



**INTERIOR WATER QUALITY RESULTS**  
**Moran Plant**  
**Burlington, Vermont**

<b>DBS-1 (LAKE WATER)</b>					
Sample Date		VGES	VWQS	5/20/2008	
<b>VOCs (EPA Method 8260B)</b>					
Tetrachloroethane (PCE)	ug/L (ppb)	5.0	0.8	1.0 U	
Trichloroethane (TCE)	ug/L (ppb)	5.0	2.7	1.0 U	
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L (ppb)	70.0	--	1.0 U	
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/L (ppb)	100.0	--	1.0 U	
Vinyl Chloride (VC)	ug/L (ppb)	2.0	2.0	1.0 U	
1,1-Dichloroethane (1,1-DCA)	ug/L (ppb)	70.0	--	1.0 U	
1,2-Dichloroethane (1,2-DCA)	ug/L (ppb)	5.0	0.38	1.0 U	
1,1,1-Trichloroethane (1,1,1-TCA)	ug/L (ppb)	200.0	--	1.0 U	
1,4-Dichlorobenzene (1,4-DCB)	ug/L (ppb)	75.0	400	1.0 U	
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (EPA Method 8270)</b>					
Acenaphthene	ug/L (ppb)	--	--	9.4 U	
Acenaphthylene	ug/L (ppb)	--	--	9.4 U	
Anthracene	ug/L (ppb)	2,100	9,600	9.4 U	
Benzo(a)anthracene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(b)fluoranthene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(k)fluoranthene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(a)pyrene	ug/L (ppb)	0.2	0.0028	9.4 U	
Benzo(g,h,i)perylene	ug/L (ppb)	--	--	9.4 U	
Chrysene	ug/L (ppb)	--	0.0028	9.4 U	
Dibenzo(a,h)anthracene	ug/L (ppb)	--	0.0028	9.4 U	
Fluoranthene	ug/L (ppb)	280	300	9.4 U	
Fluorene	ug/L (ppb)	280	1300	9.4 U	
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	--	0.0028	9.4 U	
2-Methylnaphthalene	ug/L (ppb)		--	9.4 U	
Naphthalene	ug/L (ppb)	20	--	9.4 U	
Phenanthrene	ug/L (ppb)	--	--	9.4 U	
Pyrene	ug/L (ppb)	--	960	9.4 U	
<b>POLYCHLORINATED BIPHENYLS (PCBs) (EPA Method 8082)</b>					
Arochlor-1016	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1221	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1232	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1242	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1248	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1254	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1260	ug/L (ppb)	0.5	0.000044	0.47 U	
<b>RCRA METALS (EPA Methods 6010B)</b>					
Total Arsenic	ug/L (ppb)	10.0	0.02	1.1 U	
Total Barium	ug/L (ppb)	2000.0	--	9.7 J	
Total Cadmium	ug/L (ppb)	5.0	--	0.14 U	
Total Chromium	ug/L (ppb)	100.0	--	0.55 J	
Total Lead	ug/L (ppb)	15.0	--	3.7 J	
Total Selenium	ug/L (ppb)	50.0	--	1.9 U	
Total Silver	ug/L (ppb)	--	--	0.37 U	



