

**EDL**  
Environmental Diagnostics Laboratory



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*Mechanical Division:*  
**U.S. ENERGY SERVICES**  
*St. Lic #CACO57992*

*Publisher of:*  
**THE IEQ REVIEW**

*Home of the:*  
**Indoor Air Quality  
Screen Test Kit  
(IAQ-STK)**



EMLAP #102795  
ISO/IEC 17025 Compliant



April 11, 2008

Jane Example  
Ms. Jane Example Residence  
Example Residence

Re: Work Authorization # **00099-001000**

Dear Jane Example,

We appreciate the opportunity to provide you with our professional indoor environmental laboratory services. The following environmental assays were performed on the samples submitted by you:

- **Staph Screen Check**

Please call me at 1-800-422-7873, ext. 404, should you have any questions. We look forward in assisting you to create a healthy indoor environment for you and your organization.

Sincerely,

Dr. Rajiv Sahay  
EDL Laboratory Manager

**Corporate Office**

4911 Creekside Drive · Suite C · Clearwater, FL 33760 · (727) 572-4550 · Toll Free: 1-800-422-7873 · Fax: (727) 572-5859  
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# Laboratory Analysis Report Summary of Microbiological Assays



Client : **Jane Example**  
 Jobsite : **Ms. Jane Example Residence**  
 Location : **Example Residence**

PACS ID # : **00099**  
 Work Order # : **001000**  
 Project Date : **3/31/2008**  
 Date Issued : **4/11/2008**

Zone	Test Site	Sample Type	Bacteria <sup>1</sup>	Fungi <sup>1</sup>
Bathroom	Top of Sink	Swab	4,000 CFU	N/A

<sup>1</sup> CFU = Colony Forming Units  
 CFU/m<sup>3</sup> = Colony Forming Units per cubic meter of air  
 CFU/gm = Colony Forming Units per gram of sample  
 CFU/ml = Colony Forming Units per milliliter of sample  
 CFU/cm<sup>2</sup> = Colony Forming Units per square centimeter of sample  
 N/A = Not Applicable  
 BDL = Below Detection Limit

*The results in this report apply only to the sample(s) specifically listed above and tested at Environmental Diagnostics Laboratory. Unless otherwise noted, samples were received in good condition. Laboratory prepared Quality Control (QC) samples are analyzed with the samples routinely; however, unless a blank (control) is received, the result for the control is not compared.*

Quality Controlled By : \_\_\_\_\_

Approved By : \_\_\_\_\_  
**Rajiv R. Sahay, Ph.D.**



# Laboratory Analysis Report Bacteria / Fungi Identified From Culture



Client : **Jane Example**  
 Jobsite : **Ms. Jane Example Residence**  
 Location : **Example Residence**

PACS ID # : **00099**  
 Work Order # : **001000**  
 Project Date : **3/31/2008**  
 Date Issued : **4/11/2008**

Location of Test	Sample Information	Isolated Organisms			
		Identification	Raw Count	CFU	% of Total
Unit: <b>1</b>	Field Sample #: <b>1</b>	<b>Bacteria</b>			
Zone: <b>Bathroom</b>	Lab Sample #: <b>10010001</b>	Staphylococcus species	4	4,000	100.00 %
Test Site: <b>Top of Sink</b>	Sample Date: <b>4/1/2008</b>	<b>Total Bacteria</b>	<b>4</b>	<b>4,000</b>	<b>100.00 %</b>
Run #: <b>1</b>	Sample Time: <b>12:00</b>	<b>Fungi</b>			
Sample Type: <b>Swab</b>	Date Lab Rec'd.: <b>4/3/2008</b>	<b>Total Fungi</b>	<b>N/A</b>	<b>N/A</b>	<b>-</b>
	Date Analyzed: <b>4/11/2008</b>	<b>Total Microorganisms :</b>	<b>4</b>	<b>4,000</b>	<b>100.00 %</b>
	B:F Ratio : <b>N/A</b>				

CFU = Colony Forming Units  
 CFU/gm = Colony Forming Units per gram of sample  
 CFU/ml = Colony Forming Units per milliliter of sample  
 CFU/cm<sup>2</sup> = Colony Forming Units per square centimeter of sample  
 BDL = Below Detectable Limit: **Detection Limit** = 1 CFU  
 N/A = Not Applicable

