) perylene	< 3.3	mg/kg	3.3	066400000S

The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS analysis.

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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ATTN: Jim Husled

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

3425 New Holland Pike, Lancaster, PA 17601-5804 (717) 698-2301

LLI Sample No. TL 1304715

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Company  
SP 1-5 Composite Soil Sample  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024503750S
Barium	< 0.1 mg/l	0.1	024601950S
Cadmium	< 0.005 mg/l	0.005	024901950S
Chromium	< 0.05 mg/l	0.05	025101950S
Lead	0.10 mg/l	0.05	025501950S
Mercury	< 0.0005 mg/l	0.0005	025903750S
Selenium	< 0.02 mg/l	0.02	026403750S
Silver	< 0.01 mg/l	0.01	026601950S

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

03464 225.00 043500

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2435 New Holland Pike, Lancaster, PA 17601-9984 (717) 696-2201

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	DRY WT. BASIS attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

Holland Pk., Lancaster, PA 17602

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

Acid Extractables (Soils)	RESULT		LIMIT OF DETECTION	LAB CODE
	DRY WT.	BASIS		
2-chlorophenol	< 4.0	mg/kg	4.	118600000S
phenol	< 4.0	mg/kg	4.	118500000S
2-nitrophenol	< 4.0	mg/kg	4.	065100000S
2,4-dimethylphenol	< 4.0	mg/kg	4.	064800000S
2,4-dichlorophenol	< 4.0	mg/kg	4.	064700000S
4-chloro-3-methylphenol	< 4.0	mg/kg	4.	119000000S
2,4,6-trichlorophenol	< 4.0	mg/kg	4.	065600000S
2,4-dinitrophenol	< 10.	mg/kg	10.	065000000S
4-nitrophenol	< 10.	mg/kg	10.	119200000S
2-methyl-4,6-dinitrophenol	< 10.	mg/kg	10.	064900000S
pentachlorophenol	< 10.	mg/kg	10.	119400000S

The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS analysis.

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ATTN: Jim Husled

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 666-2001

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 4.0	mg/kg	4.	069700000S
bis (2-chloroethyl) ether	< 4.0	mg/kg	4.	066700000S
1,3-dichlorobenzene	< 4.0	mg/kg	4.	067700000S
1,4-dichlorobenzene	< 4.0	mg/kg	4.	118700000S
1,2-dichlorobenzene	< 4.0	mg/kg	4.	067600000S
bis (2-chloroisopropyl) ether	< 4.0	mg/kg	4.	066800000S
hexachloroethane	< 4.0	mg/kg	4.	069200000S
N-nitrosodi-n-propylamine	< 4.0	mg/kg	4.	118800000S
nitrobenzene	< 4.0	mg/kg	4.	069600000S
isophorone	< 4.0	mg/kg	4.	069400000S
bis (2-chloroethoxy) methane	< 4.0	mg/kg	4.	066600000S
1,2,4-trichlorobenzene	< 4.0	mg/kg	4.	118900000S
naphthalene	30.5	mg/kg	4.	069500000S
hexachlorobutadiene	< 4.0	mg/kg	4.	069000000S
hexachlorocyclopentadiene	< 4.0	mg/kg	4.	069100000S
2-chloronaphthalene	< 4.0	mg/kg	4.	067200000S
acenaphthylene	< 4.0	mg/kg	4.	065800000S
dimethyl phthalate	< 4.0	mg/kg	4.	068100000S
2,6-dinitrotoluene	< 4.0	mg/kg	4.	068400000S
acenaphthene	< 4.0	mg/kg	4.	119100000S
2,4-dinitrotoluene	< 4.0	mg/kg	4.	119300000S
fluorene	< 4.0	mg/kg	4.	068800000S
4-chlorophenyl phenyl ether	< 4.0	mg/kg	4.	067300000S
diethyl phthalate	< 4.0	mg/kg	4.	068000000S
1,2-diphenylhydrazine	< 4.0	mg/kg	4.	068600000S
N-nitrosodiphenylamine	< 4.0	mg/kg	4.	069900000S
4-bromophenyl phenyl ether	< 4.0	mg/kg	4.	067000000S
hexachlorobenzene	< 4.0	mg/kg	4.	068900000S
phenanthrene	9.1	mg/kg	4.	070000000S

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5894 (717) 658-2301

LLI Sample No. SW 1304714

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 1-5 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF DETECTION	LAB CODE
	DRY WT.	BASIS		
Base Neutrals cont (Soils)				
anthracene	< 4.0	mg/kg	4.	065900000S
di-n-butyl phthalate	< 4.0	mg/kg	4.	068200000S
fluoranthene	9.1	mg/kg	4.	068700000S
pyrene	8.8	mg/kg	4.	119500000S
benzidine	< 10.	mg/kg	10.	066000000S
butyl benzyl phthalate	< 4.0	mg/kg	4.	067100000S
benzo (a) anthracene	4.9	mg/kg	4.	066100000S
chrysene	6.5	mg/kg	4.	067400000S
3,3'-dichlorobenzidine	< 10.	mg/kg	10.	067900000S
bis (2-ethylhexyl) phthalate	< 4.0	mg/kg	4.	066900000S
di-n-octyl phthalate	< 4.0	mg/kg	4.	068500000S
benzo (b) fluoranthene	6.8	mg/kg	4.	066300000S
benzo (K) fluoranthene	< 4.0	mg/kg	4.	066500000S
benzo (a) pyrene	< 4.0	mg/kg	4.	066200000S
indeno (1,2,3-cd) pyrene	< 4.0	mg/kg	4.	069300000S
dibenzo (a,h) anthracene	< 4.0	mg/kg	4.	067500000S
benzo (ghi) perylene	< 4.0	mg/kg	4.	066400000S

The usual reporting limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS analysis.

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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ATTN: Vinay Ghanekar  
ATTN: Jim Busled

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Reviewed and Approved by:

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

5120 Butler Pike, Lancaster, PA 17602

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	7.2 % by wt.	0.1	011101650S
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112106000S
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112202250S
Cyanide (Reactivity)	< 100. mg/kg	100.	112302250S
Acid Extractables (Soils)	attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

03464 90.00 090150

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

225 West Holland Pike, Lancaster, PA 17601-5884 (717) 669-2361

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.33	mg/kg	0.33	118600000S
phenol	< 0.33	mg/kg	0.33	118500000S
2-nitrophenol	< 0.33	mg/kg	0.33	065100000S
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000S
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000S
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	119000000S
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000S
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000S
4-nitrophenol	< 0.833	mg/kg	0.833	119200000S
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000S
pentachlorophenol	< 0.833	mg/kg	0.833	119400000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Busled

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

1005 New Holland Pike, Lancaster, PA 17601-6884 (717) 399-2200

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 37C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000S
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000S
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000S
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000S
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000S
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000S
hexachloroethane	< 0.33	mg/kg	0.33	069200000S
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000S
nitrobenzene	< 0.33	mg/kg	0.33	069600000S
isophorone	< 0.33	mg/kg	0.33	069400000S
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000S
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000S
naphthalene	< 0.33	mg/kg	0.33	069500000S
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000S
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000S
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000S
acenaphthylene	< 0.33	mg/kg	0.33	065800000S
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000S
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000S
acenaphthene	< 0.33	mg/kg	0.33	119100000S
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000S
fluorene	< 0.33	mg/kg	0.33	068800000S
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000S
diethyl phthalate	< 0.33	mg/kg	0.33	068000000S
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000S
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000S
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000S
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000S
phenanthrene	< 0.33	mg/kg	0.33	070000000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.33	mg/kg	0.33	065900000S
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000S
fluoranthene	< 0.33	mg/kg	0.33	068700000S
pyrene	< 0.33	mg/kg	0.33	119500000S
benzidine	< 0.833	mg/kg	0.833	066000000S
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000S
benzo (a) anthracene	< 0.33	mg/kg	0.33	066100000S
chrysene	< 0.33	mg/kg	0.33	067400000S
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000S
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000S
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000S
benzo (b) fluoranthene	< 0.33	mg/kg	0.33	066300000S
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000S
benzo (a) pyrene	< 0.33	mg/kg	0.33	066200000S
indeno (1,2,3-cd) pyrene	< 0.33	mg/kg	0.33	069300000S
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000S
benzo (ghi) perylene	< 0.33	mg/kg	0.33	066400000S

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ATTN: Jim Busled

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2301

LLI Sample No. TL 1304717

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Company  
SP 6-10 Composite Soil Sample  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024503750S
Barium	< 0.1 mg/l	0.1	024601950S
Cadmium	< 0.005 mg/l	0.005	024901950S
Chromium	< 0.05 mg/l	0.05	025101950S
Lead	< 0.05 mg/l	0.05	025501950S
Mercury	< 0.0005 mg/l	0.0005	025903750S
Selenium	< 0.02 mg/l	0.02	026403750S
Silver	< 0.01 mg/l	0.01	026601950S

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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ATTN: Jim Husled

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03464 225.00 043500

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

LLI Sample No. SW 1304716

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

ANALYSIS	RESULT	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	DRY WT. BASIS attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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ATTN: Jim Busled

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Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

Acid Extractables (Soils)	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 0.40 mg/kg	0.4	118600000S
phenol	< 0.40 mg/kg	0.4	118500000S
2-nitrophenol	< 0.40 mg/kg	0.4	065100000S
2,4-dimethylphenol	< 0.40 mg/kg	0.4	064800000S
2,4-dichlorophenol	< 0.40 mg/kg	0.4	064700000S
4-chloro-3-methylphenol	< 0.40 mg/kg	0.4	119000000S
2,4,6-trichlorophenol	< 0.40 mg/kg	0.4	065600000S
2,4-dinitrophenol	< 0.90 mg/kg	0.9	065000000S
4-nitrophenol	< 0.90 mg/kg	0.9	119200000S
2-methyl-4,6-dinitrophenol	< 0.90 mg/kg	0.9	064900000S
pentachlorophenol	< 0.90 mg/kg	0.9	119400000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

Woodward Pike, Lancaster, PA 17601

LLI Sample No. SV 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000S
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000S
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000S
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000S
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000S
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000S
hexachloroethane	< 0.40	mg/kg	0.4	069200000S
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000S
nitrobenzene	< 0.40	mg/kg	0.4	069600000S
isophorone	< 0.40	mg/kg	0.4	069400000S
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000S
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000S
naphthalene	< 0.40	mg/kg	0.4	069500000S
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000S
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000S
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000S
acenaphthylene	< 0.40	mg/kg	0.4	065800000S
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000S
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000S
acenaphthene	< 0.40	mg/kg	0.4	119100000S
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000S
fluorene	< 0.40	mg/kg	0.4	068800000S
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000S
diethyl phthalate	< 0.40	mg/kg	0.4	068000000S
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000S
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000S
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000S
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000S
phenanthrene	< 0.40	mg/kg	0.4	070000000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Fields of Testing



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

LLI Sample No. SW 1304716

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 6-10 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.40	mg/kg	0.4	065900000S
di-n-butyl phthalate	< 0.40	mg/kg	0.4	068200000S
fluoranthene	< 0.40	mg/kg	0.4	068700000S
pyrene	< 0.40	mg/kg	0.4	119500000S
benzidine	< 0.90	mg/kg	0.9	066000000S
butyl benzyl phthalate	< 0.40	mg/kg	0.4	067100000S
benzo (a) anthracene	< 0.40	mg/kg	0.4	066100000S
chrysene	< 0.40	mg/kg	0.4	067400000S
3,3'-dichlorobenzidine	< 0.90	mg/kg	0.9	067900000S
bis (2-ethylhexyl) phthalate	< 0.40	mg/kg	0.4	066900000S
di-n-octyl phthalate	< 0.40	mg/kg	0.4	068500000S
benzo (b) fluoranthene	< 0.40	mg/kg	0.4	066300000S
benzo (K) fluoranthene	< 0.40	mg/kg	0.4	066500000S
benzo (a) pyrene	< 0.40	mg/kg	0.4	066200000S
indeno (1,2,3-cd) pyrene	< 0.40	mg/kg	0.4	069300000S
dibenzo (a,h) anthracene	< 0.40	mg/kg	0.4	067500000S
benzo (ghi) perylene	< 0.40	mg/kg	0.4	066400000S

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601

Sample No. SW 13047

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 11-15 Composite Soil  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	13.4 % by wt.	0.1	011101250
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112101000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 300 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	( 50. mg/kg	50.	112202250
Cyanide (Reactivity)	( 100. mg/kg	100.	112307750
Acid Extractables (Soils)	attached		119821000
Base Neutrals (Soils)	attached		119943500
Base Neutrals cont (Soils)	attached		120000000

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03464 90.00 090150

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Gostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1304718

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 11-15 Composite Soil  
Collected on 09/07/88 at 0800 by AL

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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ATTN: Jim Husled

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1304718

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 11-15 Composite Soil  
Collected on 09/07/88 at 0800 by AL

Acid Extractables (Soils)	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
2-chlorophenol	< 0.40 mg/kg	0.4	118600000S
phenol	< 0.40 mg/kg	0.4	118500000S
2-nitrophenol	< 0.40 mg/kg	0.4	065100000S
2,4-dimethylphenol	< 0.40 mg/kg	0.4	064800000S
2,4-dichlorophenol	< 0.40 mg/kg	0.4	064700000S
4-chloro-3-methylphenol	< 0.40 mg/kg	0.4	119000000S
2,4,6-trichlorophenol	< 0.40 mg/kg	0.4	065600000S
2,4-dinitrophenol	< 1.0 mg/kg	1.	065000000S
4-nitrophenol	< 1.0 mg/kg	1.	119200000S
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg	1.	064900000S
pentachlorophenol	< 1.0 mg/kg	1.	119400000S

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ATTN: Jim Husled

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

425 New Holland Pike, Lancaster, PA 17601-5984 (717) 399-3301

LLI Sample No. SV 1304718

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 11-15 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000S
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000S
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000S
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000S
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000S
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000S
hexachloroethane	< 0.40	mg/kg	0.4	069200000S
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000S
nitrobenzene	< 0.40	mg/kg	0.4	069600000S
isophorone	< 0.40	mg/kg	0.4	069400000S
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000S
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000S
naphthalene	0.54	mg/kg	0.4	069500000S
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000S
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000S
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000S
acenaphthylene	< 0.40	mg/kg	0.4	065800000S
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000S
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000S
acenaphthene	< 0.40	mg/kg	0.4	119100000S
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000S
fluorene	< 0.40	mg/kg	0.4	068800000S
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000S
diethyl phthalate	< 0.40	mg/kg	0.4	068000000S
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000S
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000S
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000S
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000S
phenanthrene	1.07	mg/kg	0.4	070000000S

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ATTN: Vinay Ghanekar  
ATTN: Jim Husled

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

Rolland Plaza, Lancaster, PA 17601

LLI Sample No. SW 1304718

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 9/15/88  
Date Submitted 9/7/88  
Discard Date 10/16/88  
Collected by AL  
P.O. 87C2839A  
Rel.

Philadelphia Coke Company SP 11-15 Composite Soil  
Collected on 09/07/88 at 0800 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 0.40 mg/kg		0.4	065900000S
di-n-butyl phthalate	< 0.40 mg/kg		0.4	068200000S
fluoranthene	1.47 mg/kg		0.4	068700000S
pyrene	2.51 mg/kg		0.4	119500000S
benzidine	< 1.0 mg/kg		1.	066000000S
butyl benzyl phthalate	< 0.40 mg/kg		0.4	067100000S
benzo (a) anthracene	1.07 mg/kg		0.4	066100000S
chrysene	1.65 mg/kg		0.4	067400000S
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000S
bis (2-ethylhexyl) phthalate	< 0.40 mg/kg		0.4	066900000S
di-n-octyl phthalate	< 0.40 mg/kg		0.4	068500000S
benzo (b) fluoranthene	1.62 mg/kg		0.4	066300000S
benzo (K) fluoranthene	< 0.40 mg/kg		0.4	066500000S
benzo (a) pyrene	0.81 mg/kg		0.4	066200000S
indeno (1,2,3-cd) pyrene	0.50 mg/kg		0.4	069300000S
dibenzo (a,h) anthracene	< 0.40 mg/kg		0.4	067500000S
benzo (ghi) perylene	0.50 mg/kg		0.4	066400000S

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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1 COPY TO Philadelphia Coke Company

ATTN: Vinay Ghanekar  
ATTN: Jim Busled

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

220 New Holland Pike, Lancaster, PA 17601-9900

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	24.8 % by wt.	0.1	011101650S
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112106000S
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	240. mg/kg	50.	112202250S
Cyanide (Reactivity)	< 100. mg/kg	100.	112302250S
Acid Extractables (Soils)	attached		119825500S
Base Neutrals (Soils)	attached		119943500S
Base Neutrals cont (Soils)	attached		120000000S

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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03464 90.00 090150



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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

1200 New Holland Pike, Lancaster, PA 17601

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 1.7 mg/kg		1.7	118600000S
phenol	< 1.7 mg/kg		1.7	118500000S
2-nitrophenol	< 1.7 mg/kg		1.7	065100000S
2,4-dimethylphenol	< 1.7 mg/kg		1.7	064800000S
2,4-dichlorophenol	< 1.7 mg/kg		1.7	064700000S
4-chloro-3-methylphenol	< 1.7 mg/kg		1.7	119000000S
2,4,6-trichlorophenol	< 1.7 mg/kg		1.7	065600000S
2,4-dinitrophenol	< 4.17 mg/kg		4.17	065000000S
4-nitrophenol	< 4.17 mg/kg		4.17	119200000S
2-methyl-4,6-dinitrophenol	< 4.17 mg/kg		4.17	064900000S
pentachlorophenol	< 4.17 mg/kg		4.17	119400000S

The reporting limit for this sample was increased due to the nature of the sample matrix.