**INTERIOR WATER QUALITY RESULTS**  
**Moran Plant**  
**Burlington, Vermont**

<b>DBS-2</b>					
Sample Date		VGES	VWQS	5/20/2008	
<b>VOCs (EPA Method 8260B)</b>					
Tetrachloroethane (PCE)	ug/L (ppb)	5.0	0.8	1.0 U	
Trichloroethane (TCE)	ug/L (ppb)	5.0	2.7	1.0 U	
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L (ppb)	70.0	--	1.0 U	
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/L (ppb)	100.0	--	1.0 U	
Vinyl Chloride (VC)	ug/L (ppb)	2.0	2.0	1.0 U	
1,1-Dichloroethane (1,1-DCA)	ug/L (ppb)	70.0	--	1.0 U	
1,2-Dichloroethane (1,2-DCA)	ug/L (ppb)	5.0	0.38	1.0 U	
1,1,1-Trichloroethane (1,1,1-TCA)	ug/L (ppb)	200.0	--	1.0 U	
1,4-Dichlorobenzene (1,4-DCB)	ug/L (ppb)	75.0	400	1.0 U	
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (EPA Method 8270)</b>					
Acenaphthene	ug/L (ppb)	--	--	2.6 J	
Acenaphthylene	ug/L (ppb)	--	--	9.4 U	
Anthracene	ug/L (ppb)	2,100	9,600	7.8 J	
Benzo(a)anthracene	ug/L (ppb)	--	0.0028	16	
Benzo(b)fluoranthene	ug/L (ppb)	--	0.0028	13	
Benzo(k)fluoranthene	ug/L (ppb)	--	0.0028	15	
Benzo(a)pyrene	ug/L (ppb)	0.2	0.0028	14	
Benzo(g,h,i)perylene	ug/L (ppb)	--	--	4.0 J	
Chrysene	ug/L (ppb)	--	0.0028	19	
Dibenzo(a,h)anthracene	ug/L (ppb)	--	0.0028	1.2 J	
Fluoranthene	ug/L (ppb)	280	300	41	
Fluorene	ug/L (ppb)	280	1300	2.7 J	
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	--	0.0028	4.1 J	
2-Methylnaphthalene	ug/L (ppb)	--	--	1.1 J	
Naphthalene	ug/L (ppb)	20	--	1.1 J	
Phenanthrene	ug/L (ppb)	--	--	31	
Pyrene	ug/L (ppb)	--	960	33	
<b>POLYCHLORINATED BIPHENYLS (PCBs) (EPA Method 8082)</b>					
Arochlor-1016	ug/L (ppb)	0.5	0.000044	0.53 U	
Arochlor-1221	ug/L (ppb)	0.5	0.000044	0.53 U	
Arochlor-1232	ug/L (ppb)	0.5	0.000044	0.53 U	
Arochlor-1242	ug/L (ppb)	0.5	0.000044	0.53 U	
Arochlor-1248	ug/L (ppb)	0.5	0.000044	0.53 U	
Arochlor-1254	ug/L (ppb)	0.5	0.000044	0.54	
Arochlor-1260	ug/L (ppb)	0.5	0.000044	0.53 U	
<b>RCRA METALS (EPA Methods 6010B)</b>					
Total Arsenic	ug/L (ppb)	10.0	0.02	77.0	
Total Barium	ug/L (ppb)	2000.0	--	146 J	
Total Cadmium	ug/L (ppb)	5.0	--	10.2	
Total Chromium	ug/L (ppb)	100.0	--	23.4	
Total Lead	ug/L (ppb)	15.0	--	3,480	
Total Selenium	ug/L (ppb)	50.0	--	4.3 J	
Total Silver	ug/L (ppb)	--	--	0.37 U	



