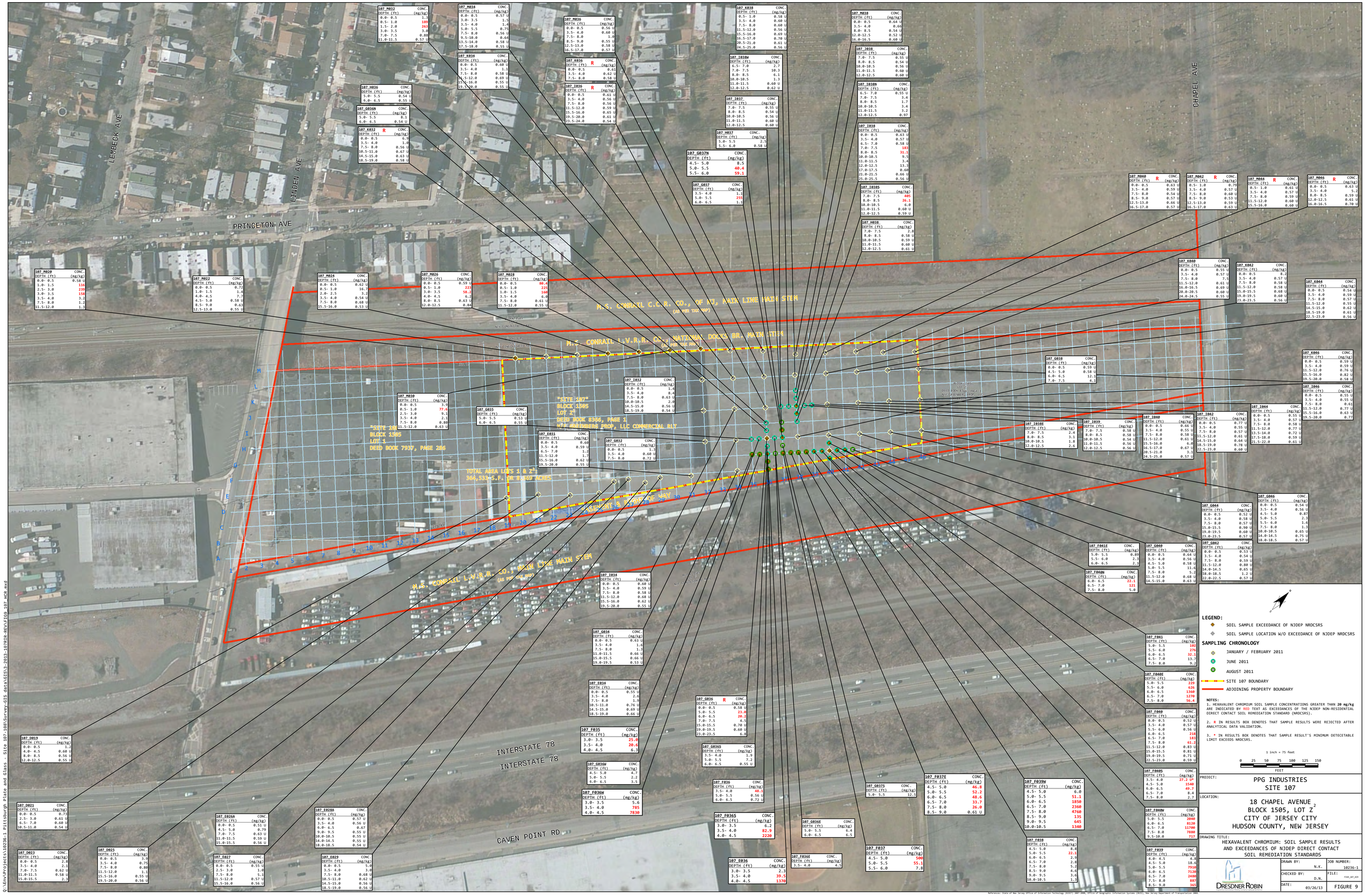
LEMBECK AVE
LINDEN AVE
PRINCETON AVE
CHAPEL AVE
CAVEN POINT RD
INTERSTATE 78
INTERSTATE 78
N.S. CONRAIL C.C.R. CO., NF 17, MAIN LINE MAIN STEM
N.S. CONRAIL L.V.R.R. CO., NATIONAL docks BR. MAIN STEM
N.S. CONRAIL L.V.R.R. CO., MAIN LINE MAIN STEM
"SITE 107"
BLOCK 1505
LOT 2
DEED BOOK 8365, PAGE 1
c/o: ARENDSEN PROP, LLC COMMERCIAL RLT
"SITE 107"
BLOCK 1505
LOT 1
DEED BOOK 7937, PAGE 286
TOTAL AREA LOTS 1 & 2:
364,533 S.F. OR 8.365 ACRES
ALIGNMENT AS OF MAY 30
107_M032 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 1.1
0.5- 1.0 189
1.5- 2.0 263
3.0- 3.5 3.0
7.0- 7.5 0.88
11.0-11.5 0.57 U
107_M034 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.57 U
3.0- 3.5 1.5
3.5- 4.0 1.4
5.0- 5.5 0.75
7.5- 8.0 0.56 U
9.5-10.0 0.64
13.5-14.0 0.58 U
17.5-18.0 0.55 U
107_M036 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.50 U
3.5- 4.0 0.60 U
7.5- 8.0 1.0
8.5- 9.0 0.55 U
12.5-13.0 0.58 U
16.5-17.0 0.57 U
107_K034 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.60 U
3.5- 4.0 1.1
7.5- 8.0 0.58 U
11.5-12.0 0.69 U
15.5-16.0 0.55 U
19.5-20.0 0.55 U
107_K036 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.61
3.5- 4.0 0.62 U
7.5- 8.0 0.58 U
107_I036 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.61 U
3.5- 4.0 0.56 U
7.5- 8.0 0.56 U
11.5-12.0 0.59 U
15.5-16.0 0.65 U
19.5-20.0 0.61 U
23.5-24.0 0.54 U
107_H036 CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 0.54 U
6.0- 6.5 0.55 U
107_G036N CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 8.1
6.0- 6.5 0.54 U
107_K032 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 6.9
3.5- 4.0 1.0
7.5- 8.0 0.56 U
10.5-11.0 0.67 U
14.5-15.0 0.63 U
18.5-19.0 0.58 U
107_I038 CONC.
