

TABLE 3
Soil Analytical Results-VOCs
Proposed Strecker Forest Development
Wildwood, Missouri
Mundell Project No. M08044

Sample Location (Depth)	Table B-11 MRBCA Tier 1 RISC Based Target Levels Soil Concentrations Protective of Domestic Use of Groundwater Pathway - Soil Type 3 (Clayey)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Surface Soil (Ingestion, Inhalation (Vapor Emissions and Particulates) and Dermal Contact)	Table B-4 MRBCA Tier 1 Risk- Based Target Levels Residential Land Use Subsurface Soil Indoor Inhalation of Vapor Emissions	US EPA 2004 Region 9 Preliminary Remediation Goals (PRG) (Residential Soil)	B-01 (0.5-2.0')	B-02 (2.0-3.0')	B-03 (1.0-2.0')	B-04 (0.0-1.0')	B-05 (0.5-2.5')	B-06 (0.0-2.0')	DUP-2 B-06 (0.0-2.0')	B-07 (0.0-1.0')	B-08 (0.0-1.0')
Sample Collection Date					10/28/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/3/2009
Chemical Constituent													
1,1,1,2-Tetrachloroethane	0.0823	233	3.38	3.2	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1,1-Trichloroethane	4.51	20,600	237	1,200	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1,2,2-Tetrachloroethane	0.012	30.2	3.35	0.41	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1,2-Trichloroethane	0.0554	106	2.67	0.73	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1-Dichloroethane	0.227	1,060	3.77	510	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1-Dichloroethene	0.114	3,470	8.90	120	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,1-Dichloropropene	-	-	-	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2,3-Trichlorobenzene	-	-	-	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2,3-Trichloropropane	0.00077	3.03	0.219	-	< 0.0063 (<0.0019)*	< 0.0063 (<0.0019)*	< 0.0063 (<0.0019)*	< 0.0062 (<0.0019)*	< 0.0064 (<0.0019)*	< 0.0064 (<0.0019)*	< 0.0063	< 0.0087 (<0.0026)*	< 0.0067 (<0.002)*
1,2,4-Trichlorobenzene	18.8	320	141	62	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2,4-Trimethylbenzene	3.94	749	46.4	52	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2-Dibromo-3-chloropropane	0.00153	3.18	41.5	0.46	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
1,2-Dibromoethane	-	-	-	0.032	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2-Dichlorobenzene	57.4	5,730	931	600	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2-Dichloroethane	-	-	-	0.28	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,2-Dichloropropane	0.0521	75.5	1.22	0.34	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,3,5-Trimethylbenzene	0.894	749	7.41	21	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,3-Dichlorobenzene	8.58	2,050	492	530	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,3-Dichloropropane	-	-	-	100	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
1,4-Dichlorobenzene	7.18	966	25	3.4	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
2,2-Dichloropropane	-	-	-	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
2-Chlorotoluene	4.0	1,370	126	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
4-Chlorotoluene	0.0241	39.2	0.589	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Benzene	0.0655	177	1.43	0.64	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Bromobenzene	-	-	-	28	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Bromochloromethane	0.42	2230	28.4	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Bromodichloromethane	0.953	92.4	1.85	0.82	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Bromoform	1.32	602	507	62	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Bromomethane	0.0271	95.9	0.401	3.9	< 0.013	< 0.013	< 0.013	0.0035 J B	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
Carbon tetrachloride	0.171	48.1	0.264	0.25	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Chlorobenzene	2.05	1,340	51.7	150	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Chlorodibromomethane	1.04	55.2	8.52	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Chloroethane	0.36	2,090	2.24	3.0	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
Chloroform	0.798	180	0.31	0.22	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Chloromethane	0.227	479	0.722	47	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
cis-1,2-dichloroethene	0.658	683	7.01	43	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Dibromomethane	-	-	-	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Dichlorodifluoromethane	6.1	10,400	4.43	-	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
Ethylbenzene	41.1	7,450	646	400	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Hexachlorobutadiene	16.0	16.5	118	6.2	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Isopropylbenzene	27.9	6,940	33.2	570.0	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Methylene chloride	0.0278	842	14.7	9.1	0.003 J B	0.0012 J B	0.0014 J B	0.00092 J B	0.001 J B	0.0015 J B	0.0017 J B	0.0019 J B	0.00095 J B
m-Xylene & p-Xylene ¹	652	7,830	82.5	270	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013
Naphthalene	0.327	36.3	84.5	56.0	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
n-Butylbenzene	41.8	2,730	384	240	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
n-Propylbenzene	13.2	2,730	131	240	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
o-Xylene ¹	652	7,830	82.5	270	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
p-Isopropyltoluene	272	20,500	3,580	-	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
sec-Butylbenzene	35.4	2,730	213	220	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Styrene	11.9	14,200	3,920	1,700	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
tert-Butylbenzene	34.3	2,730	326	390	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Tetrachloroethene	0.147	11.8	1.02	0.48	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Toluene	31.6	6,210	1,720	520	0.0041 J B	< 0.0063	0.00019 J B	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
trans-1,2-Dichloroethene	1.28	1,370	8.62	69	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Trichloroethene	0.149	477	5.04	0.53	< 0.0063	< 0.0063	< 0.0063	< 0.0062	< 0.0064	< 0.0064	< 0.0063	< 0.0087	< 0.0067
Trichlorofluoromethane	29.6	19,300	22.6	390	0.0014 J B	0.0013 J B	0.0016 J B	0.00063 J B	0.0017 J B	0.002 J B	0.001 J B	0.0025 J B	0.0014 J B
Vinyl chloride ²	0.0209	4.6	0.11	0.079	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.013	< 0.017	< 0.013