**INTERIOR WATER QUALITY RESULTS**  
**Moran Plant**  
**Burlington, Vermont**

<b>DBS-3</b>					
Sample Date		VGES	VWQS	5/20/2008	
<b>VOCs (EPA Method 8260B)</b>					
Tetrachloroethane (PCE)	ug/L (ppb)	5.0	0.8	1.0 U	
Trichloroethane (TCE)	ug/L (ppb)	5.0	2.7	1.0 U	
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L (ppb)	70.0	--	1.0 U	
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/L (ppb)	100.0	--	1.0 U	
Vinyl Chloride (VC)	ug/L (ppb)	2.0	2.0	1.0 U	
1,1-Dichloroethane (1,1-DCA)	ug/L (ppb)	70.0	--	1.0 U	
1,2-Dichloroethane (1,2-DCA)	ug/L (ppb)	5.0	0.38	1.0 U	
1,1,1-Trichloroethane (1,1,1-TCA)	ug/L (ppb)	200.0	--	<b>0.27 J</b>	
1,4-Dichlorobenzene (1,4-DCB)	ug/L (ppb)	75.0	400	1.0 U	
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (EPA Method 8270)</b>					
Acenaphthene	ug/L (ppb)	--	--	9.4 U	
Acenaphthylene	ug/L (ppb)	--	--	9.4 U	
Anthracene	ug/L (ppb)	2,100	9,600	9.4 U	
Benzo(a)anthracene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(b)fluoranthene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(k)fluoranthene	ug/L (ppb)	--	0.0028	9.4 U	
Benzo(a)pyrene	ug/L (ppb)	0.2	0.0028	9.4 U	
Benzo(g,h,i)perylene	ug/L (ppb)	--	--	9.4 U	
Chrysene	ug/L (ppb)	--	0.0028	9.4 U	
Dibenzo(a,h)anthracene	ug/L (ppb)	--	0.0028	9.4 U	
Fluoranthene	ug/L (ppb)	280	300	9.4 U	
Fluorene	ug/L (ppb)	280	1300	9.4 U	
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	--	0.0028	9.4 U	
2-Methylnaphthalene	ug/L (ppb)	--	--	9.4 U	
Naphthalene	ug/L (ppb)	20	--	9.4 U	
Phenanthrene	ug/L (ppb)	--	--	9.4 U	
Pyrene	ug/L (ppb)	--	960	9.4 U	
<b>POLYCHLORINATED BIPHENYLS (PCBs) (EPA Method 8082)</b>					
Arochlor-1016	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1221	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1232	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1242	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1248	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1254	ug/L (ppb)	0.5	0.000044	0.47 U	
Arochlor-1260	ug/L (ppb)	0.5	0.000044	0.47 U	
<b>RCRA METALS</b>					
Total Arsenic	ug/L (ppb)	10.0	0.02	<b>9.9 J</b>	
Total Barium	ug/L (ppb)	2,000.0	--	<b>32.9 J</b>	
Total Cadmium	ug/L (ppb)	5.0	--	<b>1.6 J</b>	
Total Chromium	ug/L (ppb)	100.0	--	<b>2.4 J</b>	
Total Lead	ug/L (ppb)	15.0	--	<b>760</b>	
Total Selenium	ug/L (ppb)	50.0	--	<b>2.6 J</b>	
Total Silver	ug/L (ppb)	--	--	0.37 U	

**NOTES**

ug/Kg = microgram per kilogram; mg/Kg = milligrams per kilogram; ppb = parts per billion; ppm = parts per million.

"U" = not detected above listed quantitation limit; "J" = reported concentration is an estimated value.

VGES = Vermont Groundwater Enforcement Standard (Table 1 of the Groundwater Protection Rule and Strategy 1/00)

VWQS = Vermont Water Quality Standards: Consumption of Water & Organisms (Appendix C, Vermont Water Quality Standards, effective July 2000.

VOC samples collected via passive diffusion bag samplers that were submerged in the water at each sampling location for 1 week prior to sampling. All other samples collected by bailer.

EPA Method 8260B compounds not shown indicate that they were not detected above respective quantitation limits.

Results reported above quantitation limits are indicated in bold.

Values greater than the standard are shaded.



