Appendix A

Integrated IRM Staging Area Characterization Data

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-03 SAA-1-1000CYA 4/11/2013 Staging Area A Regular sample	WB18-041113A-05 SAA-1-1000CYB 4/11/2013 Staging Area A Regular sample	WB18-061413-03 SAA-2-1000CY 6/14/2013 Staging Area A Regular sample	WB18-022114-03 SAA-3-1000CY 2/21/2014 Staging Area A Regular sample	WB18-030314A-01 SAA-4-1000CY 3/3/2014 Staging Area A Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	14U	20U	8.4U	9.8U	17U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	28U	40U	17U	20U	33U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	2.8U	4.0U	1.7U	2.0U	3.3U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	2.8U	4.0U	1.7U	2.0U	3.3U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	14U	20U	8.4U	9.8U	17U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	14U	20U	8.4U	9.8U	17U
1,4-DIOXANE	100	13000	130000	µg/kg	340U	500U	210U	250U	410U
2-BUTANONE	100000	100000	500000	µg/kg	28U	40U	17U	20U	33.7
2-HEXANONE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
ACETONE	2200	100000	500000	µg/kg	28U	40U	17U	36.6	208
BENZENE	70000	4800	44000	µg/kg	2.8U	4.0U	1.7U	2.0U	10.3
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
BROMOFORM	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
BROMOMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
CARBON DISULFIDE	NC	NC	NC	µg/kg	14U	20U	1.7J	9.8U	3.7J
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	14U	20U	8.4U	9.8U	17U
CHLOROBENZENE	40000	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
CHLOROETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
CHLOROFORM	12000	49000	350000	µg/kg	14U	20U	8.4U	9.8U	17U
CHLOROMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
CYCLOHEXANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
Dibromochloromethane	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
ETHYLBENZENE	NC	41000	390000	µg/kg	0.99J	4.0U	1.7U	2.0U	3.3U
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
METHYL ACETATE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	2.8U	4.0U	1.7U	2.0U	3.3U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-03 SAA-1-1000CYA 4/11/2013 Staging Area A Regular sample	WB18-041113A-05 SAA-1-1000CYB 4/11/2013 Staging Area A Regular sample	WB18-061413-03 SAA-2-1000CY 6/14/2013 Staging Area A Regular sample	WB18-022114-03 SAA-3-1000CY 2/21/2014 Staging Area A Regular sample	WB18-030314A-01 SAA-4-1000CY 3/3/2014 Staging Area A Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	5.1J
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	5.6J	20U	8.4U	9.8U	17U
O-XYLENE	NC	NC	NC	µg/kg	1.8J	4.0U	1.7U	2.0U	0.72J
STYRENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	14U	20U	8.4U	9.8U	17U
TOLUENE	36000	100000	500000	µg/kg	2.8U	4.0U	1.7U	2.0U	2.0J
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	14U	20U	8.4U	9.8U	17U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
TRICHLOROETHENE	2000	21000	200000	µg/kg	14U	20U	8.4U	9.8U	17U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	14U	20U	8.4U	9.8U	17U
VINYL CHLORIDE	NC	900	13000	µg/kg	14U	20U	8.4U	9.8U	17U
XYLENES, M & P	NC	NC	NC	µg/kg	4.6	2.5J	1.7U	2.0U	3.3U
XYLENES, TOTAL	260	100000	500000	µg/kg	6.4	2.5J	1.7U	2.0U	2.1J

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040114-01 SAA-5-1000CY 4/1/2014 Staging Area A Regular sample	WB18-032713A-01 SAB-1-1000CYA 3/27/2013 Staging Area B Regular sample	WB18-032713A-03 SAB-1-1000CYB 3/27/2013 Staging Area B Regular sample	WB18-032713A-05 SAB-2-1000CY 3/27/2013 Staging Area B Regular sample	WB18-042613A-03 SAB-3-1000CY 4/26/2013 Staging Area B Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	14U	12U	13U	19U	16U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	1.4U	1.2U	1.3U	1.9U	1.6U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	1.4U	1.2U	1.3U	1.9U	1.6U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
1,4-DIOXANE	100	13000	130000	µg/kg	170U	150U	170U	230U	200U
2-BUTANONE	100000	100000	500000	µg/kg	14U	12U	13U	19U	41.2
2-HEXANONE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	3.0J
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
ACETONE	2200	100000	500000	µg/kg	43.7	19.8	85.9	105	294
BENZENE	70000	4800	44000	µg/kg	1.4U	1.1J	0.79J	1.9U	1.6U
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
BROMOFORM	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
BROMOMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CARBON DISULFIDE	NC	NC	NC	µg/kg	14.4	0.58J	1.6J	1.2J	1.3J
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CHLOROBENZENE	40000	100000	500000	µg/kg	0.30J	5.9U	6.7U	9.3U	7.9U
CHLOROETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CHLOROFORM	12000	49000	350000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CHLOROMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
CYCLOHEXANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
Dibromochloromethane	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
ETHYLBENZENE	NC	41000	390000	µg/kg	1.4U	1.2U	0.39J	1.9U	1.6U
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
METHYL ACETATE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	1.4U	1.2U	1.3U	1.9U	1.6U

Table A-1
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Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040114-01 SAA-5-1000CY 4/1/2014 Staging Area A Regular sample	WB18-032713A-01 SAB-1-1000CYA 3/27/2013 Staging Area B Regular sample	WB18-032713A-03 SAB-1-1000CYB 3/27/2013 Staging Area B Regular sample	WB18-032713A-05 SAB-2-1000CY 3/27/2013 Staging Area B Regular sample	WB18-042613A-03 SAB-3-1000CY 4/26/2013 Staging Area B Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	0.48J	5.9U	6.7U	9.3U	7.9U
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	6.6J	5.9U	1.7J	9.3U	7.9
O-XYLENE	NC	NC	NC	µg/kg	0.35J	1.2U	0.74J	1.9U	0.49J
STYRENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	6.8U	5.9U	0.32J	9.3U	7.9U
TOLUENE	36000	100000	500000	µg/kg	0.38J	1.2U	0.58J	0.60J	1.0J
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
TRICHLOROETHENE	2000	21000	200000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
VINYL CHLORIDE	NC	900	13000	µg/kg	6.8U	5.9U	6.7U	9.3U	7.9U
XYLENES, M & P	NC	NC	NC	µg/kg	1.4U	1.2U	1.6	1.9U	1.0J
XYLENES, TOTAL	260	100000	500000	µg/kg	0.81J	1.2U	2.3	1.9U	1.5J

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-042613A-05 SAB-4-1000CY 4/26/2013 Staging Area B Regular sample	WB18-091113-01 SAB-6-1000CY 9/11/2013 Staging Area B Regular sample	WB18-091113-03 SAB-7-1000CY 9/11/2013 Staging Area B Regular sample	WB18-040813A-03 DA-1-1000CY 4/8/2013 Staging Area C Regular sample	WB18-050913A-01 DA-2-1000CY 5/9/2013 Staging Area C Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	21U	13U	11U	14U	14U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	2.1U	1.3U	1.1U	1.4U	1.4U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	2.1U	1.3U	1.1U	1.4U	1.4U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
1,4-DIOXANE	100	13000	130000	µg/kg	260U	170U	140U	180U	170U
2-BUTANONE	100000	100000	500000	µg/kg	14.1J	13U	11U	14.3	14U
2-HEXANONE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
ACETONE	2200	100000	500000	µg/kg	301	19.4	11U	64	29.4
BENZENE	70000	4800	44000	µg/kg	2.1U	1.3U	1.1U	1.3J	1.4U
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
BROMOFORM	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
BROMOMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CARBON DISULFIDE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	0.29J	7.0U
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CHLOROBENZENE	40000	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CHLOROETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CHLOROFORM	12000	49000	350000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CHLOROMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
CYCLOHEXANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
Dibromochloromethane	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
ETHYLBENZENE	NC	41000	390000	µg/kg	2.1U	1.3U	1.1U	0.60J	1.4U
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	0.87J	6.7U	5.4U	7.0U	0.37J
METHYL ACETATE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	2.1U	1.3U	1.1U	1.4U	1.4U

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-042613A-05 SAB-4-1000CY 4/26/2013 Staging Area B Regular sample	WB18-091113-01 SAB-6-1000CY 9/11/2013 Staging Area B Regular sample	WB18-091113-03 SAB-7-1000CY 9/11/2013 Staging Area B Regular sample	WB18-040813A-03 DA-1-1000CY 4/8/2013 Staging Area C Regular sample	WB18-050913A-01 DA-2-1000CY 5/9/2013 Staging Area C Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	10.1J	6.7U	5.4U	3.1J	8.6
O-XYLENE	NC	NC	NC	µg/kg	2.1U	1.3U	1.1U	1.0J	0.36J
STYRENE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
TOLUENE	36000	100000	500000	µg/kg	2.1U	1.3U	1.1U	1.3J	0.50J
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
TRICHLOROETHENE	2000	21000	200000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
VINYL CHLORIDE	NC	900	13000	µg/kg	11U	6.7U	5.4U	7.0U	7.0U
XYLENES, M & P	NC	NC	NC	µg/kg	0.58J	1.3U	1.1U	2.4	0.93J
XYLENES, TOTAL	260	100000	500000	µg/kg	0.58J	1.3U	1.1U	3.4	1.3J

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-053013A-01 DA-Add Material-01 5/30/2013 Staging Area C Regular sample	WB18-060413-01 DA-PILE-5900 6/4/2013 Staging Area C Regular sample	WB18-032113-01 ESFM-0.5-1000CY 3/21/2013 Staging Area C Regular sample	WB18-032113-03 ESFM-1-1000CY 3/21/2013 Staging Area C Regular sample	WB18-040813A-01 ESFM-2-1000CY 4/8/2013 Staging Area C Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	12U	7.3U	11U	9.8U	12U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	24U	15U	22U	20U	24U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	2.4U	1.5U	2.2U	2.0U	2.4U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	2.4U	1.5U	2.2U	2.0U	2.4U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	12U	7.3U	11U	9.8U	12U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	12U	7.3U	11U	9.8U	12U
1,4-DIOXANE	100	13000	130000	µg/kg	310U	180U	270U	240U	300U
2-BUTANONE	100000	100000	500000	µg/kg	24U	109	22U	20U	140
2-HEXANONE	NC	NC	NC	µg/kg	12U	3.6J	11U	9.8U	11.2J
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	12U	2.9J	11U	9.8U	8.9J
ACETONE	2200	100000	500000	µg/kg	78.2	1110	76.2	800	1050J
BENZENE	70000	4800	44000	µg/kg	29.3	12.5	1.2J	193	25.1
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
BROMOFORM	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
BROMOMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
CARBON DISULFIDE	NC	NC	NC	µg/kg	1.1J	7.3U	11U	1.2J	4.1J
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	12U	7.3U	11U	9.8U	12U
CHLOROBENZENE	40000	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
CHLOROETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
CHLOROFORM	12000	49000	350000	µg/kg	12U	7.3U	11U	9.8U	12U
CHLOROMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
CYCLOHEXANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
Dibromochloromethane	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
ETHYLBENZENE	NC	41000	390000	µg/kg	2.4U	1.1J	2.2U	2.4	1.1J
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	12U	0.48J	11U	9.8U	12U
METHYL ACETATE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	2.4U	1.5U	2.2U	2.0U	2.4U

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-053013A-01 DA-Add Material-01 5/30/2013 Staging Area C Regular sample	WB18-060413-01 DA-PILE-5900 6/4/2013 Staging Area C Regular sample	WB18-032113-01 ESFM-0.5-1000CY 3/21/2013 Staging Area C Regular sample	WB18-032113-03 ESFM-1-1000CY 3/21/2013 Staging Area C Regular sample	WB18-040813A-01 ESFM-2-1000CY 4/8/2013 Staging Area C Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	12U	7.3U	11U	2.7J	12U
O-XYLENE	NC	NC	NC	µg/kg	2.4U	3.7	0.75J	12.5	4.6
STYRENE	NC	NC	NC	µg/kg	12U	7.3U	11U	1.1J	12U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	12U	7.3U	11U	9.8U	12U
TOLUENE	36000	100000	500000	µg/kg	1.6J	2	2.4	367	16.9
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	12U	7.3U	11U	9.8U	12U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
TRICHLOROETHENE	2000	21000	200000	µg/kg	12U	7.3U	11U	9.8U	12U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	12U	7.3U	11U	9.8U	12U
VINYL CHLORIDE	NC	900	13000	µg/kg	12U	7.3U	11U	9.8U	12U
XYLENES, M & P	NC	NC	NC	µg/kg	2.4U	11.5	2.1J	32.2	14.3
XYLENES, TOTAL	260	100000	500000	µg/kg	2.4U	15.2	2.8	44.7	18.9