- NOTES:
- All results obtained using U.S. EPA SW-846 Method 8260 for volatile organic chemicals.
 - All concentrations reported in mg/kg (parts per million).
 - < = sample not detected at concentration above method detection limit (MDL).
 - J = Estimated result. Result is less than the reporting limit (RL).
 - B = The associated method blank contains analyte at a level above the MDL.
 - FB = Compound detected in associated field (rinsate) blank.
 - * = Result is below both the RL and MDL; MDL is greater than MRBCA level.
 - Concentrations in **black bold** font represent an exceedance of MRBCA Table B-11 Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway.
 - Concentrations in **red bold** font represent an exceedance of MRBCA Table B-4 Tier 1 Residential Land Use, Surface Soil or Subsurface Soil.
 - 1 = A specific isomer target level is not available; total xylene target level utilized.

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Proposed Strecker Forest Development
Wildwood, Missouri
Mundell Project No. M08044

Sample Location (Depth)	Table B-11 MRBCA Tier 1 RISC Based Target Levels Soil Concentrations Protective of Domestic Use of Groundwater Pathway - Soil Type 3 (Clayey)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Surface Soil (Ingestion, Inhalation (Vapor Emissions and Particulates) and Dermal Contact)	Table B-4 MRBCA Tier 1 Risk- Based Target Levels Residential Land Use Subsurface Soil Indoor Inhalation of Vapor Emissions	US EPA 2004 Region 9 Preliminary Remediation Goals (PRG) (Residential Soil)	B-09 (0.5-2.0')	B-10 (0.5-2.0')	B-11 (10.0-14.0')	DUP-1 B-11 (10.0-14.0')	B-12 (3.0-5.0')	B-13 (13.0-15.0')	B-14 (6.0-9.0')	B-15 (13.0-17.0')	B-16 (8.0-10.0')
Sample Collection Date					11/5/2009	11/5/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/5/2009
Chemical Constituent													
1,1,1,2-Tetrachloroethane	0.0823	233	3.38	3.2	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1,1-Trichloroethane	4.51	20,600	237	1,200	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1,2,2-Tetrachloroethane	0.012	30.2	3.35	0.41	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1,2-Trichloroethane	0.0554	106	2.67	0.73	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1-Dichloroethane	0.227	1,060	3.77	510	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1-Dichloroethene	0.114	3,470	8.90	120	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,1-Dichloropropene	-	-	-	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2,3-Trichlorobenzene	-	-	-	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2,3-Trichloropropane	0.00077	3.03	0.219	-	< 0.0062 (<0.0019)*	< 0.0063 (<0.0019)*	< 0.0057 (<0.0017)*	< 0.0061	< 0.0057 (<0.0017)*	< 0.0071 (<0.0021)*	< 0.0057 (<0.0017)*	< 0.0056 (<0.0017)*	< 0.0061 (<0.0018)*
1,2,4-Trichlorobenzene	18.8	320	141	62	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2,4-Trimethylbenzene	3.94	749	46.4	52	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2-Dibromo-3-chloropropane	0.00153	3.18	41.5	0.46	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
1,2-Dibromoethane	-	-	-	0.032	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2-Dichlorobenzene	57.4	5,730	931	600	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2-Dichloroethane	-	-	-	0.28	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,2-Dichloropropane	0.0521	75.5	1.22	0.34	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,3,5-Trimethylbenzene	0.894	749	7.41	21	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,3-Dichlorobenzene	8.58	2,050	492	530	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,3-Dichloropropane	-	-	-	100	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
1,4-Dichlorobenzene	7.18	966	25	3.4	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
2,2-Dichloropropane	-	-	-	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
2-Chlorotoluene	4.0	1,370	126	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