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

Holland Pike, Lancaster, PA 17601

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 1.7	mg/kg	1.7	069700000S
bis (2-chloroethyl) ether	< 1.7	mg/kg	1.7	066700000S
1,3-dichlorobenzene	< 1.7	mg/kg	1.7	067700000S
1,4-dichlorobenzene	< 1.7	mg/kg	1.7	118700000S
1,2-dichlorobenzene	< 1.7	mg/kg	1.7	067600000S
bis (2-chloroisopropyl) ether	< 1.7	mg/kg	1.7	066800000S
hexachloroethane	< 1.7	mg/kg	1.7	069200000S
N-nitrosodi-n-propylamine	< 1.7	mg/kg	1.7	118800000S
nitrobenzene	< 1.7	mg/kg	1.7	069600000S
isophorone	< 1.7	mg/kg	1.7	069400000S
bis (2-chloroethoxy) methane	< 1.7	mg/kg	1.7	066600000S
1,2,4-trichlorobenzene	< 1.7	mg/kg	1.7	118900000S
naphthalene	10.7	mg/kg -	1.7	069500000S
hexachlorobutadiene	< 1.7	mg/kg	1.7	069000000S
hexachlorocyclopentadiene	< 1.7	mg/kg	1.7	069100000S
2-chloronaphthalene	< 1.7	mg/kg	1.7	067200000S
acenaphthylene	< 1.7	mg/kg	1.7	065800000S
dimethyl phthalate	< 1.7	mg/kg	1.7	068100000S
2,6-dinitrotoluene	< 1.7	mg/kg	1.7	068400000S
acenaphthene	< 1.7	mg/kg	1.7	119100000S
2,4-dinitrotoluene	< 1.7	mg/kg	1.7	119300000S
fluorene	< 1.7	mg/kg	1.7	068800000S
4-chlorophenyl phenyl ether	< 1.7	mg/kg	1.7	067300000S
diethyl phthalate	< 1.7	mg/kg	1.7	068000000S
1,2-diphenylhydrazine	< 1.7	mg/kg	1.7	068600000S
N-nitrosodiphenylamine	< 1.7	mg/kg	1.7	069900000S
4-bromophenyl phenyl ether	< 1.7	mg/kg	1.7	067000000S
hexachlorobenzene	< 1.7	mg/kg	1.7	068900000S
phenanthrene	3.0	mg/kg	1.7	070000000S

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

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02-0826 D 3 2

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 1.7	mg/kg	1.7	065900000S
di-n-butyl phthalate	< 1.7	mg/kg	1.7	068200000S
fluoranthene	2.17	mg/kg -	0.33	068700000S
pyrene	2.17	mg/kg -	0.33	119500000S
benzidine	< 4.17	mg/kg	4.17	066000000S
butyl benzyl phthalate	< 1.7	mg/kg	1.7	067100000S
benzo (a) anthracene	< 1.7	mg/kg	1.7	066100000S
chrysene	< 1.7	mg/kg	1.7	067400000S
3,3'-dichlorobenzidine	< 4.17	mg/kg	4.17	067900000S
bis (2-ethylhexyl) phthalate	< 1.7	mg/kg	1.7	066900000S
di-n-octyl phthalate	< 1.7	mg/kg	1.7	068500000S
benzo (b) fluoranthene	< 1.7	mg/kg	1.7	066300000S
benzo (K) fluoranthene	< 1.7	mg/kg	1.7	066500000S
benzo (a) pyrene	< 1.7	mg/kg	1.7	066200000S
indeno (1,2,3-cd) pyrene	< 1.7	mg/kg	1.7	069300000S
dibenzo (a,h) anthracene	< 1.7	mg/kg	1.7	067500000S
benzo (ghi) perylene	< 1.7	mg/kg	1.7	066400000S

The reporting limit(s) for this sample were increased due to the nature of the sample matrix.

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

125 New Holland Pike, Lancaster, PA 17601-6000

LLI Sample No. TL 1295279

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co.  
Remediation B-8/68 Composite Soil Sample  
Collected on 08/10/88 at 1200 by AB

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024503750S
Barium	0.2 mg/l	0.1	024601950S
Cadmium	< 0.005 mg/l	0.005	024901950S
Chromium	< 0.05 mg/l	0.05	025101950S
Lead	< 0.05 mg/l	0.05	025501950S
Mercury	< 0.0005 mg/l	0.0005	025903750S
Selenium	< 0.02 mg/l	0.02	026403750S
Silver	< 0.01 mg/l	0.01	026601950S

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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ATTN: Attn: Jim Husted

03464 225.00 043500

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Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

1700 Mollard Pike, Lancaster, PA 17603

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	attached		119800000S
Base Neutrals (Soils)	attached		119900000S
Base Neutrals cont (Soils)	attached		120000000S

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1 COPY TO Philadelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

25 New Holland Pike, Lancaster, PA 17602

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT		LIMIT OF	LAB CODE
Acid Extractables (Soils)	DRY WT.	BASIS	DETECTION	
2-chlorophenol	< 2.0	mg/kg	2.	118600000S
phenol	< 2.0	mg/kg	2.	118500000S
2-nitrophenol	< 2.0	mg/kg	2.	065100000S
2,4-dimethylphenol	< 2.0	mg/kg	2.	064800000S
2,4-dichlorophenol	< 2.0	mg/kg	2.	064700000S
4-chloro-3-methylphenol	< 2.0	mg/kg	2.	119000000S
2,4,6-trichlorophenol	< 2.0	mg/kg	2.	065600000S
2,4-dinitrophenol	< 6.0	mg/kg	6.	065000000S
4-nitrophenol	< 6.0	mg/kg	6.	119200000S
2-methyl-4,6-dinitrophenol	< 6.0	mg/kg	6.	064900000S
pentachlorophenol	< 6.0	mg/kg	6.	119400000S

The reporting limit for this sample was increased due to the nature of the sample matrix.

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

425 New Holland Pike, Lancaster, PA 17601-5004 (717) 666-2301

LLI Sample No. SW 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 2.0	mg/kg	2.	069700000S
bis (2-chloroethyl) ether	< 2.0	mg/kg	2.	066700000S
1,3-dichlorobenzene	< 2.0	mg/kg	2.	067700000S
1,4-dichlorobenzene	< 2.0	mg/kg	2.	118700000S
1,2-dichlorobenzene	< 2.0	mg/kg	2.	067600000S
bis (2-chloroisopropyl) ether	< 2.0	mg/kg	2.	066800000S
hexachloroethane	< 2.0	mg/kg	2.	069200000S
N-nitrosodi-n-propylamine	< 2.0	mg/kg	2.	118800000S
nitrobenzene	< 2.0	mg/kg	2.	069600000S
isophorone	< 2.0	mg/kg	2.	069400000S
bis (2-chloroethoxy) methane	< 2.0	mg/kg	2.	066600000S
1,2,4-trichlorobenzene	< 2.0	mg/kg	2.	118900000S
naphthalene	14.2	mg/kg	2.	069500000S
hexachlorobutadiene	< 2.0	mg/kg	2.	069000000S
hexachlorocyclopentadiene	< 2.0	mg/kg	2.	069100000S
2-chloronaphthalene	< 2.0	mg/kg	2.	067200000S
acenaphthylene	< 2.0	mg/kg	2.	065800000S
dimethyl phthalate	< 2.0	mg/kg	2.	068100000S
2,6-dinitrotoluene	< 2.0	mg/kg	2.	068400000S
acenaphthene	< 2.0	mg/kg	2.	119100000S
2,4-dinitrotoluene	< 2.0	mg/kg	2.	119300000S
fluorene	< 2.0	mg/kg	2.	068800000S
4-chlorophenyl phenyl ether	< 2.0	mg/kg	2.	067300000S
diethyl phthalate	< 2.0	mg/kg	2.	068000000S
1,2-diphenylhydrazine	< 2.0	mg/kg	2.	068600000S
N-nitrosodiphenylamine	< 2.0	mg/kg	2.	069900000S
4-bromophenyl phenyl ether	< 2.0	mg/kg	2.	067000000S
hexachlorobenzene	< 2.0	mg/kg	2.	068900000S
phenanthrene	4.0	mg/kg	2.	070000000S

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

25 New Holland Pike, Lancaster, PA 17601-6006

III Sample No. SV 1295278

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/19/88  
Date Submitted 8/11/88  
Discard Date 9/19/88  
Collected by AB  
P.O. 87C2839  
Rel.

Philadelphia Coke Co./Remediation B-8/68 Composite  
Soil Sample  
Collected on 08/10/88 at 1200 by AB

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	< 2.0	mg/kg	2.	065900000S
di-n-butyl phthalate	< 2.0	mg/kg	2.	068200000S
fluoranthene	2.89	mg/kg	0.4	068700000S
pyrene	2.89	mg/kg	0.4	119500000S
benzidine	< 6.0	mg/kg	6.	066000000S
butyl benzyl phthalate	< 2.0	mg/kg	2.	067100000S
benzo (a) anthracene	< 2.0	mg/kg	2.	066100000S
chrysene	< 2.0	mg/kg	2.	067400000S
3,3'-dichlorobenzidine	< 6.0	mg/kg	6.	067900000S
bis (2-ethylhexyl) phthalate	< 2.0	mg/kg	2.	066900000S
di-n-octyl phthalate	< 2.0	mg/kg	2.	068500000S
benzo (b) fluoranthene	< 2.0	mg/kg	2.	066300000S
benzo (K) fluoranthene	< 2.0	mg/kg	2.	066500000S
benzo (a) pyrene	< 2.0	mg/kg	2.	066200000S
indeno (1,2,3-cd) pyrene	< 2.0	mg/kg	2.	069300000S
dibenzo (a,h) anthracene	< 2.0	mg/kg	2.	067500000S
benzo (ghi) perylene	< 2.0	mg/kg	2.	066400000S

The reporting limit(s) for this sample were increased due to the nature of the sample matrix.

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5104 (717) 652-2301

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Moisture	30.0	% by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
Reactivity	see below			112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.				
Sulfide (Reactivity)	< 50.	mg/kg	50.	112201500
Cyanide (Reactivity)	< 100.	mg/kg	100.	112301500
Acid Extractables (Soils)	attached			119817000
Base Neutrals (Soils)	attached			119929000
Base Neutrals cont (Soils)	attached			120000000

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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03464 60.00 060100

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5894 (717) 658-2301

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.33	mg/kg	0.33	118600000N
phenol	< 0.33	mg/kg	0.33	118500000N
2-nitrophenol	< 0.33	mg/kg	0.33	065100000N
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000N
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000N
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	119000000N
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000N
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000N
4-nitrophenol	< 0.833	mg/kg	0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000N
pentachlorophenol	< 0.833	mg/kg	0.833	119400000N

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1 COPY TO Philadelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS





# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
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Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB-CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000N
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000N
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000N
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000N
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000N
hexachloroethane	< 0.33	mg/kg	0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000N
nitrobenzene	< 0.33	mg/kg	0.33	069600000N
isophorone	< 0.33	mg/kg	0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000N
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000N
naphthalene	1.93	mg/kg	0.33	069500000N
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000N
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000N
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000N
acenaphthylene	< 0.33	mg/kg	0.33	065800000N
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000N
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000N
acenaphthene	0.97	mg/kg	0.33	119100000N
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000N
fluorene	0.67	mg/kg	0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000N
diethyl phthalate	< 0.33	mg/kg	0.33	068000000N
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000N
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000N
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000N
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000N
phenanthrene	2.53	mg/kg	0.33	070000000N

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5804 (717) 658-2301

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals cont (Soils)				
anthracene	0.73	mg/kg	0.33	065900000N
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000N
fluoranthene	2.23	mg/kg	0.33	068700000N
pyrene	2.80	mg/kg	0.33	119500000N
benzidine	< 0.833	mg/kg	0.833	066000000N
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000N
benzo (a) anthracene	1.73	mg/kg	0.33	066100000N
chrysene	2.50	mg/kg	0.33	067400000N
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000N
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000N
benzo (b) fluoranthene	2.00	mg/kg	0.33	066300000N
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000N
benzo (a) pyrene	1.27	mg/kg	0.33	066200000N
indeno (1,2,3-cd) pyrene	0.57	mg/kg	0.33	069300000N
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000N
benzo (ghi) perylene	0.70	mg/kg	0.33	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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1 COPY TO Philidelphia Coke Co.

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

25000 Holland Pike, Lancaster, PA 17601

LLI Sample No. TL 1297303

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

EP Toxicity Leachate Philadelphia Coke Co. B4/11C  
Composite Soil Sample  
Collected on 08/16/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	0.06 mg/l	0.05	024502500
Barium	0.2 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	< 0.05 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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Group Leader, Inorganics

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5884 (717) 656-2301

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	attached		119800000
Base Neutrals (Soils)	attached		119900000
Base Neutrals cont (Soils)	attached		120000000

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Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories

Holland Pike, Lancaster, PA 17602

III Sample No. SU 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.50	mg/kg	0.5	118600000N
phenol	< 0.50	mg/kg	0.5	118500000N
2-nitrophenol	< 0.50	mg/kg	0.5	065100000N
2,4-dimethylphenol	< 0.50	mg/kg	0.5	064800000N
2,4-dichlorophenol	< 0.50	mg/kg	0.5	064700000N
4-chloro-3-methylphenol	< 0.50	mg/kg	0.5	119000000N
2,4,6-trichlorophenol	< 0.50	mg/kg	0.5	065600000N
2,4-dinitrophenol	< 1.0	mg/kg	1.	065000000N
4-nitrophenol	< 1.0	mg/kg	1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0	mg/kg	1.	064900000N
pentachlorophenol	< 1.0	mg/kg	1.	119400000N

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2301

LLI Sample No. SV 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.50	mg/kg	0.5	069700000N
bis (2-chloroethyl) ether	< 0.50	mg/kg	0.5	066700000N
1,3-dichlorobenzene	< 0.50	mg/kg	0.5	067700000N
1,4-dichlorobenzene	< 0.50	mg/kg	0.5	118700000N
1,2-dichlorobenzene	< 0.50	mg/kg	0.5	067600000N
bis (2-chloroisopropyl) ether	< 0.50	mg/kg	0.5	066800000N
hexachloroethane	< 0.50	mg/kg	0.5	069200000N
N-nitrosodi-n-propylamine	< 0.50	mg/kg	0.5	118800000N
nitrobenzene	< 0.50	mg/kg	0.5	069600000N
isophorone	< 0.50	mg/kg	0.5	069400000N
bis (2-chloroethoxy) methane	< 0.50	mg/kg	0.5	066600000N
1,2,4-trichlorobenzene	< 0.50	mg/kg	0.5	118900000N
naphthalene	2.76	mg/kg	0.5	069500000N
hexachlorobutadiene	< 0.50	mg/kg	0.5	069000000N
hexachlorocyclopentadiene	< 0.50	mg/kg	0.5	069100000N
2-chloronaphthalene	< 0.50	mg/kg	0.5	067200000N
acenaphthylene	< 0.50	mg/kg	0.5	065800000N
dimethyl phthalate	< 0.50	mg/kg	0.5	068100000N
2,6-dinitrotoluene	< 0.50	mg/kg	0.5	068400000N
acenaphthene	1.39	mg/kg	0.5	119100000N
2,4-dinitrotoluene	< 0.50	mg/kg	0.5	119300000N
fluorene	0.96	mg/kg	0.5	068800000N
4-chlorophenyl phenyl ether	< 0.50	mg/kg	0.5	067300000N
diethyl phthalate	< 0.50	mg/kg	0.5	068000000N
1,2-diphenylhydrazine	< 0.50	mg/kg	0.5	068600000N
N-nitrosodiphenylamine	< 0.50	mg/kg	0.5	069900000N
4-bromophenyl phenyl ether	< 0.50	mg/kg	0.5	067000000N
hexachlorobenzene	< 0.50	mg/kg	0.5	068900000N
phenanthrene	3.61	mg/kg	0.5	070000000N

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1 COPY TO Philidelphia Coke Co.

ATTN: Vinay Ghanekar  
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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5984 (717) 658-2301

LLI Sample No. SW 1297294

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. B-4/11C Composite Soil Samp  
Collected on 08/15/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
Base Neutrals cont (Soils)	DRY WT.	BASIS	DETECTION	
anthracene	1.04	mg/kg	0.5	065900000N
di-n-butyl phthalate	< 0.50	mg/kg	0.5	068200000N
fluoranthene	3.19	mg/kg	0.5	068700000N
pyrene	4.00	mg/kg	0.5	119500000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.50	mg/kg	0.5	067100000N
benzo (a) anthracene	2.47	mg/kg	0.5	066100000N
chrysene	3.57	mg/kg	0.5	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.50	mg/kg	0.5	066900000N
di-n-octyl phthalate	< 0.50	mg/kg	0.5	068500000N
benzo (b) fluoranthene	2.86	mg/kg	0.5	066300000N
benzo (K) fluoranthene	< 0.50	mg/kg	0.5	066500000N
benzo (a) pyrene	1.81	mg/kg	0.5	066200000N
indeno (1,2,3-cd) pyrene	0.81	mg/kg	0.5	069300000N
dibenzo (a,h) anthracene	< 0.50	mg/kg	0.5	067500000N
benzo (ghi) perylene	1.00	mg/kg	0.5	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

181421 D 3 12

LLI Sample No. SW 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	17.1 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity	see below		112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	140. mg/kg	50.	112201500
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500
Acid Extractables (Soils)	attached		119817000
Base Neutrals (Soils)	attached		119929000
Base Neutrals cont (Soils)	attached		120000000

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Group Leader, Inorganics





# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 658-2301

LLI Sample No. SW 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.33 mg/kg		0.33	118600000N
phenol	< 0.33 mg/kg		0.33	118500000N
2-nitrophenol	< 0.33 mg/kg		0.33	065100000N
2,4-dimethylphenol	< 0.33 mg/kg		0.33	064800000N
2,4-dichlorophenol	< 0.33 mg/kg		0.33	064700000N
4-chloro-3-methylphenol	< 0.33 mg/kg		0.33	119000000N
2,4,6-trichlorophenol	< 0.33 mg/kg		0.33	065600000N
2,4-dinitrophenol	< 0.833 mg/kg		0.833	065000000N
4-nitrophenol	< 0.833 mg/kg		0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg		0.833	064900000N
pentachlorophenol	< 0.833 mg/kg		0.833	119400000N

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5304 (717) 652-4500

LLI Sample No. SV 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000N
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000N
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000N
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000N
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000N
hexachloroethane	< 0.33	mg/kg	0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000N
nitrobenzene	< 0.33	mg/kg	0.33	069600000N
isophorone	< 0.33	mg/kg	0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000N
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000N
naphthalene	2.00	mg/kg	0.33	069500000N
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000N
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000N
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000N
acenaphthylene	< 0.33	mg/kg	0.33	065800000N
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000N
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000N
acenaphthene	0.73	mg/kg	0.33	119100000N
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000N
fluorene	0.87	mg/kg	0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000N
diethyl phthalate	< 0.33	mg/kg	0.33	068000000N
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000N
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000N
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000N
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000N
phenanthrene	1.70	mg/kg	0.33	070000000N

2 COPIES TO Woodward Clyde Consultants  
1 COPY TO Philadelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Chemical, Biological & Environmental  
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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

Woodward Pike, Lancaster, PA 17602

LLI Sample No. SV 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	0.50	mg/kg	0.33	065900000N
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000N
fluoranthene	2.83	mg/kg	0.33	068700000N
pyrene	1.90	mg/kg	0.33	119500000N
benzidine	< 0.833	mg/kg	0.833	066000000N
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000N
benzo (a) anthracene	1.00	mg/kg	0.33	066100000N
chrysene	1.30	mg/kg	0.33	067400000N
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000N
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000N
benzo (b) fluoranthene	1.03	mg/kg	0.33	066300000N
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000N
benzo (a) pyrene	0.63	mg/kg	0.33	066200000N
indeno (1,2,3-cd) pyrene	0.37	mg/kg	0.33	069300000N
dibenzo (a,h) anthracene	< 0.33	mg/kg	0.33	067500000N
benzo (ghi) perylene	0.40	mg/kg	0.33	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
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Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5884 (717) 858-2201

LLI Sample No. TL 1297302

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

EP Toxicity Leachate Philadelphia Coke Co. A4/8C  
Composite Soil Sample  
Collected on 08/16/88 at 1200 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500
Barium	< 0.1 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	< 0.05 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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03464 150.00 029000

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5504 (717) 659-2291

LLI Sample No. SW 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
Acid Extractables (Soils)	attached		119800000
Base Neutrals (Soils)	attached		119900000
Base Neutrals cont (Soils)	attached		120000000

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1 COPY TO Philidelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5904 (717) 399-5301

LLI Sample No. SW 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Acid Extractables (Soils)				
2-chlorophenol	< 0.40 mg/kg		0.4	118600000N
phenol	< 0.40 mg/kg		0.4	118500000N
2-nitrophenol	< 0.40 mg/kg		0.4	065100000N
2,4-dimethylphenol	< 0.40 mg/kg		0.4	064800000N
2,4-dichlorophenol	< 0.40 mg/kg		0.4	064700000N
4-chloro-3-methylphenol	< 0.40 mg/kg		0.4	119000000N
2,4,6-trichlorophenol	< 0.40 mg/kg		0.4	065600000N
2,4-dinitrophenol	< 1.0 mg/kg		1.	065000000N
4-nitrophenol	< 1.0 mg/kg		1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg		1.	064900000N
pentachlorophenol	< 1.0 mg/kg		1.	119400000N

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ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17603

08/21/88

III Sample No. SH 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000N
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000N
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000N
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000N
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000N
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000N
hexachloroethane	< 0.40	mg/kg	0.4	069200000N
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000N
nitrobenzene	< 0.40	mg/kg	0.4	069600000N
isophorone	< 0.40	mg/kg	0.4	069400000N
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000N
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000N
naphthalene	2.41	mg/kg	0.4	069500000N
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000N
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000N
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000N
acenaphthylene	< 0.40	mg/kg	0.4	065800000N
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000N
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000N
acenaphthene	0.88	mg/kg	0.4	119100000N
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000N
fluorene	1.05	mg/kg	0.4	068800000N
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000N
diethyl phthalate	< 0.40	mg/kg	0.4	068000000N
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000N
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000N
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000N
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000N
phenanthrene	2.05	mg/kg	0.4	070000000N

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1 COPY TO Philadelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1297293

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 1946-1202

Date Reported 8/29/88  
Date Submitted 8/16/88  
Discard Date 9/29/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

Philadelphia Coke Co. A-4/8C Composite Soil Sample  
Collected on 08/11/88 at 1200 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals cont (Soils)				
anthracene	0.60	mg/kg	0.4	065900000N
di-n-butyl phthalate	< 0.40	mg/kg	0.4	068200000N
fluoranthene	3.41	mg/kg	0.4	068700000N
pyrene	2.29	mg/kg	0.4	119500000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.40	mg/kg	0.4	067100000N
benzo (a) anthracene	1.21	mg/kg	0.4	066100000N
chrysene	1.57	mg/kg	0.4	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.40	mg/kg	0.4	066900000N
di-n-octyl phthalate	< 0.40	mg/kg	0.4	068500000N
benzo (b) fluoranthene	1.24	mg/kg	0.4	066300000N
benzo (K) fluoranthene	< 0.40	mg/kg	0.4	066500000N
benzo (a) pyrene	0.76	mg/kg	0.4	066200000N
indeno (1,2,3-cd) pyrene	0.45	mg/kg	0.4	069300000N
dibenzo (a,h) anthracene	< 0.40	mg/kg	0.4	067500000N
benzo (ghi) perylene	0.48	mg/kg	0.4	066400000N

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

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1 COPY TO Philidelphia Coke Co.