Notes:

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[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

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Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-01 ESFM-3-1000CY 4/11/2013 Staging Area C Regular sample	WB18-042613A-01 ESFM-4-1000CY 4/26/2013 Staging Area C Regular sample	WB18-050913A-03 ESFM-5-1000CY 5/9/2013 Staging Area C Regular sample	WB18-011514-01 SAC-1-1000CY 1/15/2014 Staging Area C Regular sample	WB18-062613-01 LSWR-01-1000CY 6/26/2013 Staging Area C Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	15U	830U	780U	9.3U	7.8U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	31U	1700U	1600U	19U	16U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	3.1U	170U	160U	1.9U	1.6U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	3.1U	170U	160U	1.9U	1.6U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	15U	830U	780U	9.3U	7.8U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	15U	830U	780U	9.3U	7.8U
1,4-DIOXANE	100	13000	130000	µg/kg	380U	21000U	19000U	230U	190U
2-BUTANONE	100000	100000	500000	µg/kg	54.6	1700U	1600U	19U	16U
2-HEXANONE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
ACETONE	2200	100000	500000	µg/kg	434	950J	2160	49.4	16U
BENZENE	70000	4800	44000	µg/kg	5.4	170U	160U	1.9U	1.6U
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
BROMOFORM	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
BROMOMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
CARBON DISULFIDE	NC	NC	NC	µg/kg	2.4J	830U	780U	9.3U	4.8J
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	15U	830U	780U	9.3U	7.8U
CHLOROBENZENE	40000	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
CHLOROETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
CHLOROFORM	12000	49000	350000	µg/kg	15U	830U	780U	9.3U	7.8U
CHLOROMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
CYCLOHEXANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
Dibromochloromethane	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
ETHYLBENZENE	NC	41000	390000	µg/kg	3.7	252	140J	1.9U	1.6U
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	15U	1290	1020	1.9J	7.8U
METHYL ACETATE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	3.1U	170U	160U	1.9U	1.6U

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-01 ESFM-3-1000CY 4/11/2013 Staging Area C Regular sample	WB18-042613A-01 ESFM-4-1000CY 4/26/2013 Staging Area C Regular sample	WB18-050913A-03 ESFM-5-1000CY 5/9/2013 Staging Area C Regular sample	WB18-011514-01 SAC-1-1000CY 1/15/2014 Staging Area C Regular sample	WB18-062613-01 LSWR-01-1000CY 6/26/2013 Staging Area C Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	15U	128J	149J	9.3U	7.8U
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
O-XYLENE	NC	NC	NC	µg/kg	21.3	1280	618	1.6J	11.5
STYRENE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	15U	830U	780U	9.3U	7.8U
TOLUENE	36000	100000	500000	µg/kg	45.6	74.0J	51.3J	1.9U	1.6U
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	15U	830U	780U	9.3U	7.8U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
TRICHLOROETHENE	2000	21000	200000	µg/kg	15U	830U	780U	9.3U	7.8U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	15U	830U	780U	9.3U	7.8U
VINYL CHLORIDE	NC	900	13000	µg/kg	15U	830U	780U	9.3U	7.8U
XYLENES, M & P	NC	NC	NC	µg/kg	72.7	4410	2450	4.7	0.36J
XYLENES, TOTAL	260	100000	500000	µg/kg	93.9	[5690]	[3070]	6.3	11.9

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-062613-03 LSWR-02-1000CY 6/26/2013 Staging Area C Regular sample	WB18-073013-01 LSWR-03-1000CY 7/30/2013 Staging Area C Regular sample	WB18-073013-03 LSWR-04-1000CY 7/30/2013 Staging Area C Regular sample
1,1,1-TRICHLOROETHANE	NC	100000	500000	µg/kg	580U	5600U	1400U
1,1,2,2-TETRACHLOROETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	µg/kg	580U	5600U	1400U
1,1,2-TRICHLOROETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
1,1-DICHLOROETHANE	NC	26000	240000	µg/kg	580U	5600U	1400U
1,1-DICHLOROETHENE	NC	100000	500000	µg/kg	580U	5600U	1400U
1,2,3-TRICHLOROBENZENE	NC	NC	NC	µg/kg	580U	5600U	1400U
1,2,4-TRICHLOROBENZENE	NC	NC	NC	µg/kg	580U	5600U	1400U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	NC	µg/kg	1200U	11000U	2800U
1,2-DIBROMOETHANE	NC	NC	NC	µg/kg	120U	1100U	280U
1,2-DICHLOROBENZENE	NC	100000	500000	µg/kg	580U	5600U	1400U
1,2-DICHLOROETHANE	10000	3100	30000	µg/kg	120U	1100U	280U
1,2-DICHLOROPROPANE	NC	NC	NC	µg/kg	580U	5600U	1400U
1,3-DICHLOROBENZENE	NC	49000	280000	µg/kg	580U	5600U	1400U
1,4-DICHLOROBENZENE	20000	13000	130000	µg/kg	580U	5600U	1400U
1,4-DIOXANE	100	13000	130000	µg/kg	14000U	140000U	35000U
2-BUTANONE	100000	100000	500000	µg/kg	1200U	11000U	2800U
2-HEXANONE	NC	NC	NC	µg/kg	580U	5600U	1400U
4-METHYL-2-PENTANONE	NC	NC	NC	µg/kg	580U	5600U	1400U
ACETONE	2200	100000	500000	µg/kg	1200U	11000U	2800U
BENZENE	70000	4800	44000	µg/kg	[13400]	1100U	280U
BROMOCHLOROMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
BROMODICHLOROMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
BROMOFORM	NC	NC	NC	µg/kg	580U	5600U	1400U
BROMOMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
CARBON DISULFIDE	NC	NC	NC	µg/kg	580U	5600U	1400U
CARBON TETRACHLORIDE	NC	2400	22000	µg/kg	580U	5600U	1400U
CHLOROBENZENE	40000	100000	500000	µg/kg	580U	5600U	1400U
CHLOROETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
CHLOROFORM	12000	49000	350000	µg/kg	580U	5600U	1400U
CHLOROMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
CIS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	580U	5600U	1400U
CIS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	580U	5600U	1400U
CYCLOHEXANE	NC	NC	NC	µg/kg	580U	5600U	1400U
Dibromochloromethane	NC	NC	NC	µg/kg	580U	5600U	1400U
DICHLORODIFLUOROMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
ETHYLBENZENE	NC	41000	390000	µg/kg	183	1100U	81.2J
ISOPROPYLBENZENE	NC	NC	NC	µg/kg	580U	360J	54.1J
METHYL ACETATE	NC	NC	NC	µg/kg	580U	5600U	1400U
METHYL TERT-BUTYL ETHER	NC	100000	500000	µg/kg	120U	1100U	280U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-1
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8260 Volatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-062613-03 LSWR-02-1000CY 6/26/2013 Staging Area C Regular sample	WB18-073013-01 LSWR-03-1000CY 7/30/2013 Staging Area C Regular sample	WB18-073013-03 LSWR-04-1000CY 7/30/2013 Staging Area C Regular sample
METHYLCYCLOHEXANE	NC	NC	NC	µg/kg	580U	5600U	1400U
METHYLENE CHLORIDE	12000	100000	500000	µg/kg	580U	5600U	1400U
O-XYLENE	NC	NC	NC	µg/kg	1020	976J	451
STYRENE	NC	NC	NC	µg/kg	580U	5600U	1400U
TETRACHLOROETHENE	2000	19000	150000	µg/kg	580U	5600U	1400U
TOLUENE	36000	100000	500000	µg/kg	11100	1100U	205J
TRANS-1,2-DICHLOROETHENE	NC	100000	500000	µg/kg	580U	5600U	1400U
TRANS-1,3-DICHLOROPROPENE	NC	NC	NC	µg/kg	580U	5600U	1400U
TRICHLOROETHENE	2000	21000	200000	µg/kg	580U	5600U	1400U
TRICHLOROFLUOROMETHANE	NC	NC	NC	µg/kg	580U	5600U	1400U
VINYL CHLORIDE	NC	900	13000	µg/kg	580U	5600U	1400U
XYLENES, M & P	NC	NC	NC	µg/kg	2070	3170	1680
XYLENES, TOTAL	260	100000	500000	µg/kg	[3100]	[4140]	[2130]