DEPTH (ft) (mg/kg)
0.5- 1.0 0.58 U
3.5- 4.0 0.60 U
7.5- 8.0 0.60 U
11.5-12.0 0.56 U
15.5-16.0 0.69 U
16.5-17.0 0.70 U
20.5-21.0 0.61 U
24.5-25.0 0.56 U
107_I038W CONC.
DEPTH (ft) (mg/kg)
6.5- 7.0 2.7
7.0- 7.5 10.3
8.0- 8.5 6.1
10.0-10.5 1.3
11.0-11.5 0.60 U
12.0-12.5 0.62 U
107_I037 CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 0.55
8.0- 8.5 0.54 U
10.0-10.5 0.56 U
11.0-11.5 0.60 U
12.0-12.5 0.60 U
107_H037 CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 2.5
5.5- 6.0 0.58 U
107_G037N CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 8.5
5.0- 5.5 40.4
5.5- 6.0 59.1
107_G037 CONC.
DEPTH (ft) (mg/kg)
3.5- 4.0 1.1
5.0- 5.5 255
6.0- 6.5 1.1
107_H038 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.64 U
3.5- 4.0 0.60
8.0- 8.5 0.54 U
10.0-10.5 0.56 U
11.0-11.5 0.60 U
12.0-12.5 0.60 U
107_I038 CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 0.55 U
8.0- 8.5 0.54 U
10.0-10.5 0.56 U
11.0-11.5 0.60 U
12.0-12.5 0.60 U
107_I038N CONC.
DEPTH (ft) (mg/kg)
6.5- 7.0 0.55 U
7.0- 7.5 3.4
8.0- 8.5 1.7
10.0-10.5 3.4
11.0-11.5 3.2
12.0-12.5 0.97
107_I038 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.63 U
3.5- 4.0 0.57 U
6.5- 7.0 0.58 U
7.0- 7.5 185
8.0- 8.5 31.1
10.0-10.5 9.5
11.0-11.5 3.4
12.0-12.5 13.3
17.0-17.5 0.60
21.0-21.5 0.66 U
25.0-25.5 0.56 U
107_I038S CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 405
8.0- 8.5 26.1
10.0-10.5 6.0
11.0-11.5 0.60 U
12.0-12.5 0.59 U
107_H038 CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 2.8
8.0- 8.5 0.58 U
10.0-10.5 0.59 U
11.0-11.5 0.60 U
12.0-12.5 0.61 U
107_M040 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.63 U
3.5- 4.0 0.59 U
7.5- 8.0 0.54 U
8.5- 9.0 0.57 U
12.5-13.0 0.66 U
16.5-17.0 0.57 U
107_M042 R CONC.
