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BCM

TABLES

TABLE 1
MONITORING WELL SPECIFICATIONS
USS FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Well No	Company	Year	Well Inner Diameter (inches)	Well Depth (ft)	Screen Length(ft)	Total Boring Depth (ft)	Aquifer	Elevation TOC (feet)	Elevation Ground (feet)
1	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	19.6	17.1
2	Chester Engineers	1980	2	NA	NA	31.5	Qcm/Qp	21.1	19.2
3	Chester Engineers	1980	2	NA	NA	22	Qcm/Qp	23.5	20.9
4	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	24.8	21.7
5	Chester Engineers	1980	2	**25.8***	NA	26.5	Qcm/Qp	21.6	19.1
6	Chester Engineers	1980	2	**23.54***	NA	22	Qcm/Qp	21.7	18.8
7	Chester Engineers	1980	2	**24.20***	NA	27	Qcm/Qp	23.1	19.9
7A	Chester Engineers	1980	2	**27.19***	NA	27	Qcm/Qp	23.9	20.2
8	Chester Engineers	1980	2	NA	NA	21.5	Qcm/Qp	18.9	15.5
8A	Chester Engineers	1980	4	**31.56***	NA	15	Qcm/Qp	**18.13**	NA
9	Chester Engineers	1980	2	**16.48***	NA	16.5	Qcm/Qp	14.8	12.1
9A	**NA**	**NA**	**4**	**16.49***	**NA**	**NA**	**NA**	**NA**	**NA**
10	Chester Engineers	1980	2	**25.62***	NA	26.5	Qcm/Qp	16.8	13.9
11	Chester Engineers	1980	2	**24.05***	NA	26.5	Qcm/Qp	21	18.7
12	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	21.7	19.4
13	Chester Engineers	1980	2	**26.84***	NA	26.5	Qcm/Qp	23.2	20
14	Chester Engineers	1980	2	**22.97***	NA	21.5	Qcm/Qp	16.5	12.6
15	Chester Engineers	1980	2	**26.65***	NA	26.5	Qcm/Qp	16.8	13.7
16	Chester Engineers	1980	2	**30.48***	NA	26.5	Qcm/Qp	21.3	18.9
17	Chester Engineers	1980	2	**31.45***	NA	31.5	Qcm/Qp	22.9	20.1
18	Chester Engineers	1980	2	**27.36***	NA	26.5	Qcm/Qp	22.6	19.5
19	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	19.7	17.8
20	Chester Engineers	1980	2	NA	NA	31.5	Qcm/Qp	20.1	17.4
20A	Chester Engineers	1980	4	NA	NA	30	NS	NA	20.1
21	Chester Engineers	1980	4	NA	NA	31.5	Qcm/Qp	20.9	18.4
22	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	23	20.4
23	Chester Engineers	1980	2	**31.08***	NA	31.5	Qcm/Qp	22.2	19.4
24	Chester Engineers	1980	2	**33***	NA	31.5	Qcm/Qp	21.7	17.9
24A	Chester Engineers	1980	4	NA	NA	30	NS	NA	20.8
25	Chester Engineers	1980	4	NA	NA	26.5	Qcm/Qp	14.5	12.6
26	Chester Engineers	1980	4	NA	NA	26.5	Qcm/Qp	22.2	19.1
27	Chester Engineers	1980	2	**26.65***	NA	26.5	Qcm/Qp	23	19.8
28	Chester Engineers	1980	2	**31.08***	NA	31.5	Qcm/Qp	21.1	18.4
29	Chester Engineers	1980	2	**23.46***	NA	21.5	Qcm/Qp	16	12.1
30	Chester Engineers	1980	2	**24.06***	NA	22	Qal	17.6	13.6
31	Chester Engineers	1980	2	**25.19***	NA	26.5	Qcm/Qp	22.8	20.1
32	Chester Engineers	1980	4	**27.30***	NA	26.5	Qcm/Qp	13.5	10.7
33	Chester Engineers	1980	2	**26.68***	NA	26.5	Qcm/Qp	11.8	8.8
34	Chester Engineers	1980	2	**31.70***	NA	31.5	Qcm/Qp	23.5	20.1
35	Chester Engineers	1980	2	**21.90****	NA	26.5	Qcm/Qp	16.1	13
36	Chester Engineers	1980	2	**32.44***	NA	31.5	Qcm/Qp	23.4	20.1
37	Chester Engineers	1980	4	**23.99***	NA	27	Qcm/Qp	18.4	16.4

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FAIRLESS HILLS, PENNSYLVANIA

Well No	Company	Year	Well Inner Diameter (inches)	Well Depth (ft)	Screen Length(ft)	Total Boring Depth (ft)	Aquifer	Elevation TOC (feet)	Elevation Ground (feet)
38	Chester Engineers	1980	2	**26.80****	NA	26.5	Qcm/Qp	15.52	12.8
39	Chester Engineers	1980	4	**27.60****	NA	31.5	Qcm/Qp	21.88	18.7
40	Chester Engineers	1980	2	NA	NA	31.5	Qcm/Qp	22.5	19.3
41	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	24	20.5
42	Chester Engineers	1980	2	**26.05****	NA	26.5	Qcm/Qp	22.5	19.6
43	Chester Engineers	1980	2	**27.15****	NA	27	Qcm/Qp	22.57	20.6
44	Chester Engineers	1980	2	**27.65****	NA	26.5	Qcm/Qp	22.87	19.6
45	Chester Engineers	1980	2	**23.41***	NA	21.5	Qcm/Qp	19.6	15.8
46	Chester Engineers	1980	2	**26.74***	NA	26.5	Qcm/Qp	21.4	18.2
47	Chester Engineers	1980	2	**27.26***	NA	27	Qcm/Qp	19.8	17.2
48	Chester Engineers	1980	2	**30.00***	NA	31.5	Qal	22.9	20.3
49	Chester Engineers	1980	2	**27.08***	NA	26.5	Qcm/Qp	22.9	20.1
50	Chester Engineers	1980	2	**21.62***	NA	27	Qcm/Qp	22.1	18
51	Chester Engineers	1980	2	NA	NA	22	Qcm/Qp	22	18.6
52	Chester Engineers	1980	2	**25.61***	NA	26.5	Qcm/Qp	22.6	19.2
53	Chester Engineers	1980	2	**28.60****	NA	26.5	Qcm/Qp	23.34	19.8
54	Chester Engineers	1980	2	NA	NA	26.5	Qcm/Qp	24.4	20.5
55	Chester Engineers	1980	2	**24.70***	NA	26.5	Qcm/Qp	22.9	19.7
56	Chester Engineers	1980	4	**23.23***	NA	26.5	Qcm/Qp	24	20.6
57	Chester Engineers	1980	4	NA	NA	26.5	Qcm/Qp	24.5	21.1
58	Chester Engineers	1980	2	**28.63***	NA	27	Qcm/Qp	27	24.1
59	Chester Engineers	1980	2	**31.61***	NA	31.5	Qcm/Qp	26.5	22.9
60	Chester Engineers	1981	4	**32.84***	NA	31.5	Qcm/Qp	27.5	24.5
61	Chester Engineers	1980	2	**32.60***	NA	31.5	Qcm/Qp	26.5	23.2
63	Chester Engineers	1980	2	**29.30***	NA	31.5	Qcm/Qp	26	22.8
64	Chester Engineers	1980	2	**32.76***	NA	31.5	Qcm/Qp	26.2	23
65	Chester Engineers	1980	4	**23.36***	NA	21.5	Qal	17	13.3
66	Chester Engineers	1980	2	**31.38***	NA	31.5	Qcm/Qp	25.5	22.3
67	Chester Engineers	1980	2	**22.48***	NA	31.5	Qcm/Qp	27.8	24.2
68	Chester Engineers	1981	2	**30.64***	NA	31.5	Qcm/Qp	26.9	23.5
69	Chester Engineers	1981	2	**28.54***	NA	27	Qcm/Qp	27.7	23.8
70	Chester Engineers	1980	2	**26.05***	NA	27	Qcm/Qp	27.5	22.9
71	Chester Engineers	1981	2	NA	NA	27	Qcm/Qp	28.6	25
72	Chester Engineers	1981	**6**	**28.85***	NA	NA	Qcm/Qp	20.5	17.2
72A	Baker TSA	1984	4	**29.7***	**10**	**27**	Qcm/Qp	**19.8**	**16.2**
73	Chester Engineers	1980	2	**30.50***	NA	31.5	Qcm/Qp	28.9	25.1
74	Chester Engineers	1980	2	**23.58***	NA	27	Qcm/Qp	17.5	14.1
76	Chester Engineers	1980	2	NA	NA	17	Qcm/Qp	12	8.1
77	Chester Engineers	1980	4	NA	NA	16.5	Qcm/Qp	9.5	6.9
78	Chester Engineers	1980	4	**28.15***	NA	31.5	Qcm/Qp	21	17.6
79	Chester Engineers	1980	2	**27.55****	NA	27	Qcm/Qp	15.11	14.9
80	Baker TSA	1984	4	20	**10**	**20**	Qcm/Qp	**16.18**	**12.7**

