

December, 3rd 2011

Dear Mr. Vernon

Please test these water samples for connectivity analysis. I am looking for specific conductions, sodium chloride, and a trace element such as arsenic. This test analysis is to support my science fair project to determine contamination levels, if any in groundwater near the Sand Hill Landfill, which is near my house. Please let me know if any levels are detected which exceed recreational Risk Based Concentrations (RBC's).

Enclosed are the water samples I have taken. They are W1, W2, W3, and W4. W1 is a sample taken nearest to the dump, and is in the small deer park bottle. W2 is in the H2O bottle and was taken in a small creek. W3 is in the Perrier bottle and is groundwater near my house. The last bottle, W4, is in the Gonzaga bottle and is from a sump well in my house.

Please email the results to [REDACTED]@verizon.net if that would be convenient. My mailing address is below.

Thank you very much for supporting me in my science fair project.

Sincerely,

Alex [REDACTED], grade 7

Water Sample 1: Puddle outside landfill back fence

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 1087 Jamison Road NW
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 www.spectrumanalytic.com

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Prepared For	Sample Information			
ALEX	Sample	W1	Sampled	12-06-2011
	Description	WATER	Tested	12-09-2011
	Sample Type	Irrigation Water		
	Lab Number	FF25076		

Certificate of Analysis

Analysis	Guarantee	Result	Method
pH		7	
Magnesium		1.1 ppm	
Calcium		26 ppm	
Iron		9.8 ppm	
Manganese		0.8 ppm	
Nitrate-N		0.5 ppm	
Sodium		1.6 ppm	
Chloride		0.3 ppm	
Sulfate-S		0.1 ppm	
EC		.19 mmho/cm	
Total Dissolved Solids		122 ppm	

Water Sample 2: Stream

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Sample Information			
Sample	W2	Sampled	12-06-2011
Description	WATER	Tested	12-09-2011
Sample Type	Irrigation Water		
Lab Number	FF25077		

Certificate of Analysis

Analysis	Guarantee	Result	Method
pH		5.8	
Magnesium		0.3 ppm	
Calcium		3.4 ppm	
Iron		1.1 ppm	
Manganese		0.1 ppm	
Nitrate-N		0.5 ppm	
Sodium		7.2 ppm	
Chloride		0.6 ppm	
Sulfate-S		< 0.01 ppm	
EC		.08 mmho/cm	
Total Dissolved Solids		51 ppm	

Water Sample 3: NW of my house

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Sample Information			
Sample	W3	Sampled	12-06-2011
Description	WATER	Tested	12-09-2011
Sample Type	Irrigation Water		
Lab Number	FF25078		

Certificate of Analysis

Analysis	Guarantee	Result	Method
pH		5.6	
Magnesium		0.3 ppm	
Calcium		4.4 ppm	
Iron		2.6 ppm	
Manganese		0.1 ppm	
Nitrate-N		0.1 ppm	
Sodium		11 ppm	
Chloride		0.6 ppm	
Sulfate-S		0.0 ppm	
EC		.1 mmho/cm	
Total Dissolved Solids		64 ppm	

Water Sample 4: Sump pump pit in my house

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Sample Information			
Sample	W4	Sampled	12-06-2011
Description	WATER	Tested	12-09-2011
Sample Type	Irrigation Water		
Lab Number	FF25079		

Certificate of Analysis

Analysis	Guarantee	Result	Method
pH		7.9	
Magnesium		0.3 ppm	
Calcium		48 ppm	
Iron		0.2 ppm	
Manganese		< 0.01 ppm	
Nitrate-N		0.5 ppm	
Sodium		2.4 ppm	
Chloride		0.1 ppm	
Sulfate-S		0.0 ppm	
EC		.24 mmho/cm	
Total Dissolved Solids		154 ppm	