



University : National Chin-Yi University of Technology
Country : Taiwan
Web Address : www.ncut.edu.tw

[SDGs 6] Clean Water and Sanitation

[6.3.2] Does your university as a body have processes to prevent polluted water entering the water system, including pollution caused by accidents and incidents at the university?

The **Center of Environmental Protection and Occupational Safety and Health** at NCUT, established in 2019, demonstrates the university's strong commitment to creating a sustainable, safe, and eco-friendly campus. The Center's approach integrates various critical areas, including **occupational health and safety, environmental protection, energy conservation, and carbon dioxide reduction**, contributing significantly to the university's sustainability goals.

Occupational Health and Safety

The Center ensures the safety and well-being of students, staff, and visitors by focusing on several key areas:

1. **Occupational Health and Safety Management:** Comprehensive projects are developed to address health and safety, incorporating policies and guidelines.
2. **Laboratory Safety:** Regular inspections ensure that experimental spaces are safe and compliant with safety regulations.
3. **Management of Hazardous Equipment:** Proper maintenance and oversight prevent accidents involving dangerous machines and equipment.
4. **Health Monitoring:** Systems are in place for assessing the health and safety conditions of campus facilities, and measures are implemented to protect maternal health and prevent ergonomic hazards.
5. **Occupational Hazard Prevention:** Strategies are established to prevent issues related to abnormal workloads, and professional health services are made available on-site.
6. **Contractor Safety:** Contractors working on campus are held to strict safety guidelines.

Environmental Protection Initiatives

NCUT takes several steps to protect the environment:

1. **Water Pollution Prevention:** The university's sewage treatment plant follows strict guidelines to treat wastewater before it is discharged or recycled, aligning with the **Water Pollution Prevention and Control Law**.
2. **Chemical Management:** Toxic substances are managed and disposed of safely to minimize risks.

3. **Indoor Air Quality:** Efforts are made to maintain high air quality in indoor spaces.
4. **Recycling Programs:** Waste reduction is a priority, with recycling initiatives actively promoted.
5. **Green Procurement:** Environmentally responsible procurement policies are implemented to reduce environmental impact.
6. **Electromagnetic Monitoring:** The Center monitors electromagnetic waves to ensure safety compliance.

Energy Conservation and Carbon Reduction

NCUT is focused on energy efficiency and reducing its carbon footprint through the following initiatives:

1. **ISO 50001 Energy Management:** By promoting the international standard for energy management, NCUT aims to adopt best practices for energy efficiency.
2. **Energy Monitoring and Efficiency:** NCUT maintains an electric monitoring system and strives to improve energy efficiency across campus.
3. **Collaborative Energy Management:** The **Energy Management Committee** and a dedicated **Energy Administrator** coordinate efforts to reduce energy consumption and greenhouse gas emissions.
4. **Carbon Reduction:** Fuel management and energy-efficient technologies are deployed to minimize carbon dioxide emissions and mitigate climate change.

These comprehensive efforts reflect NCUT's dedication to fostering a **sustainable campus** while promoting **environmental stewardship** and **occupational safety**. NCUT's proactive approach to water recycling, energy conservation, and environmental protection positions it as a leader in sustainability and safety.



NCUT regularly sends professionals to collect water for inspection

興亞環保科技股份有限公司

行政院環境保護署許可證字號：環署環檢字第 201 號
 檢驗室地址：台中市西屯區工業區七路11號1樓 電話：04-23507275 傳真：04-23507280

水質樣品檢測報告

客戶名稱：勤益科技大學 專案編號：NR112WA00931
 行業別：大專校院(大專校院) 報告編號：NR112WA00931
 採樣單位：興亞環保科技股份有限公司 採樣日期：112年05月12日
 採樣方法：NIEA W109.53B 收樣日期：112年05月12日
 採樣地點：臺中市太平區坪林里中山路二段57號 報告日期：112年05月24日
 採樣行程編號：NRWA23050060 聯絡人：曾仁育
 檢測目的：定檢申報