4-Chlorotoluene	0.0241	39.2	0.589	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Benzene	0.0655	177	1.43	0.64	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Bromobenzene	-	-	-	28	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Bromochloromethane	0.42	2230	28.4	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Bromodichloromethane	0.953	92.4	1.85	0.82	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Bromoform	1.32	602	507	62	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Bromomethane	0.0271	95.9	0.401	3.9	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
Carbon tetrachloride	0.171	48.1	0.264	0.25	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Chlorobenzene	2.05	1,340	51.7	150	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Chlorodibromomethane	1.04	55.2	8.52	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Chloroethane	0.36	2,090	2.24	3.0	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
Chloroform	0.798	180	0.31	0.22	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Chloromethane	0.227	479	0.722	47	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
cis-1,2-dichloroethene	0.658	683	7.01	43	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Dibromomethane	-	-	-	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Dichlorodifluoromethane	6.1	10,400	4.43	-	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
Ethylbenzene	41.1	7,450	646	400	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Hexachlorobutadiene	16.0	16.5	118	6.2	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Isopropylbenzene	27.9	6,940	33.2	570.0	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Methylene chloride	0.0278	842	14.7	9.1	0.0016 J B	0.0014 J B	0.0014 J B	0.0013 J B	0.00096 J B	0.0018 J B	0.001 J B	0.0013 J B	0.0017 J B
m-Xylene & p-Xylene ¹	652	7,830	82.5	270	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012
Naphthalene	0.327	36.3	84.5	56.0	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
n-Butylbenzene	41.8	2,730	384	240	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
n-Propylbenzene	13.2	2,730	131	240	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
o-Xylene ¹	652	7,830	82.5	270	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
p-Isopropyltoluene	272	20,500	3,580	-	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
sec-Butylbenzene	35.4	2,730	213	220	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Styrene	11.9	14,200	3,920	1,700	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
tert-Butylbenzene	34.3	2,730	326	390	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Tetrachloroethene	0.147	11.8	1.02	0.48	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Toluene	31.6	6,210	1,720	520	0.00035 J B	0.00039 J B	0.0002 J B	< 0.0061	< 0.0057	0.00025 J B	< 0.0057	0.00022 J B	< 0.0061
trans-1,2-Dichloroethene	1.28	1,370	8.62	69	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Trichloroethene	0.149	477	5.04	0.953	< 0.0062	< 0.0063	< 0.0057	< 0.0061	< 0.0057	< 0.0071	< 0.0057	< 0.0056	< 0.0061
Trichlorofluoromethane	29.6	19,300	22.6	390	0.0028 J B	0.0014 J B	0.0012 J B	0.0011 J B	0.00093 J B	0.0011 J B	0.00093 J B	0.0011 J B	0.00033 J B
Vinyl chloride ²	0.0209	4.6	0.11	0.079	< 0.012	< 0.013	< 0.011	< 0.012	< 0.011	< 0.014	< 0.011	< 0.011	< 0.012

- NOTES:
- All results obtained using U.S. EPA SW-846 Method 8260 for volatile organic chemicals.
 - All concentrations reported in mg/kg (parts per million).
 - < = sample not detected at concentration above method detection limit (MDL).
 - J = Estimated result. Result is less than the reporting limit (RL).
 - B = The associated method blank contains analyte at a level above the MDL.
 - FB = Compound detected in associated field (rinsate) blank.
 - * = Result is below both the RL and MDL; MDL is greater than MRBCA level.
 - Concentrations in **black bold** font represent an exceedance of MRBCA Table B-11 Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway.
 - Concentrations in **red bold** font represent an exceedance of MRBCA Table B-4 Tier 1 Residential Land Use, Surface Soil or Subsurface Soil.
 - 1 = A specific isomer target level is not available; total xylene target level utilized.