ATTN: Vinay Ghanekar  
ATTN: Attn: Jim Husted

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Lancaster Laboratories, Inc.  
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Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

LLI Sample No. SW 1349193

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Moisture	13.8 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Reactivity:	see below		112102000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112204000
Cyanide (Reactivity)	< 100. mg/kg	100.	112303000
Acid Extractables (Soils)	attached		119817500
Base Neutrals (Soils)	attached		119930000
Base Neutrals cont (Soils)	attached		120000000

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The Soil Association  
The Association of  
Biological & Environmental  
Scientists

310 03464 55.00 063100



Member of the Soil Science Society of America  
December 1988

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

LLI Sample No. SW 1349193

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

Acid Extractables (Soils)	RESULT		LIMIT OF	
	AS RECEIVED		QUANTITATION	LAB CODE
2-chlorophenol	< 0.33	mg/kg	0.33	118600000N
phenol	0.50	mg/kg	0.33	118500000N
2-nitrophenol	< 0.33	mg/kg	0.33	065100000N
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000N
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000N
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	119000000N
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000N
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000N
4-nitrophenol	< 0.833	mg/kg	0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000N
pentachlorophenol	< 0.833	mg/kg	0.833	119400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

Member Association  
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Professionals



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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

1000 Lancaster Pike, Lancaster, PA 17601-1000 (610) 399-1000

LLI Sample No. SW 1349193

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	AS RECEIVED		QUANTITATION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000N
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000N
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000N
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	118700000N
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000N
hexachloroethane	< 0.33	mg/kg	0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	118800000N
nitrobenzene	< 0.33	mg/kg	0.33	069600000N
isophorone	< 0.33	mg/kg	0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000N
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	118900000N
naphthalene	6.00	mg/kg	0.33	069500000N
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000N
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000N
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000N
acenaphthylene	1.47	mg/kg	0.33	065800000N
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000N
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000N
acenaphthene	< 0.33	mg/kg	0.33	119100000N
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	119300000N
fluorene	1.40	mg/kg	0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000N
diethyl phthalate	< 0.33	mg/kg	0.33	068000000N
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000N
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000N
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000N
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000N
phenanthrene	10.7	mg/kg	6.6	070000000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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11th Street, N.W., Washington, D.C. 20004



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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-6904 (717) 698-2301

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

LLI Sample No. SV 1349193

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

Base Neutrals cont (Soils)	RESULT		LIMIT OF	
	AS RECEIVED		QUANTITATION	LAB CODE
anthracene	3.33	mg/kg	0.33	065900000N
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000N
fluoranthene	25.0	mg/kg	6.6	068700000N
pyrene	22.0	mg/kg	6.6	119500000N
benzidine	< 0.833	mg/kg	0.833	066000000N
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000N
benzo (a) anthracene	17.3	mg/kg	6.6	066100000N
chrysene	26.3	mg/kg	6.6	067400000N
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000N
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000N
benzo (b) fluoranthene	24.3	mg/kg	6.6	066300000N
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000N
benzo (a) pyrene	12.0	mg/kg	6.6	066200000N
indeno (1,2,3-cd) pyrene	9.7	mg/kg	6.6	069300000N
dibenzo (a,h) anthracene	2.80	mg/kg	0.33	067500000N
benzo (ghi) perylene	12.0	mg/kg	6.6	066400000N

1 COPY TO Woodward Clyde Consultants ATTN: Julia P. Via

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Environmental Engineers and  
Scientists



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Scientists

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5800 (717) 656-2301

LLI Sample No. TL 1349195

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co.  
SC11-13 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Barium	< 0.1 mg/l	0.1	024601300
Cadmium	0.012 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	-13.6 — mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300
Arsenic	< 0.05 mg/l	0.05	133501300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122. Lead exceeds the limit.

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*Rem of lead analysis (from extraction)  
indicated lead of 20.05 mg/l*

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

310 03464 150.00 027800

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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17602

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 3/ 1/89  
Date Submitted 2/10/89  
Discard Date 4/ 1/89  
Collected by JV  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of SC11-13 Soil Sample  
Collected on 01/18/89 at 1400 by JV  
Previous LLI # 1349193

ANALYSIS  
Lead

RESULT  
AS RECEIVED  
< 0.05 mg/l

LIMIT OF  
QUANTITATION LAB CODE  
0.05 025501300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127. A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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310 03464 115.00 012800



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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Lee A. Seats, B.S. Mgr.  
Inorganic Analysis

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Accreditation Laboratories, Inc.

# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5004 (717) 656-2300

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

LLI Sample No. SV 1349193

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

## ANALYSIS

Acid Extractables (Soils)  
Base Neutrals (Soils)  
Base Neutrals cont (Soils)

## RESULT DRY WT. BASIS

attached  
attached  
attached

LIMIT OF  
QUANTITATION LAB CODE  
119800000  
119930000  
120000000

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Richard S. Rodgers, B.S.  
Group Leader, GC/MS



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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1349193

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Acid Extractables (Soils)				
2-chlorophenol	< 0.40 mg/kg		0.4	118600000N
phenol	0.58 mg/kg		0.4	118500000N
2-nitrophenol	< 0.40 mg/kg		0.4	065100000N
2,4-dimethylphenol	< 0.40 mg/kg		0.4	064800000N
2,4-dichlorophenol	< 0.40 mg/kg		0.4	064700000N
4-chloro-3-methylphenol	< 0.40 mg/kg		0.4	119000000N
2,4,6-trichlorophenol	< 0.40 mg/kg		0.4	065600000N
2,4-dinitrophenol	< 1.0 mg/kg		1.	065000000N
4-nitrophenol	< 1.0 mg/kg		1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0 mg/kg		1.	064900000N
pentachlorophenol	< 1.0 mg/kg		1.	119400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

Member Association  
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Scientists



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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17301-5904

LLI Sample No. SW 1349193

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000N
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000N
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000N
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000N
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000N
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000N
hexachloroethane	< 0.40	mg/kg	0.4	069200000N
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000N
nitrobenzene	< 0.40	mg/kg	0.4	069600000N
isophorone	< 0.40	mg/kg	0.4	069400000N
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000N
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000N
naphthalene	6.96	mg/kg	0.4	069500000N
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000N
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000N
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000N
acenaphthylene	1.71	mg/kg	0.4	065800000N
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000N
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000N
acenaphthene	< 0.40	mg/kg	0.4	119100000N
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000N
fluorene	1.62	mg/kg	0.4	068800000N
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000N
diethyl phthalate	< 0.40	mg/kg	0.4	068000000N
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000N
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000N
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000N
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000N
phenanthrene	12.4	mg/kg	8.	070000000N

1 COPY TO Woodward Clyde Consultants ATTN: Julia P. Via

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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in Biological & Environmental  
Testing



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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

200 George Holland Pkwy., Lancaster, PA 17601-0900

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

LLI Sample No. SW 1349193

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC11-13 Composite Soil Samp  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	3.86	mg/kg	0.4	065900000N
di-n-butyl phthalate	< 0.40	mg/kg	0.4	068200000N
fluoranthene	29.0	mg/kg	8.	068700000N
pyrene	25.5	mg/kg	8.	119500000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.40	mg/kg	0.4	067100000N
benzo (a) anthracene	20.1	mg/kg	8.	066100000N
chrysene	30.5	mg/kg	8.	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.40	mg/kg	0.4	066900000N
di-n-octyl phthalate	< 0.40	mg/kg	0.4	068500000N
benzo (b) fluoranthene	28.2	mg/kg	8.	066300000N
benzo (K) fluoranthene	< 0.40	mg/kg	0.4	066500000N
benzo (a) pyrene	13.9	mg/kg	8.	066200000N
indeno (1,2,3-cd) pyrene	11.3	mg/kg	8.	069300000N
dibenzo (a,h) anthracene	3.25	mg/kg	0.4	067500000N
benzo (ghi) perylene	13.9	mg/kg	8.	066400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

Member of the American Society of Environmental Engineers



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

17601 PA 17601

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Moisture	13.4 % by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
Acid Extractables	attached		055217000
Base Neutrals	attached		055329000
Base Neutrals (cont)	attached		055400000
Reactivity	see below		112104000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.			
Sulfide (Reactivity)	< 50. mg/kg	50.	112201500
Cyanide (Reactivity)	< 100. mg/kg	100.	112301500

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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03464 60.00 060100

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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

125 New Holland Pike, Lancaster, PA 17601-8888

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Acid Extractables				
2-chlorophenol	< 0.33	mg/kg	0.33	064600000N
phenol	2.23	mg/kg	0.33	065500000N
2-nitrophenol	< 0.33	mg/kg	0.33	065100000N
2,4-dimethylphenol	< 0.33	mg/kg	0.33	064800000N
2,4-dichlorophenol	< 0.33	mg/kg	0.33	064700000N
4-chloro-3-methylphenol	< 0.33	mg/kg	0.33	065300000N
2,4,6-trichlorophenol	< 0.33	mg/kg	0.33	065600000N
2,4-dinitrophenol	< 0.833	mg/kg	0.833	065000000N
4-nitrophenol	< 0.833	mg/kg	0.833	065200000N
2-methyl-4,6-dinitrophenol	< 0.833	mg/kg	0.833	064900000N
pentachlorophenol	< 0.833	mg/kg	0.833	065400000N

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ATTN: Vinay Ghanekar

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT AS RECEIVED		LIMIT OF DETECTION	LAB CODE
Base Neutrals				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	069700000N
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	066700000N
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	067700000N
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	067800000N
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	067600000N
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	066800000N
hexachloroethane	< 0.33	mg/kg	0.33	069200000N
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	069800000N
nitrobenzene	< 0.33	mg/kg	0.33	069600000N
isophorone	< 0.33	mg/kg	0.33	069400000N
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	066600000N
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	070200000N
naphthalene	3.37	mg/kg -	0.33	069500000N
hexachlorobutadiene	< 0.33	mg/kg	0.33	069000000N
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	069100000N
2-chloronaphthalene	< 0.33	mg/kg	0.33	067200000N
acenaphthylene	0.53	mg/kg -	0.33	065800000N
dimethyl phthalate	< 0.33	mg/kg	0.33	068100000N
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	068400000N
acenaphthene	< 0.33	mg/kg	0.33	065700000N
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	068300000N
fluorene	0.53	mg/kg -	0.33	068800000N
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	067300000N
diethyl phthalate	< 0.33	mg/kg	0.33	068000000N
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	068600000N
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	069900000N
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	067000000N
hexachlorobenzene	< 0.33	mg/kg	0.33	068900000N
phenanthrene	2.67	mg/kg	0.33	070000000N

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ATTN: Vinay Ghanekar

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Fields of Testing



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# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

1425 New Holland Pike, Lancaster, PA 17601-5904 (717) 656-2301

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

0B-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Base Neutrals (cont)				
anthracene	0.80	mg/kg -	0.33	065900000N
di-n-butyl phthalate	< 0.33	mg/kg	0.33	068200000N
fluoranthene	3.83	mg/kg	0.33	068700000N
pyrene	4.23	mg/kg -	0.33	070100000N
benzidine	< 0.833	mg/kg	0.833	066000000N
butyl benzyl phthalate	< 0.33	mg/kg	0.33	067100000N
benzo (a) anthracene	2.97	mg/kg	0.33	066100000N
chrysene	3.07	mg/kg	0.33	067400000N
3,3'-dichlorobenzidine	< 0.833	mg/kg	0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33	mg/kg	0.33	066900000N
di-n-octyl phthalate	< 0.33	mg/kg	0.33	068500000N
benzo (b) fluoranthene	6.00	mg/kg -	0.33	066300000N
benzo (K) fluoranthene	< 0.33	mg/kg	0.33	066500000N
benzo (a) pyrene	2.67	mg/kg	0.33	066200000N
indeno (1,2,3-cd) pyrene	2.07	mg/kg	0.33	069300000N
dibenzo (a,h) anthracene	0.63	mg/kg	0.33	067500000N
benzo (ghi) perylene	1.90	mg/kg	0.33	066400000N

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ATTN: Vinay Ghanekar

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

225 New Holland Pike, Lancaster, PA 17601-5004 (717) 666-2301

LLI Sample No. SW 1287206

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

EP Toxicity Leachate of OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	< 0.05 mg/l	0.05	024502500
Barium	< 0.1 mg/l	0.1	024601300
Cadmium	< 0.005 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	15.8 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300
Lead	14.8 mg/l		900101300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122. Lead exceeds the limit.

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03464 150.00 030300

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

425 New Holland Pike, Lancaster, PA 17601-9986 (717) 659-2301

LLI Sample No. TL 1290616

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 9/88  
Date Submitted 7/20/88  
Discard Date 9/ 9/88  
Collected by C  
P.O. 87C2839-6  
Rel.

EP Toxicity Leachate of OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL  
Previous LLI # 1287206

ANALYSIS  
Lead

*Rerun  
lead for*

RESULT  
AS RECEIVED  
< 0.05 mg/l

LIMIT OF  
DETECTION  
0.05

LAB CODE  
025501300P

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127. A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0,  
Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4,  
Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Timothy S. Oostdyk, B.A.  
Group Leader, Inorganics





# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

225 New Holland Pike, Lancaster, PA 17601-5894 (717) 686-2301

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF DETECTION	LAB CODE
Acid Extractables	attached		055201500
Base Neutrals	attached		055301500
Base Neutrals (cont)	attached		055401500

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

200 West Holland Pike, Lancaster, PA 17602

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Acid Extractables				
2-chlorophenol	< 0.40	mg/kg	0.4	064600000N
phenol	2.58	mg/kg	0.4	065500000N
2-nitrophenol	< 0.40	mg/kg	0.4	065100000N
2,4-dimethylphenol	< 0.40	mg/kg	0.4	064800000N
2,4-dichlorophenol	< 0.40	mg/kg	0.4	064700000N
4-chloro-3-methylphenol	< 0.40	mg/kg	0.4	065300000N
2,4,6-trichlorophenol	< 0.40	mg/kg	0.4	065600000N
2,4-dinitrophenol	< 1.0	mg/kg	1.	065000000N
4-nitrophenol	< 1.0	mg/kg	1.	065200000N
2-methyl-4,6-dinitrophenol	< 1.0	mg/kg	1.	064900000N
pentachlorophenol	< 1.0	mg/kg	1.	065400000N

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

125 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT.	BASIS	DETECTION	
Base Neutrals				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000N
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000N
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000N
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	067800000N
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000N
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000N
hexachloroethane	< 0.40	mg/kg	0.4	069200000N
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	069800000N
nitrobenzene	< 0.40	mg/kg	0.4	069600000N
isophorone	< 0.40	mg/kg	0.4	069400000N
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000N
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	070200000N
naphthalene	3.89	mg/kg	0.4	069500000N
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000N
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000N
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000N
acenaphthylene	0.61	mg/kg	0.4	065800000N
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000N
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000N
acenaphthene	< 0.40	mg/kg	0.4	065700000N
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	068300000N
fluorene	0.61	mg/kg	0.4	068800000N
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000N
diethyl phthalate	< 0.40	mg/kg	0.4	068000000N
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000N
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000N
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000N
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000N
phenanthrene	3.08	mg/kg	0.4	070000000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

1000 Holland Pike, Lancaster, PA 17601

LLI Sample No. SW 1287205

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 8/ 2/88  
Date Submitted 7/20/88  
Discard Date 9/ 2/88  
Collected by AL  
P.O. 87C2839-6  
Rel.