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Well No	Company	Year	Well Inner Diameter (inches)	Well Depth (ft)	Screen Length(ft)	Total Boring Depth (ft)	Aquifer	Elevation TOC (feet)	Elevation Ground (feet)
81	Baker TSA	1984	4	50.2	**10**	65	Qcm/Qp	**13.87**	**10.2**
82	Baker TSA	1984	4	36.7	**10**	35	Qcm/Qp	**23.34**	**19.7**
[(B-2)	Woodward Clyde	1980	1	71.5	10	71.5	Kro	NA	NA]
[(B-4)	Woodward Clyde	1980	4	41.5	5	41.5	Qcm/Qp	NA	NA]
[(B-8)	Woodward Clyde	1980	4	16.5	5	16.5	Qal	NA	NA]
[(B-17)	Woodward Clyde	1980	4	26.5	5	26.5	Qcm/Qp	NA	NA]
[(B-23)	Woodward Clyde	1980	4	19	5	19	Qcm/Qp	NA	NA]
[(B-24)	Woodward Clyde	1980	3	80.5	10	80.5	Kro	NA	NA]
[(B-25)	Woodward Clyde	1980	3	66.5	10	66.5	Kro	NA	NA]
[TB-5	Orbital Engineering	1982	1	65.8	NA	35.8	Qcm/Qp	NA	NA]
[W-19	Orbital Engineering	1982	2	166.5	NA	35.5	Qcm/Qp	NA	NA]
[TB-7	Orbital Engineering	1982	1	62	NA	24.7	Qcm/Qp	NA	NA]
[TB-8	Orbital Engineering	1982	1	116.2	NA	68.5	Kro	NA	NA]
[W-14	Orbital Engineering	1982	2	24	NA	24	Qcm/Qp	NA	NA]
[W-15	Orbital Engineering	1982	2	24.8	NA	24.8	Qcm/Qp	NA	NA]
[TB-10	Orbital Engineering	1982	1	34.8	NA	34.8	Qcm/Qp	NA	NA]
[W-18	Orbital Engineering	1982	2	35.8	NA	35.8	Qcm/Qp	NA	NA]
[TB-12	Orbital Engineering	1982	1	24.8	NA	24.8	Qcm/Qp	NA	NA]
[TB-13D	Orbital Engineering	1982	1	150.2	NA	90	Kro	NA	NA]
[TB-13S	Orbital Engineering	1982	1	26	NA	26	Qcm/Qp	NA	NA]
[W-16	Orbital Engineering	1982	2	24.7	NA	24.7	Qcm/Qp	NA	NA]
[TB-15	Orbital Engineering	1982	1	191.5	NA	102.5	Kro	NA	NA]
83	Golder Assoc.	1987	2	24.7	NA	**26.6**	Qcm/Qp	NA	NA
84	Golder Assoc.	1987	2	38.5	NA	41.5	Qcm/Qp	NA	NA
86	Golder Assoc.	1987	2	46	NA	51	Qcm/Qp	NA	NA
87	Golder Assoc.	1987	2	35.8	NA	**47.7**	Qcm/Qp	NA	NA
88	Golder Assoc.	1987	2	**118.5**	NA	137.5	?	**14.82**	**12**
89	Golder Assoc.	1987	2	27.5	NA	**60**	Qcm/Qp	NA	NA
90	Golder Assoc.	1987	2	38.9	NA	45	Qcm/Qp	NA	NA
FUA01D	Earth Sciences	1988	2	**103.2***	10.2	114	Krs	15.39	12.4
FUA02D	Earth Sciences	1988	2	**100.5***	10	106.5	Krs	17.3	14.2
FUA03	Earth Sciences	1988	2	**34.4****	10.2	55	Qcm/Qp	17.1	14.3
FUA04D	Earth Sciences	1988	2	**109****	10	112	Krs	17.99	14.5
FUA05	Earth Sciences	1988	2	**29.8****	10.2	29.8	Qcm/Qp	15.43	12.5
FUA06D	Earth Sciences	1988	2	**108****	10	114.5	Krs	15.87	12.8
FUB01	Earth Sciences	1988	2	**29****	10.2	45.5	Qp	23.22	20.46
FUB02	Earth Sciences	1988	2	**29.2****	10.2	34	Qcm/Qp	18.24	15.27
FUB03	Earth Sciences	1988	2	**16.6****	5.2	19.2	Qp	14.74	NA
FUB04	Earth Sciences	1988	2	**28.8****	10.2	32	Qp	17.06	13.88
FUB05D	Earth Sciences	1988	2	**82****	10.2	84	Kro	16.67	14.04
FUB06	Earth Sciences	1988	2	**33****	10	33.5	Qp	22.62	19.65
FUB07	Earth Sciences	1988	2	**31.3****	11.2	34	Qcm/Qp	19.97	16.56