TABLE 3
Soil Analytical Results-VOCs
Proposed Strecker Forest Development
Wildwood, Missouri
Mundell Project No. M08044

Sample Location (Depth) Sample Collection Date	Table B-11 MRBCA Tier 1 RISC Based Target Levels Soil Concentrations Protective of Domestic Use of Groundwater Pathway - Soil Type 3 (Clayey)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Surface Soil (Ingestion, Inhalation (Vapor Emissions and Particulates) and Dermal Contact)	Table B-4 MRBCA Tier 1 Risk- Based Target Levels Residential Land Use Subsurface Soil Indoor Inhalation of Vapor Emissions	US EPA 2004 Region 9 Preliminary Remediation Goals (PRG) (Residential Soil)	B-17 (4.0-5.0') 10/16/2009	B-18 (7.5-9.5') 11/5/2009	B-19 (1.0-2.0') 10/16/2009	B-20 (6.0-7.0') 10/16/2009	B-21 (0.0-1.0') 10/16/2009	B-22 (5.0-7.0') 11/13/2009	B-23 (0.0-1.0') 10/16/2009	B-24 (1.0-2.0') 10/15/2009	B-25 (0.5-1.5') 10/15/2009
Chemical Constituent													
1,1,1,2-Tetrachloroethane	0.0823	233	3.38	3.2	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1,1-Trichloroethane	4.51	20,600	237	1,200	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1,2,2-Tetrachloroethane	0.012	30.2	3.35	0.41	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1,2-Trichloroethane	0.0554	106	2.67	0.73	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1-Dichloroethane	0.227	1,060	3.77	510	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1-Dichloroethene	0.114	3,470	8.90	120	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,1-Dichloropropene	-	-	-	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2,3-Trichlorobenzene	-	-	-	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2,3-Trichloropropane	0.00077	3.03	0.219	-	< 0.0058 (<0.0017)*	< 0.0062 (<0.0019)*	< 0.0058 (<0.0018)*	< 0.0056 (<0.0017)*	< 0.0058 (<0.0017)*	< 0.0057 (<0.0017)*	< 0.0054 (<0.0016)*	< 0.0062 (<0.0019)*	< 0.0063 (<0.0019)*
1,2,4-Trichlorobenzene	18.8	320	141	62	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2,4-Trimethylbenzene	3.94	749	46.4	52	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2-Dibromo-3-chloropropane	0.00153	3.18	41.5	0.46	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
1,2-Dibromoethane	-	-	-	0.032	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2-Dichlorobenzene	57.4	5,730	931	600	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2-Dichloroethane	-	-	-	0.28	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,2-Dichloropropane	0.0521	75.5	1.22	0.34	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,3,5-Trimethylbenzene	0.894	749	7.41	21	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,3-Dichlorobenzene	8.58	2,050	492	530	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,3-Dichloropropane	-	-	-	100	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
1,4-Dichlorobenzene	7.18	966	25	3.4	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
2,2-Dichloropropane	-	-	-	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
2-Chlorotoluene	4.0	1,370	126	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
4-Chlorotoluene	0.0241	39.2	0.589	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Benzene	0.0655	177	1.43	0.64	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Bromobenzene	-	-	-	28	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Bromochloromethane	0.42	2230	28.4	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Bromodichloromethane	0.953	92.4	1.85	0.82	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Bromoform	1.32	602	507	62	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Bromomethane	0.0271	95.9	0.401	3.9	< 0.012	< 0.012	< 0.012	0.002 J B	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
Carbon tetrachloride	0.171	48.1	0.264	0.25	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Chlorobenzene	2.05	1,340	51.7	150	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Chlorodibromomethane	1.04	55.2	8.52	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Chloroethane	0.36	2,090	2.24	3.0	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
Chloroform	0.798	180	0.31	0.22	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Chloromethane	0.227	479	0.722	47	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
cis-1,2-dichloroethane	0.658	683	7.01	43	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Dibromomethane	-	-	-	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Dichlorodifluoromethane	6.1	10,400	4.43	-	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
Ethylbenzene	41.1	7,450	646	400	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Hexachlorobutadiene	16.0	16.5	118	6.2	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Isopropylbenzene	27.9	6,940	33.2	570.0	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Methylene chloride	0.0278	842	14.7	9.1	0.0021 J B	0.0018 J B	0.0018 J B	0.002 J B	0.0019 J B	0.0017 J B	0.0017 J B	0.0023 J B	0.0024 J B
m-Xylene & p-Xylene ¹	652	7,830	82.5	270	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013
Naphthalene	0.327	36.3	84.5	56.0	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
n-Butylbenzene	41.8	2,730	384	240	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
n-Propylbenzene	13.2	2,730	131	240	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
o-Xylene ¹	652	7,830	82.5	270	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
p-Isopropyltoluene	272	20,500	3,580	-	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
sec-Butylbenzene	35.4	2,730	213	220	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Styrene	11.9	14,200	3,920	1,700	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
tert-Butylbenzene	34.3	2,730	326	390	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Tetrachloroethene	0.147	11.8	1.02	0.48	< 0.0058	< 0.0062	< 0.0058	0.00024 J B	< 0.0058	< 0.0057	< 0.0054	0.00035 J B	0.00038 J B
Toluene	31.6	6,210	1,720	520	0.0019 J B	0.0004 J B	< 0.0058	0.00018 J B	< 0.0058	0.00026 J B FB	< 0.0054	0.00027 J B	0.00027 J B
trans-1,2-Dichloroethane	1.28	1,370	8.62	69	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Trichloroethene	0.149	477	5.04	0.053	< 0.0058	< 0.0062	< 0.0058	< 0.0056	< 0.0058	< 0.0057	< 0.0054	< 0.0062	< 0.0063
Trichlorofluoromethane	29.6	19,300	22.6	390	0.0014 J B	0.0026 J B	0.001 J B	0.0016 J B	0.00072 J B	0.0013 J B	0.0019 J B	0.0011 J B	0.0013 J B
Vinyl chloride ²	0.0209	4.6	0.11	0.079	< 0.012	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.013