DEPTH (ft) (mg/kg)
0.5- 1.0 0.79
3.5- 4.0 0.57 U
7.5- 8.0 0.60 U
8.5- 9.0 0.53 U
12.5-13.0 0.59 U
16.5-17.0 0.63 U
107_M044 R CONC.
DEPTH (ft) (mg/kg)
0.5- 1.0 0.61 U
3.5- 4.0 0.57 U
7.5- 8.0 0.59 U
11.5-12.0 0.60 U
15.5-16.0 0.60 U
107_M046 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.63 U
3.5- 4.0 5.2
8.0- 8.5 0.59 U
12.0-12.5 0.61 U
16.0-16.5 0.70 U
107_K040 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.55 U
3.5- 4.0 0.57 U
7.5- 8.0 7.5
11.5-12.0 0.61 U
16.0-16.5 0.69 U
20.0-20.5 0.60 U
24.0-24.5 0.55 U
107_K042 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 8.2
3.5- 4.0 0.57 U
7.5- 8.0 0.58 U
11.5-12.0 0.58 U
15.0-15.5 0.60 U
19.0-19.5 0.60 U
23.0-23.5 0.56 U
107_K044 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.54 U
3.5- 4.0 0.59 U
7.5- 8.0 0.57 U
11.5-12.0 0.55 U
14.5-15.0 0.62 U
18.5-19.0 0.61 U
22.5-23.0 0.56 U
107_G038 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.59 U
4.5- 5.0 0.58 U
6.0- 6.5 12.5
7.0- 7.5 4.1
107_G046 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.59 U
3.5- 4.0 0.59 U
11.5-12.0 0.76 U
15.5-16.0 0.82 U
19.5-20.0 0.58 U
107_I046 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.55 U
3.5- 4.0 0.55 U
7.5- 8.0 0.61
11.5-12.0 0.77 U
15.5-16.0 0.63 U
19.5-20.0 0.77
107_I038E CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 2.4
8.0- 8.5 3.1
10.0-10.5 1.8
12.0-12.5 2.6
107_I039 CONC.
DEPTH (ft) (mg/kg)
7.0- 7.5 0.58 U
8.0- 8.5 0.58 U
10.0-10.5 0.54 U
11.0-11.5 0.56 U
12.0-12.5 0.56 U
107_I040 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.66 U
3.5- 4.0 0.55 U
7.5- 8.0 0.58 U
11.5-12.0 0.61 U
15.5-16.0 6.0
16.5-17.0 0.67 U
19.5-21.0 3.7
24.5-25.0 0.57 U
107_I042 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.77 U
3.5- 4.0 0.55 U
7.5- 8.0 0.57 U
11.5-12.0 0.61 U
14.5-15.0 0.64 U
18.5-19.0 0.78 U
22.5-23.0 0.60 U
107_I044 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.55 U
3.5- 4.0 0.57 U
7.5- 8.0 0.58 U
11.5-12.0 0.77 U
13.5-14.0 0.72 U
17.5-18.0 0.59 U
21.5-22.0 0.61 U
107_G044 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.52 U
3.5- 4.0 0.58 U
7.5- 8.0 0.57 U
15.0-15.5 0.90 U
19.0-19.5 0.60 U
23.0-23.5 0.57 U
107_G046 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.54 U
3.5- 4.0 0.56 U
4.5- 5.0 0.87
5.0- 5.5 2.3
5.5- 6.0 1.6
7.5- 8.0 1.3
10.0-10.5 0.65 U
14.0-14.5 0.75 U
18.0-18.5 0.57 U
107_G042 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.53 U
3.5- 4.0 0.54 U
7.5- 8.0 0.59 U
11.5-12.0 0.80 U
14.0-14.5 0.65 U
18.0-18.5 1.2 U
22.0-22.5 0.57 U
107_F041E CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 0.89
5.5- 6.0 2.3
6.0- 6.5 2.3
107_F040N CONC.
DEPTH (ft) (mg/kg)
6.0- 6.5 22.1
6.5- 7.0 121
7.5- 8.0 5.0
107_G040 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.64 U
3.5- 4.0 0.56 U
4.5- 5.0 0.58 U
5.0- 5.5 11.6
7.5- 8.0 5.2
11.5-12.0 0.68 U
14.5-15.0 0.63 U
107_F041 CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 102
5.5- 6.0 276
6.0- 6.5 32.1
6.5- 7.0 13.7
7.5- 8.0 9.2
107_F040E CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 220
5.5- 6.0 626
6.0- 6.5 1360
6.5- 7.0 1270
7.5- 8.0 56.4
107_F040 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.52 U
3.5- 4.0 0.57 U
5.5- 6.0 0.56 U
6.0- 6.5 218
6.5- 7.0 183
7.5- 8.0 61.2
11.5-12.0 0.83 U
15.0-15.5 0.81 U
19.0-19.5 0.71 U
22.5-23.0 0.59 U
107_F040S CONC.