*The results in this report apply only to the sample(s) specifically listed above and tested at Environmental Diagnostics Laboratory. Unless otherwise noted, samples were received in good condition. Laboratory prepared Quality Control (QC) samples are analyzed with the samples routinely; however, unless a blank (control) is received, the result for the control is not compared.*

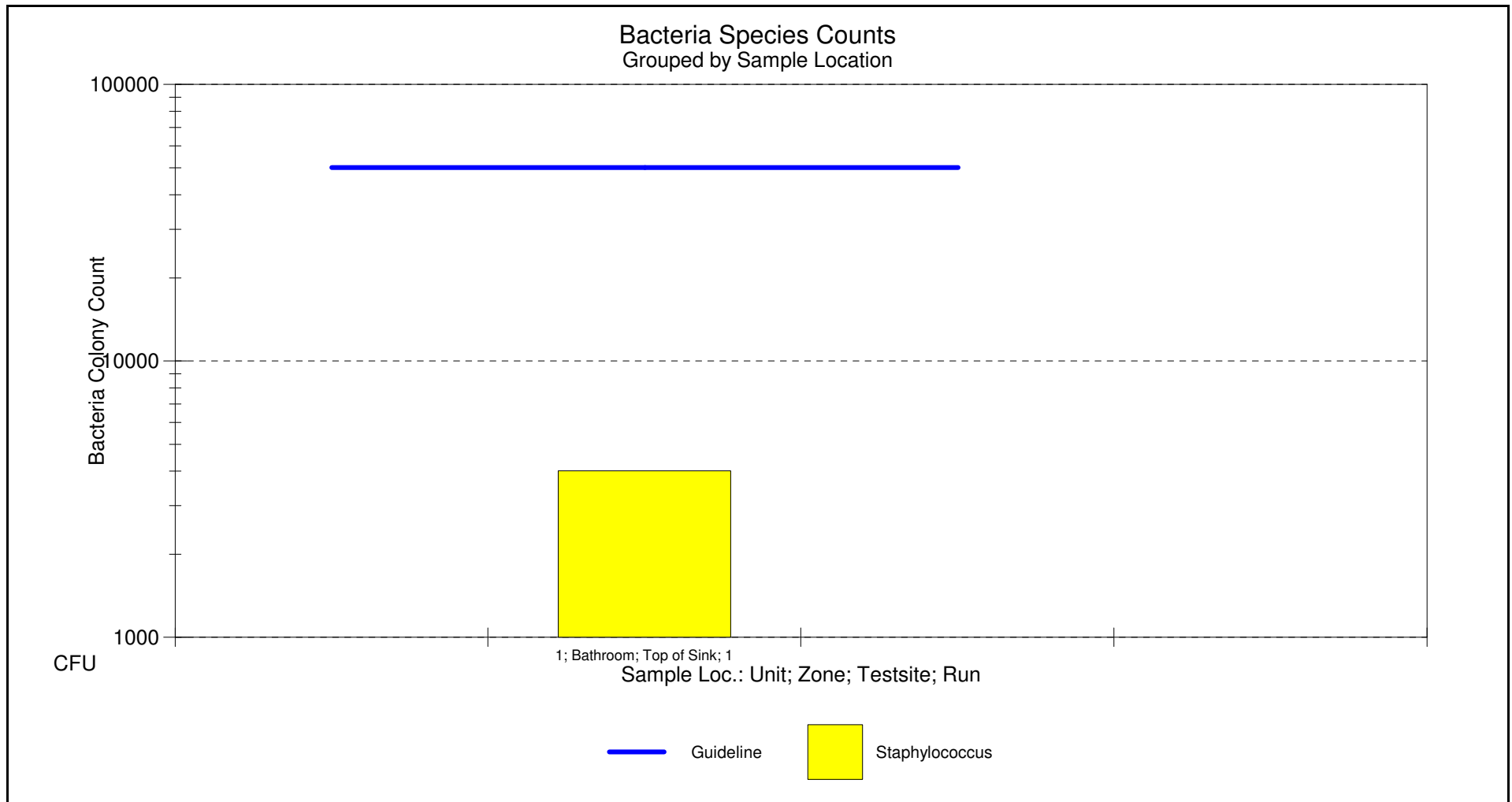
Quality Controlled By : \_\_\_\_\_

Approved By : \_\_\_\_\_  
**Rajiv R. Sahay, Ph.D.**

## Laboratory Analysis Chart Bacteria Identified From Bulk Culture

Client : **Jane Example**  
 Jobsite : **Ms. Jane Example Residence**  
 Location : **Example Residence**