- NOTES:
- 1) All results obtained using U.S. EPA SW-846 Method 8260 for volatile organic chemicals.
 - 2) All concentrations reported in mg/kg (parts per million).
 - 3) < = sample not detected at concentration above method detection limit (MDL).
 - 4) J = Estimated result. Result is less than the reporting limit (RL).
 - 5) B = The associated method blank contains analyte at a level above the MDL.
 - 6) FB = Compound detected in associated field (rinsate) blank.
 - 7) * = Result is below both the RL and MDL; MDL is greater than MRBCA level.
 - 8) Concentrations in **black bold** font represent an exceedance of MRBCA Table B-11 Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway.
 - 9) Concentrations in **red bold** font represent an exceedance of MRBCA Table B-4 Tier 1 Residential Land Use, Surface Soil or Subsurface Soil.
 - 10) 1 = A specific isomer target level is not available; total xylene target level utilized.

TABLE 3
Soil Analytical Results-VOCs
Proposed Strecker Forest Development
Wildwood, Missouri
Mundell Project No. M08044

Sample Location (Depth) Sample Collection Date	Table B-11 MRBCA Tier 1 RISC Based Target Levels Soil Concentrations Protective of Domestic Use of Groundwater Pathway - Soil Type 3 (Clayey)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Surface Soil (Ingestion, Inhalation (Vapor Emissions and Particulates) and Dermal Contact)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Subsurface Soil (Indoor Inhalation of Vapor Emissions)	US EPA 2004 Region 9 Preliminary Remediation Goals (PRG) (Residential Soil)	B-26 (8.0-10.0')	B-27 (0.5-2.5')	B-28 (0.5-1.5')	B-29 (0.5-2.0')	B-30 (0.0-1.0')	B-31 (0.5-2.5')	B-32 (11.0-14.0')	B-33 (4.0-8.0')	DUP-3 B-33 (4.0-8.0')	B-34 (2.0-4.2')
Chemical Constituent					11/5/2009	11/5/2009	10/16/2009	10/16/2009	10/16/2009	11/13/2009	11/5/2009	11/13/2009	11/13/2009	11/13/2009
1,1,1,2-Tetrachloroethane	0.0823	233	3.38	3.2	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1,1-Trichloroethane	4.51	20,600	237	1,200	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1,2,2-Tetrachloroethane	0.012	30.2	3.35	0.41	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1,2-Trichloroethane	0.0554	106	2.67	0.73	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1-Dichloroethane	0.227	1,060	3.77	510	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1-Dichloroethene	0.114	3,470	8.90	120	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,1-Dichloropropene	-	-	-	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2,3-Trichlorobenzene	-	-	-	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2,3-Trichloropropane	0.00077	3.03	0.219	-	< 0.0057 (<0.0017)*	< 0.0059 (<0.0018)*	< 0.0062 (<0.0019)*	< 0.0061 (<0.0018)*	< 0.0063 (<0.0019)*	< 0.0059 (<0.0018)*	< 0.0057 (<0.0017)*	< 0.0067 (<0.002)*	< 0.006	< 0.0058 (<0.0017)*
1,2,4-Trichlorobenzene	18.8	320	141	62	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2,4-Trimethylbenzene	3.94	749	46.4	52	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2-Dibromo-3-chloropropane	0.00153	3.18	41.5	0.46	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
1,2-Dibromoethane	-	-	-	0.032	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2-Dichlorobenzene	57.4	5,730	931	600	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2-Dichloroethane	-	-	-	0.28	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,2-Dichloropropane	0.0521	75.5	1.22	0.34	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,3,5-Trimethylbenzene	0.894	749	7.41	21	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,3-Dichlorobenzene	8.58	2,050	492	530	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,3-Dichloropropane	-	-	-	100	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