**INTERIOR SEDIMENT QUALITY RESULTS**  
**Moran Plant**  
**Burlington, Vermont**

DRAFT ONLY

<b>SED-2</b>		EPA Region IX		
Sample Date	Units	PRG Industrial	5/20/2008	
<b>VOLATILE ORGANIC COMPOUNDS (EPA Method 8260)</b>				
Tetrachloroethane (PCE)	ug/Kg (ppb)	1,300	<b>4.0</b>	J
Trichloroethane (TCE)	ug/Kg (ppb)	110	11	U
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/Kg (ppb)	150,000	11	U
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/Kg (ppb)	230,000	11	U
Vinyl Chloride (VC)	ug/Kg (ppb)		11	U
1,1-Dichloroethane (1,1-DCA)	ug/Kg (ppb)	1,700,000	<b>7.1</b>	J
1,2-Dichloroethane (1,2-DCA)	ug/Kg (ppb)	600	11	U
1,1,1-Trichloroethane (1,1,1-TCA)	ug/Kg (ppb)	1,200,000	<b>11</b>	J
1,4-Dichlorobenzene (1,4-DCB)	ug/Kg (ppb)	7,900	<b>14</b>	B
2-Butanone (Methly Ethyl Ketone)	ug/Kg (ppb)	110,000,000	<b>94</b>	
Acetone	ug/Kg (ppb)	54,000,000	<b>680</b>	EB
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (EPA Method 8270)</b>				
Acenaphthene	ug/Kg (ppb)	29,000,000	<b>1,300</b>	J
Acenaphthylene	ug/Kg (ppb)	--	<b>190</b>	J
Anthracene	ug/Kg (ppb)	100,000,000	<b>3,200</b>	
Benzo(a)anthracene	ug/Kg (ppb)	2,100	<b>6,700</b>	
Benzo(b)fluoranthene	ug/Kg (ppb)	2,100	<b>7,100</b>	
Benzo(k)fluoranthene	ug/Kg (ppb)	21,000	<b>5,900</b>	
Benzo(a)pyrene	ug/Kg (ppb)	210	<b>5,700</b>	
Benzo(g,h,i)perylene	ug/Kg (ppb)	--	<b>890</b>	J
Chrysene	ug/Kg (ppb)	210,000	<b>7,600</b>	
Dibenzo(a,h)anthracene	ug/Kg (ppb)	210	<b>310</b>	J
Fluoranthene	ug/Kg (ppb)	22,000,000	<b>22,000</b>	
Fluorene	ug/Kg (ppb)	26,000,000	<b>1,100</b>	J
Indeno(1,2,3-cd)pyrene	ug/Kg (ppb)	2,100	<b>1,000</b>	J
2-Methylnaphthalene	ug/Kg (ppb)	--	<b>860</b>	J
Naphthalene	ug/Kg (ppb)	190,000	<b>700</b>	J
Phenanthrene	ug/Kg (ppb)	--	<b>13,000</b>	
Pyrene	ug/Kg (ppb)	29,000,000	<b>11,000</b>	
<b>PCBs (EPA METHOD 8082)</b>				
Arochlor-1016	ug/Kg (ppb)	21,000	120	U
Arochlor-1221	ug/Kg (ppb)	740	120	U
Arochlor-1232	ug/Kg (ppb)	740	120	U
Arochlor-1242	ug/Kg (ppb)	740	120	U
Arochlor-1248	ug/Kg (ppb)	740	120	U
Arochlor-1254	ug/Kg (ppb)	740	<b>580</b>	
Arochlor-1260	ug/Kg (ppb)	740	<b>360</b>	
<b>RCRA METALS</b>				
Total Arsenic	mg/Kg (ppm)	1.6	<b>136</b>	
Total Barium	mg/Kg (ppm)	67,000	<b>230</b>	
Total Cadmium	mg/Kg (ppm)	450	<b>9.4</b>	
Total Chromium	mg/Kg (ppm)	450	<b>89</b>	
Total Lead	mg/Kg (ppm)	800	<b>11,900</b>	
Total Selenium	mg/Kg (ppm)	5,100	<b>8.9</b>	
Total Silver	mg/Kg (ppm)	5,100	0.067	U