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Well No	Company	Year	Well Inner Diameter (inches)	Well Depth (ft)	Screen Length(ft)	Total Boring Depth (ft)	Aquifer	Elevation TOC (feet)	Elevation Ground (feet)
FUB08	Earth Sciences	1988	2	**28****	10	37	Qp	22.02	19.05
FUB09	Earth Sciences	1988	2	**30.7****	10.5	62	Qp	17.51	14.54
FUB10D	Earth Sciences	1988	2	**89.1****	10	98	Kro	18.79	15.68
FUB11	Earth Sciences	1988	2	**36.7****	10.2	39	Qp	18.43	15.46
FUB12	Earth Sciences	1988	2	**32.8****	10	41.5	Qp	23.82	20.62
FUB13	Earth Sciences	1988	2	**28.9****	10.2	34.5	Qp	19.98	16.9
FUB14	Earth Sciences	1988	2	**29.6****	10	34.5	Qp	21.7	18.64
FUB15D	Earth Sciences	1988	2	**74.5****	5	93.5	Kro	21.58	18.38
FUB16	Earth Sciences	1988	2	**33.3****	10.2	38.6	Qp	16.93	14.14
TB-1A	Geomechanics Inc.	1988	2	**19.67****	10	20	Qcm/Qp	21.86	NA
TB-1B	Geomechanics Inc.	1988	2	**31.84****	10	32	Qcm/Qp	22.11	NA
TB-1C	Geomechanics Inc.	1988	2	**41.8****	10	42	Kro	22.31	NA
TB-1D	Geomechanics Inc.	1988	2	**79.7****	10	80	Krs	22.23	NA
TB-3A	Geomechanics Inc.	1988	2	**26.8****	10	28	Qcm/Qp	22.09	NA
TB-3C	Geomechanics Inc.	1988	2	**51.8****	10	52	Kro	20.61	NA
TB-4A	Geomechanics Inc.	1988	2	**16.56****	10	18	Qcm/Qp	20.5	NA
TB-4B	Geomechanics Inc.	1988	2	**31.05****	10	32	Qcm/Qp	20.82	NA
TB-4C	Geomechanics Inc.	1988	2	**48.8****	10	50	Kro	21.05	NA
TB-4D	Geomechanics Inc.	1988	2	**76.85****	10	78	Krs	20.95	NA
TB-5A	Geomechanics Inc.	1988	2	**21.09****	10	22	Qcm/Qp	22.55	NA
TB-5B	Geomechanics Inc.	1988	2	**31.2****	10	32	Qcm/Qp	22.4	NA
TB-5C	Geomechanics Inc.	1988	2	**41.35****	10	42	Kro	22.3	NA
MW-1	UEC Environmental	1990	2	**27.25**	10	27.5	NL	NA	NA
MW-2	UEC Environmental	1990	2	**27.25**	10	27.5	NL	NA	NA
RW-1	UEC Environmental	1990	6	**24.5**	10	25	NL	NA	NA
MW-3	UEC Environmental	1990	2	**16.5**	10	16.75	NL	NA	NA
MW-4	UEC Environmental	1990	2	**17.25**	10	17.5	NL	NA	NA
MW-5	UEC Environmental	1990	2	**23.75**	10	24	NL	NA	NA
MW-6	UEC Environmental	1990	2	**17.75**	10	18	NL	NA	NA
MW-7	UEC Environmental	1990	2	**21.75**	10	22	NL	NA	NA
MW-8	UEC Environmental	1990	2	**28.75**	10	29	NL	NA	NA
MW-1	Waste Technology	1991	NA	NA	NA	NA	Qcm/Qp	**17.03**	**14.94**
MW-2	Waste Technology	1991	2	24.4	10	24.4	Qcm/Qp	**22.97**	**20.53**
MW-3	Waste Technology	1991	2	**19.57**	10	24.41	Qcm/Qp	**23.12**	**20.35**
MW-4	Waste Technology	1991	2	19.53	10	21	Qcm/Qp	**21.81**	**18.51**
MW-5	Waste Technology	1991	2	23.58	10	23.58	Qcm/Qp	**23.85**	**21.11**
MW-6	Waste Technology	1991	2	23.43	10	23.43	Qcm/Qp	**21.57**	**19.69**
MW-7	Waste Technology	1991	2	19.5	10	21	Qcm/Qp	**22.81**	**21.37**
MW-8	Waste Technology	1991	2	18.83	10	20	Qcm/Qp	**22.03**	**18.73**
MW-9	Waste Technology	1991	2	25.5	10	26	Qcm/Qp	**23.49**	**20.58**
MW-1	Norbec Environ. Ltd	1991	4	14	10	**14**	Qcm/Qp	101.5	98.79
MW-2	Norbec Environ. Ltd	1991	4	**12.7**	10	**15**	Qcm/Qp	101.6	98.78

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Well No	Company	Year	Well Inner Diameter (inches)	Well Depth (ft)	Screen Length(ft)	Total Boring Depth (ft)	Aquifer	Elevation TOC (feet)	Elevation Ground (feet)
MW-3	Norbec Environ. Ltd	1991	4	13.5	10	**15**	Qcm/Qp	101.9	98.98
MW-10	Langenfelder & Son	1992	4	17	10	17	Qcm/Qp	100.4	NA
MW-11	Langenfelder & Son	1992	4	14.5	10	14.5	Qcm/Qp	99.79	NA
MW-12	Langenfelder & Son	1992	4	16	10	16	Qcm/Qp	99.9	NA
MW-1	Waste Technology	1992	2	24.5	10	25	Qcm/Qp	23.71	NA
MW-2	Waste Technology	1992	2	24.29	10	26	Qcm/Qp	22.92	NA
MW-3	Waste Technology	1992	2	25.1	10	26	Qcm/Qp	23.21	NA
MW-4	Waste Technology	1992	2	24.79	10	26	Qcm/Qp	22.88	NA

Notes

*** = Depth from top of casing**
**** = Depth from top of PVC inner casing**
NA = Not Available
NS = No Sampling of borehole
NL = No log available, only well diagram

Qal = Alluvium
Qcm = Cape May Formation
Qp = Pensauken Formaton
Kro = Old Bridge Sand Member
Krs = Sayreville Sand member
? = Unknown formation

Table 2
NPDES Sampling

U. S. Steel
Fairless Works

Location	Parameters	Frequency	Sampling Protocol	Analytical Protocol
Outfall 002 - East Canal Outfall				
	Temperature	Biweekly	Grab	Thermometer
	pH	Biweekly	Grab	Orion Meter 231
	Oil & Grease	Biweekly	Grab	EPA 413.1
	BOD5	Biweekly	Composite- ISCO	EPA 405.1
	Flow Measurement	Biweekly	Current Meter	Marsh- McBirney
	FSOD	Monthly	Composite- ISCO	EPA 405.1
Outfall 004 - Power House Effluent				
	Temperature	Biweekly	Grab	Thermometer
	pH	Biweekly	Grab	Orion Meter 231
	BOD5	Biweekly	24-hr. Composite	EPA 405.1
	Flow Measurement	Biweekly	Power House Data	N. A.
	FSOD	Monthly	24-hr. Composite	EPA 405.1
Outfall 403 - OIP Effluent				
	Total Chrome	Weekly	Composite- Randolph Pump	EPA 200.7
	Total Lead	Weekly	Composite- Randolph Pump	EPA 239.2
	Total Zinc	Weekly	Composite- Randolph Pump	EPA 200.7
	Total Nickel	Monthly	Composite- Randolph Pump	EPA 200.7
	Hexavalent Chrome	Monthly	Composite- ISCO	EPA 218.4
	Tetrachloroethene	Monthly	Grab	EPA 601
	Naphthalene	Monthly	Grab	EPA 625
	Total Cyanide	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Cadmium	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Copper	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Silver	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Toxic Organics	Yearly	Grab	**
	2 Flow Measurements	Weekly	Manning Meters	N. A.
Outfall 103A - Terminal Treatment Plant Influent				
	BOD5	Weekly	Composite- Randolph Pump	EPA 405.1
	Total Susp. Solids	Weekly	Composite- Randolph Pump	EPA 160.2
	Oil & Grease	Weekly	Grab	EPA 413.1

Table 2
NPDES Sampling

U. S. Steel
Fairless Works

Location	Parameters	Frequency	Sampling Protocol	Analytical Protocol
Outfall 103 - Terminal Treatment Plant Effluent				
	pH	Daily	Grab	Orion Meter 231
	Oil & Grease	Daily	Grab	EPA 413.1
	Flow	Daily	Manning Meter	N. A.
	BOD5	Weekly	Composite- Randolph Pump	EPA 405.1
	Total Susp. Solids	Weekly	Composite- Randolph Pump	EPA 160.2
	Total Phenols	Weekly	Composite- Randolph Pump	EPA 420.1
	FSOD	Monthly	Composite- Randolph Pump	EPA 405.1
Outfall 203A - Sewage Treatment Influent				
	BOD5	Weekly	Composite- Randolph Pump	EPA 405.1
	Total Susp. Solids	Weekly	Composite- Randolph Pump	EPA 160.2
	Temperature	Weekly	Grab	Thermometer
Outfall 203 - Sewage Treatment Effluent				
	pH	Daily	Grab	Orion Meter 231
	Flow	Weekly	Calc. from Meters	N. A.
	Fecal Coliform	Weekly	Grab	Std Method 909C
	BOD5	Weekly	Composite- Randolph Pump	EPA 405.1
	Total Susp. Solids	Weekly	Composite- Randolph Pump	EPA 160.2
	FSOD	Monthly	Composite- Randolph Pump	EPA 405.1
Outfall 303 - Central Canal				
	pH	Weekly*	Grab	Orion Meter 231
	Temperature	Weekly*	Grab	Thermometer
	Oil & Grease	Weekly*	Grab	EPA 413.1
	BOD5	Weekly*	Composite- ISCO	EPA 405.1
	Total Susp. Solids	Weekly*	Composite- ISCO	EPA 160.2
	Flow	Weekly*	V- Notch Weir	N. A.