樣品編號		WA112051213		檢測方法	最大限值	備註
採樣時間	-01	-02				
採樣時間	10:47-10:58	10:36-10:45				
樣品名稱(貯法)	原水(取樣)	取樣水(取樣)				
檢測項目	單位	檢測值				
水溫	°C	7.8	7.8	NIEA W424.53A	*	
懸浮固體	mg/L	28.2	28.5	NIEA W217.51A	*	
化學需氧量	mg/L	11.7	11.5	NIEA W216.58A	*	
生化需氧量	mg/L	102	72.3	NIEA W515.55A	*	
大腸桿菌值	CFU/100mL	37.5	16.7	NIEA W510.55B	*	
		<10	<10	NIEA E202.55B	*	
		以下空白				

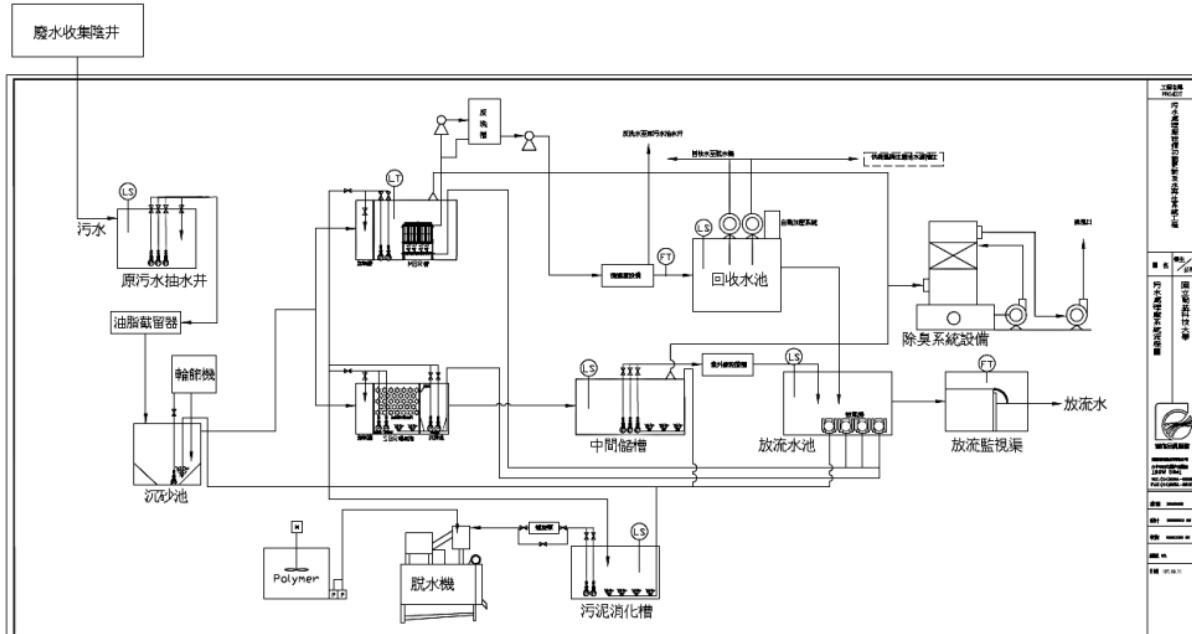
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 7.水質檢驗系統資料：通訊號碼 10:34-11:00

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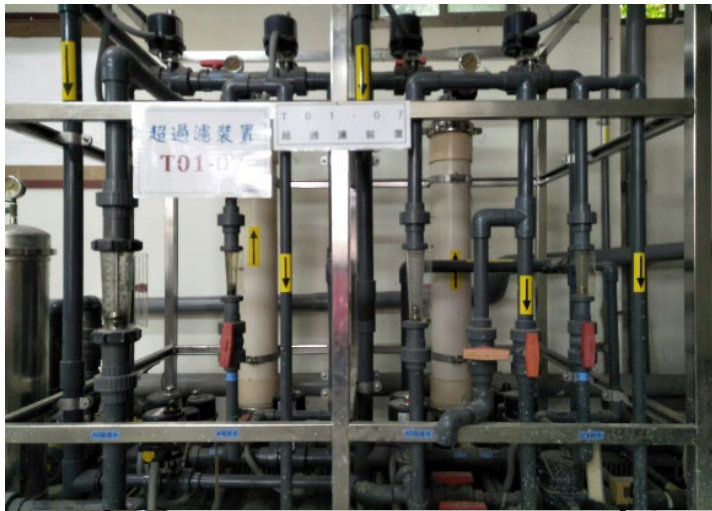
公司名稱：興亞環保科技股份有限公司
 負責人：曾仁育
 檢驗室主管：曾仁育
 (簽名)

