

**Table 1**  
**Soil Analytical Results**  
**Holasek Property**  
**Medina, Minnesota**  
**BL-10-06413**

Compound/Parameter	Sample Identifier															Residential Soil Reference Value (mg/kg)	Industrial Soil Reference Value (mg/kg)	Tier I Soil Leaching Value (mg/kg)		
	PP-1 (0-2.5) 05/21/2010	ST-2 (4-6) 05/20/2010	ST-2 (12.5) 05/20/2010	PP-3 (0-2.5) 05/21/2010	PP-4 (0-2.5) 05/21/2010	PP-5 (0-2.5) 05/21/2010	PP-6 (0-2.5) 05/21/2010	ST-7 (2-4) 05/20/2010	PP-8 (0-2.5) 05/21/2010	PP-9 (2.5-4) 05/21/2010	PP-10 (0-2.5) 05/21/2010	ST-11 (2-4) 05/20/2010	PP-12 (2.5-5) 05/21/2010	ST-13 (2-4) 05/20/2010	PP-14 (0-2.5) 05/21/2010				TP-1 05/21/2010	
<b>Volatile Organic Compounds(mg/kg wet)</b>																				
1,2,4-Trimethylbenzene	<(0.15)	45 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	8	25	NE	
1,3,5-Trimethylbenzene	<(0.15)	15 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	3	10	NE	
Ethylbenzene	<(0.060)	15 <sup>[8]</sup>	<(0.062)	<(0.061)	<(0.071)	<(0.063)	<(0.059)	<(0.061)	<(0.058)	<(0.062)	<(0.058)	<(0.060)	<(0.060)	<(0.062)	<(0.065)	<(0.066)	200	200	4.7	
Isopropylbenzene	<(0.15)	1.8 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	30	87	18	
m,p-Xylenes	<(0.060)	39 <sup>[8]</sup>	<(0.062)	<(0.061)	<(0.071)	<(0.063)	<(0.059)	<(0.061)	<(0.058)	<(0.062)	<(0.058)	<(0.060)	<(0.060)	<(0.062)	<(0.065)	<(0.066)	45	130	45	
n-Butylbenzene	<(0.15)	4 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	30	92	NE	
n-Propylbenzene	<(0.15)	7.6 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	30	93	NE	
Naphthalene	<(0.15)	7.6 <sup>[8]</sup>	<(0.15)	<(0.15)	<(0.18)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.15)	<(0.15)	<(0.15)	<(0.16)	<(0.16)	<(0.16)	10	28	7.5	
o-Xylene	<(0.060)	20 <sup>[8]</sup>	<(0.062)	<(0.061)	<(0.071)	<(0.063)	<(0.059)	<(0.061)	<(0.058)	<(0.062)	<(0.058)	<(0.060)	<(0.060)	<(0.062)	<(0.065)	<(0.066)	45	130	45	
Toluene	<(0.060)	9.8 <sup>[8]</sup>	<(0.062)	<(0.061)	<(0.071)	<(0.063)	<(0.059)	<(0.061)	<(0.058)	<(0.062)	<(0.058)	<(0.060)	<(0.060)	<(0.062)	<(0.065)	<(0.066)	107	305	6.4	
All Other Reported VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	
<b>Metals(mg/kg dry)</b>																				
Arsenic, Total	-	-	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	4.3	9	20	15.1
Barium, Total	-	-	-	-	-	130	-	-	-	-	-	-	-	-	-	-	170	1100	18000	842
Cadmium, Total	-	-	-	-	-	<(0.57)	-	-	-	-	-	-	-	-	-	-	0.71	25	200	4.4
Chromium, Total	-	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	11	87*	650*	18*
Lead, Total	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	38	300	700	525
Mercury, Total	-	-	-	-	-	0.029	-	-	-	-	-	-	-	-	-	-	0.042	0.5	1.5	1.6
Selenium, Total	-	-	-	-	-	<(1.1)	-	-	-	-	-	-	-	-	-	-	<(1.2)	160	1300	1.5
Silver, Total	-	-	-	-	-	<(0.57)	-	-	-	-	-	-	-	-	-	-	<(0.60)	160	1300	3.9
<b>Total Petroleum Hydrocarbons(mg/kg dry)</b>																				
Diesel Range Organics (DRO)	<(10) <sup>[5]</sup>	<(10) <sup>[4]</sup>	<(9.7)	<(9.5) <sup>[5]</sup>	<(11) <sup>[5]</sup>	<(10) <sup>[5]</sup>	<(9.5)	<(9.7)	<(9.2) <sup>[5]</sup>	<(10)	<(9.2) <sup>[5]</sup>	<(9.8)	<(9.7)	<(10) <sup>[5]</sup>	<(11) <sup>[5]</sup>	45 <sup>[5]</sup>	NE	NE	NE	
Gasoline Range Organics (GRO)	<(12)	520 <sup>[3]</sup>	<(12)	<(12)	<(14)	<(13)	<(12)	<(12)	<(12)	<(12)	<(12)	<(12)	<(12)	<(12)	<(13)	<(13)	NE	NE	NE	
<b>Other Parameters</b>																				
Phosphorus, Total as P(mg/kg dry)	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NE	NE	NE	
Total Kjeldahl Nitrogen(mg/kg dry)	710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,000 <sup>a</sup>	NE	NE	

**Notes:**

- <sup>[3]</sup> The sample chromatogram indicates the presence of higher boiling hydrocarbons than expected in the gasoline range chromatogram.
- <sup>[4]</sup> The sample chromatogram indicates the presence of lower boiling hydrocarbons than expected in the diesel range chromatogram.
- <sup>[5]</sup> The sample chromatogram indicates the presence of higher boiling hydrocarbons than expected in the diesel range chromatogram.
- <sup>[8]</sup> The method reporting limit (MRL) was raised for one or more analytes; a dilution of the sample was necessary due to high analyte levels and/or matrix interferences.

mg/kg = Milligrams per kilogram.

< = Less than the reporting limit indicated in parentheses.

NE =Not Established

SRV - Soil Reference Value established by the Minnesota Pollution Control Agency; 1999, revised 2008

SLV - Soil Leaching Value established by the Minnesota Pollution Control Agency; 1999, revised 2005

\* = SRV or SLV for hexavalent chromium.

\*\* = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of carcinogenic PAHs (cPAH); Minnesota Pollution Control Agency, 2002.

\*\*\* = cPAH. Individual SRV or SLV not established. Included in BaP equivalent calculation.

<sup>a</sup> The Minnesota Department of Agriculture (MDA) soil cleanup goal for the upper 2 feet of soil in mg/kg.