1,4-Dichlorobenzene	7.18	966	25	3.4	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
2,2-Dichloropropane	-	-	-	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
2-Chlorotoluene	4.0	1,370	126	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
4-Chlorotoluene	0.0241	39.2	0.589	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Benzene	0.0655	177	1.43	0.64	0.0003 J	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	0.00028 J	< 0.0067	< 0.006	< 0.0058
Bromobenzene	-	-	-	28	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Bromochloromethane	0.42	2230	28.4	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Bromodichloromethane	0.953	92.4	1.85	0.82	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Bromoform	1.32	602	507	62	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Bromomethane	0.0271	95.9	0.401	3.9	< 0.011	< 0.012	< 0.012	0.0022 J B	< 0.013	< 0.012	0.002 J B	< 0.013	< 0.012	< 0.012
Carbon tetrachloride	0.171	48.1	0.264	0.25	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Chlorobenzene	2.05	1,340	51.7	150	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Chlorodibromomethane	1.04	55.2	8.52	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Chloroethane	0.36	2,090	2.24	3.0	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Chloroform	0.798	180	0.31	0.22	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Chloromethane	0.227	479	0.722	47	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
cis-1,2-dichloroethene	0.658	683	7.01	43	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Dibromomethane	-	-	-	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Dichlorodifluoromethane	6.1	10,400	4.43	-	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Ethylbenzene	41.1	7,450	646	400	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	0.0003 J	< 0.006	< 0.0058
Hexachlorobutadiene	16.0	16.5	118	6.2	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Isopropylbenzene	27.9	6,940	33.2	570.0	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Methylene chloride	0.0278	842	14.7	9.1	0.0023 J B	0.0016 J B	0.0023 J B	0.0019 J B	0.0023 J B	0.0016 J B	0.0016 J B	0.0016 J B	0.0013 J B	0.0015 J B
m-Xylene & p-Xylene ¹	652	7,830	82.5	270	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012
Naphthalene	0.327	36.3	84.5	56.0	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	0.0025 J	< 0.006	< 0.0058
n-Butylbenzene	41.8	2,730	384	240	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
n-Propylbenzene	13.2	2,730	131	240	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
o-Xylene ¹	652	7,830	82.5	270	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
p-Isopropyltoluene	272	20,500	3,580	-	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
sec-Butylbenzene	35.4	2,730	213	220	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	0.00064 J	< 0.0058
Styrene	11.9	14,200	3,920	1,700	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
tert-Butylbenzene	34.3	2,730	326	390	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Tetrachloroethene	0.147	11.8	1.02	0.48	< 0.0057	< 0.0059	< 0.0062	0.00028 J B	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Toluene	31.6	6,210	1,720	520	0.0007 J B	0.00044 J B	< 0.0062	0.00021 J B	< 0.0063	< 0.0059	0.00034 J B	0.00027 J B FB	< 0.006	< 0.0058
trans-1,2-Dichloroethene	1.28	1,370	8.62	69	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Trichloroethene	0.149	477	5.04	0.053	< 0.0057	< 0.0059	< 0.0062	< 0.0061	< 0.0063	< 0.0059	< 0.0057	< 0.0067	< 0.006	< 0.0058
Trichlorofluoromethane	29.6	19,300	22.6	390	0.0037 J B	0.0045 J B	0.00073 J B	0.0013 J B	0.0018 J B	0.0011 J B	0.00038 J B	0.0015 J B	0.0016 J B	0.0012 J B
Vinyl chloride ²	0.0209	4.6	0.11	0.079	< 0.011	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012	< 0.011	< 0.013	< 0.012	< 0.012