**INTERIOR SEDIMENT QUALITY RESULTS**  
**Moran Plant**  
**Burlington, Vermont**

DRAFT ONLY

<b>SED-3</b>		EPA Region IX PRG Residential		
Sample Date	Units		5/20/2008	
<b>VOLATILE ORGANIC COMPOUNDS (EPA Method 8260)</b>				
Tetrachloroethane (PCE)	ug/Kg (ppb)	1,300	8.5 U	
Trichloroethane (TCE)	ug/Kg (ppb)	110	8.5 U	
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/Kg (ppb)	150,000	8.5 U	
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/Kg (ppb)	230,000	8.5 U	
Vinyl Chloride (VC)	ug/Kg (ppb)		8.5 U	
1,1-Dichloroethane (1,1-DCA)	ug/Kg (ppb)	1,700,000	<b>2.5 J</b>	
1,2-Dichloroethane (1,2-DCA)	ug/Kg (ppb)	600	8.5 U	
1,1,1-Trichloroethane (1,1,1-TCA)	ug/Kg (ppb)	1,200,000	<b>4.6 J</b>	
1,4-Dichlorobenzene (1,4-DCB)	ug/Kg (ppb)	7,900	<b>3.0 JB</b>	
2-Butanone (Methly Ethyl Ketone)	ug/Kg (ppb)	110,000,000	<b>18</b>	
Acetone	ug/Kg (ppb)	54,000,000	<b>160 B</b>	
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (EPA Method 8270)</b>				
Acenaphthene	ug/Kg (ppb)	29,000,000	<b>45,000</b>	
Acenaphthylene	ug/Kg (ppb)	--	10,000 U	
Anthracene	ug/Kg (ppb)	100,000,000	<b>110,000</b>	
Benzo(a)anthracene	ug/Kg (ppb)	2,100	<b>140,000</b>	
Benzo(b)fluoranthene	ug/Kg (ppb)	2,100	<b>83,000 J</b>	
Benzo(k)fluoranthene	ug/Kg (ppb)	21,000	<b>100,000</b>	
Benzo(a)pyrene	ug/Kg (ppb)	210	<b>97,000</b>	
Benzo(g,h,i)perylene	ug/Kg (ppb)	--	<b>23,000</b>	
Chrysene	ug/Kg (ppb)	210,000	<b>130,000</b>	
Dibenzo(a,h)anthracene	ug/Kg (ppb)	210	<b>12,000</b>	
Fluoranthene	ug/Kg (ppb)	22,000,000	<b>380,000</b>	
Fluorene	ug/Kg (ppb)	26,000,000	<b>48,000</b>	
Indeno(1,2,3-cd)pyrene	ug/Kg (ppb)	2,100	<b>30,000</b>	
2-Methylnaphthalene	ug/Kg (ppb)	--	<b>9,400 J</b>	
Naphthalene	ug/Kg (ppb)	190,000	<b>16,000</b>	
Phenanthrene	ug/Kg (ppb)	--	<b>410,000</b>	
Pyrene	ug/Kg (ppb)	29,000,000	<b>310,000</b>	
<b>PCBs (EPA METHOD 8082)</b>				
Arochlor-1016	ug/Kg (ppb)	21,000	160 U	
Arochlor-1221	ug/Kg (ppb)	740	160 U	
Arochlor-1232	ug/Kg (ppb)	740	160 U	
Arochlor-1242	ug/Kg (ppb)	740	160 U	
Arochlor-1248	ug/Kg (ppb)	740	160 U	
Arochlor-1254	ug/Kg (ppb)	740	<b>1,100</b>	
Arochlor-1260	ug/Kg (ppb)	740	<b>520</b>	
<b>PRIORITY POLLUTANT METALS</b>				
Total Arsenic	mg/Kg (ppm)	1.6	<b>155</b>	
Total Barium	mg/Kg (ppm)	67,000	<b>252</b>	
Total Cadmium	mg/Kg (ppm)	450	<b>8.9</b>	
Total Chromium	mg/Kg (ppm)	450	<b>105</b>	
Total Lead	mg/Kg (ppm)	800	<b>10,300</b>	
Total Selenium	mg/Kg (ppm)	5,100	<b>8.6</b>	
Total Silver	mg/Kg (ppm)	5,100	0.083 U	

**NOTES**

ug/Kg = microgram per kilogram; mg/Kg = milligrams per kilogram; ppb = parts per billion; ppm = parts per million  
 "U" = not detected above listed quantitation limit; "J" = reported concentration is an estimated value;

"B" = compound detected in laboratory blank

EPA Region IX PRGs are Preliminary Remediation Goals for Industrial Soil (October 2004).

Results reported above quantitation limits are indicated in bold.

Values greater than the standard are shaded.