OB-1 Composite Soil Sample  
Collected on 07/18/88 at 1400 by AL

	RESULT		LIMIT OF	LAB CODE
	DRY WT. BASIS		DETECTION	
Base Neutrals (cont)				
anthracene	0.92	mg/kg	0.4	065900000N
di-n-butyl phthalate	< 0.40	mg/kg	0.4	068200000N
fluoranthene	4.42	mg/kg	0.4	068700000N
pyrene	4.88	mg/kg	0.4	070100000N
benzidine	< 1.0	mg/kg	1.	066000000N
butyl benzyl phthalate	< 0.40	mg/kg	0.4	067100000N
benzo (a) anthracene	3.43	mg/kg	0.4	066100000N
chrysene	3.55	mg/kg	0.4	067400000N
3,3'-dichlorobenzidine	< 1.0	mg/kg	1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.40	mg/kg	0.4	066900000N
di-n-octyl phthalate	< 0.40	mg/kg	0.4	068500000N
benzo (b) fluoranthene	6.93	mg/kg	0.4	066300000N
benzo (K) fluoranthene	< 0.40	mg/kg	0.4	066500000N
benzo (a) pyrene	3.08	mg/kg	0.4	066200000N
indeno (1,2,3-cd) pyrene	2.39	mg/kg	0.4	069300000N
dibenzo (a,h) anthracene	0.73	mg/kg	0.4	067500000N
benzo (ghi) perylene	2.19	mg/kg	0.4	066400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

*Lancaster Laboratories* ACCREDITED

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Moisture	12.7	% by wt.	0.1	011101100
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
Reactivity		see below		112102000
Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of cyanide exceeding 250 ppm or sulfide exceeding 500 ppm. These interim threshold limits were established by the Solid Waste Branch of EPA, July 12, 1985.				
Sulfide (Reactivity)	< 50.	mg/kg	50.	112204000
Cyanide (Reactivity)	< 100.	mg/kg	100.	112303000
Acid Extractables (Soils)		attached		119817500
Base Neutrals (Soils)		attached		119930000
Base Neutrals cont (Soils)		attached		120000000

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Engineers and Chemists

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5000, (717) 399-0000

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Philadelphia Coke Co. SCB-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

LLI Sample No. SW 1349192

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Acid Extractables (Soils)	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
2-chlorophenol	< 0.33 mg/kg	0.33	118600000N
phenol	< 0.33 mg/kg	0.33	118500000N
2-nitrophenol	< 0.33 mg/kg	0.33	065100000N
2,4-dimethylphenol	< 0.33 mg/kg	0.33	064800000N
2,4-dichlorophenol	< 0.33 mg/kg	0.33	064700000N
2-chloro-3-methylphenol	< 0.33 mg/kg	0.33	119000000N
2,4,6-trichlorophenol	< 0.33 mg/kg	0.33	065600000N
2,4-dinitrophenol	< 0.833 mg/kg	0.833	065000000N
4-nitrophenol	< 0.833 mg/kg	0.833	119200000N
2-methyl-4,6-dinitrophenol	< 0.833 mg/kg	0.833	064900000N
pentachlorophenol	< 0.833 mg/kg	0.833	119400000N

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

1100 New Holland Pike, Lancaster, PA 17601-8888 (717) 399-4400

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF QUANTITATION	LAB CODE
	AS RECEIVED			
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.33	mg/kg	0.33	0697000000
bis (2-chloroethyl) ether	< 0.33	mg/kg	0.33	0667000000
1,3-dichlorobenzene	< 0.33	mg/kg	0.33	0677000000
1,4-dichlorobenzene	< 0.33	mg/kg	0.33	1187000000
1,2-dichlorobenzene	< 0.33	mg/kg	0.33	0676000000
bis (2-chloroisopropyl) ether	< 0.33	mg/kg	0.33	0668000000
hexachloroethane	< 0.33	mg/kg	0.33	0692000000
N-nitrosodi-n-propylamine	< 0.33	mg/kg	0.33	1188000000
nitrobenzene	< 0.33	mg/kg	0.33	0696000000
isophorone	< 0.33	mg/kg	0.33	0694000000
bis (2-chloroethoxy) methane	< 0.33	mg/kg	0.33	0666000000
1,2,4-trichlorobenzene	< 0.33	mg/kg	0.33	1189000000
naphthalene	3.67	mg/kg	0.33	0695000000
hexachlorobutadiene	< 0.33	mg/kg	0.33	0690000000
hexachlorocyclopentadiene	< 0.33	mg/kg	0.33	0691000000
2-chloronaphthalene	< 0.33	mg/kg	0.33	0672000000
acenaphthylene	1.33	mg/kg	0.33	0658000000
dimethyl phthalate	< 0.33	mg/kg	0.33	0681000000
2,6-dinitrotoluene	< 0.33	mg/kg	0.33	0684000000
acenaphthene	0.37	mg/kg	0.33	1191000000
2,4-dinitrotoluene	< 0.33	mg/kg	0.33	1193000000
fluorene	2.43	mg/kg	0.33	0688000000
4-chlorophenyl phenyl ether	< 0.33	mg/kg	0.33	0673000000
diethyl phthalate	< 0.33	mg/kg	0.33	0680000000
1,2-diphenylhydrazine	< 0.33	mg/kg	0.33	0686000000
N-nitrosodiphenylamine	< 0.33	mg/kg	0.33	0699000000
4-bromophenyl phenyl ether	< 0.33	mg/kg	0.33	0670000000
hexachlorobenzene	< 0.33	mg/kg	0.33	0689000000
phenanthrene	23.0	mg/kg	6.6	0700000000

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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Scientists



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# ANALYSIS REPORT

*Lancaster Laboratories* INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5004 (717) 658-2301

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

	RESULT AS RECEIVED		LIMIT OF QUANTITATION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	7.0 mg/kg		6.6	065900000N
di-n-butyl phthalate	< 0.33 mg/kg		0.33	068200000N
fluoranthene	31.7 mg/kg		6.6	068700000N
pyrene	24.7 mg/kg		6.6	119500000N
benzidine	< 0.833 mg/kg		0.833	066000000N
butyl benzyl phthalate	< 0.33 mg/kg		0.33	067100000N
benzo (a) anthracene	17.7 mg/kg		6.6	066100000N
chrysene	25.7 mg/kg		6.6	067400000N
3,3'-dichlorobenzidine	< 0.833 mg/kg		0.833	067900000N
bis (2-ethylhexyl) phthalate	< 0.33 mg/kg		0.33	066900000N
di-n-octyl phthalate	< 0.33 mg/kg		0.33	068500000N
benzo (b) fluoranthene	22.0 mg/kg		6.6	066300000N
benzo (K) fluoranthene	< 0.33 mg/kg		0.33	066500000N
benzo (a) pyrene	11.0 mg/kg		6.6	066200000N
indeno (1,2,3-cd) pyrene	7.0 mg/kg		6.6	069300000N
dibenzo (a,h) anthracene	2.13 mg/kg		0.33	067500000N
benzo (ghi) perylene	8.7 mg/kg		6.6	066400000N

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Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

2025 New Holland Pike, Lancaster, PA 17601-2025 (717) 899-2025

LLI Sample No. TL 1349194

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

EP Toxicity Leachate of Philadelphia Coke Co.  
SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Barium	0.2 mg/l	0.1	024601300
Cadmium	0.009 mg/l	0.005	024901300
Chromium	< 0.05 mg/l	0.05	025101300
Lead	0.06 mg/l	0.05	025501300
Mercury	< 0.0005 mg/l	0.0005	025902500
Selenium	< 0.02 mg/l	0.02	026402500
Silver	< 0.01 mg/l	0.01	026601300
Arsenic	< 0.05 mg/l	0.05	133501300

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0.

Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

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310 03464 150.00 027800



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Toxicology Laboratories, Inc.

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

**ANALYSIS REPORT**

*Lancaster Laboratories* INCORPORATED

2000 Hollend Pike, Lancaster, PA 17602-1000 (717) 399-1000

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

ANALYSIS	RESULT DRY WT. BASIS	LIMIT OF QUANTITATION LAB CODE
Acid Extractables (Soils)	attached	119800000
Base Neutrals (Soils)	attached	119930000
Base Neutrals cont (Soils)	attached	120000000

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Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS

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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

Acid Extractables (Soils)	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
2-chlorophenol	< 0.40	mg/kg	0.4	118600000N
phenol	< 0.40	mg/kg	0.4	118500000N
2-nitrophenol	< 0.40	mg/kg	0.4	065100000N
2,4-dimethylphenol	< 0.40	mg/kg	0.4	064800000N
2,4-dichlorophenol	< 0.40	mg/kg	0.4	064700000N
4-chloro-3-methylphenol	< 0.40	mg/kg	0.4	119000000N
2,4,6-trichlorophenol	< 0.40	mg/kg	0.4	065600000N
2,4-dinitrophenol	< 1.0	mg/kg	1.	065000000N
4-nitrophenol	< 1.0	mg/kg	1.	119200000N
2-methyl-4,6-dinitrophenol	< 1.0	mg/kg	1.	064900000N
pentachlorophenol	< 1.0	mg/kg	1.	119400000N

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Our Standard Terms And Conditions

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Richard S. Rodgers, B.S.  
Group Leader, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories

1100 Northland Pike, Lancaster, PA 17601-0001

LLI Sample No. SV 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. SC8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Base Neutrals (Soils)				
N-nitrosodimethylamine	< 0.40	mg/kg	0.4	069700000N
bis (2-chloroethyl) ether	< 0.40	mg/kg	0.4	066700000N
1,3-dichlorobenzene	< 0.40	mg/kg	0.4	067700000N
1,4-dichlorobenzene	< 0.40	mg/kg	0.4	118700000N
1,2-dichlorobenzene	< 0.40	mg/kg	0.4	067600000N
bis (2-chloroisopropyl) ether	< 0.40	mg/kg	0.4	066800000N
hexachloroethane	< 0.40	mg/kg	0.4	069200000N
N-nitrosodi-n-propylamine	< 0.40	mg/kg	0.4	118800000N
nitrobenzene	< 0.40	mg/kg	0.4	069600000N
isophorone	< 0.40	mg/kg	0.4	069400000N
bis (2-chloroethoxy) methane	< 0.40	mg/kg	0.4	066600000N
1,2,4-trichlorobenzene	< 0.40	mg/kg	0.4	118900000N
naphthalene	4.20	mg/kg	0.4	069500000N
hexachlorobutadiene	< 0.40	mg/kg	0.4	069000000N
hexachlorocyclopentadiene	< 0.40	mg/kg	0.4	069100000N
2-chloronaphthalene	< 0.40	mg/kg	0.4	067200000N
acenaphthylene	1.52	mg/kg	0.4	065800000N
dimethyl phthalate	< 0.40	mg/kg	0.4	068100000N
2,6-dinitrotoluene	< 0.40	mg/kg	0.4	068400000N
acenaphthene	0.42	mg/kg	0.4	119100000N
2,4-dinitrotoluene	< 0.40	mg/kg	0.4	119300000N
fluorene	2.78	mg/kg	0.4	068800000N
4-chlorophenyl phenyl ether	< 0.40	mg/kg	0.4	067300000N
diethyl phthalate	< 0.40	mg/kg	0.4	068000000N
1,2-diphenylhydrazine	< 0.40	mg/kg	0.4	068600000N
N-nitrosodiphenylamine	< 0.40	mg/kg	0.4	069900000N
4-bromophenyl phenyl ether	< 0.40	mg/kg	0.4	067000000N
hexachlorobenzene	< 0.40	mg/kg	0.4	068900000N
phenanthrene	26.3	mg/kg	8.	070000000N

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Testing

# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

LLI Sample No. SW 1349192

Woodward Clyde Consultants  
5120 Butler Pike  
Plymouth Mtg., PA 19462-1202

Date Reported 2/10/89  
Date Submitted 1/18/89  
Discard Date 3/13/89  
Collected by JV  
P.O. 87C2839A  
Rel.

Philadelphia Coke Co. 3C8-9 Composite Soil Sample  
Collected on 01/18/89 at 1400 by JV

	RESULT		LIMIT OF	
	DRY WT. BASIS		QUANTITATION	LAB CODE
Base Neutrals cont (Soils)				
anthracene	8.0 mg/kg		8.	065900000N
di-n-butyl phthalate	< 0.40 mg/kg		0.4	068200000N
fluoranthene	36.3 mg/kg		8.	068700000N
pyrene	28.3 mg/kg		8.	119500000L
benzidine	< 1.0 mg/kg		1.	066000000N
butyl benzyl phthalate	< 0.40 mg/kg		0.4	067100000N
benzo (a) anthracene	20.3 mg/kg		8.	066100000N
chrysene	29.4 mg/kg		8.	067400000N
3,3'-dichlorobenzidine	< 1.0 mg/kg		1.	067900000N
bis (2-ethylhexyl) phthalate	< 0.40 mg/kg		0.4	066900000N
di-n-octyl phthalate	< 0.40 mg/kg		0.4	068500000L
benzo (b) fluoranthene	25.2 mg/kg		8.	066300000N
benzo (K) fluoranthene	< 0.40 mg/kg		0.4	066500000N
benzo (a) pyrene	12.6 mg/kg		8.	066200000N
indeno (1,2,3-cd) pyrene	8.0 mg/kg		8.	069300000N
dibenzo (a,h) anthracene	2.44 mg/kg		0.4	067500000N
benzo (ghi) perylene	10.0 mg/kg		8.	066400000N

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1-9-89  
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PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-5-81)

PARAMETER	UNITS	4/10/85	6/28/85	10/16/85	1/23/86	4/24/86	7/29/86	10/10/86	1/8/87
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
PHENANTHRENE	ug/l	<5	13.00	<5	<5	<10	<10	<10	<10
ANTHRACENE	ug/l	<5	<5	10.30	<5	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
FLUORANTHENE	ug/l	<5	<5	21.00	<5	<10	<10	<10	<10
BENZIDINE	ug/l	<100	<100	<100	<100	<20	<10	<10	<10
PYRENE	ug/l	<5	9.60	11.00	<5	<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	14.00	<10	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
3,3'-DICHLORO BENZIDINE	ug/l	<10	<10	<10	<10	<20	<20	<20	<20
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<5	8.70	<5	<5	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
2,3,7,8-TETRACHLORO DIBENZO-P-DIOXIN	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
VINYL CHLORIDE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
CHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
METHYLENE CHLORIDE	ug/l	<1.0	<1.0	9.20	<1.0	4.40	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100	<80	<80	<80
ACRYLONITRILE	ug/l	<25	<25	<25	<25	<25	<80	<80	<80
TRANS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CHLOROFORM	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROETHENE	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5
BENZENE	ug/l	<1.0	1.30	<1.0	<1.0	<1.0	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOFORM	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TOLUENE	ug/l	<0.2	0.20	<0.2	7.70	<0.2	<5	<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-6-81)

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	5/18/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	24.70	11.00	18.80	<10.0		87.20	6.00	26.00
AMMONIA NITROGEN	mg/l	85.10	107.00	122.00	72.80		161.00	20.70	11.40
TOTAL COLIFORM	ctu/100 m	<2	<1	18.00	50.00		<10	(3) <10	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	1.80	0.30	0.40	0.80		0.80	<6	<12
TOTAL ORGANIC CARBON	mg/l	3.70	3.00	2.20	2.10		0.80	3.30	3.10
CHEMICAL OXYGEN DEMAND	mg/l	28.80	11.00	22.80	<10.0		26.00	<60	<60
CHLORIDE	mg/l			<10.0	10.80		67.80	32.00	21.00
CYANIDE, TOTAL	mg/l	<0.006	<0.006	<0.006	<0.006		<0.008	<0.006	<0.006
FLUORIDE	mg/l	0.58	1.48	1.52	1.00		0.82	0.80	0.50
ALUMINUM, DISSOLVED	mg/l								
ARSENIC, DISSOLVED	mg/l							<0.01	<0.01
BARIUM, DISSOLVED	mg/l							<0.1	<0.1
CADMIUM, DISSOLVED	mg/l							0.02	0.01
CHROMIUM, DISSOLVED	mg/l	<0.001	0.00	0.01	0.04		<0.002	<0.06	<0.06
IRON, DISSOLVED	mg/l	0.18	0.16	0.50	0.80		0.70		
LEAD, DISSOLVED	mg/l							0.06	<0.06
MANGANESE, DISSOLVED	mg/l	6.20	8.00	8.80			3.80		
MERCURY, DISSOLVED	mg/l							<0.0006	<0.0006
SELENIUM, DISSOLVED	mg/l							<0.006	<0.006
SILVER, DISSOLVED	mg/l							<0.01	<0.01
SODIUM, DISSOLVED	mg/l	8.10	10.40	13.20	12.60		71.00		
NITRATE NITROGEN	mg/l	2.20	8.36	3.36	11.60		4.80	21.20	6.60
TOTAL ORGANIC HALOGENS	ug/l	<6	<10	<6.0	248.00		141.00	8.00	8.00
PHENOLICS	mg/l	<0.006	<0.006	<0.006	<0.006		<0.006		
pH	standard	6.88	6.14	6.24	6.55		6.28	4.87	6.19
TOTAL DISSOLVED SOLIDS	mg/l	1120.00	1180.00	1080.00	848.00		1380.00	1630.00	1210.00
SPECIFIC CONDUCTANCE	umhos/cm	1470.00	1660.00	2030.00	1240.00		1860.00	1870.00	1480.00
SULFATE	mg/l	867.00	877.00	1180.00	647.00		870.00	1020.00	749.00
HERBICIDES:									
2,4-D	ug/l								
2,4,5-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<60	<60	<60		<60	<60	<26	<26
4-NITROPHENOL	ug/l	<60	<60	<60		<60	<60	<26	<26
2-METHYL-4,6-DINITROPHENOL	ug/l	<60	<60	<60		<60	<60	<26	<26
PENTACHLOROPHENOL	ug/l	<60	<60	<60		<60	<60	<26	<26
BASE/NEUTRAL EXTRACTABLES:									
N-NITROSODIMETHYLAMINE	ug/l			<10		<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10		<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10		<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10		<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROCCYCLOPENTADIENE	ug/l	<10	<10	<10		<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10	<10	<10
FLUORENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10		<10	<10	<10	<10



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-5-01)

PARAMETER	UNITS	4/16/97	7/17/97	10/20/97	2/11/98	3/9/98	5/19/98	1/18/99	4/18/99
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10		<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
FLUORANTHENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZIDINE	ug/l			<20		<20	<20	<25	<25
PYRENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10		<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10		<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<20	<20	<20		<20	<20	<25	<25
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10		<10	<10	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(G,H)PERYLENE	ug/l	<10	<10	<10		<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10		<10	<10	<10	<10
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
BROMOMETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
VINYL CHLORIDE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
CHLOROETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
METHYLENE CHLORIDE	ug/l	35.00	<1.0	<1	<1		<1	<5	<5
ACROLEIN	ug/l							<100	<100
ACRYLONITRILE	ug/l							<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRICHLOROFLUOROMETHANE	ug/l							<1	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CHLOROFORM	ug/l	<1.0	2.00	<1	<1		<1	<5	<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,2-DICHLOROPROPANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
BENZENE	ug/l	<1.0	2.10	<1	<1		<1	<5	<5
DBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
BROMOFORM	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TOLUENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-6-91)

PARAMETER	UNITS	5/2/91	7/18/91	10/25/91	1/16/92	4/16/92
ALKALINITY, TOTAL	mg/l	1030.00	882.00	1360.00	680.00	431.00
AMMONIA NITROGEN	mg/l	12.80	6.40	5.80	83.80	110.00
TOTAL COLIFORM	ctu/100 m	>18	>18	<2.2	<2.2	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	22.00	23.00	13.00	84.00	84.00
TOTAL ORGANIC CARBON	mg/l	170.00	160.00	84.00	110.00	80.00
CHEMICAL OXYGEN DEMAND	mg/l	670.00	830.00	320.00	630.00	410.00
CHLORIDE	mg/l	494.00	262.00	110.00	283.00	330.00
CYANIDE, TOTAL	mg/l	0.30	1.56	0.14	1.36	0.67
FLUORIDE	mg/l	0.50	0.50	0.80	0.50	1.20
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.02	<0.01	<0.01	<0.01
BARIUM, DISSOLVED	mg/l		0.20	0.20	0.10	<0.2
CADMIUM, DISSOLVED	mg/l		0.01	0.02	<0.006	<0.006
CHROMIUM, DISSOLVED	mg/l		0.14	0.06	<0.06	<0.06
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		0.20	0.06	<0.06	<0.06
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		0.00	0.00	<0.0006	0.00
SELENIUM, DISSOLVED	mg/l		0.02	0.01	<0.006	<0.006
SILVER, DISSOLVED	mg/l		<0.01	<0.01	<0.01	<0.01
SODIUM, DISSOLVED	mg/l		297.00	147.00	232.00	230.00
NITRATE NITROGEN	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5
TOTAL ORGANIC HALOGENS	ug/l	160.00	100.00	80.00	80.00	80.00
PHENOLICS	mg/l					
pH	standard	6.87	6.88	6.98	6.54	6.55
TOTAL DISSOLVED SOLIDS	mg/l	13800.00	10800.00	7000.00	8400.00	8900.00
SPECIFIC CONDUCTANCE	umhos/cm	12800.00	9790.00	6660.00	8430.00	8420.00
SULFATE	mg/l	7800.00	6670.00	4200.00	6660.00	6700.00
<b>HERBICIDES:</b>						
2,4-D	ug/l					
2,4,6-TP	ug/l					
<b>PESTICIDES:</b>						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
<b>ACID EXTRACTABLES:</b>						
PHENOL	ug/l	<10	<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<26	<26	<26	<26	<26
4-NITROPHENOL	ug/l	<26	<26	<26	<26	<26
2-METHYL-4,6-DINITROPHENOL	ug/l	<26	<26	<26	<26	<26
PENTACHLOROPHENOL	ug/l	<26	<60	<60	<60	<60
<b>BASE/NEUTRAL EXTRACTABLES:</b>						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	15	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
FLUORENE	ug/l	<10	<10	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-6-81)