- NOTES:
- 1) All results obtained using U.S. EPA SW-

TABLE 3
Soil Analytical Results-VOCs
Proposed Strecker Forest Development
Wildwood, Missouri
Mundell Project No. M08044

Sample Location (Depth) Sample Collection Date	Table B-11 MRBCA Tier 1 RISC Based Target Levels Soil Concentrations Protective of Domestic Use of Groundwater Pathway - Soil Type 3 (Clayey)	Table B-4 MRBCA Tier 1 Risk-Based Target Levels Residential Land Use Surface Soil (Ingestion, Inhalation (Vapor Emissions and Particulates) and Dermal Contact)	Table B-4 MRBCA Tier 1 Risk- Based Target Levels Residential Land Use Subsurface Soil Indoor Inhalation of Vapor Emissions	US EPA 2004 Region 9 Preliminary Remediation Goals (PRG) (Residential Soil)	B-35 (1.0-5.0') 11/13/2009	MW-01 (1.0-2.0') 10/15/2009	MW-02 (1.0-2.0') 10/15/2009	MW-03 (4.0-5.0') 11/3/2009	MW-04 (21.0-25.0') 10/19/2009	MW-05 (12.0-14.0') 11/5/2009	MW-06 (7.0-10.0') 11/13/2009	DUP-4 MW-06 (7.0-10.0') 11/13/2009	MW-07 (2.0-3.0') 11/3/2009
Chemical Constituent													
1,1,1,2-Tetrachloroethane	0.0823	233	3.38	3.2	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1,1-Trichloroethane	4.51	20,600	237	1,200	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1,2,2-Tetrachloroethane	0.012	30.2	3.35	0.41	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1,2-Trichloroethane	0.0554	106	2.67	0.73	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1-Dichloroethane	0.227	1,060	3.77	510	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1-Dichloroethene	0.114	3,470	8.90	120	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,1-Dichloropropene	-	-	-	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,2,3-Trichlorobenzene	-	-	-	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,2,3-Trichloropropane	0.00077	3.03	0.219	-	< 0.0062 (<0.0018)*	< 0.0063 (<0.0019)*	< 0.0063 (<0.0019)*	< 0.0054 (<0.0016)*	< 0.0059 (<0.0018)*	< 0.008 (<0.0024)*	< 0.4 (<0.087)*	< 2.9	< 0.008 (<0.0024)*
1,2,4-Trichlorobenzene	18.8	320	141	62	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	0.16 J	< 2.9	< 0.008
1,2,4-Trimethylbenzene	3.94	749	46.4	52	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	9.2	58	< 0.008
1,2-Dibromo-3-chloropropane	0.00153	3.18	41.5	0.46	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	< 0.81	< 5.8	< 0.016
1,2-Dibromoethane	-	-	-	0.032	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,2-Dichlorobenzene	57.4	5,730	931	600	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	0.12 J	< 2.9	< 0.008
1,2-Dichloroethane	-	-	-	0.28	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,2-Dichloropropane	0.0521	75.5	1.22	0.34	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,3,5-Trimethylbenzene	0.894	749	7.41	21	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	0.95	14	< 0.008
1,3-Dichlorobenzene	8.58	2,050	492	530	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,3-Dichloropropane	-	-	-	100	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
1,4-Dichlorobenzene	7.18	966	25	3.4	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
2,2-Dichloropropane	-	-	-	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
2-Chlorotoluene	4.0	1,370	126	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
4-Chlorotoluene	0.0241	39.2	0.589	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Benzene	0.0655	177	1.43	0.64	< 0.0062	< 0.0063	< 0.0063	< 0.0054	0.00018 J B	0.00032 J	< 0.4	< 2.9	< 0.008
Bromobenzene	-	-	-	28	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Bromochloromethane	0.42	2230	28.4	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Bromodichloromethane	0.953	92.4	1.85	0.82	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Bromoform	1.32	602	507	62	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Bromomethane	0.0271	95.9	0.401	3.9	< 0.012	< 0.013	< 0.013	0.002 J B	< 0.012	< 0.016	< 0.81	< 5.8	< 0.016