PACS ID#: **00099**  
 Work Order: **001000**  
 Project Date: **3/31/2008**  
 Date Issued: **4/11/2008**



## Bacteria Identified from Environmental Specimens

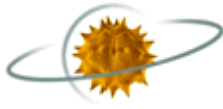
Client : **Jane Example**  
Jobsite : **Ms. Jane Example Residence**

PACS ID # : **00099**  
Work Order # : **001000**

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### Staphylococcus species

An aerobic gram-positive coccus that produces a smooth to rough colony. Pigment production is varied from gray, gray-white with a yellowish tint, yellowish, or yellow-orange. It may free coagulase, bound coagulase or hemolysins. It makes up the majority of the normal bacterial flora of the skin, skin glands, and mucus membranes of humans, animals, and birds. It has been isolated from food, dairy products, soil, beach sand, and water. It is an opportunistic pathogen for humans, animals, and birds.



**EDLab**  
Environmental Diagnostics Laboratory  
1-800-422-7873, Ext. 301



Client: Jane Example  
Jobsite: Ms. Jane Example Residence  
Location: Example Residence  
PACS ID#: 00099  
Work Order #: 001000

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September 13, 2002

**End of Report**



## Healthy Home / Building Considerations:

**Background:** The following Healthy Home / Building options should be considered:

<p><b>A. <u>Baseline Indoor Air Quality Study:</u></b></p>	<p>Depending on occupant complaints, perform an independent comprehensive Indoor Air Quality baseline study to determine specificity of indoor pollutants and possible cause / effect relationship of building occupants.</p>
<p><b>B. <u>Air Conveyance System (ACS):</u></b></p>	<p>Inspect for cleanliness. Depending on condition, environmentally clean and treat ACS.</p>
<p><b>C. <u>Air Handler Unit (AHU):</u></b></p>	<p>Inspect for cleanliness. Depending on condition, environmentally clean and treat AHU; reline with closed cell non-porous material.</p>
<p><b>D. <u>UV Light:</u></b></p>	<p>Inspect for application. Typical UV lights (germicidal lamps) mount in the ductwork system or air handling unit and have the ability to control harmful bacteria, mold, viruses, etc. Post cooling coil application is best. UV light should be used in conjunction with high MERV filtration and environmentally clean HVAC systems.</p>
<p><b>E. <u>AHU Air Filtration:</u></b></p>	<p>Depending upon present filtration, upgrade to highest ASHRAE standard Minimum Efficacy Reporting Value (MERV) rating available, while maintaining equipment static pressure requirements. A MERV rating of 16 is the highest.</p> <p>Quick Reference to Various Air Filter MERV Ratings:</p> <ul style="list-style-type: none"> <li>• <b>MERV 1 - MERV 4:</b> Throw-Away Fiberglass Media less than 20% @ 3 - 10 microns</li> <li>• <b>MERV 5:</b> Pleated Media Air Filters 20 - 34.9% @ 3 - 10 microns</li> <li>• <b>MERV 10:</b> Pleated Media Air Filters 85% @ 3 - 10 microns</li> <li>• <b>MERV 14:</b> Pleated Media Air Filters 85% - 94.9% @ .3 - 1.0 microns</li> <li>• <b>MERV 16:</b> Pleated Media Air Filters at 95% @ .3 - 1.0 microns</li> </ul> <p>Note: The average Particle Size Particulate Efficiency (PSE) rating varies from MERV 1 - 16.</p>
<p><b>F. <u>HEPA Vacuum Cleaner:</u></b></p>	<p>Review housekeeping protocols. Depending on present vacuum product, upgrade vacuum cleaner to HEPA fitted at 99.97% efficient at .3 microns.</p>
<p><b>G. <u>Polytac Prefilter at Return Grills:</u></b></p>	<p>Install filters to arrest large particulates prior to entering the Return Air Duct System.</p>
<p><b>H. <u>Unit Ventilation System (UVS):</u></b></p>	<p>UVS's are typically whole house air filtration and ventilators that circulate fresh air into the home every 2-4 hours, while removing potential stale air to the outside.</p>

**NOTE: Any remedial activities should be accomplished using strict environmental remediation protocols and performed by a qualified professional.**

Please contact at 1-800-422-7873 for further information.