PARAMETER	UNITS	6/2/81	7/18/81	10/26/81	1/16/82	4/16/82
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10	<10	16.00
FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZIDINE	ug/l	<25	<25	<25	<100	<100
PYRENE	ug/l	<10	<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<25	<20	<20	<20	<20
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	13.00	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
BENZO(G,H)PERYLENE	ug/l	<10	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l					
<b>VOLATILE ORGANICS:</b>						
CHLOROMETHANE	ug/l	<50	<10	<10	<10	<10
BROMOMETHANE	ug/l	<50	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<50	<10	<10	<10	<10
CHLOROETHANE	ug/l	<50	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<25	<5	<5	<5	<5
ACROLEIN	ug/l	<500	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<500	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<25	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<25	<5	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<25	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<25	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<25	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<25	<5	<5	<5	<5
CHLOROFORM	ug/l	<25	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<25	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<25	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<25	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<25	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<25	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<25	<5	<5	<5	<5
BENZENE	ug/l	<25	<5	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<25	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<25	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<50	<10	<10	<10	<10
BROMOFORM	ug/l	<25	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<25	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<25	<5	<5	<5	<5
TOLUENE	ug/l	<25	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<25	<5	<5	<5	<5
ETHYLBENZENE	ug/l	<25	<5	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-1  
MONITORING WELL W-1R (REPLACING W-1 AS OF 4-5-81)

NOTES:

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- (1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS FOR PERIOD 4/10/86 THROUGH 4/24/86.
- (2) BENZ[A]ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/16/86.
- (3) ONLY SAMPLED FOR FECAL COLIFORM.
- (4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-88)

PARAMETER	UNITS	4/10/86	6/28/86	10/16/86	1/23/88	4/24/88	7/28/88	10/10/88	1/8/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
PHENANTHRENE	ug/l	<5	14.00	347.00	36.00	<10	83.00	91.00	70.00
ANTHRACENE	ug/l	<5	<5	<5	<5	<10	<10	12.00	<10
DI-N-BUTYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	25.00
FLUORANTHENE	ug/l	<5	<5	191.00	12.00	<10	31.00	28.00	13.00
BENZIDINE	ug/l	<100	<100	<100	<100	<20			
PYRENE	ug/l	<5	8.50	126.00	9.00	<10	20.00	18.00	<10
BUTYL BENZYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	26.00	<10	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<10	<10	<10	<10	<20	<20	<20	<20
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<25	<25	32.00	<25	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<25	<25	*	<25	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<25	<25	86.00	<25	<10	<10	<10	<10
INDENO(1,2,3-C)DIPYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10	<10	<10		<10	<10
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
VINYL CHLORIDE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
CHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
METHYLENE CHLORIDE	ug/l	8.20	<1.0	<1.0	<10	2.40	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<1000	<100	<80		
ACRYLONITRILE	ug/l	<25	<25	<25	<250	<25	<80		
TRANS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l							<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
CHLOROFORM	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROETHENE	ug/l	<0.2	<0.2	<0.2	<2.0	<0.2	<5	<5	<5
BENZENE	ug/l	143.00	234.00	86.00	<10	73.40	490.00	<5	122.00
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOFORM	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
1,1,1,2-TETRACHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TOLUENE	ug/l	80.00	78.00	81.00	<2.0	17.80	58.40	<5	24.80
CHLOROBENZENE	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<5	<5	<5
ETHYLBENZENE	ug/l	3.0	6.10	43.00	<10	<1.0	18.90	<5	8.10



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-89)

PARAMETER	UNITS	4/18/87	7/17/87	10/28/87	2/11/88	3/8/88	6/16/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	545.00	488.00	748.00	398.00		350.00		516.00
AMMONIA NITROGEN	mg/l	380.00	447.00	563.00	248.00		189.00		221.00
TOTAL COLIFORM	cfu/100 m	2.00	<1	540.00	440.00		200.00		<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	135.00	344.00	315.00	53.0		88.0		118.00
TOTAL ORGANIC CARBON	mg/l	110.00	118.00	102.00	62.50		8.47		110.00
CHEMICAL OXYGEN DEMAND	mg/l	1480.00	545.00	484.00	143.00		133.00		330.00
CHLORIDE	mg/l			607.00	218.00		181.00		71.00
CYANIDE, TOTAL	mg/l	48.50	47.30	77.0	10.80		7.10		42.0
FLUORIDE	mg/l	5.90	7.51	6.30	6.85		3.10		0.20
ALUMINUM, DISSOLVED	mg/l								<0.01
ARSENIC, DISSOLVED	mg/l								<0.1
BARIUM, DISSOLVED	mg/l								<0.005
CADMIUM, DISSOLVED	mg/l								<0.05
CHROMIUM, DISSOLVED	mg/l	0.00	0.00	0.01	0.01		0.00		<0.05
IRON, DISSOLVED	mg/l	22.0	0.12	2.0	60.70		17.90		<0.06
LEAD, DISSOLVED	mg/l								<0.06
MANGANESE, DISSOLVED	mg/l	6.30	0.13	3.90	4.70		2.40		<0.0006
MERCURY, DISSOLVED	mg/l								<0.005
SELENIUM, DISSOLVED	mg/l								<0.01
SILVER, DISSOLVED	mg/l								<0.01
SODIUM, DISSOLVED	mg/l	258.00	238.00	343.00	482.00		190.00		
NITRATE NITROGEN	mg/l	<0.28	<0.28	<0.21	<0.21		<0.21		0.50
TOTAL ORGANIC HALOGENS	ug/l	18.00	20.00	48.00	106.00		182.00		50.00
PHENOLICS	mg/l	0.68	1.07	0.30			0.05		
pH	standard	7.20	8.43	8.85	7.03		7.06		8.06
TOTAL DISSOLVED SOLIDS	mg/l	5840.00	4820.00	4260.00	4990.00		3880.00		2510
SPECIFIC CONDUCTANCE	umhos/cm	709.00	6810.00	7210.00	5640.00		4160.00		3810
SULFATE	mg/l	3420.00	3880.00	3440.00	2140.00		2200.00		1680
HERBICIDES:									
2,4-D	ug/l								
2,4,6-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10	86.00	<10		<11	<10		80.00
2-CHLOROPHENOL	ug/l	<10	<10	<10		<11	<10		<10
2-NITROPHENOL	ug/l	<10	<10	<10		<11	<10		<10
2,4-DIMETHYLPHENOL	ug/l	39.00	<10	33.00		<11	28.00		20.00
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10		<11	<10		<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10		<11	<10		<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10		<11	<10		<10
2,4-DINITROPHENOL	ug/l	<50	<50	<50		<55	<50		<25
4-NITROPHENOL	ug/l	<50	<50	<50		<55	<50		<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<50	<50	<50		<55	<50		<25
PENTACHLOROPHENOL	ug/l	<50	<50	<50		<55	<50		<25
BASE/NEUTRAL EXTRACTABLES:									
N-NITROSODIMETHYLAMINE	ug/l			<10		<10	<10		<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10		<10	<10		<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	28.00	<10		<10	<10		<10
HEXACHLOROETHANE	ug/l	<10	<10	<10		<10	<10		<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10		<10	<10		<10
NITROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
ISOPHORONE	ug/l	<10	<10	<10		<10	<10		<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10		<10	<10		<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
NAPHTHALENE	ug/l	289.00	118.00	<10		39.00	70.00		290.00
HEXACHLOROBTADIENE	ug/l	<10	<10	<10		<10	<10		<10
HEXCHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10		<10	<10		<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10		<10	<10		<10
ACENAPHTHYLENE	ug/l	<10	14.00	<10		11.00	<10		<10
DMETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10		<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10		<10
ACENAPHTHENE	ug/l	15.00	<10	<10		<10	<10		10.00
2,4-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10		<10
FLUORENE	ug/l	28.00	<10	25.00		30.00	18.00		<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10		<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10		<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10		<10	<10		<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-89)

PARAMETER	UNITS	4/18/87	7/17/87	10/28/87	2/11/88	3/8/88	5/18/88	1/18/89	4/18/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10		<10	<10		<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10		<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10		<10	<10		<10
PHENANTHRENE	ug/l	<10	<10	27.00		54.00	18.00		30.00
ANTHRACENE	ug/l	<10	<10	<10		14.00	<10		<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10		<10
FLUORANTHENE	ug/l	<10	<10	<10		22.00	<10		30.00
BENZIDINE	ug/l			<20		<20	<20		<25
PYRENE	ug/l	<10	<10	<10		31.00	<10		30.00
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10		<10	<10		<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10		<10	<10		20.00
CHRYSENE	ug/l	<10	<10	<10		<10	<10		20.00
3,3'-DICHLOROBENZIDINE	ug/l	<20	<20	<20		<20	<20		<25
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	11.00		<10	<10		10.00
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10		<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10		20.00
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10		<10
BENZO(A)PYRENE	ug/l	<10	<10	<10		<10	<10		10.00
INDENO(1,2,3-C)DIPYRENE	ug/l	<10	<10	<10		<10	<10		<10
DIBENZ(A,H)ANTHRACENE	ug/l	<10	<10	<10		<10	<10		<10
BENZO(G,H)PERYLENE	ug/l	<10	<10	<10		<10	<10		<10
2,3,7,8-TETRACHLORO-DIBENZO-P-DIOXIN	ug/l	<10	<10	<10		<10	<10		
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2.0	<2.0	<2	<2		<2		<10
BROMOMETHANE	ug/l	<2.0	<2.0	<2	<2		<2		<10
VINYL CHLORIDE	ug/l	<2.0	<2.0	<2	<2		<2		<10
CHLOROETHANE	ug/l	<2.0	<2.0	<2	<2		<2		<10
METHYLENE CHLORIDE	ug/l	32.00	<1.0	<1	<1		<1		<5
ACROLEIN	ug/l								<100
ACRYLONITRILE	ug/l								<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1.0	22.00	<1	<1		<1		<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
TRICHLOROFLUOROMETHANE	ug/l								<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
CHLOROFORM	ug/l	<1.0	<1.0	<1	<1		<2		<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1	<1		<1		<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
1,2-DICHLOROPROPANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
TRICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
BENZENE	ug/l	106.00	190.00	95.00	40.00		22.00		110.00
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
1,1,2-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
2-CHLOROETHYL VINYL ETHER	ug/l	<1.0	<2.0	<2	<2		<2		<10
BROMOFORM	ug/l	<1.0	<1.0	<1	<1		<1		<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
1,1,1,2-TETRACHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1		<5
TOLUENE	ug/l	33.00	48.00	18.00	10.00		7.00		13.00
CHLOROBENZENE	ug/l	<1.0	<1.0	<1	<1		<1		<5
ETHYLBENZENE	ug/l	7.50	9.00	10.00	3.00		3.00		12.00



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-89)

PARAMETER	UNITS	8/1/89	10/30/89	1/11/90	4/5/90	7/10/90	10/11/90	1/8/91	2/20/91
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	14.00	18.00	11.00	16.00	16.00	16.00	16.00
ANTHRACENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
FLUORANTHENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZIDINE	ug/l	<25	<25	<25	<25	<25	<25	<25	<25
PYRENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<25	<25	<25	<25	<25	<25	<25	<25
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l								
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<50	<10	<10	<10	<10	<10	<10	<10
BROMOMETHANE	ug/l	<50	<10	<10	<10	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<50	<10	<10	<10	<10	<10	<10	<10
CHLOROETHANE	ug/l	<50	<10	<10	<10	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
ACROLEIN	ug/l	<500	<100	<100	<100	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<500	<100	<100	<100	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	31.00	<5	<5	<5	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
CHLOROFORM	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
BENZENE	ug/l	68.00	62.00	54.00	64.00	62.00	64.00	67.00	67.00
DIBROMOCHLOROMETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<50	<10	<10	<10	<10	<10	<10	<10
BROMOFORM	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
TOLUENE	ug/l	<25	6.00	7.00	6.00	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<25	<5	<5	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	<25	6.00	7.00	9.00	6.00	6.00	6.00	6.00

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-88)

PARAMETER	UNITS	6/2/91	7/18/91	10/26/91	1/16/92	4/16/92
ALKALINITY, TOTAL	mg/l	178.00	118.00	176.00	171.00	118.00
AMMONIA NITROGEN	mg/l	38.20	43.60	68.20	62.80	61.00
TOTAL COLIFORM	cfu/100 m	<2.2	<2.2	<2.2	> 18	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	18.00	21.00	21.00	23.00	24.00
TOTAL ORGANIC CARBON	mg/l	34.00	37.00	44.00	42.00	35.00
CHEMICAL OXYGEN DEMAND	mg/l	400.00	210.00	180.00	200.00	180.00
CHLORIDE	mg/l	52.00	44.00	44.00	40.00	37.00
CYANIDE, TOTAL	mg/l	0.11	0.04	0.10	0.63	0.18
FLUORIDE	mg/l	0.20	0.20	0.20	0.20	0.20
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.01	<0.01	<0.01	<0.01
BARIUM, DISSOLVED	mg/l		0.20	0.30	0.10	<0.2
CADMIUM, DISSOLVED	mg/l		<0.006	<0.006	<0.006	<0.006
CHROMIUM, DISSOLVED	mg/l		0.08	<0.06	<0.06	<0.06
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		0.31	0.17	<0.06	<0.06
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		0.00	0.00	<0.0006	<0.0002
SELENIUM, DISSOLVED	mg/l		<0.006	<0.006	<0.006	<0.006
SILVER, DISSOLVED	mg/l		<0.01	<0.01	<0.01	<0.01
SODIUM, DISSOLVED	mg/l		142.00	132.00	122.00	115.00
NITRATE NITROGEN	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5
TOTAL ORGANIC HALOGENS	ug/l	10.00	70.00	70.00	61.00	80.00
PHENOLICS	mg/l					
pH	standard	8.88	8.27	9.21	8.10	8.01
TOTAL DISSOLVED SOLIDS	mg/l	2620.00	2640.00	2600.00	2180.00	2170.00
SPECIFIC CONDUCTANCE	umhos/cm	2850.00	2840.00	2870.00	2810.00	2650.00
SULFATE	mg/l	1580.00	1.00	1840.00	1880.00	1800.00
HERBICIDES:						
2,4-D	ug/l					
2,4,5-TP	ug/l					
PESTICIDES:						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
ACID EXTRACTABLES:						
PHENOL	ug/l	28.00	23.00	24.00	26.00	26.00
2-CHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
4-NITROPHENOL	ug/l	<25	<25	<25	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
PENTACHLOROPHENOL	ug/l	<25	<25	<50	<50	<50
BASE/NEUTRAL EXTRACTABLES:						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
NAPHTHALENE	ug/l	109.00	76.00	93.00	71.00	68.00
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHENE	ug/l	13.00	10.00	14.00	13.00	14.00
2,4-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
FLUORENE	ug/l	12.00	12.00	13.00	12.00	16.00
DIETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-80)

PARAMETER	UNITS	6/2/91	7/18/91	10/26/91	1/16/92	4/16/92
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	23.00	26.00	21.00	36.00	38.00
ANTHRACENE	ug/l	<10	<10	<10	<10	10.00
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10	<10	17.00
FLUORANTHENE	ug/l	11.00	19.00	<10	33.00	31.00
BENZIDINE	ug/l	<26	<26	<100	<100	<100
PYRENE	ug/l	11.00	15.00	<10	32.00	28.00
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	13.00	16.00
CHRYSENE	ug/l	<10	<10	<10	13.00	16.00
3,3'-DICHLORO BENZIDINE	ug/l	<26	<20	<20	<20	<20
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10	10.00	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10	12.00	12.00
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10	<10	11.00
BENZO(A)PYRENE	ug/l	<10	<10	<10	12.00	13.00
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<10	<10	<10
2,3,7,8-TETRACHLORO DIBENZO-P-DIOXIN	ug/l					
VOLATILE ORGANICS:						
CHLOROMETHANE	ug/l	<10	<10	<10	<10	<10
BROMOMETHANE	ug/l	<10	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<10	<10	<10	<10	<10
CHLOROETHANE	ug/l	<10	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<100	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
CHLOROFORM	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<5	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
BENZENE	ug/l	70.00	77.00	89.00	90.00	110.00
DIBROMOCHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<10	<10	<10	<10	<10
BROMOFORM	ug/l	<5	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TOLUENE	ug/l	<5	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	7.00	6.00	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-2  
MONITORING WELL W-2R (REPLACING W-2 AS OF 4-18-88)

NOTES:

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- (1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED. VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS FOR PERIOD 4/10/86 THROUGH 4/24/86.
- (2) BENZ(A)ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/15/86.
- (3) ONLY SAMPLED FOR FECAL COLIFORM.
- (4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