Carbon tetrachloride	0.171	48.1	0.264	0.25	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Chlorobenzene	2.05	1,340	51.7	150	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Chlorodibromomethane	1.04	55.2	8.52	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Chloroethane	0.36	2,090	2.24	3.0	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	< 0.81	< 5.8	< 0.016
Chloroform	0.798	180	0.31	0.22	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Chloromethane	0.227	479	0.722	47	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	< 0.81	< 5.8	< 0.016
cis-1,2-dichloroethene	0.658	683	7.01	43	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Dibromomethane	-	-	-	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Dichlorodifluoromethane	6.1	10,400	4.43	-	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	< 0.81	< 5.8	< 0.016
Ethylbenzene	41.1	7,450	646	400	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	7	44	< 0.008
Hexachlorobutadiene	16.0	16.5	118	6.2	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Isopropylbenzene	27.9	6,940	33.2	570.0	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	0.58	3.3	< 0.008
Methylene chloride	0.0278	842	14.7	9.1	0.0014 J B	0.002 J B	0.0021 J B	0.0012 J B	0.0027 J B	0.0027 J B	0.15 J	1 J	0.0021 J B
m-Xylene & p-Xylene ¹	652	7,830	82.5	270	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	12 FB	170	< 0.016
Naphthalene	0.327	36.3	84.5	56.0	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	14	71	< 0.008
n-Butylbenzene	41.8	2,730	384	240	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	2.9	29	< 0.008
n-Propylbenzene	13.2	2,730	131	240	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	1	6.6	< 0.008
o-Xylene ¹	652	7,830	82.5	270	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	1.1	28	< 0.008
p-Isopropyltoluene	272	20,500	3,580	-	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	1.4 J	< 0.008
sec-Butylbenzene	35.4	2,730	213	220	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	0.22 J	1.7 J	< 0.008
Styrene	11.9	14,200	3,920	1,700	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
tert-Butylbenzene	34.3	2,730	326	390	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Tetrachloroethene	0.147	11.8	1.02	0.48	< 0.0062	0.00041 J B	0.00029 J B	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Toluene	31.6	6,210	1,720	520	0.00023 J B FB	0.00023 J B	0.00026 J B	0.00031 J B	0.00057 J B	0.00055 J B	0.24 J FB	9	0.00037 J B
trans-1,2-Dichloroethene	1.28	1,370	8.62	69	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Trichloroethene	0.149	477	5.04	0.053	< 0.0062	< 0.0063	< 0.0063	< 0.0054	< 0.0059	< 0.008	< 0.4	< 2.9	< 0.008
Trichlorofluoromethane	29.6	19,300	22.6	390	0.0021 J B	0.00086 J B	0.0012 J B	0.0014 J B	0.0012 J B	0.00049 J B	< 0.81	< 5.8	0.0021 J B
Vinyl chloride ²	0.0209	4.6	0.11	0.079	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.016	< 0.81 (<0.047)*	< 5.8	< 0.016

- NOTES:
- 1) All results obtained using U.S. EPA SW-846 Method 8260 for volatile organic chemicals.
 - 2) All concentrations reported in mg/kg (parts per million).
 - 3) < = sample not detected at concentration above method detection limit (MDL).
 - 4) J = Estimated result. Result is less than the reporting limit (RL).
 - 5) B = The associated method blank contains analyte at a level above the MDL.
 - 6) FB = Compound detected in associated field (rinsate) blank.
 - 7) * = Result is below both the RL and MDL; MDL is greater than MRBCA level.
 - 8) Concentrations in **black bold** font represent an exceedance of MRBCA Table B-11 Tier 1 Soil Concentrations Protective of Domestic Use of Groundwater Pathway.
 - 9) Concentrations in **red bold** font represent an exceedance of MRBCA Table B-4 Tier 1 Residential Land Use, Surface Soil or Subsurface Soil.
 - 10) 1 = A specific isomer target level is not available; total xylene target level utilized.