Table 2
NPDES Sampling

U. S. Steel
Fairless Works

Location	Parameters	Frequency	Sampling Protocol	Analytical Protocol
Outfall 1001 - River Intake				
	pH	Weekly	Grab	Orion Meter 231
	Temperature	Weekly	Grab	Thermometer
	Oil & Grease	Weekly	Grab	EPA 413.1
	Total Chrome	Weekly	Composite- Randolph Pump	EPA 200.7
	Total Lead	Weekly	Composite- Randolph Pump	EPA 239.2
	Total Zinc	Weekly	Composite- Randolph Pump	EPA 200.7
	FSOD	Weekly	Composite- Randolph Pump	EPA 405.1
	Hexavalent Chrome	Monthly	Composite- Randolph Pump	EPA 218.4
	Total Chrome	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Cadmium	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Copper	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Silver	Yearly	Composite- Randolph Pump	EPA 200.7
	Total Toxic Organics	Yearly	Grab	**
	BOD5	Weekly	Composite- Randolph Pump	EPA 405.1
	Total Susp. Solids	Weekly	Composite- Randolph Pump	EPA 160.2
	Total Phenols	Weekly	Composite- Randolph Pump	EPA 420.1
Outfall 005 - Blast Furnace Cooling Water				
	Observation to ensure that there is no discharge			
Outfall 007 - West Canal				
	Observation to ensure that there is no discharge			

* These samples are taken only when there is a discharge (about 3 to 5 weeks a year)
** EPA 608, 625, 624; SW 846 8080

Table 3

Typical Surplus Coke Oven Gas Analysis

U.S. Steel
Fairless Works

Component	Volume (%)
Hydrogen Sulfide	0.730
Hydrogen Cyanide	0.025
Hydrogen	55.370
Oxygen	1.070
Nitrogen	5.910
Carbon Monoxide	5.895
Carbon Dioxide	1.400
Methane	26.070
Ethylene	2.440
Ethane	0.790
Benzene	0.130
Propylene	0.170
Total	100.000
BTU/Cubic foot	530.000
Specific Gravity	0.378

Source: U.S. Steel

TABLE 4
SUMMARY OF WASTE DISPOSAL

USS Fairless Works
Fairless Hills, Pennsylvania

Waste Type	Hazardous Waste Code	Annual Amount (tons) 1981*	1988	Current
Blast Furnace Slag		94,900	25,695	Ceased Operation
Cast House Debris		NA	1,226	Ceased Operation
Tar Decanter Sludge	K087	1,877	Ceased Operation	Ceased Operation
Ammonium Still Lime Sludge	K060	730	Ceased Operation	Ceased Operation
Contractor Refuse		3,129	NA	NA
Electric Arc Furnace Caster Sludge		2,086	Ceased Operation	Ceased Operation
Electric Arc Furnace Sludge		4,563	Ceased Operation	Ceased Operation
Electric Arc Furnace Slag		65,804	Ceased Operation	Ceased Operation
FMTP Sludge		9,125	2,650	5,573
Sheet & Tin SPL	K062/D002	NA	31,912	25,252
Open Hearth Debris		NA	1,549	Ceased Operation
Open Hearth Flue Dust		54,750	1,548	Ceased Operation
Open Hearth Slag		803,000	150,000	Ceased Operation
Pipe Mill Spent Chromic Solution	D007/D002	NA	401	**LaClede Steel Co. (Leasee)**
Pipe Mill Refuse		5,214	NA	**LaClede Steel Co. (Leasee)**
Pipe Mill SPL	K062/D002	NA	1,374	**LaClede Steel Co. (Leasee)**
Power House Water Trtmnt Sldg		2,282	NA	0
Rolling Mill Debris		NA	1,355	Ceased Operation
Sanitary Sludge		323	NA	0
Terminal Treatment Sludge		36,500	64	0
Track Debris		5,214	NA	NA
Waste Brick		16,686	NA	NA
Wire Mill Refuse/Borax Refuse		8,343	Ceased Operation	Ceased Operation
Asbestos Containing Materials		NA	NA	363
Used Tires		NA	NA	20
Waste Solvents	D001/D006/D007/D008 D018/D039/F001	NA	NA	61

*These quantities were reported in 1981 but reflect 1980 conditions.

NA = Not Available

Sources: Chester Engineers, 1981; US Steel 1988 SARA 313 Report; US Steel PA Residual Waste Report (1992)

BCM

TABLE [4]5

SLAG ANALYSES

Constituent	Open Hearth Slag	Electric Furnace Slag	Blast Furnace Slag
CaO	25.0	44.00	31.49
SiO_2	15.00	8.50	34.72
FeO	38.45*	28.95	0.68
Al_2O_3	5.00	8.50	12.60
MgO	9.0	8.00	15.96
MnO	5.17	1.50	0.52
P_2O_5	2.29	0.50	----
S	0.07	0.09	1.65

*Some FeO is present as Fe_2O_3.

Source: The Chester Engineers, 1981.

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TABLE [5]6
BLAST FURNACE SLAG LEACHING TESTS

USS Fairless Works
Fairless Hills, Pennsylvania

Parameter	Regulatory Limits TCLP/EP Tox	EP TOX Air Cooled Slag*	EP TOX Granulated Slag*	Water Leachate** (ASTM Method A)	TCLP*** Air Cooled Slag	TCLP*** Granulated Slag
Arsenic, mg/l	5	<0.5	<0.02	<0.005	<0.1	<0.1
Barium, mg/l	100	0.53	0.28	0.1	<10	<10
Cadmium, mg/l	1	<0.03	<0.01	<0.01	<0.1	<0.1
Chromium, mg/l	5	<0.05	<0.02	<0.01	<0.1	<0.1
Lead, mg/l	5	<0.3	<0.1	<0.02	0.3	0.4
Mercury, mg/l	0.2	0.001	0.001	<0.0002	<0.01	<0.01
Nickel, mg/l	NA	NA	NA	NA	<1	<1
Selenium, mg/l	1	<0.02	<0.04	0.0008	<0.1	<0.1
Silver, mg/l	5	<0.03	<0.01	<0.01	<0.1	<0.1
Thallium, mg/l	NA	NA	NA	NA	<0.1	<0.1

*Chester Engineers, 1981
**Golder Associates, 1987
***US Steel, 1990

TABLE 7

DOCUMENTED FIRES

USS Fairless Works
Fairless Hills, Pennsylvania

	Date	Location	Incident	Response Action
1	2/17/83	Rolling Division Billet Mills Billet Conditioning Yard	Hydraulic oil fire	3% foam
2	5/6/83	Sheet and Tin Mill, south end of tin temper mill storage pit	Oil fire in storage pit	400 gallons of water and foam
3	5/9/83	Blast Furnace ladle house, or Sulphurizing station east side	Chemical Tank Mag-Alum on fire	Metal-X Agent , fire extinguished
4	6/20/83	Blast Furnace, east side ladle house	Desulphurizing flux on fire	Extinguished
5	6/26/83	Sheet & Tin, scrap pit south end of combo line	Scrap pit on fire	200 gallons of water
6	7/8/83	No. 3 blast furnace slag pit	Fire ignited from ruptured hydraulic line of Warner payloader	600 gals. water
7	7/21/83	PORI Tank in waste heat area	fire	pump house steam system smothers fire
8	7/27/83	Pit at north end of locomotive shop	fire	extinguished w/extinguishers
9	3/16/84	Coke, Iron, and Sinter Division, Open Hearth Diesel Fueling Station	fuel oil fire	Extinguished
10	5/17/84	General Services Bldg No. 62 Diesel Repari Bldg	Dump on fire	Extinguished
11	10/23/84	Rolling Division No. 2 soaking Pits South end in Basement	oil, grease, and trash, ignited	extinguished