PARAMETER	UNITS	4/10/85	6/26/85	10/16/85	1/23/86	4/24/86	7/29/86	10/10/86	1/8/87
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10	<10	<10	<11
4-BROMOPHENYL PHENYL ETHER	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
HEXACHLOROBENZENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
PHENANTHRENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
ANTHRACENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
DI-N-BUTYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
FLUORANTHENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
BENZIDINE	ug/l	<100	<100	<100	<100	<20	<10	<10	<11
PYRENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
BUTYL BENZYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<11
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<11
CHRYSENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<11
3,3'-DICHLOROBENZIDINE	ug/l	<10	<10	<10	<10	<20	<20	<20	<22
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	12	<5	<5	<5	<10	<10	<10	<11
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<11
BENZO(B)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
BENZO(K)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
BENZO(A)PYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
INDENO(1,2,3-C,D)PYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
DIBENZO(A,H)ANTHRACENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
BENZO(G,H)PERYLENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<11
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10	<10	<10	<10	<10	<11
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
VINYL CHLORIDE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
CHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
METHYLENE CHLORIDE	ug/l	3.80	<1.0	<1.0	<1.0	6.10	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100	<50	<5	<5
ACRYLONITRILE	ug/l	<25	<25	<25	<25	<25	<50	<5	<5
TRANS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l						<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CHLOROFORM	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROETHENE	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5
BENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOFORM	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TOLUENE	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	5/19/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	58.70	55.80	43.90	55.40		51.90	49	48
AMMONIA NITROGEN	mg/l	1.20	2.40	0.47	1.60		2.33	1.20	1.20
TOTAL COLIFORM	cfu/100 m	<1	510	270			170	(3) <10	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	2.80	0.80	1.50	4.80		5.0	<8	<8
TOTAL ORGANIC CARBON	mg/l	2.10	1.50	2.20	1.40		0.59	1.10	1.10
CHEMICAL OXYGEN DEMAND	mg/l	14.50	<10	<10	<10.0		10.40	<50	<50
CHLORIDE	mg/l			<10.0	<10		<10	4	3
CYANIDE, TOTAL	mg/l	0.008	0.010	0.028	0.067		<0.008	0.04	0.027
FLUORIDE	mg/l	0.44	0.50	0.47	0.47		0.50	0.40	0.30
ALUMINUM, DISSOLVED	mg/l								
ARSENIC, DISSOLVED	mg/l							<0.01	<0.01
BARIUM, DISSOLVED	mg/l							0.10	<0.1
CADMIUM, DISSOLVED	mg/l							<0.006	<0.006
CHROMIUM, DISSOLVED	mg/l	0.002	0.003	0.004	0.013		0.004	<0.05	<0.05
IRON, DISSOLVED	mg/l	<0.1	<0.1	<0.1	0.30		<0.1		
LEAD, DISSOLVED	mg/l							<0.05	<0.05
MANGANESE, DISSOLVED	mg/l	0.20	0.20	0.30	0.20		0.20		
MERCURY, DISSOLVED	mg/l							<0.0005	<0.0005
SELENIUM, DISSOLVED	mg/l							0.008	0.008
SILVER, DISSOLVED	mg/l							<0.01	<0.01
SODIUM, DISSOLVED	mg/l	11.40	11.80	9.18	8.30		7.80		
NITRATE NITROGEN	mg/l	2.80	2.45	1.38	1.88		1.55	2.80	2.20
TOTAL ORGANIC HALOGENS	ug/l	<6	100	8	98		123	<6	8
PHENOLICS	mg/l	<0.005	<0.005	<0.005	<0.005		<0.005		
pH	standard	6.39	6.30	6.28	6.54		6.21	6.48	6.61
TOTAL DISSOLVED SOLIDS	mg/l	278	272	204	238		215	220	250
SPECIFIC CONDUCTANCE	umhos/cm	353	328	242	303		273	310	3510
SULFATE	mg/l	99.0	81	87.50	83.70		72.70	89	88
<b>HERBICIDES:</b>									
2,4-D	ug/l								
2,4,5-TP	ug/l								
<b>PESTICIDES:</b>									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
<b>ACID EXTRACTABLES:</b>									
PHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<50	<50	<50		<50	<50	<25	<25
4-NITROPHENOL	ug/l	<50	<50	<50		<50	<50	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<50	<50	<50		<50	<50	<25	<25
PENTACHLOROPHENOL	ug/l	<50	<50	<50		<50	<50	<25	<25
<b>BASE/NEUTRAL EXTRACTABLES:</b>									
N-NITROSODIMETHYLAMINE	ug/l			<10		<11	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10		<11	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10		<11	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10		<11	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10		<11	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10		<11	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10		<11	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<10		<11	<10	<10	<10
HEXACHLOROBTADIENE	ug/l	<10	<10	<10		<11	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10		<11	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10		<11	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10		<11	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10		<11	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10		<11	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<10		<11	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10		<11	<10	<10	<10
FLUORENE	ug/l	<10	<10	<10		<11	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10		<11	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<11	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10		<11	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

PARAMETER	UNITS	4/18/87	7/17/87	10/28/87	2/11/88	3/8/88	6/18/88	1/18/89	4/18/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10		<11	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<11	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10		<11	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<10		<11	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<10		<11	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<01		<11	<10	<10	<10
FLUORANTHENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZIDINE	ug/l			<20		<11	<20	<26	<26
PYRENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10		<11	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10		<11	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<20	<20	<20		<11	<20	<26	<26
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10		<11	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZ(B)FLUORANTHENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZ(K)FLUORANTHENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10		<11	<10	<10	<10
INDENO(1,2,3-C)PYRENE	ug/l	<10	<10	<10		<11	<10	<10	<10
DIBENZ(A,H)ANTHRACENE	ug/l	<10	<10	<10		<11	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<10		<11	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10		<11	<10		
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
BROMOMETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
VINYL CHLORIDE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
CHLOROETHANE	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
METHYLENE CHLORIDE	ug/l	34	<1.0	<1	<1		<1	<5	<5
ACROLEIN	ug/l							<100	<100
ACRYLONITRILE	ug/l							<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CHLOROFORM	ug/l	<1.0	1.30	<1	<1		<1	<5	<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
BROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,2-DICHLOROPROPANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TRICHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
BENZENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<2.0	<2.0	<2	<2		<2	<10	<10
BROMOFORM	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
TOLUENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
CHLORO BENZENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1	<1		<1	<5	<5





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

PARAMETER	UNITS	6/2/91	7/18/91	10/26/91	1/16/92	4/16/92
ALKALINITY, TOTAL	mg/l	79	140	106	124.00	130.00
AMMONIA NITROGEN	mg/l	2.10	1.40	3.10	3.00	4.00
TOTAL COLIFORM	cfu/100 m	<2.2	6.20	5.20	5.20	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	<6	<6	<6	<12	6.00
TOTAL ORGANIC CARBON	mg/l	2.60	3.10	4.40	2.80	3.10
CHEMICAL OXYGEN DEMAND	mg/l	<60	390	70	140.00	220.00
CHLORIDE	mg/l	42	26	36	18.00	17.00
CYANIDE, TOTAL	mg/l	0.042	0.088	0.038	<0.005	0.076
FLUORIDE	mg/l	0.30	0.40	0.50	0.40	0.40
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.01	<0.01	<0.01	<0.01
BARIUM, DISSOLVED	mg/l		<0.2	0.10	<0.2	<0.2
CADMIUM, DISSOLVED	mg/l		<0.005	<0.005	0.078	<0.005
CHROMIUM, DISSOLVED	mg/l		0.08	<0.05	0.080	<0.05
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		0.08	<0.05	0.100	<0.05
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		0.008	<0.0005	<0.0005	<0.0002
SELENIUM, DISSOLVED	mg/l		0.011	<0.005	<0.005	<0.005
SILVER, DISSOLVED	mg/l		<0.01	<0.01	0.070	<0.01
SODIUM, DISSOLVED	mg/l		49.30	63.80	73.30	64.90
NITRATE NITROGEN	mg/l	4.70	1.30	3.30	1.40	<1
TOTAL ORGANIC HALOGENS	ug/l	<6	<6	8	7.00	<6
PHENOLICS	mg/l					
pH	standard	6.24	6.70	6.20	6.38	6.50
TOTAL DISSOLVED SOLIDS	mg/l	1110	1050	1590	1500	1480
SPECIFIC CONDUCTANCE	umhos/cm	1390	1320	1840	1750	1760
SULFATE	mg/l	611	560	840	800	1000
HERBICIDES:						
2,4-D	ug/l					
2,4,5-TP	ug/l					
PESTICIDES:						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
ACID EXTRACTABLES:						
PHENOL	ug/l	<10	<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
4-NITROPHENOL	ug/l	<25	<25	<25	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
PENTACHLOROPHENOL	ug/l	<25	<25	<50	<50	<50
BASE/NEUTRAL EXTRACTABLES:						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBTADIENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROXYCLOPENTADIENE	ug/l	<10	<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
FLUORENE	ug/l	<10	<10	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

PARAMETER	UNITS	6/2/01	7/18/01	10/26/01	1/18/02	4/18/02
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZIDINE	ug/l	<25	<25	<100	<100	<100
PYRENE	ug/l	<10	<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<25	<20	<20	<20	<20
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10	<10	<10
INDENO(1,2,3-C)DPYRENE	ug/l	<10	<10	<10	<10	<10
DIBENZ(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
BENZO(G,H)PERYLENE	ug/l	<10	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l					
VOLATILE ORGANICS:						
CHLOROMETHANE	ug/l	<10	<10	<10	<10	<10
BROMOMETHANE	ug/l	<10	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<10	<10	<10	<10	<10
CHLOROETHANE	ug/l	<10	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<100	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
TRICHLOROFUOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
CHLOROFORM	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<5	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
BENZENE	ug/l	<5	<5	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<10	<10	<10	<10	<10
BROMOFORM	ug/l	<5	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TOLUENE	ug/l	<5	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	<5	<5	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-3

NOTES:

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(1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED. VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS FOR PERIOD 4/10/86 THROUGH 4/24/86.

(2) BENZ(A)ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/16/86.

(3) ONLY SAMPLED FOR FECAL COLIFORM.

(4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-89)

PARAMETER	UNITS	4/10/85	6/26/85	10/15/85	1/23/86	4/24/86	7/29/86	10/10/86	1/8/87
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10	<10	<10	<12
4-BROMOPHENYL PHENYL ETHER	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
HEXACHLOROBENZENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
PHENANTHRENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
ANTHRACENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
DI-N-BUTYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
FLUORANTHENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
BENZIDINE	ug/l	<100	<100	<100	<100	<20	<10	<10	<12
PYRENE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
BUTYL BENZYL PHTHALATE	ug/l	<5	<5	<5	<5	<10	<10	<10	<12
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<12
CHRYSENE	ug/l	<10	<10	<10	<10	<10	<10	<10	<12
3,3'-DICHLOROBENZIDINE	ug/l	<10	<10	<10	<10	<20	<20	<20	<24
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	8.50	5.80	<5	<5	<10	<10	<10	<12
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10	<10	<10	<12
BENZO(B)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
BENZO(K)FLUORANTHENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
BENZO(A)PYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
INDENO(1,2,3-C)DIPYRENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
DIBENZO(A,H)ANTHRACENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
BENZO(G,H)PERYLENE	ug/l	<25	<25	<25	<25	<10	<10	<10	<12
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10	<10	<10	<10	<10	<12
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOMETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
VINYL CHLORIDE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
CHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
METHYLENE CHLORIDE	ug/l	3.40	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100	<80		
ACRYLONITRILE	ug/l	<25	<25	<25	<25	<25	<80		
TRANS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l						<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CHLOROFORM	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TRICHLOROETHENE	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5
BENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	<10
BROMOFORM	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5
TOLUENE	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<5	<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<5

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-89)

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	5/19/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	18.20	<10.0	66.90		22.90	18.8	52.00	755.00
AMMONIA NITROGEN	mg/l	0.13	0.23	22.90		0.18		0.50	2.10
TOTAL COLIFORM	ctu/100 m	<2	<1	>800		>8000		(3) <10	>18
BIOCHEMICAL OXYGEN DEMAND	mg/l	2.60	1.40	32.00		4.40	6.50	<12	174.00
TOTAL ORGANIC CARBON	mg/l	1.60	2.25	4.30		4.09	0.58	2.90	56.00
CHEMICAL OXYGEN DEMAND	mg/l	56.10	<10	49.00		17.70		200.00	300.00
CHLORIDE	mg/l			14.50		12.90	<10	6.00	18.00
CYANIDE, TOTAL	mg/l	<0.005	<0.005	4.40		<0.009		<0.01	83.0
FLUORIDE	mg/l	0.14	0.19	0.22		0.20	0.28	0.20	0.20
ALUMINUM, DISSOLVED	mg/l							<0.01	<0.01
ARSENIC, DISSOLVED	mg/l							<0.1	0.10
BARIUM, DISSOLVED	mg/l							<0.005	<0.005
CADMIUM, DISSOLVED	mg/l							<0.05	<0.05
CHROMIUM, DISSOLVED	mg/l	<0.001	<0.001	0.00		0.01	<0.002	<0.05	<0.05
IRON, DISSOLVED	mg/l	<0.1	<0.1	1.0		3.30	0.20		
LEAD, DISSOLVED	mg/l							<0.05	<0.05
MANGANESE, DISSOLVED	mg/l	0.30	0.34	0.80		1.0	0.80		
MERCURY, DISSOLVED	mg/l							<0.0005	<0.0005
SELENIUM, DISSOLVED	mg/l							<0.005	<0.005
SILVER, DISSOLVED	mg/l							<0.01	<0.01
SODIUM, DISSOLVED	mg/l	3.40	3.40	29.80		7.30	4.0		
NITRATE NITROGEN	mg/l	2.0	3.08	<0.21		2.50	<0.21	5.0	<0.5
TOTAL ORGANIC HALOGENS	ug/l	<5	30.00	<5		120.00		<5	13.00
PHENOLICS	mg/l	<0.005	<0.005	<0.005		<0.005			
pH	standard	8.05	8.02	8.10		8.41	8.51	8.35	7.01
TOTAL DISSOLVED SOLIDS	mg/l	181.00	141.75	252.00		148.00	184.00	180.00	1210.00
SPECIFIC CONDUCTANCE	umhos/cm	182.00	148.50	382.00		216.00	187.00	240.00	2440.00
SULFATE	mg/l	43.60	44.00	104.00		41.40	43.40	62.00	328.00
HERBICIDES:									
2,4-D	ug/l								
2,4,5-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10	<10	<11		<10		<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<11		<10		<10	<10
2-NITROPHENOL	ug/l	<10	<10	<11		<10		<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<11		<10		<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<11		<10		<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<11		<10		<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<11		<10		<10	<10
2,4-DINITROPHENOL	ug/l	<50	<50	<54		<50		<25	<25
4-NITROPHENOL	ug/l	<50	<50	<54		<50		<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<50	<50	<54		<50		<25	<25
PENTACHLOROPHENOL	ug/l	<50	<50	<54		<50		<25	<25
BASE/NEUTRAL EXTRACTABLES:									
N-NITROSDIMETHYLAMINE	ug/l			<11		<11	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<11		<11	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<11		<11	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<11		<11	<10	<10	<10
N-NITROSDI-N-PROPYLAMINE	ug/l	<10	<10	<11		<11	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<11		<11	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<11		<11	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<11		<11	<10	<10	<10
HEXACHLOROBTADIENE	ug/l	<10	<10	<11		<11	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<11		<11	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<11		<11	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<11		<11	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<11		<11	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<11		<11	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<11		<11	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<11		<11	<10	<10	<10
FLUORENE	ug/l	<10	<10	<11		<11	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<11		<11	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<11		<11	<10	<10	<10
N-NITROSDIPHENYLAMINE	ug/l	<10	<10	<11		<11	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-88)

PARAMETER	UNITS	4/18/87	7/17/87	10/28/87	2/11/88	3/8/88	5/19/88	1/18/89	4/18/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<11		<11	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<11		<11	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<11		<11	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<11		<11	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<11		<11	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<11		<11	<10	<10	<10
FLUORANTHENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZIDINE	ug/l			<21		<22	<20	<25	<26
PYRENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<11		<11	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<11		<11	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<20	<20	<21		<22	<20	<25	<26
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<11		17.00	<10	<10	20.00
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZOBIFLUORANTHENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZOKIFLUORANTHENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<11		<11	<10	<10	<10
INDENO(1,2,3-C)DIPYRENE	ug/l	<10	<10	<11		<11	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<11		<11	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<11		<11	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<11		<11	<10		
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2.0	<2.0	<2		<2		<10	<10
BROMOMETHANE	ug/l	<2.0	<2.0	<2		<2		<10	<10
VINYL CHLORIDE	ug/l	<2.0	<2.0	<2		<2		<10	<10
CHLOROETHANE	ug/l	<2.0	<2.0	<2		<2		<10	<10
METHYLENE CHLORIDE	ug/l	32.00	<1.0	<1		<1		<5	<5
ACROLEIN	ug/l							<100	<100
ACRYLONITRILE	ug/l							<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
TRICHLOROFLUOROMETHANE	ug/l					<1		<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
CHLOROFORM	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1		<1		<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,2-DICHLOROPROPANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
TRICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
BENZENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<1.0	<2.0	<2		<2		<10	<10
BROMOFORM	ug/l	<1.0	<1.0	<1		<1		<5	<5
TETRACHLOROETHENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<1.0	<1.0	<1		<1		<5	<5
TOLUENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1		<1		<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1		<1		<5	<5





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-88)

PARAMETER	UNITS	6/2/81	7/18/81	10/26/81	1/16/82	4/16/82
ALKALINITY, TOTAL	mg/l	784	752	818	931.00	1080.00
AMMONIA NITROGEN	mg/l	131	128	154	202.00	288.00
TOTAL COLIFORM	cfu/100 m	<2.2	<2.2	8.20	> 18	
BIOCHEMICAL OXYGEN DEMAND	mg/l	212	250	288	440.00	690.00
TOTAL ORGANIC CARBON	mg/l	70.00	77.00	80.00	130.00	160.00
CHEMICAL OXYGEN DEMAND	mg/l	400	480	420	710.00	880.00
CHLORIDE	mg/l	14	18	18	22.00	26.00
CYANIDE, TOTAL	mg/l	0.354	0.337	1.340	2.28	0.84
FLUORIDE	mg/l	0.2	0.1	<0.1	<0.1	<0.1
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.02	0.14	0.01	0.01
BARIUM, DISSOLVED	mg/l		0.3	0.8	0.20	0.30
CADMIUM, DISSOLVED	mg/l		<0.005	<0.005	<0.005	<0.005
CHROMIUM, DISSOLVED	mg/l		<0.05	0.58	<0.05	<0.05
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		<0.05	0.31	<0.05	<0.05
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		<0.0006	0.00	<0.0006	0.00
SELENIUM, DISSOLVED	mg/l		<0.005	<0.005	<0.005	<0.005
SILVER, DISSOLVED	mg/l		<0.01	<0.01	<0.01	<0.01
SODIUM, DISSOLVED	mg/l		308	322	517.00	696.00
NITRATE NITROGEN	mg/l	<0.5	<0.5	<0.5	<0.5	<2
TOTAL ORGANIC HALOGENS	ug/l	10.00	7.00	10.00	12.00	18.00
PHENOLICS	mg/l					
pH	standard	8.88	8.88	8.88	8.83	8.88
TOTAL DISSOLVED SOLIDS	mg/l	1210	1380	1380	2310.00	190.00
SPECIFIC CONDUCTANCE	umhos/cm	2510.00	2790.00	2790.00	4380.00	330.00
SULFATE	mg/l	296	428	428	849.00	23.00
HERBICIDES:						
2,4-D	ug/l					
2,4,6-TP	ug/l					
PESTICIDES:						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
ACID EXTRACTABLES:						
PHENOL	ug/l	<10	<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
4-NITROPHENOL	ug/l	<25	<25	<25	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<25	<25	<25	<25	<25
PENTACHLOROPHENOL	ug/l	<25	<25	<50	<50	<50
BASE/NEUTRAL EXTRACTABLES:						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10	<10	<10
1,3-DICHLOROENZENE	ug/l	<10	<10	<10	<10	<10
1,4-DICHLOROENZENE	ug/l	<10	<10	<10	<10	<10
1,2-DICHLOROENZENE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10	<10	<10
NITROENZENE	ug/l	<10	<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10	<10	<10
1,2,4-TRICHLOROENZENE	ug/l	<10	<10	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
ACENAPHTHENE	ug/l	<10	<10	<10	<10	<10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10	<10	<10
FLUORENE	ug/l	<10	<10	<10	<10	<10
DIETHYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-88)