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; No Cleanup Objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold **-** Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-04 SAA-1-1000CYA 4/11/2013 Staging Area A Regular sample	WB18-041113A-06 SAA-1-1000CYB 4/11/2013 Staging Area A Regular sample	WB18-061413-04 SAA-2-1000CY 6/14/2013 Staging Area A Regular sample	WB18-022114-04 SAA-3-1000CY 2/21/2014 Staging Area A Regular sample	WB18-030314A-02 SAA-4-1000CY 3/3/2014 Staging Area A Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	1200U	1900U	1000U	1200U	2100U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	120U	190U	100U	58U	100U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	120U	190U	100U	58U	100U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	120U	210U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
2-METHYLPHENOL	NC	100000	500000	µg/kg	120U	190U	100U	120U	200J
2-NITROANILINE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
2-NITROPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	120U	190U	100U	120U	1200
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	310U	490U	250U	120U	210U
3-NITROANILINE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	1200U	1900U	1000U	1200U	2100U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
4-CHLOROANILINE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
4-NITROANILINE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
4-NITROPHENOL	NC	NC	NC	µg/kg	610U	970U	510U	580U	1000U
ACENAPHTHENE	20000	100000	500000	µg/kg	61U	97U	51U	58U	100U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	61U	97U	51U	58U	100U
ACETOPHENONE	NC	NC	NC	µg/kg	NA	NA	250U	290U	520U
ANTHRACENE	NC	100000	500000	µg/kg	61U	97U	20.4J	58U	100U
ATRAZINE	NC	NC	NC	µg/kg	310U	490U	250U	120U	210U
BENZALDEHYDE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	61U	97U	56.7	28.9J	100U
BENZO(A)PYRENE	2600	1000	1000	µg/kg	61U	97U	45.9J	23.5J	100U
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	61U	97U	56.2	28.6J	100U
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	61U	97U	30.4J	58U	100U
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	61U	97U	27.0J	58U	100U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-041113A-04 SAA-1-1000CYA 4/11/2013 Staging Area A Regular sample	WB18-041113A-06 SAA-1-1000CYB 4/11/2013 Staging Area A Regular sample	WB18-061413-04 SAA-2-1000CY 6/14/2013 Staging Area A Regular sample	WB18-022114-04 SAA-3-1000CY 2/21/2014 Staging Area A Regular sample	WB18-030314A-02 SAA-4-1000CY 3/3/2014 Staging Area A Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	161	210U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
CAPROLACTAM	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
CARBAZOLE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
CHRYSENE	NC	3900	56000	µg/kg	61U	97U	61.5	25.6J	100U
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	61U	97U	51U	58U	100U
DIBENZOFURAN	NC	59000	350000	µg/kg	120U	190U	100U	120U	210U
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
FLUORANTHENE	NC	100000	500000	µg/kg	27.7J	97U	119	49.4J	100U
FLUORENE	30000	100000	500000	µg/kg	61U	97U	51U	58U	100U
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	120U	190U	100U	120U	210U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	61U	97U	51U	58U	100U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	610U	970U	510U	580U	1000U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	61U	97U	29.4J	58U	100U
ISOPHORONE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	310U	490U	250U	290U	520U
NAPHTHALENE	NC	100000	500000	µg/kg	61U	97U	51U	58U	100U
NITROBENZENE	NC	NC	NC	µg/kg	120U	190U	100U	120U	210U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	610U	970U	510U	580U	1000U
PHENANTHRENE	NC	100000	500000	µg/kg	61U	97U	108	58U	100U
PHENOL	30000	100000	500000	µg/kg	120U	190U	100U	120U	760
PYRENE	NC	100000	500000	µg/kg	26.1J	97U	126	47.9J	100U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040114-02 SAA-5-1000CY 4/1/2014 Staging Area A Regular sample	WB18-032713A-02 SAB-1-1000CYA 3/27/2013 Staging Area A Regular sample	WB18-032713A-04 SAB-1-1000CYB 3/27/2013 Staging Area A Regular sample	WB18-032713A-06 SAB-2-1000CY 3/27/2013 Staging Area A Regular sample	WB18-042613A-04 SAB-3-1000CY 4/26/2013 Staging Area A Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	830U	800U	870U	910U	870U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	42U	80U	87U	91U	87U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	42U	80U	87U	91U	87U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	83U	200U	220U	230U	220U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
2-METHYLPHENOL	NC	100000	500000	µg/kg	83U	80U	87U	91U	67.8J
2-NITROANILINE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
2-NITROPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	83U	80U	87U	276	353
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	83U	200U	220U	230U	220U
3-NITROANILINE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	830U	800U	870U	910U	870U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
4-CHLOROANILINE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
4-NITROANILINE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
4-NITROPHENOL	NC	NC	NC	µg/kg	420U	400U	430U	450U	430U
ACENAPHTHENE	20000	100000	500000	µg/kg	42U	40U	43U	45U	43U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	42U	40U	43U	45U	43U
ACETOPHENONE	NC	NC	NC	µg/kg	NA	NA	NA	NA	220U
ANTHRACENE	NC	100000	500000	µg/kg	42U	40U	43U	45U	43U
ATRAZINE	NC	NC	NC	µg/kg	83U	200U	220U	230U	220U
BENZALDEHYDE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	42U	22.4J	43U	26.9J	43U
BENZO(A)PYRENE	2600	1000	1000	µg/kg	42U	40U	43U	45U	43U
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	42U	40U	43U	45U	43U
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	42U	40U	43U	45U	43U
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	42U	40U	43U	45U	43U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040114-02 SAA-5-1000CY 4/1/2014 Staging Area A Regular sample	WB18-032713A-02 SAB-1-1000CYA 3/27/2013 Staging Area A Regular sample	WB18-032713A-04 SAB-1-1000CYB 3/27/2013 Staging Area A Regular sample	WB18-032713A-06 SAB-2-1000CY 3/27/2013 Staging Area A Regular sample	WB18-042613A-04 SAB-3-1000CY 4/26/2013 Staging Area A Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
CAPROLACTAM	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
CARBAZOLE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
CHRYSENE	NC	3900	56000	µg/kg	42U	23.3J	43U	25.6J	43U
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	42U	40U	43U	45U	43U
DIBENZOFURAN	NC	59000	350000	µg/kg	83U	80U	87U	91U	87U
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
FLUORANTHENE	NC	100000	500000	µg/kg	42U	31.4J	43U	43.1J	43U
FLUORENE	30000	100000	500000	µg/kg	42U	40U	43U	45U	43U
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	83U	80U	87U	91U	87U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	42U	40U	43U	45U	43U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	420U	400U	430U	450U	430U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	42U	40U	43U	45U	43U
ISOPHORONE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	210U	200U	220U	230U	220U
NAPHTHALENE	NC	100000	500000	µg/kg	42U	40U	43U	20.6J	21.0J
NITROBENZENE	NC	NC	NC	µg/kg	83U	80U	87U	91U	87U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	420U	400U	430U	450U	430U
PHENANTHRENE	NC	100000	500000	µg/kg	42U	24.9J	43U	48.2	43U
PHENOL	30000	100000	500000	µg/kg	83U	80U	87U	91U	87U
PYRENE	NC	100000	500000	µg/kg	42U	29.8J	43U	36.8J	43U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-042613A-06 SAB-4-1000CY 4/26/2013 Staging Area A Regular sample	WB18-061413-02 SAB-5-1000CY 6/14/2013 Staging Area A Regular sample	WB18-091113-02 SAB-6-1000CY 9/11/2013 Staging Area A Regular sample	WB18-091113-04 SAB-7-1000CY 9/11/2013 Staging Area A Regular sample	WB18-011514-02 SAC-1-1000CY 1/15/2014 Staging Area C Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	110U	240U	78U	91U	55.7J
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	1100U	2400U	780U	910U	1400U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	110U	240U	78U	91U	70U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	110U	240U	78U	91U	70U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	140U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	110U	240U	78U	91U	290
2-METHYLPHENOL	NC	100000	500000	µg/kg	110U	240U	78U	91U	140U
2-NITROANILINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
2-NITROPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	140U
3-NITROANILINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	1100U	2400U	780U	910U	1400U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
4-CHLOROANILINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
4-NITROANILINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
4-NITROPHENOL	NC	NC	NC	µg/kg	560U	1200U	390U	460U	700U
ACENAPHTHENE	20000	100000	500000	µg/kg	56U	120U	39U	46U	70U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	56U	120U	39U	46U	70U
ACETOPHENONE	NC	NC	NC	µg/kg	280U	590U	200U	230U	160J
ANTHRACENE	NC	100000	500000	µg/kg	56U	120U	39U	46U	70U
ATRAZINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	140U
BENZALDEHYDE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	35.2J	120U	39U	46U	52.7J
BENZO(A)PYRENE	2600	1000	1000	µg/kg	25.6J	120U	39U	46U	70U
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	32.5J	120U	39U	46U	70U
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	56U	120U	39U	46U	70U
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	56U	120U	39U	46U	70U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-042613A-06 SAB-4-1000CY 4/26/2013 Staging Area A Regular sample	WB18-061413-02 SAB-5-1000CY 6/14/2013 Staging Area A Regular sample	WB18-091113-02 SAB-6-1000CY 9/11/2013 Staging Area A Regular sample	WB18-091113-04 SAB-7-1000CY 9/11/2013 Staging Area A Regular sample	WB18-011514-02 SAC-1-1000CY 1/15/2014 Staging Area C Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
CAPROLACTAM	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
CARBAZOLE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
CHRYSENE	NC	3900	56000	µg/kg	30.2J	120U	39U	46U	65.3J
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	56U	120U	39U	46U	70U
DIBENZOFURAN	NC	59000	350000	µg/kg	110U	240U	78U	91U	140U
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
FLUORANTHENE	NC	100000	500000	µg/kg	71.2	120U	39U	46U	122
FLUORENE	30000	100000	500000	µg/kg	56U	120U	39U	46U	1020
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	110U	240U	78U	91U	140U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	56U	120U	39U	46U	70U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	560U	1200U	390U	460U	700U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	56U	120U	39U	46U	70U
ISOPHORONE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	280U	590U	200U	230U	350U
NAPHTHALENE	NC	100000	500000	µg/kg	56U	120U	39U	46U	1030
NITROBENZENE	NC	NC	NC	µg/kg	110U	240U	78U	91U	140U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	560U	1200U	390U	460U	700U
PHENANTHRENE	NC	100000	500000	µg/kg	70.5	120U	39U	46U	366
PHENOL	30000	100000	500000	µg/kg	110U	240U	78U	91U	140U
PYRENE	NC	100000	500000	µg/kg	56.3	52.1J	39U	46U	78.1

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
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* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040813A-04 DA-1-1000CY 4/8/2013 Staging Area C Regular sample	WB18-050913A-02 DA-2-1000CY 5/9/2013 Staging Area C Regular sample	WB18-053013A-02 DA-Add Material-01 5/30/2013 Staging Area C Regular sample	WB18-060413-02 DA-PILE-5900 6/4/2013 Staging Area C Regular sample	WB18-032113-04 ESFM-1-1000CY 3/21/2013 Staging Area C Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	96U	86U	130U	29.0J	91U
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	960U	860U	1300U	860U	910U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	96U	44.5J	74.4J	116	91U
2-METHYLPHENOL	NC	100000	500000	µg/kg	96U	86U	130U	86U	91U
2-NITROANILINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
2-NITROPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	96U	86U	431	711	91U
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
3-NITROANILINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	960U	860U	1300U	860U	910U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
4-CHLOROANILINE	NC	NC	NC	µg/kg	294	60.1J	330U	72.6J	401
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
4-NITROANILINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
4-NITROPHENOL	NC	NC	NC	µg/kg	480U	430U	660U	430U	450U
ACENAPHTHENE	20000	100000	500000	µg/kg	33.6J	37.7J	59.2J	231	45U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	98.6	40.8J	126	361	45U
ACETOPHENONE	NC	NC	NC	µg/kg	NA	210U	49.7J	49.3J	NA
ANTHRACENE	NC	100000	500000	µg/kg	163	107	273	607	58.8
ATRAZINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
BENZALDEHYDE	NC	NC	NC	µg/kg	240U	210U	67.7J	67.7J	230U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	625	330	827	878	174
BENZO(A)PYRENE	2600	1000	1000	µg/kg	710	327	1060*	885	179
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	672	426	1980*	962	168
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	504	255	1060	664	162
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	514	166	659	363	153
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040813A-04 DA-1-1000CY 4/8/2013 Staging Area C Regular sample	WB18-050913A-02 DA-2-1000CY 5/9/2013 Staging Area C Regular sample	WB18-053013A-02 DA-Add Material-01 5/30/2013 Staging Area C Regular sample	WB18-060413-02 DA-PILE-5900 6/4/2013 Staging Area C Regular sample	WB18-032113-04 ESFM-1-1000CY 3/21/2013 Staging Area C Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	93.8J	129	4110	477	91U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	96U	86U	129J	524	91U
CAPROLACTAM	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
CARBAZOLE	NC	NC	NC	µg/kg	54.0J	56.7J	127J	87.8	91U
CHRYSENE	NC	3900	56000	µg/kg	678	399	1310	997	198
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	96U	86U	130U	84.3J	91U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	96U	86U	233	86U	91U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	152	66.8	275	175	45U
DIBENZOFURAN	NC	59000	350000	µg/kg	21.3J	21.2J	58.0J	138	91U
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
FLUORANTHENE	NC	100000	500000	µg/kg	932	685	2180	1920	254
FLUORENE	30000	100000	500000	µg/kg	40.5J	37.0J	91.7	272	45U
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	24.4J	86U	130U	238	91U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	48U	43U	66U	43U	45U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	480U	430U	660U	430U	450U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	555*	226	1150*	676*	141
ISOPHORONE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	240U	210U	330U	220U	230U
NAPHTHALENE	NC	100000	500000	µg/kg	25.9J	251	58.3J	429	152
NITROBENZENE	NC	NC	NC	µg/kg	96U	86U	130U	86U	91U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	480U	430U	660U	430U	450U
PHENANTHRENE	NC	100000	500000	µg/kg	337	434	810	1430	202
PHENOL	30000	100000	500000	µg/kg	96U	86U	130U	216	91U
PYRENE	NC	100000	500000	µg/kg	785	673	1600	1690	509