DEPTH (ft) (mg/kg)
3.5- 4.0 27.2 UJ
4.5- 5.0 1540
6.0- 6.5 49.7
6.5- 7.0 8.4
7.5- 8.0 2.7
107_F040N CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 2040
6.0- 6.5 8120
6.5- 7.0 11700
7.5- 8.0 7880
9.5-10.0 717
107_F039 CONC.
DEPTH (ft) (mg/kg)
4.0- 4.5 4.6
4.5- 5.0 18.6
5.0- 5.5 7910
6.0- 6.5 7120
6.5- 7.0 2480
7.5- 8.0 887
8.5- 9.0 365
107_F039W CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 6.0
5.0- 5.5 51.1
6.0- 6.5 1850
6.5- 7.0 2360
7.5- 8.0 4760
8.5- 9.0 135
9.0- 9.5 645
10.0-10.5 1340
107_F038 CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 8.8
5.0- 5.5 22.1
6.0- 6.5 2.9
6.5- 7.0 2.8
7.5- 8.0 5.2
8.5- 9.0 4.6
9.0- 9.5 3.6
10.0-10.5 1.3
107_F037E CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 46.8
5.0- 5.5 52.2
6.0- 6.5 48.6
6.5- 7.0 33.7
7.5- 8.0 26.0
8.5- 9.0 0.61 U
107_F037 CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 500
5.0- 5.5 55.1
5.5- 6.0 7.8
107_G037S CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 12.5
107_G036E CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 6.4
6.0- 6.5 6.5
107_F036E CONC.
DEPTH (ft) (mg/kg)
3.5- 4.0 4.5
107_E036 CONC.
DEPTH (ft) (mg/kg)
3.0- 3.5 2.3
3.5- 4.0 39.6
4.0- 4.5 1370
107_F036S CONC.
DEPTH (ft) (mg/kg)
3.0- 3.5 6.2
3.5- 4.0 82.9
4.0- 4.5 2220
107_F036 CONC.
DEPTH (ft) (mg/kg)
3.5- 4.0 48.1
5.0- 5.5 0.56 U
6.0- 6.5 0.72 U
107_G036S CONC.
DEPTH (ft) (mg/kg)
3.5- 4.0 1.9
5.0- 5.5 7.2
6.0- 6.5 0.55 U
107_G036 R CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.58 U
5.0- 5.5 23.0
6.0- 6.5 20.2
7.0- 7.5 4.5
15.0-15.5 0.70 U
19.0-19.5 0.60 U
23.0-23.5 6.8
107_G036W CONC.
DEPTH (ft) (mg/kg)
4.5- 5.0 4.7
5.0- 5.5 2.2
6.0- 6.5 3.5
107_F036W CONC.
DEPTH (ft) (mg/kg)
3.0- 3.5 5.6
3.5- 4.0 785
4.0- 4.5 7830
107_I034 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.60 U
3.5- 4.0 0.59 U
7.5- 8.0 0.58 U
11.5-12.0 0.68 U
15.5-16.0 0.62 U
19.5-20.0 0.55 U
107_G034 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.63 U
3.5- 4.0 1.6
7.5- 8.0 1.3
11.0-11.5 0.66 U
15.0-15.5 0.66 U
19.0-19.5 0.53 U
107_E034 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.55 U
3.5- 4.0 2.6
7.5- 8.0 1.9
10.5-11.0 0.76 U
14.5-15.0 0.69 U
18.5-19.0 0.66 U
107_F035 CONC.
DEPTH (ft) (mg/kg)
3.0- 3.5 25.0
3.5- 4.0 20.6
4.0- 4.5 6.3
107_M030 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 3.9
0.5- 1.0 77.6
2.5- 3.0 9.1
3.5- 4.0 2.1
7.5- 8.0 0.80
11.5-12.0 0.63 U
107_G035 CONC.