PARAMETER	UNITS	5/2/91	7/18/91	10/26/91	1/16/92	4/16/92
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10	<10	<10	<10
ANTHRACENE	ug/l	<10	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10	<10	18.00
FLUORANTHENE	ug/l	<10	<10	<10	<10	13.00
BENZIDINE	ug/l	<25	<25	<100	<10	14.00
PYRENE	ug/l	<10	<10	<10	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10	<10	<10	<10
3,3'-DICHLOROBENZIDINE	ug/l	<25	<25	<20	<10	<10
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10	<10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	<10
BENZO(G,H)PERYLENE	ug/l	<10	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l					
VOLATILE ORGANICS:						
CHLOROMETHANE	ug/l	<10	<10	<10	<10	<10
BROMOMETHANE	ug/l	<10	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<10	<10	<10	<10	<10
CHLOROETHANE	ug/l	<10	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<100	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
CHLOROFORM	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<5	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
BENZENE	ug/l	<5	<5	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<10	<10	<10	<10	<10
BROMOFORM	ug/l	<5	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TOLUENE	ug/l	<5	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	<5	<5	<5	<5	<5



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4  
MONITORING WELL W-4R (REPLACING W-4 AS OF 4-18-89)

NOTES:

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- (1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED. VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS FOR PERIOD 4/10/86 THROUGH 4/24/86.
- (2) BENZ(A)ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/16/86.
- (3) ONLY SAMPLED FOR FECAL COLIFORM.
- (4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-6

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	5/19/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	128	130	145	96.0		126	113	
AMMONIA NITROGEN	mg/l	1.70	2.30	2.86	0.54		4.62	0.8	146
TOTAL COLIFORM	cfu/100 ml	33	80	>800	>8000		4200	* <10	<2.2
BIOCHEMICAL OXYGEN DEMAND	mg/l	6.30	10.50	27.0	15.0		9.50	<12	<12
TOTAL ORGANIC CARBON	mg/l	6.80	10.10	7.70	9.10		1.03	6.40	4.80
CHEMICAL OXYGEN DEMAND	mg/l	419	16	89.9	40.0		101	130	360
CHLORIDE	mg/l			<10	<10		<10	5	3
CYANIDE, TOTAL	mg/l	<0.005	<0.005	0.015	<0.009		<0.009	<0.005	<0.005
FLUORIDE	mg/l	0.33	0.42	0.38	0.34		0.34	0.30	0.30
ALUMINUM, DISSOLVED	mg/l								
ARSENIC, DISSOLVED	mg/l							<0.01	<0.01
BARIUM, DISSOLVED	mg/l							0.20	0.20
CADMIUM, DISSOLVED	mg/l							<0.005	<0.005
CHROMIUM, DISSOLVED	mg/l	<0.001	0.001	0.008	0.023		<0.002	<0.05	<0.05
IRON, DISSOLVED	mg/l	9.30	<0.1	0.7	21.0		11.80		
LEAD, DISSOLVED	mg/l							<0.05	<0.05
MANGANESE, DISSOLVED	mg/l	1.20	0.77	1.20	1.30		1.20		
MERCURY, DISSOLVED	mg/l							<0.0005	<0.0005
SELENIUM, DISSOLVED	mg/l							<0.005	<0.005
SILVER, DISSOLVED	mg/l							<0.01	<0.01
SODIUM, DISSOLVED	mg/l	5.20	6.30	7.11	6.50		4.80		
NITRATE NITROGEN	mg/l	<0.28	<0.28	<0.21	<0.21		<0.21	0.60	<0.5
TOTAL ORGANIC HALOGENS	ug/l	17	<10	64	152		158	140	56
PHENOLICS	mg/l	<0.005	<0.005	<0.005			<0.005		
pH	standard	6.79	6.87	6.23	6.67		6.50	6.44	6.71
TOTAL DISSOLVED SOLIDS	mg/l	244	242	247	248		208	210	210
SPECIFIC CONDUCTANCE	umhos/cm	326	346	314	281		312	310	3240
SULFATE	mg/l	31.90	52	23.30	47.60		41.90	67	36
HERBICIDES:									
2,4-D	ug/l								
2,4,5-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10		<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<50	<50	<10		<50	<50	<25	<25
4-NITROPHENOL	ug/l	<50	<50	<10		<50	<50	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<50	<50	<10		<50	<50	<25	<25
PENTACHLOROPHENOL	ug/l	<50	<50	<10		<50	<50	<25	<25
BASE/NEUTRAL EXTRACTABLES:									
N-NITROSODIMETHYLAMINE	ug/l			<10		<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10	<10		<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10		<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10	<10		<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10		<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
NAPHTHALENE	ug/l	43	16	28		18	11	30	20
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10		<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DIMETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10	<10	<10
ACENAPHTHENE	ug/l	<10	11	27		12	<10	20	10
2,4-DINITROTOLUENE	ug/l	<10	<10	<10		<10	<10	<10	<10
FLUORENE	ug/l	15	14	24		10	<10	20	10
DIETHYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<10		<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-6

PARAMETER	UNITS	4/18/87	7/17/87	10/28/87	2/11/88	3/8/88	6/18/88	1/18/89	4/18/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10		<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10		<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10		<10	<10	<10	<10
PHENANTHRENE	ug/l	48	30	41		38	<10	70	30
ANTHRACENE	ug/l	<10	<10	12		10	<10	20	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
FLUORANTHENE	ug/l	18	<10	20		14	<10	50	20
BENZIDINE	ug/l	<10		<20		<20	<20	<25	<25
PYRENE	ug/l	<10	17	20		32	<10	50	20
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10	<10		<10	<10	20	<10
CHRYSENE	ug/l	<10	<10	<10		<10	<10	20	10
3,3'-DICHLOROBENZIDINE	ug/l	<20	<20	<20		<10	<20	<25	<25
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10	20	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10	<10		<10	<10	10	<10
BENZO(A)PYRENE	ug/l	<10	<10	<10		<10	<10	10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10		<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10		<10	<10	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<10		<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10	<10		<10	<10		
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2	<2	<2	<2		<2	<10	<10
BROMOMETHANE	ug/l	<2	<2	<2	<2		<2	<10	<10
VINYL CHLORIDE	ug/l	<2	<2	<2	<2		<2	<10	<10
CHLOROETHANE	ug/l	<2	<2	<2	<2		<2	<10	<10
METHYLENE CHLORIDE	ug/l	18	<1	<1	<1		<1	<5	<5
ACROLEIN	ug/l							<100	<100
ACRYLONITRILE	ug/l							<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1	<1	<1	<1		<1	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1	<1	<1	<1		<1	<5	<5
TRICHLOROFLUOROMETHANE	ug/l							<1	<5
1,1-DICHLOROETHENE	ug/l	<1	<1	<1	<1		<1	<5	<5
1,1-DICHLOROETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1	5.90	10	8		6	14	9
CHLOROFORM	ug/l	<1	<0.1	<1	<1		<2	<5	<5
1,2-DICHLOROETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
CARBON TETRACHLORIDE	ug/l	<1	<1	<1	<1		<1	<5	<5
BROMODICHLOROMETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
1,2-DICHLOROPROPANE	ug/l	<1	<1	<1	<1		<1	<5	<5
TRICHLOROETHENE	ug/l	<1	81	55	39		11	81	20
BENZENE	ug/l	<1	<1	<1	<1		<1	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<2	<2	<1	<2		<1	<10	<10
BROMOFORM	ug/l	<1	<1	<1	<1		<1	<5	<5
TETRACHLOROETHENE	ug/l	<1	85	41	28		18	140	44
1,1,2,2-TETRACHLOROETHANE	ug/l	<1	<1	<1	<1		<1	<5	<5
TOLUENE	ug/l	<1	<1	<1	<1		<1	<5	<5
CHLOROBENZENE	ug/l	<1	<1	<1	<1		<1	<5	<5
ETHYLBENZENE	ug/l	<1	<1	<1	<1		1	<5	<5





PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-5

PARAMETER	UNITS	6/2/91	7/18/91	10/25/91	1/16/92	4/16/92
ALKALINITY, TOTAL	mg/l	101	118	159	178	
AMMONIA NITROGEN	mg/l	1.20	2.70	3.00	4.70	
TOTAL COLIFORM	cfu/100 ml	8.20	> 18	> 18	<2.2	
BIOCHEMICAL OXYGEN DEMAND	mg/l	7.00	11.00	11.00	10	
TOTAL ORGANIC CARBON	mg/l	3.80	4.60	6.00	3.10	
CHEMICAL OXYGEN DEMAND	mg/l	100	110	120	90	
CHLORIDE	mg/l	3	3	3	3	
CYANIDE, TOTAL	mg/l	<0.005	<0.005	<0.005	<0.005	
FLUORIDE	mg/l	0.30	0.30	0.30	0.30	
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.08	0.08	<0.01	
BARIUM, DISSOLVED	mg/l		0.40	0.50	<0.1	
CADMIUM, DISSOLVED	mg/l		<0.005	<0.005	<0.005	
CHROMIUM, DISSOLVED	mg/l		0.27	0.30	<0.05	
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		0.38	0.55	<0.05	
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		0.0033	0.0038	<0.0005	
SELENIUM, DISSOLVED	mg/l		0.008	<0.005	<0.005	
SILVER, DISSOLVED	mg/l		<0.01	<0.01	<0.01	
SODIUM, DISSOLVED	mg/l		5.00	3.80	5.30	
NITRATE NITROGEN	mg/l	<0.5	<0.5	<0.5	<0.5	
TOTAL ORGANIC HALOGENS	ug/l	48	52	32	7	
PHENOLICS	mg/l					
pH	standard	6.53	6.53	6.48	6.45	
TOTAL DISSOLVED SOLIDS	mg/l	150	200	280	170	
SPECIFIC CONDUCTANCE	umhos/cm	253	292	388	380	
SULFATE	mg/l	18	18	18	11	
HERBICIDES:						
2,4-D	ug/l					
2,4,5-TP	ug/l					
PESTICIDES:						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
ACID EXTRACTABLES:						
PHENOL	ug/l	<10	<10	<10	<10	
2-CHLOROPHENOL	ug/l	<10	<10	<10	<10	
2-NITROPHENOL	ug/l	<10	<10	<10	<10	
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<10	<10	
2,4-DICHLOROPHENOL	ug/l	<10	<10	<10	<10	
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<10	<10	
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<10	<10	
2,4-DINITROPHENOL	ug/l	<25	<25	<25	<25	
4-NITROPHENOL	ug/l	<25	<25	<25	<25	
2-METHYL-4,6-DINITROPHENOL	ug/l	<25	<25	<25	<25	
PENTACHLOROPHENOL	ug/l	<25	<25	<50	<50	
BASE/NEUTRAL EXTRACTABLES:						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<10	<10	
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<10	<10	
1,3-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	
1,4-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	
1,2-DICHLOROBENZENE	ug/l	<10	<10	<10	<10	
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<10	<10	
HEXACHLOROETHANE	ug/l	<10	<10	<10	<10	
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<10	<10	
NITROBENZENE	ug/l	<10	<10	<10	<10	
ISOPHORONE	ug/l	<10	<10	<10	<10	
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<10	<10	
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<10	<10	
NAPHTHALENE	ug/l	<10	55	78	38	
HEXACHLOROBUTADIENE	ug/l	<10	<10	<10	<10	
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<10	<10	
2-CHLORONAPHTHALENE	ug/l	<10	<10	<10	<10	
ACENAPHTHYLENE	ug/l	<10	<10	<10	<10	
DIMETHYL PHTHALATE	ug/l	<10	<10	<10	<10	
2,6-DINITROTOLUENE	ug/l	<10	<10	<10	<10	
ACENAPHTHENE	ug/l	<10	38	68	38	
2,4-DINITROTOLUENE	ug/l	<10	<10	<10	<10	
FLUORENE	ug/l	<10	48	65	35	
DIETHYL PHTHALATE	ug/l	<10	<10	<10	<10	
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	
N-NITROSOPHENYLAMINE	ug/l	<10	<10	<10	<10	

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-6

PARAMETER	UNITS	6/2/91	7/18/91	10/26/91	1/16/92	4/16/92
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	118	218	107	
ANTHRACENE	ug/l	<10	40	68	32	
DI-N-BUTYL PHTHALATE	ug/l	<10	88	<10	<10	
FLUORANTHENE	ug/l	<10	<10	102	88	
BENZIDINE	ug/l	<25	<25	<100	<100	
PYRENE	ug/l	<10	88	105	80	
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<10	<10	
BENZ(A)ANTHRACENE	ug/l	<10	27.00	34	23	
CHRYSENE	ug/l	<10	31.00	35	24	
3,3'-DICHLOROBENZIDINE	ug/l	<25	<25	<20	<20	
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<10	<10	
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<10	<10	
BENZO(B)FLUORANTHENE	ug/l	<10	15	28	13	
BENZO(K)FLUORANTHENE	ug/l	<10	14	<10	11	
BENZO(A)PYRENE	ug/l	<10	18	<10	16	
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<10	<10	
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10	<10	<10	
BENZO(K,H)PERYLENE	ug/l	<10	<10	<10	<10	
2,3,7,8-TETRACHLORO-DIBENZO-P-DIOXIN	ug/l					
VOLATILE ORGANICS:						
CHLOROMETHANE	ug/l	<10	<10	<10	<10	
BROMOMETHANE	ug/l	<10	<10	<10	<10	
VINYL CHLORIDE	ug/l	<10	<10	<10	<10	
CHLOROETHANE	ug/l	<10	<10	<10	<10	
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	
ACROLEIN	ug/l	<100	<100	<100	<100	
ACRYLONITRILE	ug/l	<100	<100	<100	<100	
TRANS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	
CIS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	
TRICHLOROFLUOROMETHANE	ug/l	<5	<5	<5	<5	
1,1-DICHLOROETHENE	ug/l	<5	<5	<5	<5	
1,1-DICHLOROETHANE	ug/l	<5	<5	<5	<5	
TRANS-1,2-DICHLOROETHENE	ug/l	20	58	35	8	
CHLOROFORM	ug/l	<5	<5	<5	<5	
1,2-DICHLOROETHANE	ug/l	<5	<5	<5	<5	
1,1,1-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	
CARBON TETRACHLORIDE	ug/l	<5	<5	<5	<5	
BROMODICHLOROMETHANE	ug/l	<5	<5	<5	<5	
1,2-DICHLOROPROPANE	ug/l	<5	<5	<5	<5	
TRICHLOROETHENE	ug/l	22	12	<5	<5	
BENZENE	ug/l	<5	<5	<5	<5	
DIBROMOCHLOROMETHANE	ug/l	<5	<5	<5	<5	
1,1,2-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	
2-CHLOROETHYL VINYL ETHER	ug/l	<10	<10	<10	<10	
BROMOFORM	ug/l	<5	<5	<5	<5	
TETRACHLOROETHENE	ug/l	23	17	<5	<5	
1,1,2,2-TETRACHLOROETHANE	ug/l	<5	<5	<5	<5	
TOLUENE	ug/l	<5	<5	<5	<5	
CHLOROBENZENE	ug/l	<5	<5	<5	<5	
ETHYLBENZENE	ug/l	<5	<5	<5	<5	

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-5

NOTES:

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(1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS F PERIOD 4/10/85 THROUGH 4/24/86.

(2) BENZ(A)ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/16/86.

(3) ONLY SAMPLED FOR FECAL COLIFORM.

(4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.



PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-4

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	5/19/88	1/18/89	4/18/89
ALKALINITY, TOTAL	mg/l	218.00	288.00	257		327.00	288.00	268.00	339.00
AMMONIA NITROGEN	mg/l	43.5	52.00	72.00		89.0	45.0	80.0	82.5
TOTAL COLIFORM	cfu/100 ml	<2	<1	>40000		7500.00	131 <10	<2.2	>18
BIOCHEMICAL OXYGEN DEMAND	mg/l	10.5	53.5	33.0		42.5	21.00	32.00	28.00
TOTAL ORGANIC CARBON	mg/l	5.9	15.2	13.8		4.27	8.2	7.00	9.9
CHEMICAL OXYGEN DEMAND	mg/l	1280.00	31.00	88.1		198.00	580.00	440.00	310.00
CHLORIDE	mg/l			25.8		31.2	8.00	24.00	12.00
CYANIDE, TOTAL	mg/l	3.1	2.8	10.8		1.78	0.102	8.20	0.014
FLUORIDE	mg/l	0.33	0.44	0.41		0.40	0.3	0.3	0.3
ALUMINUM, DISSOLVED	mg/l						<0.01	<0.01	<0.01
ARSENIC, DISSOLVED	mg/l						<0.1	0.1	0.1
BARIUM, DISSOLVED	mg/l						<0.005	<0.005	<0.005
CADMIUM, DISSOLVED	mg/l					0.031	<0.06	<0.06	<0.06
CHROMIUM, DISSOLVED	mg/l	<0.001	0.001	0.004			<0.06	<0.06	<0.06
IRON, DISSOLVED	mg/l	1.7	0.1	0.5		1.2			
LEAD, DISSOLVED	mg/l						<0.05	<0.05	<0.05
MANGANESE, DISSOLVED	mg/l	2.3	1.4	1.3		1.8			
MERCURY, DISSOLVED	mg/l						<0.0005	<0.0005	<0.0005
SELENIUM, DISSOLVED	mg/l						<0.005	<0.005	<0.005
SILVER, DISSOLVED	mg/l						<0.01	<0.01	<0.01
SODIUM, DISSOLVED	mg/l	40.8	97.00	83.00		72.0			84.5
NITRATE NITROGEN	mg/l	<0.28	<0.28	<0.21		<0.21	0.8	<0.5	<0.5
TOTAL ORGANIC HALOGENS	ug/l	<5	<10	142.00		113.00	5.00	<5	<5
PHENOLICS	mg/l	<0.005	<0.005	<0.005		0.008			
pH	standard	7.40	7.40	7.40		7.15	7.48	7.39	7.20
TOTAL DISSOLVED SOLIDS	mg/l	492.00	540.00	438.00		528.00	380.00	580.00	480.00
SPECIFIC CONDUCTANCE	umhos/cm	848.00	1110.00	1010.00		1180.00	820.00	1100.00	1040.00
SULFATE	mg/l	141.00	212.00	210.00		280.00	128.00	268.00	180.00
HERBICIDES:									
2,4-D	ug/l								
2,4,6-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2-CHLOROPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2-NITROPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2,4-DIMETHYLPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2,4-DICHLOROPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10		<10	<10	<10	<10	<10
2,4-DINITROPHENOL	ug/l	<50	<50		<50	<50	<25	<25	<25
4-NITROPHENOL	ug/l	<50	<50		<50	<50	<25	<25	<25
2-METHYL-4,6-DINITROPHENOL	ug/l	<50	<50		<50	<50	<25	<25	<25
PENTACHLOROPHENOL	ug/l	<50	<50		<50	<50	<25	<25	<25
BASENEUTRAL EXTRACTABLES:									
N-NITROSODIMETHYLAMINE	ug/l				<11	<10	<10	<10	<10
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10		<11	<10	<10	<10	<10
1,3-DICHLOROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
1,4-DICHLOROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
1,2-DICHLOROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10		<11	<10	<10	<10	<10
HEXACHLOROETHANE	ug/l	<10	<10		<11	<10	<10	<10	<10
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10		<11	<10	<10	<10	<10
NITROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
ISOPHORONE	ug/l	<10	<10		<11	<10	<10	<10	<10
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10		<11	<10	<10	<10	<10
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
NAPHTHALENE	ug/l	<10	<10		28.00	<10	40.00	20.00	<10
HEXACHLOROBUTADIENE	ug/l	<10	<10		<11	<10	<10	<10	<10
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10		<11	<10	<10	<10	<10
2-CHLORONAPHTHALENE	ug/l	<10	<10		<11	<10	<10	<10	<10
ACENAPHTHYLENE	ug/l	<10	18.00		21.00	<10	30.00	30.00	18.00
DIMETHYL PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
2,6-DINITROTOLUENE	ug/l	<10	<10		<11	<10	<10	<10	<10
ACENAPHTHENE	ug/l	27.00	18.00		<11	13.00	50.00	40.00	35.00
2,4-DINITROTOLUENE	ug/l	<10	<10		<11	<10	<10	<10	<10
FLUORENE	ug/l	24.00	13.00		11.00	<10	30.00	20.00	18.00
DIETHYL PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10		<11	<10	<10	<10	<10
N-NITROSODIPHENYLAMINE	ug/l	<10	<10		<11	<10	<10	<10	<10