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040813A-02 ESFM-2-1000CY 4/8/2013 Staging Area C Regular sample	WB18-041113A-02 ESFM-3-1000CY 4/11/2013 Staging Area C Regular sample	WB18-042613A-02 ESFM-4-1000CY 4/26/2013 Staging Area C Regular sample	WB18-050913A-04 ESFM-5-1000CY 5/9/2013 Staging Area C Regular sample	WB18-062613-02 LSWR-01-1000CY 6/26/2013 Staging Area C Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	38.1J	35.6J	1980	1550	120U
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	1100U	1600U	1300U	1300U	1200U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	164	256	14000	17200	120U
2-METHYLPHENOL	NC	100000	500000	µg/kg	110U	160U	130U	130U	82.2J
2-NITROANILINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
2-NITROPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	110U	160U	130U	130U	684
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
3-NITROANILINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	1100U	1600U	1300U	1300U	1200U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
4-CHLOROANILINE	NC	NC	NC	µg/kg	270U	1150	320U	320U	300U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
4-NITROANILINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
4-NITROPHENOL	NC	NC	NC	µg/kg	540U	820U	650U	640U	600U
ACENAPHTHENE	20000	100000	500000	µg/kg	344	82U	65U	64U	60U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	44.8J	58.4J	65U	64U	60U
ACETOPHENONE	NC	NC	NC	µg/kg	NA	NA	367	293J	300U
ANTHRACENE	NC	100000	500000	µg/kg	564	80.3J	89.9	64U	60U
ATRAZINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
BENZALDEHYDE	NC	NC	NC	µg/kg	182J	410U	320U	320U	300U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	[1120]*	208	138	150	24.5J
BENZO(A)PYRENE	2600	1000	1000	µg/kg	870	223	73.2	79.4	60U
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	886	225	146	137	60U
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	501	221	72.1	71.8	60U
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	676	203	42.1J	50.3J	60U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-040813A-02 ESFM-2-1000CY 4/8/2013 Staging Area C Regular sample	WB18-041113A-02 ESFM-3-1000CY 4/11/2013 Staging Area C Regular sample	WB18-042613A-02 ESFM-4-1000CY 4/26/2013 Staging Area C Regular sample	WB18-050913A-04 ESFM-5-1000CY 5/9/2013 Staging Area C Regular sample	WB18-062613-02 LSWR-01-1000CY 6/26/2013 Staging Area C Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	132	268	130U	130U	120U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
CAPROLACTAM	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
CARBAZOLE	NC	NC	NC	µg/kg	328	160U	130U	130U	120U
CHRYSENE	NC	3900	56000	µg/kg	1100	214	160	165	60U
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	159	49.2J	65U	64U	60U
DIBENZOFURAN	NC	59000	350000	µg/kg	188	41.2J	2280	1580	120U
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
FLUORANTHENE	NC	100000	500000	µg/kg	2420	347	589	470	43.4J
FLUORENE	30000	100000	500000	µg/kg	506	82U	65U	64U	60U
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	39.5J	267	77.8J	105J	120U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	54U	82U	65U	64U	60U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	540U	820U	650U	640U	600U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	620*	165	67	62.5J	60U
ISOPHORONE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	270U	410U	320U	320U	300U
NAPHTHALENE	NC	100000	500000	µg/kg	566	906	176000*	125000*	548
NITROBENZENE	NC	NC	NC	µg/kg	110U	160U	130U	130U	120U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	540U	820U	650U	640U	600U
PHENANTHRENE	NC	100000	500000	µg/kg	2130	249	2560	2240	35.4J
PHENOL	30000	100000	500000	µg/kg	110U	160U	130U	130U	487
PYRENE	NC	100000	500000	µg/kg	1820	288	265	346	38.3J

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-062613-04 LSWR-02-1000CY 6/26/2013 Staging Area C Regular sample	WB18-073013-02 LSWR-03-1000CY 7/30/2013 Staging Area C Regular sample	WB18-073013-04 LSWR-04-1000CY 7/30/2013 Staging Area C Regular sample
1,1'-BIPHENYL	NC	NC	NC	µg/kg	45.4J	75.6J	37.7J
1,2,4,5-TETRACHLOROBENZENE	NC	NC	NC	µg/kg	320U	230U	380U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	NC	µg/kg	130U	91U	150U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2,4,5-TRICHLOROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2,4,6-TRICHLOROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2,4-DICHLOROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2,4-DIMETHYLPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2,4-DINITROPHENOL	NC	NC	NC	µg/kg	1300U	910U	1500U
2,4-DINITROTOLUENE	NC	NC	NC	µg/kg	130U	91U	150U
2,6-DINITROTOLUENE	NC	NC	NC	µg/kg	130U	91U	150U
2-CHLORONAPHTHALENE	NC	NC	NC	µg/kg	130U	91U	150U
2-CHLOROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
2-METHYLNAPHTHALENE	NC	NC	NC	µg/kg	299	593	373
2-METHYLPHENOL	NC	100000	500000	µg/kg	97.5J	91U	150U
2-NITROANILINE	NC	NC	NC	µg/kg	320U	230U	380U
2-NITROPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
3&4-METHYLPHENOL	NC	NC	NC	µg/kg	1080	91U	150U
3,3'-DICHLOROBENZIDINE	NC	NC	NC	µg/kg	320U	230U	380U
3-NITROANILINE	NC	NC	NC	µg/kg	320U	230U	380U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	NC	µg/kg	1300U	910U	1500U
4-BROMOPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	130U	91U	150U
4-CHLORO-3-METHYLPHENOL	NC	NC	NC	µg/kg	320U	230U	380U
4-CHLOROANILINE	NC	NC	NC	µg/kg	320U	230U	380U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	NC	µg/kg	130U	91U	150U
4-NITROANILINE	NC	NC	NC	µg/kg	320U	230U	380U
4-NITROPHENOL	NC	NC	NC	µg/kg	640U	450U	750U
ACENAPHTHENE	20000	100000	500000	µg/kg	64U	45U	75U
ACENAPHTHYLENE	NC	100000	500000	µg/kg	64U	45U	75U
ACETOPHENONE	NC	NC	NC	µg/kg	320U	NA	NA
ANTHRACENE	NC	100000	500000	µg/kg	28.0J	45U	53.9J
ATRAZINE	NC	NC	NC	µg/kg	320U	230U	380U
BENZALDEHYDE	NC	NC	NC	µg/kg	320U	230U	380U
BENZO(A)ANTHRACENE	NC	1000	5600	µg/kg	38.8J	45U	64.4J
BENZO(A)PYRENE	2600	1000	1000	µg/kg	64U	45U	75U
BENZO(B)FLUORANTHENE	NC	1000	5600	µg/kg	32.8J	45U	63.5J
BENZO(G,H,I)PERYLENE	NC	100000	500000	µg/kg	64U	45U	75U
BENZO(K)FLUORANTHENE	NC	3900	56000	µg/kg	64U	45U	75U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	NC	µg/kg	130U	91U	150U

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-2
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	WB18-062613-04 LSWR-02-1000CY 6/26/2013 Staging Area C Regular sample	WB18-073013-02 LSWR-03-1000CY 7/30/2013 Staging Area C Regular sample	WB18-073013-04 LSWR-04-1000CY 7/30/2013 Staging Area C Regular sample
BIS(2-CHLOROETHYL)ETHER	NC	NC	NC	µg/kg	130U	91U	150U
BIS(2-ETHYLHEXYL)PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
BUTYLBENZYL PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
CAPROLACTAM	NC	NC	NC	µg/kg	130U	91U	150U
CARBAZOLE	NC	NC	NC	µg/kg	130U	91U	150U
CHRYSENE	NC	3900	56000	µg/kg	33.8J	34.2J	66.4J
DI-N-BUTYL PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
DI-N-OCTYL PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
DIBENZO(A,H)ANTHRACENE	NC	330	560	µg/kg	64U	45U	75U
DIBENZOFURAN	NC	59000	350000	µg/kg	65.2J	50.8J	51.8J
DIETHYL PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
DIMETHYL PHTHALATE	NC	NC	NC	µg/kg	130U	91U	150U
FLUORANTHENE	NC	100000	500000	µg/kg	93.8	66.4	172
FLUORENE	30000	100000	500000	µg/kg	64U	45U	75U
HEXACHLOROBENZENE	NC	1200	6000	µg/kg	130U	91U	150U
HEXACHLOROBUTADIENE	NC	NC	NC	µg/kg	64U	45U	75U
HEXACHLOROCYCLOPENTADIENE	NC	NC	NC	µg/kg	640U	450U	750U
HEXACHLOROETHANE	NC	NC	NC	µg/kg	320U	230U	380U
INDENO(1,2,3-CD)PYRENE	NC	500	5600	µg/kg	64U	45U	75U
ISOPHORONE	NC	NC	NC	µg/kg	130U	91U	150U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	NC	µg/kg	130U	91U	150U
N-NITROSODIPHENYLAMINE	NC	NC	NC	µg/kg	320U	230U	380U
NAPHTHALENE	NC	100000	500000	µg/kg	1770	4200	8860
NITROBENZENE	NC	NC	NC	µg/kg	130U	91U	150U
PENTACHLOROPHENOL	800	6700	6700	µg/kg	640U	450U	750U
PHENANTHRENE	NC	100000	500000	µg/kg	156	93.9	253
PHENOL	30000	100000	500000	µg/kg	866	91U	138J
PYRENE	NC	100000	500000	µg/kg	82.3	57	131

Notes:
U - Not detected; J - estimated value; B - analyte detected in associated laboratory blank; NC - no cleanup objective.
[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.
* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.
Bold **-** Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-041113A-04 SAA-1-1000CYA 4/11/2013 Staging Area A Regular sample	WB18-041113A-06 SAA-1-1000CYB 4/11/2013 Staging Area A Regular sample	WB18-061413-04 SAA-2-1000CY 6/14/2013 Staging Area A Regular sample	WB18-022114-04 SAA-3-1000CY 2/21/2014 Staging Area A Regular sample	WB18-030314A-02 SAA-4-1000CY 3/3/2014 Staging Area A Regular sample
ALUMINUM	NC	NC	NC	mg/kg	5190	6550	4290	4280	5430
ANTIMONY	NC	NC	NC	mg/kg	1.2B	1.1B	1.3B	0.64B	0.79B
ARSENIC	13	16	16	mg/kg	4.3	7.2	3.7	5.3	6.4B
BARIUM	433	400	400	mg/kg	76.3	112	67.5	188	[***2220***]*
CADMIUM	4	4.3	9.3	mg/kg	0.14B	0.23B	0.35B	1.0U	0.24B
CALCIUM	NC	NC	NC	mg/kg	282000	205000	248000	115000	260000
CHROMIUM	41	180	1500	mg/kg	7.9	8.9	6.6	6.2	9
COBALT	NC	NC	NC	mg/kg	2.8B	3.4B	2.5B	2.6B	4.0B
COPPER	50	270	270	mg/kg	12.5	12.3	8.1	3.8B	10.6
IRON	NC	NC	NC	mg/kg	6320	6730	4980	4740	5350
LEAD	63	400	1000	mg/kg	3.3B	4.3B	5	6.8	5.1B
MAGNESIUM	NC	NC	NC	mg/kg	18000	35300	14700	14900	27300
MANGANESE	1600	2000	10000	mg/kg	405	426	360	266	392
MERCURY	0.18	0.81	2.8	mg/kg	0.056B	0.073B	0.085	0.1	[0.40]
NICKEL	30	310	310	mg/kg	7.3B	9.7B	7	5.8B	8.1B
POTASSIUM	NC	NC	NC	mg/kg	611B	109B	669B	490B	389B
SELENIUM	3.9	180	1500	mg/kg	4.1U	5.8U	3.2	4.1U	3.8B
SILVER	2	180	1500	mg/kg	1.0U	1.4U	4.0U	0.56B	1.1B
SODIUM	NC	NC	NC	mg/kg	1490B	1360B	1510B	1030B	10800
THALLIUM	NC	NC	NC	mg/kg	0.85B	1.0B	8.0U	0.87B	5.0U
VANADIUM	NC	NC	NC	mg/kg	9.3B	12.0B	7.6B	7.4B	7.8
ZINC	109	10000	10000	mg/kg	14.8	18.3	18.9	6.9	14