TABLE 7

DOCUMENTED FIRES

USS Fairless Works
Fairless Hills, Pennsylvania

	Date	Location	Incident	Response Action
12	2/14/85	Transportation, Bldg No. 23	Ditch south of oil house, oil burning	foam
13	8/29/85	Sheet & Tin Raw coil storage building	Conveyor Pit oil and debris in pit, fire	Extinguished
14	5/28/86	No. 2 Blast Furnace	Fire at natural gas tank	150 gals. water
15	1/25/88	Locomotive Shop	Diesel Fuel leak into M13 track pit, ignited	Extinguished
16	5/24/88	Behind dock office	Electrical switchgear fire	Extinguished
17	9/28/88	Transportation Div. North Railroad yard North of locker Bldg 210	Fire on tracks resulting from train fuel leak	Extinguished
18	9/8/89	Open Hearth, south end of charging floor	Electrical fire	Extinguished
19	9/23/89	Blast Furnace division office and trailer	Working Structure Fire	Extinguished
20	10/28/89	Rod Mill Office	fire interior and exterior	3.5 hours of pumping water
21	12/11/89	North end of Coke Works	Coke fire on tracks	2500 gals of water
22	5/3/90	Contractor's Area West of oil lagoon	Rubbish fire	water
23	6/24/90	Sheet & Tin Combination Line No. 3 loop pit	oil fire	Foam blanket and water
24	7/7/90	North of Open Hearth, Desulphurizing Station	Magnesium Sulfate Fire	Dry Powder and Talcum Powder
25	7/10/90	Transportation Office	Grease Fire	Extinguished w/water

TABLE 7

DOCUMENTED FIRES

USS Fairless Works
Fairless Hills, Pennsylvania

	Date	Location	Incident	Response Action
26	7/29/90	South end of Stripper Building	Railroad (RR) ties	water to extinguish
27	9/21/90	North end of Skelp Mill	Class A-B fire	10 gals of water
28	9/28/90	American Bridge Yard	Rubbish and grease	Water to extinguish
29	10/3/90	North American Bridge Yard	Rubbish	500 gals. water
30	10/3/90	North Yard burning beds	Rubbish, old fuel tank	extinguished
31	10/6/90	American Bridge Yard	Trash	Water to extinguish
32	10/16/90	Near Bar Mill	Rubbish on track	Extinguished
33	11/19/90	Mini-Mobile Shop at Docks	Trash Fire	Extinguished
34	11/20/90	Docks near Mini-Mobile Shop	Scrap Fire	2500 gals water
35	11/22/90	Sheet Finishing Maintenance Locker Room #12	Heater Fire	100 gals water
36	1/18/91	45" Slab Mill Scarffer Pulpit	Electrical Fire in pulpit	Dry powder and Halon Extinguishers
37	1/25/91	Mobile Shop at Dock	Oil burner back fire	Shut down oil burner
38	1/31/91	West Side Stripper Bldg	RR tie fire	Extinguished w/water
39	6/14/91	West of Stripper Bldg	Trailer fully engulfed	Extinguished w/water
40	6/25/91	Galvanizing Line Substation 20	Electrical Switchgear Fire	Fire extinguished upon fire crew arrival

TABLE 7

DOCUMENTED FIRES

USS Fairless Works
Fairless Hills, Pennsylvania

	Date	Location	Incident	Response Action
41	7/11/91	East side of Bar Mill Along railroad tracks	Trash fire	Extinguished
42	9/11/91	East Railroad Yard Near Scale House	Railroad ties	200 gals. of water

Source: Fairless Works Fire Department

TABLE 8

DOCUMENTED SPILLS

USS Fairless Works
Fairless Hills, Pennsylvania

	Date	Location	Type of Spill	Volume Released	Response Action
1	12/12/72-1/15/73	Terminal Treatment Plant, outfall 103	Oil Sheen	Unknown	Oil Boom
2	4/2/74	#1 washer oil line	#1 Washer Oil Line at Coke Plant ruptured, oil flowed via sewer to canal #3 causing oil sheen	500 gallons	Oil boom oil recovered
3	6/26/74	Outfall 005	Alleged No. 6 fuel oil spill	<100 gals.	Oil boom, recovered oil
4	1/12/76	Delaware River	Iron ore sludge, unknown location	100 barrels	Unknown
5	8/1/77	No. 3 Blast Furnace	No. 6 fuel oil spill	Unknown	Oil boom
6	8/8/77	Terminal Treatment Plant (TTP)	Oil	6 gals.	Repair valve
7	6/5/78	East side slip	Pipe leak of No. 6 fuel oil	300 gals.	unknown
8	10/5/78	East side slip	No. 6 fuel oil pipe break	1800 gals.	Oil booms
9	12/12/78	Dock area/Delaware River	Oil spill from M/V World Nobility Ore Carrier	Unknown	Subcontractor, cleans spill
10	5/20/82	Dock Area	Refueling Navios Miner oil spill from barge	unknown	Unknown
11	3/4/83	Blast Furnace area	Fuel oil spill into storm sewer	Unknown	Unknown
12	1/3-4/84	Pickle Line Rinse Acid	Acid water discharging to storm sewer	Unknown	Condition discovered, discharged rerouted, monitored. Bucks County notified.
13	12/13/84	Dock Area	No. 6 fuel oil release to Delaware River	50-100 gals	Oil boom, cleanup. USCG, Bucks County and EPA notified.
14	8/29-30/85	Dock Area	Unknown source-possibly ship in port	Unknown	Oil boom, notified USCG
15	7/14/87	TTP	Oil release to Delaware River	<500 gals.	Oil booms and skimming notified Bucks County & USCG

Source: USS Fairless Works

TABLE 8

DOCUMENTED SPILLS

	Date	Location	Type of Spill	Volume Released	Response Action
16	8/31/87	TFS heat exchangers	Chrome discharge to East Canal	164 pounds	Shutdown of line, monitoring notified Bucks County
17	1/9/88	Fuel line at #2 Blast Furnace leak	No. 6 fuel oil pipe nipple broke oil on concrete and into storm sewer	>10 gals.	Stop leak oil boom and skimming, notified Bucks County & USCG
18	9/9/88	005 outfall at docks	Oil sheen, unknown source	unknown sheen	Oil boom, attempted cleanup notified USCG & Bucks County
19	3/29/89	Bulk oil storage	Tank truck fuel oil hose ruptured onto ground and containment	est. 500 gal.	Stop leak, cleanup notified Bucks County
20	5/1/89	Open Hearth Unloading Facilities	Overturned truck leaking fuel oil into storm impoundment	3500 gals.	collected oil & cleaned ground
21	8/23/89	4 stand rolling mill	Tank over fill release to storm sewer Nalclean 6599	200 gals.	Stop leak clean up with vacuum trucks skimming on East Canal, USCG & Bucks County notified
22	9/26/89	East #1 Dock fuel oil unloading line	No. 6 Fuel oil	20 gals.	skimmed/vacuumed USCG notified
23	12/10/89	HCL storage tank	HCL leak from piping	est. 50 gals.	Tank repaired
24	12/21/89	HCL storage tank	HCL leak from piping	est. 50 gals.	Tank repaired
25	5/17/90	HCL storage tank	Hydrochloric acid leak	unknown small amount	Unload tank, neutralize
26	9/6/90	Outfall from TTP	Sheen on discharge water	unknown	Oil booms, Bucks County, PADER, USCG notified
27	10/9/90	Pipe mill tank	Sulfuric Acid leak on ground and into storm sewer	est. 100 gals.	Stop leak, neutralize notified Falls Township Bucks County USCG
28	9/30/91	Bulk oil storage	Tank truck fuel oil hose ruptured onto ground and in containment	estimated 50 gals.	Stop leak, cleanup notified PADER and Bucks County
29	4/30/92	Wire mill tank, FTA-123	Residual (sulfuric) acidic crust and semi-liquid leaking onto ground	est. >100 gals.	Stop leak, neutralize Excavate soil, notified PADER

Source: USS Fairless Works

TABLE 9
PERMITS

USS Fairless Works
Fairless Hills, Pennsylvania

Pennsylvania Air Pollution Control Act

Permit No.	Plan Approval	Dates Effective	Dates Expiration	Description
09-307-002		4/20/83	9/20/88	Wire Mill Cleaning, 40" Mill & ESP, 45" Scarfer & ESP,
09-307-003		"	"	Billet Grinder
09-307-004		"	"	"
09-307-005		"	"	"
09-307-006		4/30/90	4/30/91	BF #2 & 3 Slag Pelletizers
09-307-016	8/27/81		10/31/86	OH Tapping Emissions Steam Supress
09-307-017		8/13/86	6/30/88	BF #3-Cast House Emissions
09-307-018		8/22/86	6/30/88	BF #2-Cast House Emissions
09-307-020	2/17/84			OH Tapping- Hoods
09-307-021	9/18/84			BF #1-Cast House Emissions
09-307-022	10/7/84		12/31/85	OH Coal Water Slurry
09-307-023	10/17/84			OH-Reladle Station Gas Suppressor
09-307-024		4/19/89	6/30/91	Desulfurization Process
09-324-001A	1/21/83	1/21/83	12/31/85	AERP, CEM-Sinter Plant
09-325-003		11/15/83		Alternate Emission Reduction Plan (SOx)