PHILADELPHIA COKE COMPANY  
GROUNDWATER MONITORING DATABASE

MONITORING WELL W-6

PARAMETER	UNITS	4/16/87	7/17/87	10/28/87	2/11/88	3/8/88	6/19/88	1/16/89	4/18/89
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10		<11	<10	<10	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10		<11	<10	<10	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10		<11	<10	<10	<10	<10
PHENANTHRENE	ug/l	<10	<10		<11	<10	<10	<10	<10
ANTHRACENE	ug/l	<10	<10		<11	<10	<10	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
FLUORANTHENE	ug/l	17.00	<10		<11	<10	10.00	<10	<10
BENZIDINE	ug/l				<22	<20	<25	<25	<25
PYRENE	ug/l	17.00	<10		<11	<10	20.00	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	<10		<11	<10	<10	<10	<10
CHRYSENE	ug/l	<10	<10		<11	<10	<10	<10	<10
3,3'-DICHLORO BENZIDINE	ug/l	<20	<20		<22	<20	<25	<25	<25
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10		<11	<10	<10	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	<10		<11	<10	<10	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	<10		<11	<10	<10	<10	<10
BENZ(A)PYRENE	ug/l	<10	<10		<11	<10	<10	<10	<10
INDENO(1,2,3-C)DIPYRENE	ug/l	<10	<10		<11	<10	<10	<10	<10
DIBENZO(A,H)ANTHRACENE	ug/l	<10	<10		<11	<10	<10	<10	<10
BENZO(G,H)PERYLENE	ug/l	<10	<10		<11	<10	<10	<10	<10
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	ug/l	<10	<10		<11	<10			
VOLATILE ORGANICS:									
CHLOROMETHANE	ug/l	<2.0	<2.0	<2		<2	<10	<10	<10
BROMOMETHANE	ug/l	<2.0	<2.0	<2		<2	<10	<10	<10
VINYL CHLORIDE	ug/l	<2.0	<2.0	<2		<2	<10	<10	<10
CHLOROETHANE	ug/l	<2.0	<2.0	<2		<2	<10	<10	<10
METHYLENE CHLORIDE	ug/l	24.00	<1.0	<1		<1	<5	<5	<5
ACROLEIN	ug/l						<100	<100	<100
ACRYLONITRILE	ug/l						<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l					<1	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
CHLOROFORM	ug/l	<1.0	<1.0	<1		<2	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
TRICHLOROETHENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
BENZENE	ug/l	<1.0	<1.0	3.00		<1	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<2.0	<2.0	<2		<2	<10	<10	<10
BROMOFORM	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
TETRACHLOROETHENE	ug/l	<1.0	1.00	<1		<1	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
TOLUENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
CHLOROBENZENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5
ETHYLBENZENE	ug/l	<1.0	<1.0	<1		<1	<5	<5	<5

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MONITORING WELL W-8

PARAMETER	UNITS	8/1/89	10/30/89	1/11/90	4/5/90	7/10/90	10/11/90	1/8/91	2/20/91
ALKALINITY, TOTAL	mg/l	384.00		347.00	314.00	380.00	464.00	348.00	
AMMONIA NITROGEN	mg/l	39.8		66.2	43.6	79.3	66.6	9.1	
TOTAL COLIFORM	cfu/100 ml	2.2		2.2	<2.2	<2.2	<2.2	<2.2	
BIOCHEMICAL OXYGEN DEMAND	mg/l	28.00		63	24.00		38.00	63.00	
TOTAL ORGANIC CARBON	mg/l	8.8		8.1	7.0	8.8	10.0	7.5	(4) 6.8
CHEMICAL OXYGEN DEMAND	mg/l	360.00		1290.00	430.00	60.00	270.00	1880.00	
CHLORIDE	mg/l	8.00		28.00	19.00	12.00	18.00	15.00	
CYANIDE, TOTAL	mg/l	0.162		0.410	0.104	0.168	0.067	0.427	
FLUORIDE	mg/l	0.3		0.2	0.2	0.3	0.2	0.1	
ALUMINUM, DISSOLVED	mg/l								
ARSENIC, DISSOLVED	mg/l	<0.01		0.01	<0.01	<0.01	<0.01	0.01	
BARIUM, DISSOLVED	mg/l	0.1		0.1	0.1	0.1	<0.2	<0.2	
CADMIUM, DISSOLVED	mg/l			<0.006	<0.006	<0.006	<0.006	<0.006	
CHROMIUM, DISSOLVED	mg/l	<0.06		<0.06	<0.06	<0.06	<0.06	<0.06	
IRON, DISSOLVED	mg/l								
LEAD, DISSOLVED	mg/l	<0.06		<0.06	<0.06	<0.06	<0.06	<0.06	
MANAGANESE, DISSOLVED	mg/l								
MERCURY, DISSOLVED	mg/l	<0.0006		<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
SELENIUM, DISSOLVED	mg/l	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	
SILVER, DISSOLVED	mg/l	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
SODIUM, DISSOLVED	mg/l	43.4		46.1	39.3	66.8	74.8	37.5	
NITRATE NITROGEN	mg/l	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	
TOTAL ORGANIC HALOGENS	ug/l	<6		8.00	5.00	<6	8.00	11.00	(4) <10
PHENOLICS	mg/l								
pH	standard	7.20		7.48	7.24	7.12	7.43	6.97	(4) 6.82
TOTAL DISSOLVED SOLIDS	mg/l	430.00		640.00	670.00	670.00	660.00	600.00	
SPECIFIC CONDUCTANCE	umhos/cm	820.00		1180.00	1180.00	1270.00	1300.00	1030.00	(4) 1010
SULFATE	mg/l	146.00		218.00	248.00	190.00	168.00	167.00	
HERBICIDES:									
2,4-D	ug/l								
2,4,6-TP	ug/l								
PESTICIDES:									
ENDRIN	ug/l								
LINDANE	ug/l								
METHOXYCHLOR	ug/l								
TOXAPHENE	ug/l								
ACID EXTRACTABLES:									
PHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2-CHLOROPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2-NITROPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2,4-DIMETHYLPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2,4-DICHLOROPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
4-CHLORO-3-METHYLPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2,4,6-TRICHLOROPHENOL	ug/l	<10		<10	<10	<10	<10	<60	
2,4-DINITROPHENOL	ug/l	<25		<25	<25	<25	<25	<130	
4-NITROPHENOL	ug/l	<25		<25	<25	<25	<25	<130	
2-METHYL-4,6-DINITROPHENOL	ug/l	<25		<25	<25	<25	<25	<130	
PENTACHLOROPHENOL	ug/l	<25		<25	<25	<25	<25	<130	
BASE NEUTRAL EXTRACTABLES:									
N-NITROSODIMETHYLAMINE	ug/l	<10		<10	<10	<10	<10	<60	
BIS(2-CHLOROETHYL)ETHER	ug/l	<10		<10	<10	<10	<10	<60	
1,3-DICHLOROBENZENE	ug/l	<10		<10	<10	<10	<10	<60	
1,4-DICHLOROBENZENE	ug/l	<10		<10	<10	<10	<10	<60	
1,2-DICHLOROBENZENE	ug/l	<10		<10	<10	<10	<10	<60	
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10		<10	<10	<10	<10	<60	
HEXACHLOROETHANE	ug/l	<10		<10	<10	<10	<10	<60	
N-NITROSODI-N-PROPYLAMINE	ug/l	<10		<10	<10	<10	<10	<60	
NITROBENZENE	ug/l	<10		<10	<10	<10	<10	<60	
ISOPHORONE	ug/l	<10		<10	<10	<10	<10	<60	
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10		<10	<10	<10	<10	<60	
1,2,4-TRICHLOROBENZENE	ug/l	<10		<10	<10	<10	<10	<60	
NAPHTHALENE	ug/l	44.00		72.00	66.00	34.00	18.00	180.00	
HEXACHLOROBTADIENE	ug/l	<10		<10	<10	<10	<10	<60	
HEXACHLOROCYCLOPENTADIENE	ug/l	<10		<10	<10	<10	<10	<60	
2-CHLORONAPHTHALENE	ug/l	<10		<10	<10	<10	<10	<60	
ACENAPHTHYLENE	ug/l	36.00		37.00	38.00	32.00	26.00	<60	
DIMETHYL PHTHALATE	ug/l	<10		<10	<10	<10	<10	<60	
2,6-DINITROTOLUENE	ug/l	<10		<10	<10	<10	<10	<60	
ACENAPHTHENE	ug/l	68.00		69.00	63.00	71.00	66.00	164.00	
2,4-DINITROTOLUENE	ug/l	<10		<10	<10	<10	<10	<60	
FLUORENE	ug/l	46.00		49.00	47.00	40.00	33.00	111.00	
DIETHYL PHTHALATE	ug/l	<10		<10	<10	<10	<10	<60	
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10		<10	<10	<10	<10	<60	
N-NITROSODIPHENYLAMINE	ug/l	<10		<10	<10	<10	<10	<60	



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MONITORING WELL W-6

PARAMETER	UNITS	6/2/91	7/18/91	10/26/91	1/16/92	4/16/92
ALKALINITY, TOTAL	mg/l	263.00	318.00	400.00	385.00	
AMMONIA NITROGEN	mg/l	31.2	36.8	50.8	46.8	
TOTAL COLIFORM	cfu/100 ml	<2.2	2.2	>18	16.00	
BIOCHEMICAL OXYGEN DEMAND	mg/l	<12	22.00	21.00	26.00	
TOTAL ORGANIC CARBON	mg/l	5.6	6.8	8.6	8.0	
CHEMICAL OXYGEN DEMAND	mg/l	130.00	480.00	<60	<60	
CHLORIDE	mg/l	8.00	8.00	16.00	24.00	
CYANIDE, TOTAL	mg/l	0.034	0.240	0.028	1.48	
FLUORIDE	mg/l	0.3	0.3	0.3	0.3	
ALUMINUM, DISSOLVED	mg/l					
ARSENIC, DISSOLVED	mg/l		0.06	0.40	<0.01	
BARIUM, DISSOLVED	mg/l		0.4	0.4	<0.1	
CADMIUM, DISSOLVED	mg/l		<0.006	<0.006	<0.006	
CHROMIUM, DISSOLVED	mg/l		0.18	0.21	<0.06	
IRON, DISSOLVED	mg/l					
LEAD, DISSOLVED	mg/l		0.44	0.46	<0.06	
MANGANESE, DISSOLVED	mg/l					
MERCURY, DISSOLVED	mg/l		0.0028	0.0028	<0.0006	
SELENIUM, DISSOLVED	mg/l		<0.006	<0.006	<0.006	
SILVER, DISSOLVED	mg/l		<0.01	<0.01	<0.01	
SODIUM, DISSOLVED	mg/l		37.2	46.0	55.4	
NITRATE NITROGEN	mg/l	<0.6	<0.6	<0.6	<0.6	
TOTAL ORGANIC HALOGENS	ug/l	<6	<6	8.00	<6	
PHENOLICS	mg/l					
pH	standard	8.96	7.18	8.00	7.14	
TOTAL DISSOLVED SOLIDS	mg/l	420.00	430.00	600.00	660.00	
SPECIFIC CONDUCTANCE	umhos/cm	839.00	868.00	1070.00	1190.00	
SULFATE	mg/l	152.00	136.00	143.00	174.00	
HERBICIDES:						
2,4-D	ug/l					
2,4,6-TP	ug/l					
PESTICIDES:						
ENDRIN	ug/l					
LINDANE	ug/l					
METHOXYCHLOR	ug/l					
TOXAPHENE	ug/l					
ACID EXTRACTABLES:						
PHENOL	ug/l	<10	<10	<20	<10	
2-CHLOROPHENOL	ug/l	<10	<10	<20	<10	
2-NITROPHENOL	ug/l	<10	<10	<20	<10	
2,4-DIMETHYLPHENOL	ug/l	<10	<10	<20	<10	
2,4-DICHLOROPHENOL	ug/l	<10	<10	<20	<10	
4-CHLORO-3-METHYLPHENOL	ug/l	<10	<10	<20	<10	
2,4,6-TRICHLOROPHENOL	ug/l	<10	<10	<20	<10	
2,4-DINITROPHENOL	ug/l	<25	<25	<60	<25	
4-NITROPHENOL	ug/l	<25	<25	<60	<25	
2-METHYL-4,6-DINITROPHENOL	ug/l	<25	<25	<60	<25	
PENTACHLOROPHENOL	ug/l	<25	<60	<100	<60	
BASE NEUTRAL EXTRACTABLES:						
N-NITROSODIMETHYLAMINE	ug/l	<10	<10	<20	<10	
BIS(2-CHLOROETHYL)ETHER	ug/l	<10	<10	<20	<10	
1,3-DICHLOROBENZENE	ug/l	<10	<10	<20	<10	
1,4-DICHLOROBENZENE	ug/l	<10	<10	<20	<10	
1,2-DICHLOROBENZENE	ug/l	<10	<10	<20	<10	
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	<10	<10	<20	<10	
HEXACHLOROETHANE	ug/l	<10	<10	<20	<10	
N-NITROSODI-N-PROPYLAMINE	ug/l	<10	<10	<20	<10	
NITROBENZENE	ug/l	<10	<10	<20	<10	
ISOPHORONE	ug/l	<10	<10	<20	<10	
BIS(2-CHLOROETHOXY)METHANE	ug/l	<10	<10	<20	<10	
1,2,4-TRICHLOROBENZENE	ug/l	<10	<10	<20	<10	
NAPHTHALENE	ug/l	<10	48.00	<20	32.00	
HEXACHLOROBUTADIENE	ug/l	<10	<10	<20	<10	
HEXACHLOROCYCLOPENTADIENE	ug/l	<10	<10	<20	<10	
2-CHLORONAPHTHALENE	ug/l	<10	<10	<20	<10	
ACENAPHTHYLENE	ug/l	20.00	33.00	<20	23.00	
DIMETHYL PHTHALATE	ug/l	<10	<10	<20	<10	
2,6-DINITROTOLUENE	ug/l	<10	<10	<20	<10	
ACENAPHTHENE	ug/l	35.00	58.00	37.00	51.00	
2,4-DINITROTOLUENE	ug/l	<10	<10	<20	<10	
FLUORENE	ug/l	20.00	51.00	<20	34.00	
DIETHYL PHTHALATE	ug/l	<10	<10	<20	<10	
4-CHLOROPHENYL PHENYL ETHER	ug/l	<10	<10	<20	<10	
N-NITROSODIPHENYLAMINE	ug/l	<10	<10	<20	<10	

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PARAMETER	UNITS	5/2/91	7/19/91	10/26/91	1/16/92	4/16/92
1,2-DIPHENYLHYDRAZINE	ug/l	<10	<10	<20	<10	<10
4-BROMOPHENYL PHENYL ETHER	ug/l	<10	<10	<20	<10	<10
HEXACHLOROBENZENE	ug/l	<10	<10	<20	<10	<10
PHENANTHRENE	ug/l	<10	20.00	<20	15.00	<10
ANTHRACENE	ug/l	<10	11.00	<20	<10	<10
DI-N-BUTYL PHTHALATE	ug/l	<10	<10	<20	<10	<10
FLUORANTHENE	ug/l	<10	32.00	<20	24.00	<10
BENZIDINE	ug/l	<25	<25	<200	<100	<10
PYRENE	ug/l	<10	31.00	<20	<10	<10
BUTYL BENZYL PHTHALATE	ug/l	<10	<10	<20	<10	<10
BENZ(A)ANTHRACENE	ug/l	<10	18.00	<20	12.00	<10
CHRYSENE	ug/l	<10	18.00	<20	13.00	<10
3,3'-DICHLOROBENZIDINE	ug/l	<25	<25	<40	<20	<10
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	<10	<10	<20	<10	<10
DI-N-OCTYL PHTHALATE	ug/l	<10	<10	<20	<10	<10
BENZO(B)FLUORANTHENE	ug/l	<10	14.00	<20	<10	<10
BENZO(K)FLUORANTHENE	ug/l	<10	13.00	<20	<10	<10
BENZO(A)PYRENE	ug/l	<10	13.00	<20	<10	<10
INDENO(1,2,3-C,D)PYRENE	ug/l	<10	<10	<20	<10	<10
DIBENZ(A,H)ANTHRACENE	ug/l	<10	<10	<20	<10	<10
BENZO(G,H,I)PERYLENE	ug/l	<10	<10	<20	<10	<10
2,3,7,8-TETRACHLORO-DIBENZO-P-DIOXIN	ug/l	<10	<10	<20	<10	<10
VOLATILE ORGANICS:						
CHLOROMETHANE	ug/l	<10	<10	<10	<10	<10
BROMOMETHANE	ug/l	<10	<10	<10	<10	<10
VINYL CHLORIDE	ug/l	<10	<10	<10	<10	<10
CHLOROETHANE	ug/l	<10	<10	<10	<10	<10
METHYLENE CHLORIDE	ug/l	<5	<5	<5	<5	<5
ACROLEIN	ug/l	<100	<100	<100	<100	<100
ACRYLONITRILE	ug/l	<100	<100	<100	<100	<100
TRANS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
CIS-1,3-DICHLOROPROPENE	ug/l	<5	<5	<5	<5	<5
TRICHLOROFLUOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TRANS-1,2-DICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
CHLOROFORM	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
1,1,1-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
CARBON TETRACHLORIDE	ug/l	<5	<5	<5	<5	<5
BROMODICHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,2-DICHLOROPROPANE	ug/l	<5	<5	<5	<5	<5
TRICHLOROETHENE	ug/l	<5	<5	<5	<5	<5
BENZENE	ug/l	<5	<5	<5	<5	<5
DIBROMOCHLOROMETHANE	ug/l	<5	<5	<5	<5	<5
1,1,2-TRICHLOROETHANE	ug/l	<5	<5	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	ug/l	<10	<10	<10	<10	<10
BROMOFORM	ug/l	<5	<5	<5	<5	<5
TETRACHLOROETHENE	ug/l	<5	<5	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	ug/l	<5	<5	<5	<5	<5
TOLUENE	ug/l	<5	<5	<5	<5	<5
CHLOROBENZENE	ug/l	<5	<5	<5	<5	<5
ETHYLBENZENE	ug/l	<5	<5	<5	<5	<5

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MONITORING WELL W-8

NOTES:

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- (1) 1,3 CIS-DICHLOROPROPENE AND 1,3 TRANS-DICHLOROPROPENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS FOR PERIOD 4/10/86 THROUGH 4/24/86.
- (2) BENZ[A]ANTHRACENE AND CHRYSENE COULD NOT BE RESOLVED, VALUES REPORTED INDICATE THE SUM OF BOTH COMPOUNDS. 10/16/85.
- (3) ONLY SAMPLED FOR FECAL COLIFORM.
- (4) THE VALUE REPORTED IS THE RESULT OF QUADRUPPLICATE SAMPLES.