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-040114-02 SAA-5-1000CY 4/1/2014 Staging Area A Regular sample	WB18-032713A-02 SAB-1-1000CYA 3/27/2013 Staging Area B Regular sample	WB18-032713A-04 SAB-1-1000CYB 3/27/2013 Staging Area B Regular sample	WB18-032713A-06 SAB-2-1000CY 3/27/2013 Staging Area B Regular sample	WB18-042613A-04 SAB-3-1000CY 4/26/2013 Staging Area B Regular sample
ALUMINUM	NC	NC	NC	mg/kg	2580	7150	10800	5510	7570
ANTIMONY	NC	NC	NC	mg/kg	2.5U	2.0U	0.16B	2.0U	3.0U
ARSENIC	13	16	16	mg/kg	1.9B	3.1	2.6	3.1	2.1B
BARIUM	433	400	400	mg/kg	32	24.4	48.3	47.1	84.6
CADMIUM	4	4.3	9.3	mg/kg	0.19B	0.51U	0.20B	0.061B	0.23B
CALCIUM	NC	NC	NC	mg/kg	83600	109000	26500	80200	178000
CHROMIUM	41	180	1500	mg/kg	4.2	27.4	21.9	[57.3]	11.2
COBALT	NC	NC	NC	mg/kg	2.3B	3.9B	6.5	6.9	3.6B
COPPER	50	270	270	mg/kg	5.5	11.8	13.4	9	13.4
IRON	NC	NC	NC	mg/kg	4540	8300	16200	7850	8180
LEAD	63	400	1000	mg/kg	4.4	12.5	8.1	7.7	5.3B
MAGNESIUM	NC	NC	NC	mg/kg	7620	20700	12100	12700	7410
MANGANESE	1600	2000	10000	mg/kg	154	284	309	261	280
MERCURY	0.18	0.81	2.8	mg/kg	0.026B	0.046	0.051	0.13	0.055
NICKEL	30	310	310	mg/kg	6.4	12.6	28.1	[35.2]	11.8
POTASSIUM	NC	NC	NC	mg/kg	455B	1980	2450	1180	2310
SELENIUM	3.9	180	1500	mg/kg	[7.0]	1.7B	1.9U	0.34B	2.4B
SILVER	2	180	1500	mg/kg	0.17B	0.14B	0.15B	0.37B	0.76U
SODIUM	NC	NC	NC	mg/kg	1080B	1310	869B	887B	1900
THALLIUM	NC	NC	NC	mg/kg	0.46B	0.30B	0.94U	0.31B	7.6U
VANADIUM	NC	NC	NC	mg/kg	5.1B	13.5	16.3	9.7	13.4
ZINC	109	10000	10000	mg/kg	13.1	19.4	43.7	19.2	24.3

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-042613A-06 SAB-4-1000CY 4/26/2013 Staging Area B Regular sample	WB18-061413-02 SAB-5-1000CY 6/14/2013 Staging Area B Regular sample	WB18-091113-02 SAB-6-1000CY 9/11/2013 Staging Area B Regular sample	WB18-091113-04 SAB-7-1000CY 9/11/2013 Staging Area B Regular sample	WB18-040813A-04 DA-1-1000CY 4/8/2013 Staging Area C Regular sample
ALUMINUM	NC	NC	NC	mg/kg	6730	5530	5680	4790	11400
ANTIMONY	NC	NC	NC	mg/kg	3.7U	0.77B	0.37B	0.27B	0.73B
ARSENIC	13	16	16	mg/kg	5	7.1	2.2B	2.8	7.7
BARIUM	433	400	400	mg/kg	58.5	33.4B	62.5	25.9	128
CADMIUM	4	4.3	9.3	mg/kg	0.24B	0.32B	0.64U	0.50U	[**12.6**]*
CALCIUM	NC	NC	NC	mg/kg	241000	194000	90700	62000	70200
CHROMIUM	41	180	1500	mg/kg	11.2	7.5	6.7	5	[182]*
COBALT	NC	NC	NC	mg/kg	3.4B	2.8B	4.1B	2.6B	10
COPPER	50	270	270	mg/kg	11	7	9.8	5.4	[148]
IRON	NC	NC	NC	mg/kg	6240	5050	11200	8660	16500
LEAD	63	400	1000	mg/kg	7.2B	7.3	4.2	3.9	[201]
MAGNESIUM	NC	NC	NC	mg/kg	14100	20500	10100	7020	11200
MANGANESE	1600	2000	10000	mg/kg	335	302	476	222	552
MERCURY	0.18	0.81	2.8	mg/kg	0.071	0.074	0.039U	0.012B	[0.30]
NICKEL	30	310	310	mg/kg	10.2	8	9.1	5.9	[47.9]
POTASSIUM	NC	NC	NC	mg/kg	1070B	265B	1120B	767B	2430
SELENIUM	3.9	180	1500	mg/kg	2.6B	2.7B	2.6U	2.0U	2.9U
SILVER	2	180	1500	mg/kg	0.93U	2.5U	0.64U	0.50U	[6.1]
SODIUM	NC	NC	NC	mg/kg	1090B	1230B	526B	456B	609B
THALLIUM	NC	NC	NC	mg/kg	9.3U	5.0U	0.91B	0.62B	0.32B
VANADIUM	NC	NC	NC	mg/kg	11.7	10.6	10.8	8.4	26.9
ZINC	109	10000	10000	mg/kg	22.3	16.3	27.3	23	[576]

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-050913A-02 DA-2-1000CY 5/9/2013 Staging Area C Regular sample	WB18-053013A-02 DA-Add Material-01 5/30/2013 Staging Area C Regular sample	WB18-060413-02 DA-PILE-5900 6/4/2013 Staging Area C Regular sample	WB18-032113-02 ESFM-0.5-1000CY 3/21/2013 Staging Area C Regular sample	WB18-032113-04 ESFM-1-1000CY 3/21/2013 Staging Area C Regular sample
ALUMINUM	NC	NC	NC	mg/kg	9180	11000	5780	5270	6020
ANTIMONY	NC	NC	NC	mg/kg	1.1B	4.2U	0.62B	9.8U	10U
ARSENIC	13	16	16	mg/kg	4.1	9.3	7.4	6.7	7.9
BARIUM	433	400	400	mg/kg	104	168	204	375	346
CADMIUM	4	4.3	9.3	mg/kg	2.5	3	**[19.5]**	[4.4]*	***[14.3]******
CALCIUM	NC	NC	NC	mg/kg	173000	156000	191000	241000	146000
CHROMIUM	41	180	1500	mg/kg	[54.1]	[192]*	[791]*	[44.8]	[145]
COBALT	NC	NC	NC	mg/kg	6.0B	15.5	31.2	3.6B	4.7B
COPPER	50	270	270	mg/kg	45.6	[236]	[243]	46.5	[154]
IRON	NC	NC	NC	mg/kg	12400	37000	15800	5750	7730
LEAD	63	400	1000	mg/kg	56.9	[261]	[195]	46.7	[168]
MAGNESIUM	NC	NC	NC	mg/kg	17600	22300	18700	13200	17900
MANGANESE	1600	2000	10000	mg/kg	688	956	779	201	294
MERCURY	0.18	0.81	2.8	mg/kg	[0.24]	[2.1]*	[1.0]*	[0.57]	[1.2]*
NICKEL	30	310	310	mg/kg	22.9	[82.2]	***[370]******	18.8	[34.3]
POTASSIUM	NC	NC	NC	mg/kg	2320	2460	1490	647B	828B
SELENIUM	3.9	180	1500	mg/kg	0.61B	2.6B	0.81B	3.5B	1.5B
SILVER	2	180	1500	mg/kg	2.2U	[2.1]	[7.6]	[8.1]	[9.3]
SODIUM	NC	NC	NC	mg/kg	887B	4690	1040B	1360	1070
THALLIUM	NC	NC	NC	mg/kg	0.33B	2.1U	0.44B	0.98U	1.0U
VANADIUM	NC	NC	NC	mg/kg	17.9	52.3	43.6	11.8	15.4
ZINC	109	10000	10000	mg/kg	[183]	[806]	[745]	[143]	[522]

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-040813A-02 ESFM-2-1000CY 4/8/2013 Staging Area C Regular sample	WB18-041113A-02 ESFM-3-1000CY 4/11/2013 Staging Area C Regular sample	WB18-042613A-02 ESFM-4-1000CY 4/26/2013 Staging Area C Regular sample	WB18-050913A-04 ESFM-5-1000CY 5/9/2013 Staging Area C Regular sample	WB18-011514-02 SAC-1-1000CY 1/15/2014 Staging Area C Regular sample
ALUMINUM	NC	NC	NC	mg/kg	6950	7300	5630	3790	6040
ANTIMONY	NC	NC	NC	mg/kg	0.77B	1.4B	4.5U	1.9B	4.5U
ARSENIC	13	16	16	mg/kg	10.3	[***21.1***]*	[14.9]	[15.5]	8.6
BARIUM	433	400	400	mg/kg	140	323	55.9	56.5	50.4
CADMIUM	4	4.3	9.3	mg/kg	[***11.1***]*	[***27.5***]*	[6.3]*	[4.6]*	0.70B
CALCIUM	NC	NC	NC	mg/kg	191000	186000		389000	237000
CHROMIUM	41	180	1500	mg/kg	[120]	[329]*	[59.5]	[57.2]	17.5
COBALT	NC	NC	NC	mg/kg	4.1B	5.4B	2.9B	3.0B	2.7B
COPPER	50	270	270	mg/kg	[120]	[***297***]*	[65.4]	[58.5]	20.6
IRON	NC	NC	NC	mg/kg	7860	10800	5570	4800	5520
LEAD	63	400	1000	mg/kg	[116]	[260]	53.8	45.6	13
MAGNESIUM	NC	NC	NC	mg/kg	11600	18200	17000	11900	25700
MANGANESE	1600	2000	10000	mg/kg	198	341	204	169	246
MERCURY	0.18	0.81	2.8	mg/kg	[1.2]*	[1.4]*	[0.30]	[0.22]	0.1
NICKEL	30	310	310	mg/kg	26.3	[49.6]	14.5	15.5	11.3
POTASSIUM	NC	NC	NC	mg/kg	986B	790B	400B	209B	217B
SELENIUM	3.9	180	1500	mg/kg	3.6U	5.8U	2.3B	0.82B	0.98B
SILVER	2	180	1500	mg/kg	[4.7]	[12.3]	1.9	5.4U	[2.3]
SODIUM	NC	NC	NC	mg/kg	1120B	1460B	2100B	1880B	1300B
THALLIUM	NC	NC	NC	mg/kg	0.88B	1.4B	0.89B	1.4B	2.3U
VANADIUM	NC	NC	NC	mg/kg	15.1	15.3	10.4B	8.7B	9.8B
ZINC	109	10000	10000	mg/kg	[504]	[1110]	[179]	[188]	45.3

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Table A-3
Honeywell
Wastebeds 1 through 8 Feasibility Study
Integrated IRM Waste Characterization Data
Method 6010/7471 Metals

Parameter Name	NYSDEC Part 375.6 Restricted Use Protection of Ecological Resources	NYSDEC Part 375.6 Restricted Use Restricted Residential	NYSDEC Part 375.6 Restricted Use Commercial	Field Sample ID Location Sample Date Subsite Area Sample Purpose Units	WB18-062613-02 LSWR-01-1000CY 6/26/2013 Staging Area C Regular sample	WB18-062613-04 LSWR-02-1000CY 6/26/2013 Staging Area C Regular sample	WB18-073013-02 LSWR-03-1000CY 7/30/2013 Staging Area C Regular sample	WB18-073013-04 LSWR-04-1000CY 7/30/2013 Staging Area C Regular sample
ALUMINUM	NC	NC	NC	mg/kg	3090	3920	2800	6930
ANTIMONY	NC	NC	NC	mg/kg	0.66B	0.67B	6.4U	10U
ARSENIC	13	16	16	mg/kg	2.0B	3.0B	6.1	[15.3]
BARIUM	433	400	400	mg/kg	164	311	79.6	***432****
CADMIUM	4	4.3	9.3	mg/kg	0.15B	0.14B	0.44B	0.77B
CALCIUM	NC	NC	NC	mg/kg	219000	271000	216000	308000
CHROMIUM	41	180	1500	mg/kg	6.9	7.2	3.9	10.4
COBALT	NC	NC	NC	mg/kg	2.1B	2.5B	1.7B	3.6B
COPPER	50	270	270	mg/kg	7.5	10	8.4	17.5
IRON	NC	NC	NC	mg/kg	4770	4320	3260	8670
LEAD	63	400	1000	mg/kg	2.1B	3.2B	3.8	8.7
MAGNESIUM	NC	NC	NC	mg/kg	8020	10500	6550	30600
MANGANESE	1600	2000	10000	mg/kg	222	269	145	390
MERCURY	0.18	0.81	2.8	mg/kg	0.1	0.059U	0.028B	0.042B
NICKEL	30	310	310	mg/kg	5.2B	6.0B	4.5B	12.1
POTASSIUM	NC	NC	NC	mg/kg	652B	767B	593B	820B
SELENIUM	3.9	180	1500	mg/kg	3.9U	20U	3.2U	5.2U
SILVER	2	180	1500	mg/kg	0.97U	0.42B	1.8	[2.7]
SODIUM	NC	NC	NC	mg/kg	3300	6240	1030B	2910
THALLIUM	NC	NC	NC	mg/kg	9.7U	9.9U	3.2U	5.2U
VANADIUM	NC	NC	NC	mg/kg	5.2B	6.3B	4.5B	10.6B
ZINC	109	10000	10000	mg/kg	13.8B	19.8B	10.2	27.1

Notes:

U - Not detected; J - estimated value; B - analyte detected in associated laboratory blankl; NC - no cleanup objective.

[ ] - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources.

* - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Restricted Residential.

Bold - Exceeds NYSDEC Part 375.6 Restricted Use Soil Cleanup Objectives for Commercial Use.

Appendix B

Remedial Alternative Cost Estimate Assumptions

COST ASSUMPTIONS – ALL ALTERNATIVES

Assumptions:

- Considered Capital Improvement project
- Direct Construction Unit costs are composed of the following :
  - Base Costs (materials, equipment, labor)
  - Sales tax on materials and equipment costs (8%)
  - Markup on Import Materials (2.5%), Materials (3.5%), Subcontractors (4%), Equipment (5%) and Labor (10%)
- Indirect Costs:
  - Engineering (6%)
  - Construction Management (8%)
  - PM/ESDC (5%)
  - Scope Contingency (15%)

ALTERNATIVE 1 – NO ACTION

- No Capital Cost
- No Integrated Interim Remedial Measure (IRM) Operation, Monitoring and Maintenance (OM&M)

ALTERNATIVE 2 – VEGETATED COVER SYSTEM

Type of Use	Type of Cover	Area Assumed for FS Cost Estimation Purposes (Acre)	Assumed Percentage of Area for FS Cost Estimation Purposes
Ecological SCO Exceedances	2' Vegetated Soil Cover	20	12%
Ecological SCO Exceedances (over 6" IRM Restoration)	1.5' Vegetated Scover	10	6%
Passive Recreational Use with Commercial SCO Exceedances	1' Vegetated Soil Cover	5	3%
Passive Recreational Use Below SCOs	1' Vegetated Soil Cover	3	2%
Passive Recreational Use with Commercial SCO Exceedances	1' Vegetated Structural Fill	19	11%
Active or Passive Recreational Use Below SCOs	Vegetation Enhancement	114	66%
	Total Area	**171**	

TABLE B1. VEGETATED COVER SYSTEM ACREAGES

Table B1 is based on Figure 3-1 "Alternative 2 – Vegetated Cover System" which depicts the representative cover areas assumed for purposes of alternative cost estimating. Final cover types, areas and locations would be selected as part of the design process.

01-GENERAL CONDITIONS

- The following items are included in General Conditions:
  - Mobilization/Demobilization
  - Small Tools and Consumables
  - Trailer, Power
  - Fuel
  - Safety and Field Supervision
  - Surveys/Layouts
  - Irrigation

02-SITE PREPARATION

- Clearing and Grubbing

Cover Type	Clearing and Grubbing (Acre)	Basis
2' Soil Cover	20	Entire Area
1.5' Soil Cover	0	Entire Area
1' Soil Cover	8	Entire Area
1' Structural Fill Cover	0	None Needed
Vegetative Enhancement	0	None Needed
Total:	**28**	**acres**

TABLE B2. ALTERNATIVE 2 CLEARING AND GRUBBING

- Rough Grading

Cover Type	Rough Grading (Acre)	Basis
2' Soil Cover	20	Entire Area
1.5' Soil Cover	10	Entire Area
1' Soil Cover	8	Entire Area
1' Structural Fill Cover	19	Entire Area
Vegetative Enhancement	0	None Needed
Total:	**57**	**acres**

TABLE B3. ALTERNATIVE 2 ROUGH GRADING

- Construction Access Path

Assumptions:

» Access paths only for areas greater than 250 ft from existing permanent access paths

» Proposed access paths generally along Ninemile Creek (NMC), northwestern edge of the Crucible Landfill area and the Northern Shoreline

» Abandoned in place following construction (no maintenance)

» Paths are compacted fill material, 1 ft thick by 15 ft wide, underlain by geogrid

Cover Type	Temporary Access Paths (LF)	Basis
2' Soil Cover	0	None Needed; Clearing/Grading provides access
1.5' Soil Cover	0	None Needed; Clearing/Grading provides access
1' Soil Cover	0	None Needed; existing paths/trails sufficient
1' Structural Soil Cover	0	None Needed
Vegetative Enhancement	3,000	
Total:	**3,000**	**linear feet (LF)**
Geogrid	**5,000**	**square yards**
Site fill	**1,667**	**cubic yards (cy)**

Table B4. Alternative 2 Temporary Construction Access Path

- Mixing Area – For blending of Structural Soil on site.

Assumptions:

» Three areas at 50-ft by 50-ft. Gravel pad contained by jersey barriers

» Mixing to be accomplished by excavator/front end loader

03- QA/QC

- Testing

» Materials testing at 1 sample per 500 cy

» Topsoil Analysis: pH (ASTM D4972), % Organics (ASTM D2974), Sieve with Hydrometer (ASTM D422)

- » Types A, E, F: Sieve (ASTM D422), Laboratory Compaction Modified Effort (ASTM D1557)

- Erosion and Sediment Control
  - » Reinforced Silt Fence around site placed at the boundary of the following areas, as measured by GIS: parking lots, amphitheater/Crucible landfill area, biosolids area, bike trail, and sloped/inaccessible areas
  - » Assumed quantity = 145,000 LF

04 – STRUCTURAL SOIL COVER

- Total Cover Area = 19 acres

Assumptions

- » Diagonal Parking at 60-degree parking angle (parking width = 20 ft) on either side of travel lane
- » Travel lanes 15 ft wide with 20 ft wide end-travel lanes
- » Travel Lanes to be 1 ft crushed stone underlain with geogrid
- » Parking areas to be Type A stone fill placed to 1 ft thickness; amended with 20% topsoil by volume
- » Vegetation on parking area only (not travel lanes)

Line Item	Quanitity
Total Structural Soil cover (acres)	19.0
Travel Lanes (LF); 12 @ 1,000 LF + 2 @ 700 LF + 2 @ 500 LF	14,400
Travel Lanes (acres)	5.0
Geogrid (square yards)	**24,000**
Site Fill - Type F (cy) - 1 ft thickness	**8,000**
Parking (acres)	14.0
Type A Fill (NYSDOT) (cy) - 1 ft thickness	**22,653**
Topsoil (cy) - 20% by volume @ 1 ft thickness	**4,531**
Seeding (acres)	**14.0**

TABLE B6: STRUCTURAL SOIL COVER; PARKING AND TRAVEL LANES

05 VEGETATIVE SOIL COVER – 1 FT, 1.5 FT AND 2 FT THICKNESS

- » Installed by conventional equipment placement
- » Comprises 6-inches topsoil underlain by clean fill as the balance of the thickness. Topsoil thickness to be selected during design.
- » Hydroseeding over entire area

06 VEGETATIVE ENHANCEMENT – 4-INCHES THICKNESS

- » Install 4-inches processed compost mulch and seed mix using pneumatic application methods
- » Subcontract cost quote per Ground Effects, Inc., November 2013 and D&S Landscaping, January 2014

ALTERNATIVE 3– ENHANCED VEGETATIVE COVER SYSTEM

Type of Use	Type of Cover	Area Assumed for FS Cost Estimation Purposes (Acre)	Assumed Percentage of Area for FS Cost Estimation Purposes
Active Recreational Use Below SCOs	2' Vegetated Soil Cover	7	4%
Ecological SCO Exceedances	2' Vegetated Soil Cover	20	12%
Ecological SCO Exceedances (over 6" IRM Restoration)	1.5' Vegetated Cover	10	6%
Passive Recreational Use with Commercial SCO Exceedances	1' Vegetated Soil Cover	5	3%
Passive Recreational Use with Commercial SCO Exceedances	1' Vegetated Structural Fill	19	11%
Passive Recreational Use Below SCOs	1' Vegetated Soil Cover	34	20%
Steep Slopes/Heavily Wooded Area of Limited Recreational Use Below SCOs	Vegetation Enhancement	76	44%
	Total Area	**171**	

TABLE B7. VEGETATED COVER SYSTEM ACREAGES

Table B7 is based on Figure 3-2 "Alternative 3 – Enhanced Vegetated Cover System" which depicts the representative cover areas assumed for purposes of alternative cost estimating. Final cover types, areas and locations would be selected as part of the design process.

01-GENERAL CONDITIONS

- The following are Lump Sum:
  - Mobilization/Demobilization
  - Small Tools and Consumables
  - Trailer, Power
  - Fuel
  - Safety and Field Supervision
  - Surveys/layouts
  - Irrigation

02-SITE PREPARATION

- Clearing and Grubbing

Cover type	Clearing and Grubbing (Acre)	Basis
2' Soil Cover	27	Entire Area
1.5' Soil Cover	0	Entire Area
1' Soil Cover	39	Entire Area
1' Structural Soil Cover	0	None Needed
Vegetative Enhancement	0	None Needed
Total:	**66**	**acres**

TABLE B8. ALTERNATIVE 3 CLEARING AND GRUBBING

- Rough Grading

Cover Type	Rough Grading (Acre)	Basis
2' Soil Area	27	Entire Area
1.5' Soil Area	10	Entire Area
1' Soil Area	39	Entire Area
1' Structrual Soil Area	19	Entire Area
Vegetative Enhancement	0	None Needed
Total:	**95**	**acres**

TABLE B9. ALTERNATIVE 3 ROUGH GRADING

- Construction Access Paths

Assumptions:

» Access paths only for areas greater than 250 ft from existing permanent access paths

» Proposed access paths generally along NMC, northwestern edge of the Crucible Landfill area and the Northern Shoreline

» Abandoned in place following construction (no maintenance)

» Paths are compacted fill material, 1 ft thick by 15 ft wide, underlain by geogrid

Cover Type	Temporary Access Paths (LF)	Basis
2' Soil Cover	0	None Needed; Clearing/Grading provides access
1.5' Soil Cover	0	None Needed; Clearing/Grading provides access
1' Soil Cover	0	None Needed; existing paths/trails sufficient
1' Structural Soil Cover	0	None Needed
Vegetative Enhancement	3000	
Total:	**3,000**	**linear feet**
Geogrid	**5,000**	**square yards**
Site fill	**1,667**	**cubic yards**

TABLE B10. ALTERNATIVE 3 TEMPORARY CONSTRUCTION ACCESS PATHS

- Mixing Area – For blending of Structural Soil on site

  Assumptions:

  - Three areas at 50-ft by 50-ft. Gravel pad contained by jersey barriers
  - Mixing to be accomplished by excavator and/or front end loader

03- QA/QC

- Testing
  - Materials testing at 1 sample per 500 cy
  - Topsoil Analysis: pH (ASTM D4972), % Organics (ASTM D2974), Sieve with Hydrometer (ASTM D422)
  - Types A, E, F: Sieve (ASTM D422), Laboratory Compaction Modified Effort (ASTM D1557)
- Erosion and Sediment Control
  - Reinforced Silt Fence around site placed at the boundary of the following areas, as measured by GIS: parking lots, amphitheater/Crucible landfill area, biosolids area, bike trail, and sloped/inaccessible areas
  - Assumed quantity = 145,000 LF

04 – STRUCTURAL SOIL COVER

- Total Cover Area = 19 acres

  Assumptions

  - Diagonal Parking at 60-degree parking angle (parking width = 20 ft) on either side of travel lane
  - Travel lanes 15 ft wide with 20 ft wide end-travel lanes
  - Travel Lanes to be 1 ft crushed stone underlain with geogrid
  - Parking areas to be Type A stone fill placed to 1 ft thickness; amended with 20% topsoil by volume
  - Vegetation on parking area only (not travel lanes)

