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# MICROSCOPIC PARTICULATE ANALYSIS REPORT SHEET (GUDI)

**CLIENT:**

**TELEPHONE:**

**FAX:**

**Date of Sample:**

**Sample Location:**

**Type:**

**Volume Filtered (L)** **Method?:**

**Temperature (°C)**

**pH:**

**Turbidity (NTU)**

The methodology used to generate this report conforms to the USEPA Consensus Method for the Microscopic Particulate Analysis or to the MPA-1623 modification. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under ISO/IEC 17025:2005.

**Sample Processing Information** **Process Date:** **Final Pellet Vol. (µL):**

**Date Received** **Time Received** **Customer #** **Temp. on Arrival (°C)** **Lab ID** **Density Medium** **Sediment**

**Total Wash (mL)** **Concentrated (mL)** **G/C Volume (µL)** **MPA Volume (µL)** **Suspension** **Equiv. Vol. (L)**

## *GIARDIA* and *CRYPTOSPORIDIUM* RESULTS

***Giardia* cysts/100 L:** ***Cryptosporidium* oocysts/100 L:**

## PARTICULATE ANALYSIS RESULTS

| Primary Particulates | Total Count | #/380 L (100 US gal.) | Relative Risk Factor |
|---|---|---|---|
| Diatoms: | | | |
| Other Algae: | | | |
| Insect/larvae: | | | |
| Rotifers: | | | |
| Plant Debris: | | | |

Relative Risk Factors: EH - extremely heavy
M - moderate H - heavy
R - Rare NS - not significant

| Secondary Particulates | Total Count | #/380 L (100 US gal.) |
|---|---|---|
| Pollen | | |
| Nematodes | | |
| Crustacea | | |
| Amoebae | | |
| Ciliates/flagellates | | |
| Other | | |
| Large Debris | | |
| Fine Debris | | |
| Minerals | | |

**CONCLUSION:** Based on this sample, the risk of surface water contamination is judged to be and the risk factor is

**Additional Data:**

**Analyst:**

Peter M. Wallis, Ph.D.

From the EPA Consensus Method:

Risk of Surface Water Contamination

| | |
|---|---|
| 20+ | - high risk |
| 10 to 19 | - moderate risk |
| 0 to 9 | - low risk |

Recovery efficiencies for particles are known to be low by the Consensus method. Minimum recovery was measured to be 6.5 +/-1.2% for *Giardia* cysts, 0.5 +/-0.2% for *Cryptosporidium* oocysts and 4.2 +/-2.3% for *Euglena* (algae). Recovery using the MPA-1623 Method is 47.4 +/- 4.3% for *Giardia*, 63.8 +/- 5.9% for *Cryptosporidium* and 19.5 +/- 5.6% for *Euglena*.



Note: These results pertain to this sample only.