Source: U.S. Steel

TABLE 9
PERMITS

Miscellaneous Permits

Permit No.	[Plan Approval] Issuing Agent	Dates Effective	Expiration	Description
03-023-90	**U.S. Coast Guard**		7/31/90	Hot Works Permit
1526, 1819	**PA Dept. of Health - Sanitation Water Board**		2/14/52	BF Flue Dust Recovery
097221D	**PA Dept. of Health - Sanitation Water Board**			Industrial Waste
1524, 1818	**PA Dept. of Health - Sanitation Water Board**		4/15/57	Terminal Waste Treatment Plant
8094	**PA Dept. of Health - Sanitation Water Board**			Sanitary Sewage Plant
1526, 1786	**PA Dept. of Health - Sanitation Water Board**		1/27/56	FMTP
1982, 766I015	**PA Dept. of Health - Sanitation Water Board**		12/9/59	FMTP
766I007	**PA Dept. of Health - Sanitation Water Board**		4/3/68	Rod Mill Lagoon
972210	**PADER**		12/20/72	Continuous Caster

Solid Waste Management Activities

Permit No.	Name	Storage	Disposal	Presently Own	Presently Operated	Previously Owned	Previously Operated
PAD002375376	BP-20	X	X	X			X
300824	Slag Dispoal Area A		X	X	X		
300825	Slag Dispoal Area B		X	X	X		
300829	Possibly Area F		X	X	X		

Area F includes portions of BP-38, BP-40 and the land in between

Pennsylvania Clean Stream Law (NPDES)

Permit No. PA-0013463

Source: U.S. Steel

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
Well 1	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 2	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 3	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 4	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 5	7/80		X	X		X	X	X			
	1/81					X	X	X			
	8/87	X	X	X	X	X					
Well 6	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 7	7/80		X	X		X	X	X			
	1/81					X	X	X			
	9/87	X	X	X	X	X					
Well 7A	7/80		X	X		X	X	X			
	1/81					X	X	X			
	9/87	X	X	X	X	X					
Well 8	7/80		X	X		X	X	X			
	11/80					X	X	X			
	1/81					X	X	X			
	8/87	X	X	X	X	X					
Well 9	7/80		X	X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	11/80			X		X	X	X			
	1/81					X	X	X			
	8/87	X	X	X	X	X					
Well 9A	1/81		X	X		X	X	X			
Well 10	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 11	7/80		X	X		X	X	X			
	11/80			X		X					
	1/81					X	X	X			
Well 12	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 13	7/80		X	X		X	X	X			
	1/81					X	X	X			
	9/87	X	X	X	X	X					
Well 14	11/80		X	X		X	X	X			
	1/81					X	X	X			
	9/87	X	X	X	X	X					
Well 15	11/80		X	X		X	X	X			
	1/81					X	X	X			
Well 16	11/80		X	X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 17	7/80		X	X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 18	7/80		X	X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 19	7/80		X	X		X	X	X			
Well 20	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
Well 20A	11/80					X	X	X			
	1/81			X		X	X	X			
Well 21	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 22	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
Well 23	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 24	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 24A	1/81		X	X		X	X	X			
Well 25	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 26	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 27	7/80		X	X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	1/81					X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 28	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 29	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 30	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 31	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 32	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 33	7/80		X	X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
	9/87	X	X	X	X	X					
Well 34	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
	9/87	X	X	X	X	X					
Well 35	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X		X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			

TABLE 10
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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 36	7/80		X	X		X	X	X			
	1/81					X		X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
	9/87	X	X	X	X	X					
Well 37	7/80		X	X		X	X	X			
	1/81					X		X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			

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FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 38	7/80		X	X		X	X	X			
	1/81					X		X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X	X	X	X	X	X	X	X		
	6/82	X	X	X	X	X	X	X	X		
	9/82			X	X	X					
	11/82	X	X	X	X	X	X	X	X		
	12/1/82			X	X						
	12/82			X	X			X			
	6/83	X				X	X	X			
	9/83	X				X	X	X			
	12/83	X				X	X	X			
	3/84	X		X		X	X	X			
	6/84	X				X	X	X			
	9/84	X				X	X	X			
	12/84	X				X	X	X			
	3/85	X		X		X	X	X			
	6/85	X				X	X	X			
	9/85	X	X	X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
Well 39	7/80		X	X		X	X	X			
	1/81	X		X		X		X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X	X	X	X	X	X	X	X		
	6/82	X	X	X	X	X	X	X	X		
	9/82	X	X	X	X	X	X	X	X		
	11/82	X	X	X	X	X	X	X	X		
	12/82	X		X							
	3/83	X		X		X	X	X			

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	6/83	X				X	X	X			
	9/83	X				X	X	X			
	12/83	X				X	X	X			
	3/84	X		X		X	X	X			
	6/84	X				X	X	X			
	9/84	X				X	X	X			
	12/84	X				X	X	X			
	3/85	X		X		X	X	X			
	6/85	X				X	X	X			
	9/85	X	X	X	X	X	X	X	X		
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89			X		X		X			
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	5/90	X	X	X	X	X	X	X	X		
Well 40	7/80		X	X		X	X	X			
	1/81					X		X			
Well 41	7/80		X	X		X	X	X			
	1/81					X	X	X			
Well 42	7/80		X	X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X		X	X	X	X	X	X		
	6/82	X		X	X	X	X	X	X		
	9/82	X		X				X			
	11/82	X		X	X	X	X	X	X		
	12/82	X		X				X			
	3/83	X		X				X			
	6/83	X				X	X				
	9/83	X				X	X	X			
	12/83	X		X		X	X	X			
	3/84	X		X		X	X	X			
	6/84	X				X	X	X			
	9/84	X				X	X	X			
	12/84	X				X	X	X			
	3/85	X		X		X	X	X			
	6/85	X				X	X	X			
	9/85	X		X	X	X	X	X	X		
	12/85	X		X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
Well 43	3/86	X		X	X	X	X	X	X		
	6/86	X		X	X	X	X	X	X		
	3/87	X		X	X	X	X	X	X		
	6/87	X		X	X	X	X	X	X		
	9/87	X		X	X	X	X	X	X		
	11/87	X		X	X	X	X	X	X		
	3/88	X		X	X	X	X	X	X		
	6/88	X		X	X	X	X	X	X		
	9/88	X		X	X	X	X	X	X		
	11/88	X		X	X	X	X	X	X		
	2/89	X		X							
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X		X	X	X	X	X	X		
	2/90	X		X	X	X	X	X	X		
	5/90	X		X	X	X	X	X	X		
	7/80			X		X	X	X			
	8/80	X		X	X	X	X	X	X		
	11/80				X		X	X	X		
	1/81	X		X		X	X	X			
	12/81	X		X	X	X	X	X	X		
	1/82	X		X	X	X	X	X	X		
	6/82	X		X	X	X	X	X	X		
	9/82	X		X				X			
	11/82	X		X	X	X	X	X	X		
	12/82	X	X	X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/83	X		X		X	X	X			
	6/83	X				X	X	X			
	9/83	X				X	X	X			
	12/83	X				X	X	X			
	3/84	X		X		X	X	X			
	6/84	X				X	X	X			
	9/84	X				X	X	X			
	12/84	X				X	X	X			
	3/85	X		X		X	X	X			
	6/85	X				X	X	X			
	9/85	X	X	X	X	X	X	X	X		
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		