Line Item	Quanitity
Total Structural Soil cover (acres)	19.0
Travel Lanes (LF); 12 @ 1,000 LF + 2 @ 700 LF + 2 @ 500 LF	14400
Travel Lanes (acres)	5.0
Geogrid (square yards)	**24000**
Site Fill - Type F (Cubic yards) - 1ft thickness	**8000**
Parking (acres)	14.0
Type A Fill (NYSDOT) (cubic yards) - 1-ft thickness	**22653**
Topsoil (cubic yards) - 20% by volume @ 1-ft thickness	**4531**
Seeding (acres)	**14.0**

TABLE B11: STRUCTURAL SOIL COVER; PARKING AND TRAVEL LANE AREAS

05 VEGETATIVE SOIL COVER – 1 FT, 1.5 FT AND 2 FT THICKNESS

- Installed by conventional equipment placement
- Comprises 6-inches topsoil underlain by clean fill as the balance of the thickness. Thickness of topsoil to be selected during design.
- Hydroseeding over entire area

06 VEGETATIVE ENHANCEMENT – 4-INCHES THICKNESS

- Install 4-inches processed compost mulch and seed mix using pneumatic application methods
- Subcontract cost quote per Ground Effects, Inc., November 2013 and D&S Landscaping, January 2014

ALTERNATIVE 4A– FULL EXCAVATION OF SOIL/FILL MATERIAL TREATMENT AND OFF-SITE DISPOSAL

- Full excavation of Site soil/fill; including removal of I-690/NY-695
- Collection and management of construction water during excavation
- Off-site transportation and disposal
- Restoration of lakeshore as aquatic areas, upland as vegetated cover, and replacement of highways

	Area (acres)	Average Ground Surface Elevation (ft amsl)	Depth to Marl (ft)	Excavation Elevation (ft amsl)	Excavation volume (cu. Yards)
Wastebed 1	37.13	423.54	62.21	361.33	3,726,570
Wastebed 2	28.64	437.16	74.83	362.33	3,457,585
Wastebed 3	30.78	430.17	69.13	361.04	3,432,885
Wastebed 4	46.38	426.85	64.26	362.59	4,808,344
Wastebed 5	62.29	411.42	51.61	359.81	5,186,523
Wastebed 6	31.85	395.43	38.85	356.58	1,996,294
Wastebed 7	27.9	394.2	29.5	364.7	1,327,854
Wastebed 8	27.25	402.3	24.5	377.8	1,077,102
Ditch A (AOI 2D)	1.71	400.63	26.8	373.83	73,936
Ninemile Creek Shoreline (AOI 1C)	9.75	376.93	15.9	361.03	250,107
Eastern Lakeshore (AOI 2P)	5.13	368.27	8.58	359.69	71,012
SMU-4 Lakeshore (AOI 1P)	29.22	364.36	8.42	355.94	396,932
TOTAL AREA	338.03			rounded	25,805,000

TABLE B12: SCHEDULE OF ESTIMATED SOIL/FILL VOLUMES FOR FULL EXCAVATION OF SOIL/FILL

Table B12 documents the assumed areas and depths of fill for complete excavation of site soil/fill.

01-GENERAL CONDITIONS

- The following items are included in General Conditions:
  - Mobilization/Demobilization
  - Small Tools and Consumables
  - Trailer, Power
  - Fuel
  - Safety and Field Supervision
  - Surveys/Layouts
  - Air Monitoring
  - Irrigation
  - Durations based on assumption of approximately 895,000 cy removed/placed annually based on 10 months per year, 22 work days per month average, multiple shifts

02- SITE PREPARATION

The following are included as Site Preparation Items:

- Detour of I-690/NYS-695 to surface streets such as State Fair Boulevard

- Clearing and Grubbing over approximately 30% of the excavation area
- Dewatering during excavation
- Internal haul roads installed as necessary as site elevations are reduced due to excavation
- Sheeting along lakeshore and Ninemile Creek for water handling

03- QA/AC

- Testing
  - Materials testing at 1 sample per 500 cy
  - Topsoil Analysis: pH (ASTM D4972), % Organics (ASTM D2974), Sieve with Hydrometer (ASTM D422)
  - Types A, E, F: Sieve (ASTM D422), Laboratory Compaction Modified Effort (ASTM D1557)
- Turbidity Curtain
  - Placed outboard of sheeting
- Erosion and Sediment Control
  - Reinforced Silt Fence around site placed at the upland site boundary

04- EXCAVATION

- Removal of I-690/NY-695
    - 18 linear miles of 2 lane highway with shoulder at grade and elevated 2 lane highway with barriers
- Excavation of soil/fill material to the area/depths noted in Table B12
- On-site Ex situ treatment, such as thermal, prior to disposal; approximately 1.7 million cy (2.0 tons) assumed
- Stabilization of material for trucking as necessary; approximately 15% of total volume of wastebeds assumed resulting in 20% bulking

05-TRANSPORTATION

- Transportation by truck within 200 miles (400 miles round trip)

06-DISPOSAL

- Non-hazardous waste disposal for soil/fill material and/or beneficial reuse (1.2 ton per cy)
- C&D disposal for highway debris (1.5 ton per cy)

07-RESTORATION

- Reconstruction of I-690/NY-695 along existing alignment
- Backfill to Elevation 362.5 ft above mean sea level (AMSL) outboard of highways and restore with aquatic plantings
    - Clay loam substrate installed by conventional equipment placement (in the dry)
- Backfill to Elevation 380 ft AMSL inboard of highways and restore with grass
    - Installed by conventional equipment placement
    - Comprises 6-inches topsoil underlain by clean fill as the balance of the thickness. Thickness of topsoil to be selected during design.
    - Hydroseeding over entire area

ALTERNATIVE 4B– PARTIAL EXCAVATION OF SOIL/FILL MATERIAL

- Excavation of site soil/fill accessible with I- 690/NY-695 in-place
- Collection and management of storm water during excavation
- Off-site Transportation and Disposal
- Restoration of lakeshore as aquatic areas and upland as vegetated cover.

	Full Depth Area (acres)	Slope Area (acres)	Average Ground Surface Elevation (ft amsl)	Excavation Elevation (ft amsl)	Excavation Volume
Wastebed 1	37.13		423.54	361.33	3,726,570
Wastebed 2	18.78	3.44	437.16	362.33	2,889,348
Wastebed 3	17.20	3.17	430.17	361.04	2,449,370
Wastebed 4	43.72	0.74	426.85	362.59	4,647,659
Wastebed 5	62.29		411.42	359.81	5,186,523
Wastebed 6	31.85		395.43	356.58	1,996,294
Wastebed 7	11.04	2.03	394.2	364.7	621,996
Wastebed 8	8.81	1.69	402.3	377.8	414,912
Ditch A	1.71		400.63	373.83	73,936
Ninemile Creek Shoreline	9.75		376.93	361.03	250,107
Eastern Lakeshore	5.13		368.27	359.69	71,012
Northern Lakeshore	29.22		364.36	355.94	396,932
TOTAL AREA	277	11		rounded	22,720,000

TABLE B13: SCHEDULE OF ESTIMATED SOIL/FILL VOLUMES FOR PARTIAL EXCAVATION OF SOIL/FILL

Table B13 documents the assumed areas and depths of fill for complete excavation of site soils/fill.

01-GENERAL CONDITIONS

- The following items are included in General Conditions:
  - Mobilization/Demobilization
  - Small Tools and Consumables
  - Trailer, Power
  - Fuel
  - Safety and Field Supervision
  - Surveys/Layouts
  - Air Monitoring
  - Irrigation
  - Durations based on assumption of approximately 895,000 cy removed/placed annually based on 10 months per year, 22 work days per month average, multiple shifts

02- SITE PREPARATION

The following are included as Site Preparation Items:

- Clearing and Grubbing over approximately 30% of the excavation area
- Dewatering during excavation

- Internal haul roads installed as necessary as site elevations are reduced due to excavation
- Sheeting along lakeshore and Ninemile Creek for water handling

03- QA/AC

- Testing
  - Materials testing at 1 sample per 500 cy
  - Topsoil Analysis: pH (ASTM D4972), % Organics (ASTM D2974), Sieve with Hydrometer (ASTM D422)
  - Types A, E, F: Sieve (ASTM D422), Laboratory Compaction Modified Effort (ASTM D1557)
- Turbidity Curtain
  - Placed outboard of sheeting
- Erosion and Sediment Control
  - Reinforced Silt Fence around site placed at the upland site boundary

04- EXCAVATION

- Sloping at 1:2 from roadway inboard of I-690 and outboard of NY-695; area between I-690 and NY-695 to remain
- Excavation of soil/fill material beyond sloped areas to areas/depths noted in Table B13
- On-site *ex situ* treatment, such as thermal, prior to disposal; approximately 1.7 million cy (2.0 tons) assumed
- Stabilization of material for trucking as necessary; approximately 15% of total volume of wastebeds assumed resulting in 20% bulking

05-TRANSPORTATION

- Transportation by truck within 400 miles (800 miles round trip)

06-DISPOSAL

- Disposal as beneficial reuse (1.2 ton per cy)

07-RESTORATION

- Installed by conventional equipment placement
- Backfill sloped areas to 1:3
- Backfill to 362.5 ft AMSL outboard of highways and restore with aquatic plantings
  - Clay loam substrate installed by conventional equipment placement (in the dry)
- Backfill to 380 ft AMSL inboard of highways and restore with grass
  - Comprises 6-inches topsoil underlain by clean fill as the balance of the thickness. Thickness of topsoil to be selected during design.
  - Hydroseeding over entire area