DEPTH (ft) (mg/kg)
5.0- 5.5 0.53 U
6.0- 6.5 0.55 U
107_I032 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 1.4
3.5- 4.0 8.4
7.5- 8.0 0.63 U
10.0-10.5 2.0
14.5-15.0 0.56 U
18.5-19.0 0.54 U
107_E031 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.60
3.5- 4.0 0.59 U
6.5- 7.0 1.1
11.5-12.0 1.7
15.5-16.0 0.62 U
19.5-20.0 0.55 U
107_E032 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 1.1
3.5- 4.0 0.60 U
7.5- 8.0 0.72 U
107_M020 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.58 U
1.0- 1.5 116
2.5- 3.0 239
3.0- 3.5 158
3.5- 4.0 3.2
7.5- 8.0 1.2
11.5-12.0 1.3
107_M022 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.72
1.0- 1.5 3.0
4.0- 4.5 7.7
4.5- 5.0 0.58 U
8.5- 9.0 0.63
12.5-13.0 0.55 U
107_M024 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.62 U
0.5- 1.0 16.7
2.0- 2.5 3.7
3.5- 4.0 0.54 U
7.5- 8.0 0.68 U
15.5-16.0 0.53 U
107_M026 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.59 U
0.5- 1.0 223
3.0- 3.5 58.2
4.0- 4.5 6.2
8.0- 8.5 0.63 U
12.0-12.5 0.84
107_M028 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 80.4
0.5- 1.0 225
1.0- 1.5 160
3.5- 4.0 6.0
7.5- 8.0 0.61 U
11.5-12.0 0.55 U
107_D019 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 1.2
4.0- 4.5 0.60 U
8.0- 8.5 0.56 U
12.0-12.5 0.55 U
107_D021 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.73
2.5- 3.0 0.61 U
6.5- 7.0 0.60 U
10.5-11.0 0.54 U
107_D023 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 2.8
3.5- 4.0 2.1
7.0- 7.5 0.62 U
11.0-11.5 0.58 U
15.0-15.5 2.8
107_D025 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 3.9
3.5- 4.0 0.75
7.5- 8.0 0.80
11.5-12.0 1.1
15.5-16.0 0.55 U
19.5-20.0 0.56 U
107_E026A CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.51 U
4.5- 5.0 0.79
7.0- 7.5 0.63 U
11.0-11.5 0.59 U
15.0-15.5 0.56 U
107_E027 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.55 U
2.5- 3.0 1.0
7.5- 8.0 5.1
11.5-12.0 0.57 U
15.5-16.0 0.56 U
107_E028A CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 0.57 U
3.5- 4.0 0.56 U
6.0- 6.5 0.67
9.0- 9.5 0.55 U
10.0-10.5 0.55 U
14.0-14.5 0.55 U
18.0-18.5 0.54 U
107_E029 CONC.
DEPTH (ft) (mg/kg)
0.0- 0.5 5.0
3.5- 4.0 3.0
7.5- 8.0 0.68 U
10.5-11.0 0.62 U
14.5-15.0 0.56 U
18.5-19.0 0.56 U
LEGEND:
SOIL SAMPLE EXCEEDANCE OF NJDEP NRDCSRS
SOIL SAMPLE LOCATION W/O EXCEEDANCE OF NJDEP NRDCSRS
SAMPLING CHRONOLOGY
JANUARY / FEBRUARY 2011
JUNE 2011
AUGUST 2011
SITE 107 BOUNDARY
ADJOINING PROPERTY BOUNDARY
NOTES:
1. HEXAVALENT CHROMIUM SOIL SAMPLE CONCENTRATIONS GREATER THAN 20 mg/kg ARE INDICATED BY RED TEXT AS EXCEEDANCES OF THE NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARD (NRDCSRS).
2. R IN RESULTS BOX DENOTES THAT SAMPLE RESULTS WERE REJECTED AFTER ANALYTICAL DATA VALIDATION.
3. * IN RESULTS BOX DENOTES THAT SAMPLE RESULT'S MINIMUM DETECETABLE LIMIT EXCEEDS NRDCSRS.
1 inch = 75 feet
0 25 50 75 100 125 150
FEET
PROJECT:
PPG INDUSTRIES
SITE 107
LOCATION:
18 CHAPEL AVENUE
BLOCK 1505, LOT 2
CITY OF JERSEY CITY
HUDSON COUNTY, NEW JERSEY
DRAWING TITLE:
HEXAVALENT CHROMIUM: SOIL SAMPLE RESULTS AND EXCEEDANCES OF NJDEP DIRECT CONTACT SOIL REMEDIATION STANDARDS
DRESDNER ROBIN
DRAWN BY: N.K.
CHECKED BY: D.N.
DATE: 03/26/13
JOB NUMBER: 10236-1
FILE: F108_107_MCR
FIGURE 9
References: State of New Jersey Office of Information Technology (NJOIT) 2007-2008; Office of Geographic Information Systems (OGIS); New Jersey Department of Transportation 2008.
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