Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name	Sanjna Kedia and Emily Ma			
Title of Project	Remediation of Wastewater Using a Microbial Fuel Cell with Optimized Electricity Generation and an Algae Bioreactor			

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

- 1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
 - Peptone- 16g dissolved in 1L water

 - repioner log dissolved in 14 water
 Calcium Chloride (CaCl2)- 0.4g dissolved in 1L water
 Vegetable Extract- 9g dissolved in 1L water
 Uras- 3g dissolved in 1L water
 Potassium Phosphate Dibasic(X2HPO4)- 2.8g dissolved in 1L water
 Potassium Phosphate Dibasic(X2HPO4)- 2.8g dissolved in 1L water
 Sodium Chloride (NaCl7)- 0.7g dissolved in 1L water
 Sodium Nitrate Solution- 100mg in 1L water
- Bleach(10%) 500ml
- Tow Isopropyi alcohol 100ml
 Magnesium sulfate heptahydrate- 0.2g dissolved in 1L water
 Anabaens- 100ml culture in 1L water
 E. Coll K-12
- Autoclave (sterilizing materials)
- 2. Identify and assess the risks involved in this project.

Pepione, Vegetable extract, uses, polassium phosphate dibasic, NaCh-There are no classified hazard with these products, Magnealum Stillate hepshydrate. This chemical may cause damage to organs with prolonged exposure, and can be toxic to equalic life. Sodum Nitrate causes serious syst initation.

CACI2: Causes serious syst initation.

CACI2: Causes serious syst initation; category 2A, do not the product enter the drains.

Bleach-Consiste to eyes; causes eye burn; hamiful or fatial if awaders of the drains.

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CACI SACI2-SCI. 1: non-pastioned and available and vapor; causes serious eye initiation; may cause diszliness or drowliness.

Anothers—hamilular and calculated and vapor; causes serious eye initiation; may cause diszliness or drowliness.

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- Describe the safety precautions and procedures that will be used to reduce the risks.
 - Peptone. Vegetable extract, uras, potasatum phosphate dibasic, NaCI, magnesium sulfato heptabydrate. If any of these chemicals are inhaled, the person will be moved to fresh air. If skin contact is made, the person's skin will be washed with sosp and water, If eye contact is made, the person will wash their eyes with vator. Nitrio gloves with a thickness of 0.1 mm will be worn while handling these chemicals, column interest of this chemicals is inhaled, the person will be moved to fresh air. If skin contact is made, the person will wash their eyes with water. Nitrio gloves with a thickness of 0.1 mm will be worn while handling this chemical. Additionally impervious clothing and safety glasses with shidsk will be worn while handling this chemical.

 7.0% sopropy alsohol: If this chemical is initiated, the person will be moved to fresh air. If skin contact is made, the person will wash their eyes with water. Nitrio gloves with a thickness of 0.1 mm will be worn while handling this chemical.

 7.0% sopropy alsohol: If this chemical is initiated, the person will be moved to fresh air. If skin contact is made, the person will wash their eyes with water. Nitrio gloves with a thickness of 0.1 mm will be worn with handling this chemical. Additionally impervious clothing and safety glasses with shids will be warned to be not middle made, the person will wash their eyes with water. Nitrio gloves with a thickness of 0.1 mm will be worn with handling this chemical. Additionally impervious clothing and safety glasses, with shids will be worn with handling this chemical.

 Additionally impervious clothing and safety glasses with shids will be worn with and the usual provides and the safety selection and the safety selection is a farmables cabined when it is not in use.

 Additionally and the person will be moved to be added to the person will be moved to be added to the person will be moved to the person will wash their eyes with water. Nitrio gloves, with a thickness of 0.1 mm will be worn with and the person will wash their ey
- Describe the disposal procedures that will be used (when applicable).

Vegetable extract, urea, potassium phosphate dibasic, NaCl, magnesium sulfate heptahydrata, bleach-The aurplus and non recyclable solutions of these chemicals will be sent to a licensed disposal company. Peptone-This chemical will be kept in sulfable closed containers for disposal and non recyclable and surplus solutions of this chemical will be sent to a licensed disposal company. Caci2-This product will not be tel into the drieins, and non recyclable and surplus solutions of this chemical will be sent to a licensed disposal company. Sold unit of the solution of the

List the source(s) of safety information.

Sigma Aldrich, Carolina Biological, Fisher Scientific, Vernier

To be completed and signed by the Des I agree with the risk assessment and safety pre Plan/Project Summary and will provide direct s	cautions and procedures		
Alison Hulnger Designated Supervisor's Printed Name	Signature Thy	(516) 859-5254	Date of Review (mm/dd/yy)
Science research specialist - Manha Position & Institution	V	Alison_Huenger Phone or email conta	Anhallet Schools over
degrees in chemistry and biology - Experience/Training as relates to the stude	www.d at Stony Br	past experience as a cl	logy camp and nemical engineer