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FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
Well 44	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
	7/80			X		X	X	X			
	8/80	X	X	X	X	X	X	X	X		
	11/80			X		X	X	X			
	1/81					X	X	X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X	X	X	X	X	X	X	X		
	6/82	X		X	X	X	X	X	X		
	9/82			X		X	X	X			
	11/82	X		X	X	X	X	X	X		
	12/82	X	X	X				X			
	3/83	X	X	X	X	X	X	X	X		
	6/83	X	X	X	X	X	X	X	X		
	9/83	X	X	X	X	X	X	X	X		
	12/83	X	X	X	X	X	X	X	X		
	3/84	X	X	X	X	X	X	X	X		
	6/84	X	X	X	X	X	X	X	X		
	9/84	X	X	X	X	X	X	X	X		
	12/84	X	X	X	X	X	X	X	X		
	3/85	X	X	X	X	X	X	X	X		
	6/85	X	X	X	X	X	X	X	X		
	9/85	X	X	X	X	X	X	X	X		
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
Well 45	7/80			X		X	X	X			
	1/81					X	X	X			
Well 46	7/80			X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 47	7/80			X		X	X	X			
	1/81					X	X	X			
Well 48	7/80			X		X	X	X			
	1/81					X	X	X			
Well 49	7/80			X		X	X	X			
	1/81					X	X	X			
Well 50	7/80			X		X	X	X			

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 51	7/80			X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 52	7/80			X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
Well 53	7/80			X		X	X	X			
	8/80	X	X	X	X	X	X		X		
	1/81					X	X	X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X	X	X	X	X	X	X	X		
	6/82	X	X	X	X	X	X	X	X		
	9/82			X			X	X			
	11/82	X	X	X	X	X	X	X	X		
	12/1/82	X	X	X			X	X			
	12/16/82	X	X	X			X	X			
	3/83	X	X	X	X	X	X	X	X		
	6/83	X	X	X	X	X	X	X	X		
	9/83	X	X	X	X	X	X	X	X		
	12/83	X	X	X	X	X	X	X	X		
	3/84	X	X	X	X	X	X	X	X		
	6/84	X	X		X	X	X	X	X		
	9/84	X	X	X	X	X	X	X	X		
	12/84	X	X	X	X	X	X	X	X		

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/85	X	X	X	X	X	X	X	X		
	9/85	X	X	X	X	X	X	X	X		
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
Well 54	7/80			X		X	X	X			
	11/80			X		X	X	X			
	1/81					X	X	X			
	9/87	X	X	X	X	X	X				
Well 55	7/80			X		X	X	X			
	11/80						X				
	1/81					X	X	X			

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Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	9/87	X	X	X	X	X	X				
Well 56	1/81			X		X	X	X			
Well 57	1/81			X		X	X	X			
Well 58	1/81			X		X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 59	1/81			X		X	X	X			
Well 60	1/81			X		X	X	X			
Well 61	1/81			X		X	X	X			
Well 63	1/81			X		X	X	X			
Well 64	1/81			X		X	X	X			
Well 65	1/81			X		X	X	X			
Well 66	1/81			X		X	X	X			
Well 67	1/81			X		X	X	X			
Well 68	1/81			X		X	X	X			
Well 69	1/81			X		X	X	X			
Well 70	1/81			X		X	X	X			
	8/87	X	X	X	X	X					

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FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
Well 71	1/81			X		X	X	X			
Well 72	1/81					X	X	X			
Well 72A	8/87	X	X	X	X	X					
Well 73	1/81			X		X	X	X			
Well 74	1/81			X		X	X	X			
Well 76	1/81			X		X	X	X			
Well 77	1/81			X		X	X	X			
Well 78	1/81			X		X	X	X			
	3/83			X		X	X	X			
	6/83			X		X	X	X			
	9/83			X		X	X	X			
	12/83			X		X	X	X			
	3/84			X		X	X	X			
	6/84			X		X	X	X			
	9/84			X		X	X	X			
	12/84			X		X	X	X			
	3/85			X		X	X	X			
	6/85			X		X	X	X			
Well 79	12/80	X	X	X	X	X	X	X	X		
	1/81	X	X	X	X	X	X	X			
	12/81	X	X	X	X	X	X	X	X		
	1/82	X	X	X	X	X	X	X	X		
	9/82	X	X	X	X	X	X	X			
	11/82	X	X	X	X	X	X	X	X		
	12/1/82	X	X	X	X	X	X	X			
	12/16/82	X	X	X			X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	3/83	X	X	X	X	X	X	X	X		
	6/83	X	X	X	X	X	X	X	X		
	9/83	X	X	X	X	X	X	X	X		
	12/83	X	X	X	X	X	X	X	X		
	3/84	X	X	X	X	X	X	X	X		
	6/84	X	X	X	X	X	X	X	X		
	9/84	X	X	X	X	X	X	X	X		
	12/84	X	X	X	X	X	X	X	X		
	3/85	X	X	X	X	X	X	X	X		
	6/85	X	X	X	X	X	X	X	X		
	9/85	X	X	X	X	X	X	X	X		
	12/85	X	X	X	X	X	X	X	X		
	3/86	X	X	X	X	X	X	X	X		
	6/86	X	X	X	X	X	X	X	X		
	3/87	X	X	X	X	X	X	X	X		
	6/87	X	X	X	X	X	X	X	X		
	9/87	X	X	X	X	X	X	X	X		
	11/87	X	X	X	X	X	X	X	X		
	3/88	X	X	X	X	X	X	X	X		
	6/88	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
Well 80	8/87	X	X	X	X	X	X				
Well 83	9/87		X	X	X	X	X				
Well 84	9/87	X	X	X	X	X	X				
Well 86	9/87	X	X	X	X	X	X				
Well 87	9/87	X	X	X	X	X	X			X	X
Well 88	10/87	X	X	X	X	X	X				
Well 89	9/87	X	X	X	X	X	X				
Well 90	9/87	X	X	X	X	X	X			X	X
GW #5	2/88	X		X	X	X	X	X	X		X
GW #6	2/88	X		X	X	X	X	X	X		X
GW W95	1/88	X	X	X		X		X			
MW-1	9/91	X		X		X	X	X			
MW-2	9/91	X		X		X	X	X			
MW-3	9/91	X		X		X	X	X			
MW-4	9/91	X		X		X	X	X			
MW-5	9/91	X		X		X	X	X			
MW-6	9/91	X		X		X	X	X			
MW-7	9/91	X		X		X	X	X			
MW-8	9/91	X		X		X	X	X			
MW-9	9/91	X		X		X	X	X			
TB-1A	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X		X				X		
	12/31/88	X	X	X	X	X	X	X	X		

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
TB-1B	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
TB-1C	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
TB-1D	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-3A	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-3C	9/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		

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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	11/89	X		X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-4A	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X	X	X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-4B	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X	X	X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-4C	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		

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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X		X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-4D	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X		X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X		X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-5A	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X		X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	5/90	X	X	X	X	X	X	X	X		
TB-5B	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X		X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X	X	X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
TB-5C	9/88	X	X	X	X	X	X	X	X		
	11/88	X	X	X	X	X	X	X	X		
	12/1/88	X	X	X	X	X	X	X	X		
	12/31/88	X	X	X	X	X	X	X	X		
	2/89	X		X	X	X	X	X	X		
	5/89	X		X	X	X	X	X	X		
	8/89	X		X	X	X	X	X	X		
	11/89	X	X	X	X	X	X	X	X		
	2/90	X	X	X	X	X	X	X	X		
	5/90	X	X	X	X	X	X	X	X		
FUA01D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			

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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUA02D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
FUA03	10/88	X	X	X	X	X	X	X			

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUA04D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			

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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUA05	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUA06D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			

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SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
FUB01	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB02	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			

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U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB03	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB04	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91			X		X	X	X			
	1/92			X		X	X	X			
	4/92			X		X	X	X			
	7/92			X		X	X	X			
FUB05D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB06	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB07	10/88	X	X	X	X	X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB08	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB09	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB10D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB11	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	7/92	X	X	X	X	X	X	X			
FUB12	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB13	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB14	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB15D	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			
FUB16	10/88	X	X	X	X	X	X	X			
	2/89	X		X		X	X	X			
	5/89	X		X		X	X	X			
	8/89	X		X		X	X	X			
	11/89	X	X	X		X	X	X			
	2/90	X		X		X	X	X			
	5/90	X		X		X	X	X			
	8/90	X	X	X	X	X	X	X			
	11/90	X		X		X	X	X			
	1/91	X		X		X	X	X			
	4/91	X		X		X	X	X			
	8/91	X	X	X	X	X	X	X			
	10/91	X		X		X	X	X			