Exhibit A

Onondaga Lake SMU-3, SMU-4, Site Areas, Remedial Approach

Remediation Area Boundary

Sediment Management Unit (SMU) Boundary

Extent of ILWD in Littoral Zone

Willis/Semet IRM Barrier Wall

West Wall Portion of the WB-B/HB IRM

East Wall Portion of the WB-B/HB IRM

New York State Digital Orthoimagery from 2009

1,800 900 0 1,800

Feet

FIGURE 3.1

Honeywell

Onondaga Lake
Syracuse, New York

SMU Boundaries and Remediation Areas

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

User: p0013927

Date Revised: 2/15/2012 11:16:50 AM

Path: Q:\GIS\GIS_Lake\CAP\MXD\SMUs_Rem_Areas.mxd

Delineated Wetland Boundaries

Remediation Area Boundary

Isolation Cap Area

Dredge Area

Sediment Management Unit (SMU) Boundary

Groundwater Collection Trench

N

New York State Digital Orthoimagery from 2009

0 295 590 1,180
Feet

FIGURE 3.2

Honeywell

Onondaga Lake
Syracuse, New York

Remediation Areas A & B
Dredge and Cap Areas

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

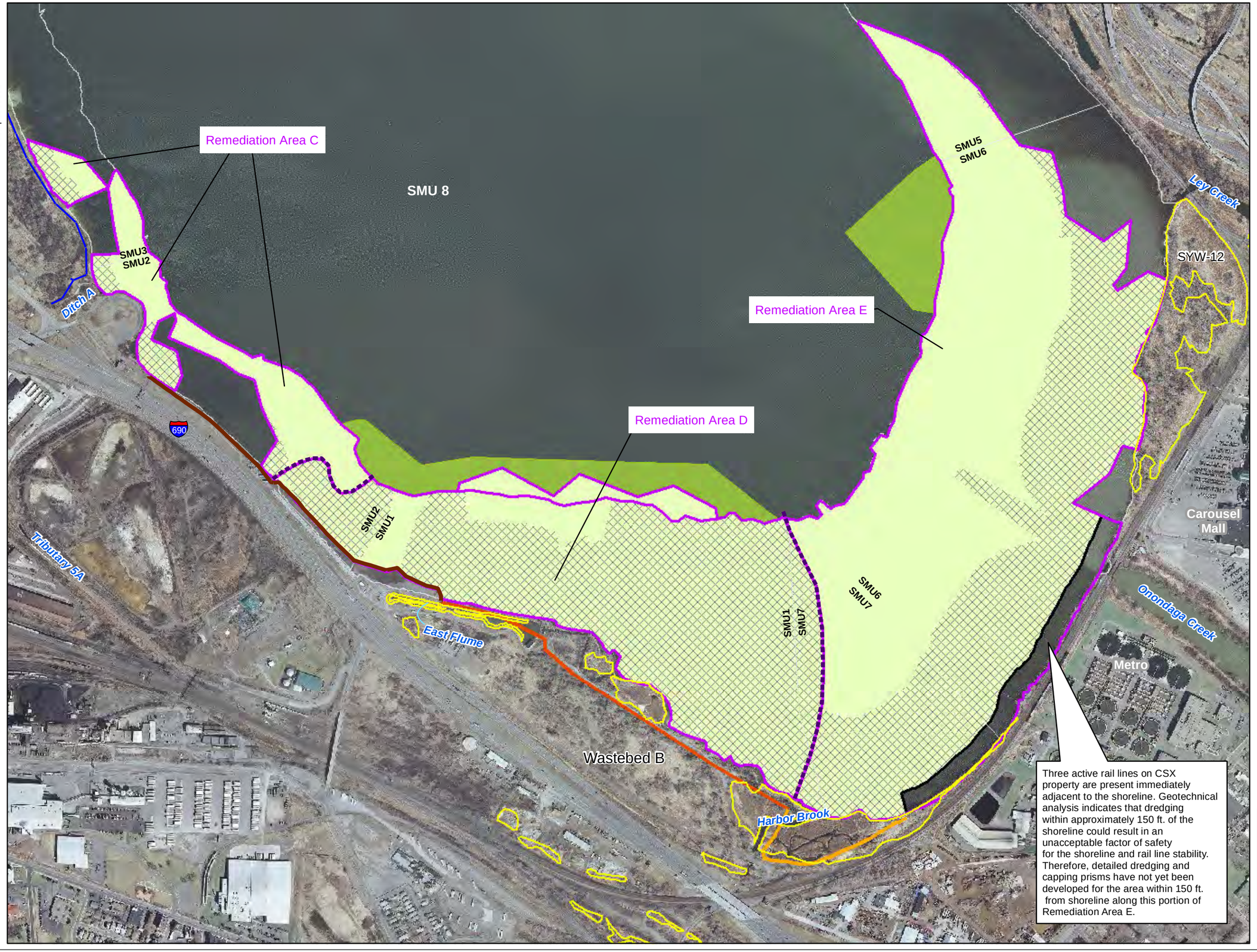
Path: Q:\GIS\GIS_Lake\CAP\MXD\Final_Design\RemsAB_DredgeCap.mxd

Date Revised: 2/15/2012 10:12:36 AM

User: p0065882

Date Revised: 2/20/2012 4:58:02 PM

Path: Q:\GIS\GIS_Lake\CAP\MXD\Intermediate_Design\RemsCDE_Dredge_Cap.mxd



Three active rail lines on CSX property are present immediately adjacent to the shoreline. Geotechnical analysis indicates that dredging within approximately 150 ft. of the shoreline could result in an unacceptable factor of safety for the shoreline and rail line stability. Therefore, detailed dredging and capping prisms have not yet been developed for the area within 150 ft. from shoreline along this portion of Remediation Area E.

- Remediation Area Boundary
- Isolation Cap Area
- SMU 8 Thin-layer Cap Area
- Dredge Area
- Delineated Wetland Boundaries
- Sediment Management Unit (SMU) Boundary
- Extent of ILWD in Littoral Zone
- Willis/Semet IRM Barrier Wall
- West Wall Portion of the WB-B/HB IRM
- East Wall Portion of the WB-B/HB IRM
- Eastern Shoreline Groundwater Collection Trench

N

New York State Digital Orthoimagery from 2009

650 325 0 650

Feet

FIGURE 3.3

Honeywell

Onondaga Lake
Syracuse, New York

Remediation Areas C, D, & E
Dredge & Cap Areas

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

Exhibit B

Ninemile Creek OU-2 Site Areas, Remedial Approach

Reach BC

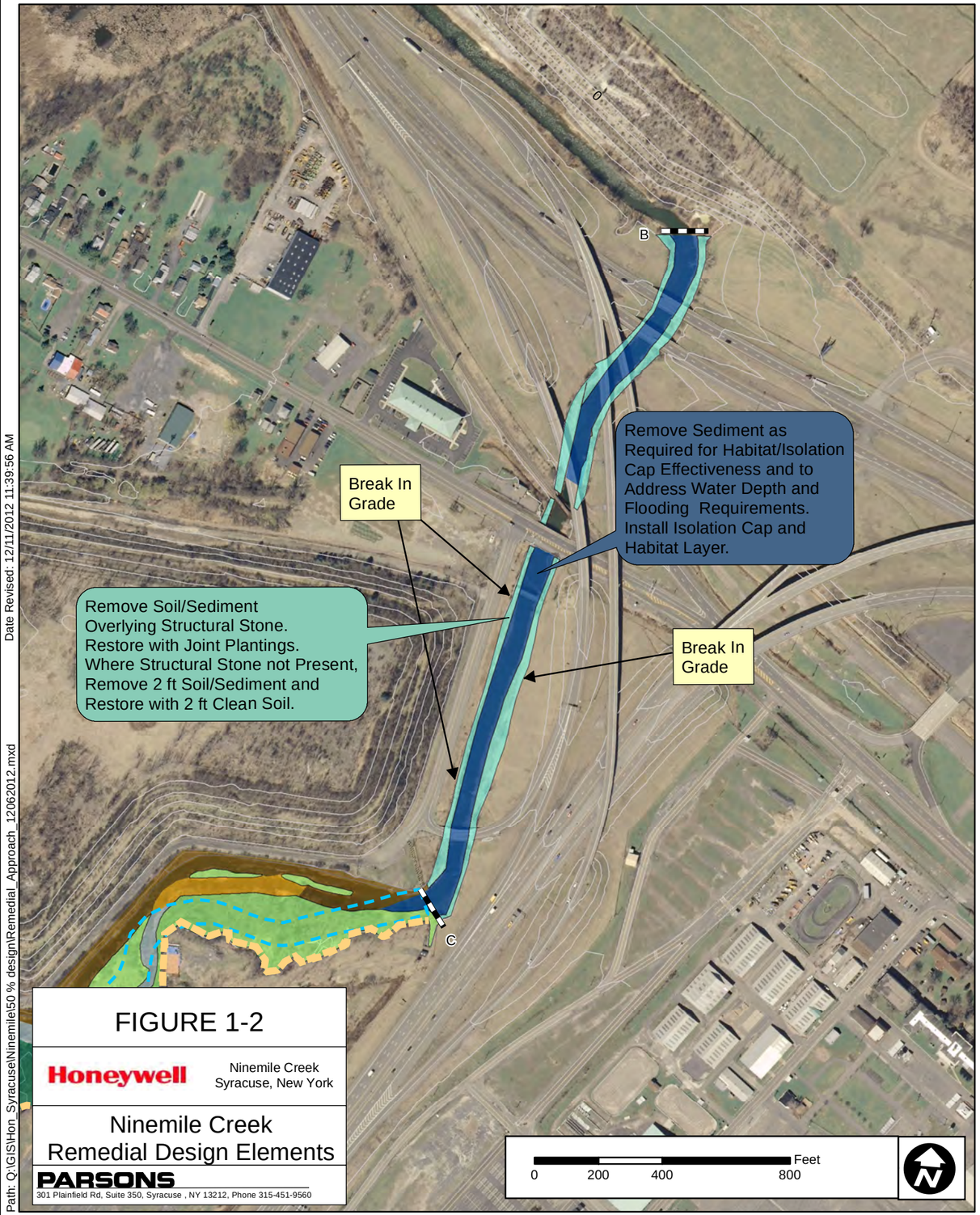


FIGURE 1-2

Honeywell

Ninemile Creek
Syracuse, New York

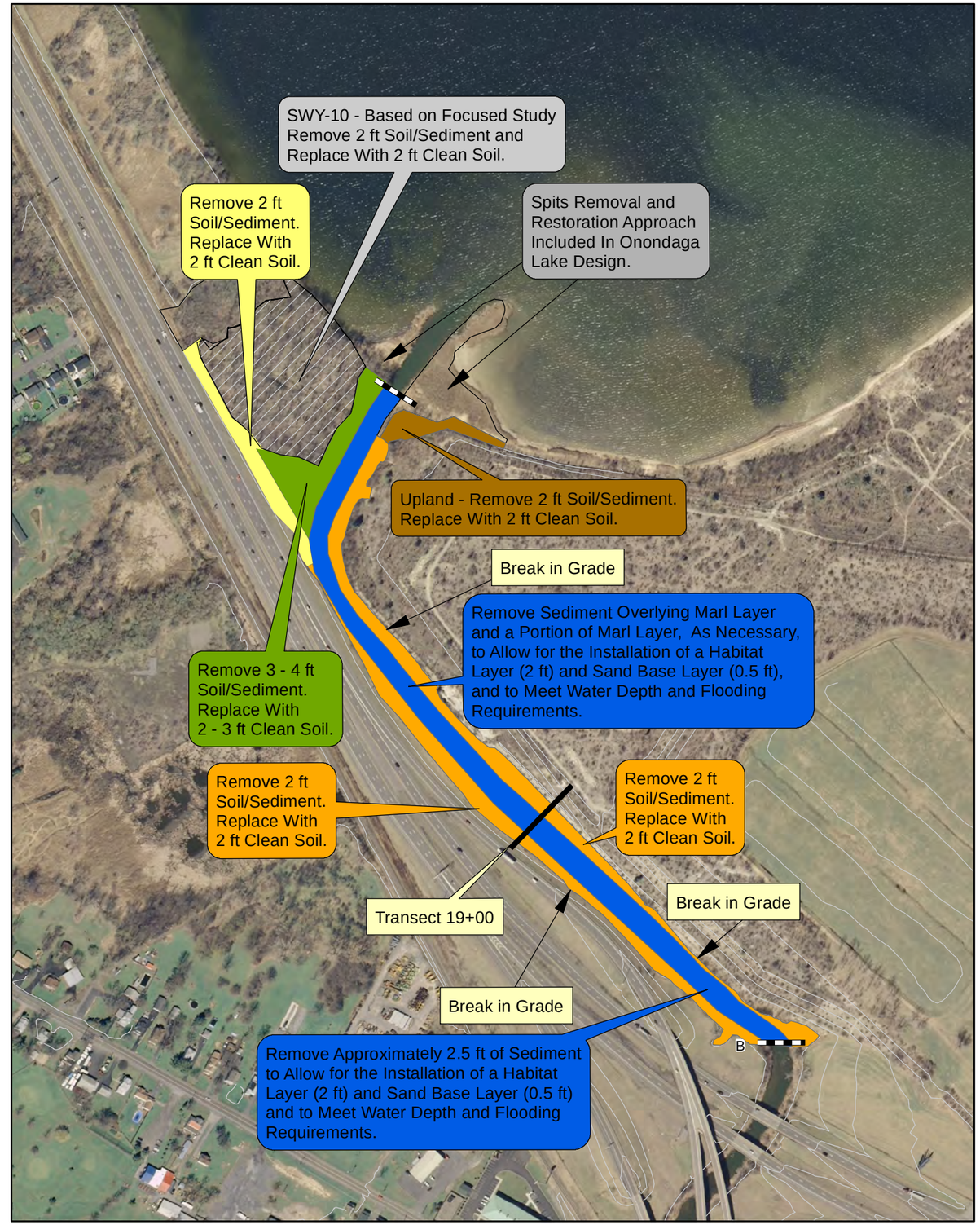
Ninemile Creek
Remedial Design Elements

PARSONS
301 Plainfield Rd, Suite 350, Syracuse , NY 13212, Phone 315-451-9560

Path: Q:\GIS\Hon_Syracuse\Ninemile\50 % design\Remedial_Approach_12062012.mxd

Date Revised: 12/11/2012 11:39:56 AM

Reach AB



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