TABLE 10
SUMMARY OF ANALYTICAL PARAMETERS

U.S. STEEL - FAIRLESS WORKS
FAIRLESS HILLS, PENNSYLVANIA

Monitoring Well ID	Date	Volatiles	Semivols.	Metals	Pest./PCB's	Inorganic Param.	Indicator Param.	Physical Prop.	Radioactivity Param.	Dioxins/Furans	Herbicides
	1/92	X		X		X	X	X			
	4/92	X		X		X	X	X			
	7/92	X	X	X	X	X	X	X			

TABLE 11
WASTE TYPES AND ESTIMATED QUANTITIES

SWMU	Types of Wastes	Suspected Contaminants	Est. Size (acres)	t. Quantity (cy)	Current Status	Requires Evaluation
BP-2 North	Steel Making Slag Slag Fines Minimal General Refuse (wood, bricks, tires)	Minimal Contaminants Expected	37	150,000	Filled to Grade	N
BP-2 South	Steel Making Slag Minimal scrap metal, general refuse	Minimal Contaminants Expected	65	262,000	Filled to Grade	N
BP-3	Open Hearth Precipitator dust, Electric Arc Furnace Dust, Blast Furnace and Sinter Plant Dusts/Sludges General Refuse	Metals, Phenols	85	1,333,000	Segregated Cells Filled to Grade; Some Open Water	Y
BP-4	Steel Making Slag General Refuse, Scrap Metal, Ties	Minimal Contaminants Expected	108	350,000	Filled to grade	Y
BP-5A	Steel Making Slag Coal Fines, General Refuse, Scrap metal	Minimal Contaminants Expected	6.9	23,000	50% Filled to Grade	Y
BP-8	Steel Making Slag	Minimal Contaminants Expected	14.4	93,000	Filled to Grade	N
BP-8A	Tar Decanter Sludge Coke Breeze, and General Refuse	Cyanide, Phenol, Oils, BN-PAH's,	1.2	5,000	Some Tar Removed; Some Open Water	Y
BP-8B	Steel Making Slag, Coal Fines, General Refuse	Oil and Grease, Metals, Cyanide, Phenols	7	29,000	5.5 ac Filled to Grade	Y
BP-9	Steel Making Slag Ladle house wastes	Cyanide, Metals	16.6	107,000	Partially Filled to Grade	Y
BP-10	Steel Making Slag	Minimal Contaminants Expected	2	16,000	Filled to Grade	N
BP-10A	Steel Making Slag	Minimal Contaminants Expected	1	8,000	Filled to Grade	N
BP-10B	Steel Making Slag, Wastewater Overflow	Oil and Grease	2.1	8,000	Some Open Water	Y

TABLE 11
WASTE TYPES AND ESTIMATED QUANTITIES

SWMU	Types of Wastes	Suspected Contaminants	Est. Siz (acres)	t. Quantity (cy)	Current Status	Requires Evaluation
BP-13	Steel Making Slag Ladle house waste Paint waste Tar decanter sludge	VOC's, Heavy Metals,Ammonia, Cyanide, Phenol, Oils, BN-PAH's, VOC's,	6	35,000	Filled to Grade	Y
BP-13A	Coke Plant Wastewater Overflows Spent Caustic from Dephenolizer	Cyanide, Metals, Phenol	2.1	12,600	Filled to Grade	Y
BP-14 North	Steel Making Slag Coke Plant Wastewater Ammonia Still Lime Sludge Dephenolizer spent caustic	Ammonia, Phenol, Cyanide, Oils, Naphthalene	4.2	30,000	Filled to Grade	Y
BP-14 South	Steel Making Slag Coke Plant Wastewater Ammonia Still Lime Sludge Dephenolizer spent caustic	Ammonia, Phenol, Cyanide, Oils, Naphthalene	4.1	27,000	Partially Filled to Grade	Y
BP-15	Blast Furnace Slag	Minimal Contaminants Expected	12.3	80,000	Filled to grade	Y
BP-17	Steel Making Slag Minimal General Refuse	Ammonia, Phenol, Cyanide, Oil and Grease	15.8	72,000	11 ac filled to Grade	Y
BP-19	Steel Making Slag	Minimal Contaminants Expected	2.3	15,000	Filled to Grade	Y
BP-20	Tar Decanter Sludge, Slag	BN-PAH's, VOC's, Listed Haz. Waste (K060 & K087)	12.3	30,000	RCRA Closure	Y
BP-21	Blast Furnace Slag	Minimal Contaminants Expected	30.7	100,000	Wheelabrator Property	N
BP-23,24,25	Steel Making Slag	Minimal Contaminants Expected	31	100,000	Filled to grade	N
BP-26	Steel Making Slag	Minimal Contaminants Expected	4.8	31,000	Filled to Grade	N
BP-27	Steel Making Slag Minimal rail car and track maintenance	Minimal Contaminants Expected	9	36,000	Some Open Water	Y

TABLE 11
WASTE TYPES AND ESTIMATED QUANTITIES

SWMU	Types of Wastes	Suspected Contaminants	Est. Siz (acres)	t. Quantity (cy)	Current Status	Requires Evaluation
BP-29	Steel Making Slag	Minimal Contaminants Expected	1.4	9,000	Filled to Grade	N
BP-30	Steel Making Slag & Dredge Spoils	Minimal Contaminants Expected	1.4	9,000	Filled to Grade	N
BP-31	Blast Furnace Slag	Minimal Contaminants Expected	18.8	60,000	Wheelabrator Property	N
BP-31A	Blast Furnace Slag	Minimal Contaminants Expected	28.3	90,000	Wheelabrator Property	N
BP-32	Steel Making Slag, General Refuse, Dried Oil Sludge and scrap metal	Oil and Grease	9	36,000	Filled to Grade	Y
BP-33	Limited slag	Minimal Contaminants Expected			unused	N
BP-35	TTP Sludge Water	Oil and grease, Metals	2.9	23,000	Interim Measure Workplan Submitted	Y
BP-35A	TTP Sludge Water	Oil and grease, Metals	1.7	12,000	Interim Measure Workplan Submitted	Y
BP-35B	TTP Sludge	Oil and grease, Metals	2.8	45,000	Interim Measure Workplan Submitted	Y
BP-35C	TTP Sludge	Oil and grease, Metals	0.8	13,000	Interim Measure Workplan Submitted	Y
BP-36	Dredge Spoils	None	76.5	500,000	WMPA Mining	N
BP-37	Steel Making Slag & Dredge Spoils	Minimal Contaminants Expected	32	150,000	Filled to Grade	N
BP-38	Steel Making Slag	Minimal Contaminants Expected	47	230,000	Filled to Grade	N
BP-40	Steel Making Slag, acid rinse water, borax	Minimal Contaminants Expected	32	130,000	3.5 ac filled to grade	N
NT-2	Steel Making Slag pipe mill debris and brick	Oils, Metals	12.4	80,000	permitted for slag disposal	Y

TABLE 11
WASTE TYPES AND ESTIMATED QUANTITIES

SWMU	Types of Wastes	Suspected Contaminants	Est. Siz (acres)	t. Quantity (cy)	Current Status	Requires Evaluation
NT-3	FMTP sludge, lime stab. waste pickle liquor Scale Pit wastes	Oils, Chromium	32.6	91,000	Partially Filled To Grade	Y
NT-4	Steel Making Slag, Oil Skimmings Brick	Oil and Grease	15.4	100,000	Filled to Grade	Y
NT-A	Slag, pipe mill scale pit effluent), and minimal general refuse	Oils, Metals	12.5	80,700	4.8 ac filled to grade	Y
NT-B	Brick & pipe mill waste	Oils, Metals	4	25,000	Filled to Grade	Y