報告專用章
 興亞環保科技股份有限公司
 負責人：楊仁洵
 檢驗室主任：曾仁育 (1 頁)

Water quality inspection report

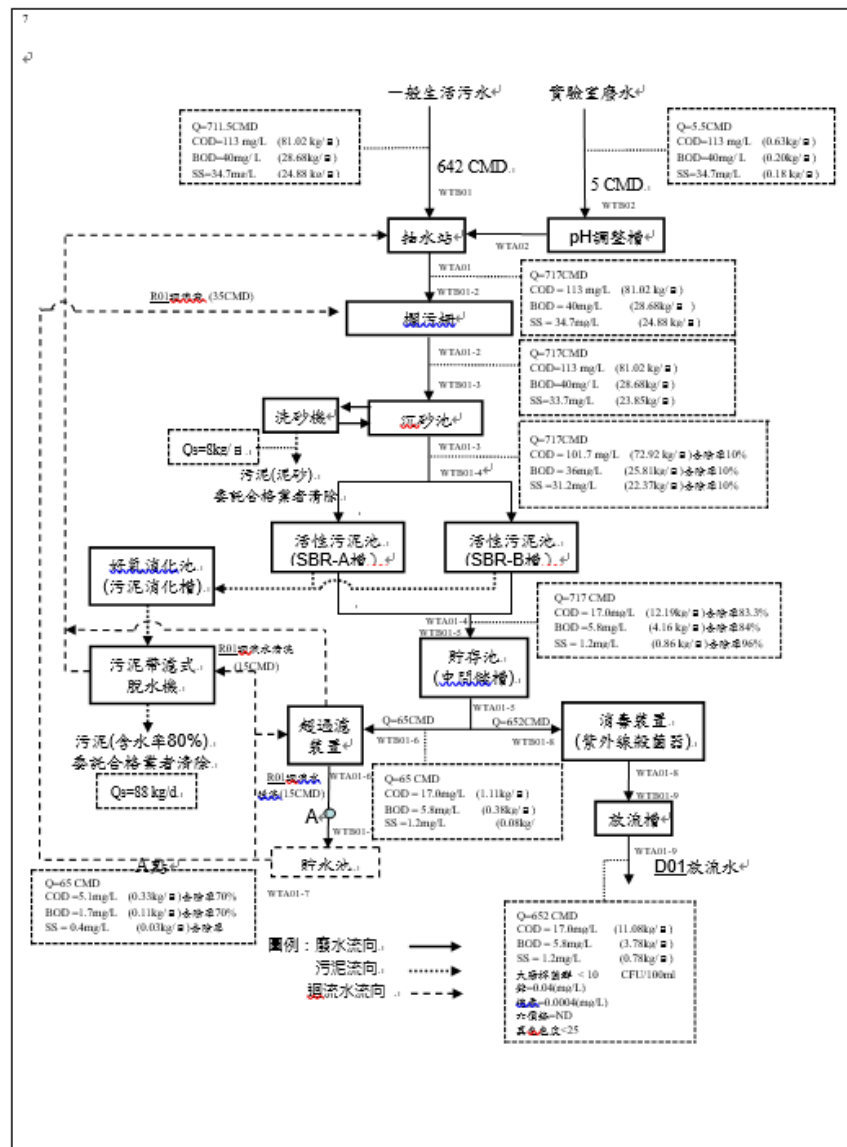


國立勤益科技大學污水處理廠系統流程圖



The waste water treatment process of National Chin-Yi University of Technology

國立勤益科技大學水污染防治措施資料/水質水量平衡示意圖



National Chin-Yi University of Technology (NCUT) has established an efficient sewage treatment system, in compliance with the **Water Pollution Prevention and Control Law**, ensuring responsible wastewater management. Key aspects include:

- Sewage Treatment Plant:** NCUT has set up a sewage treatment facility to handle wastewater from across the campus, including experimental sites. The sewage undergoes **physical, chemical, and biological treatments**, ensuring it meets the discharge water standards set by the government.
- Compliance with Regulations:** The sewage treatment plant operates under a government-issued emission permit. NCUT regularly reports on its water quality and quantity to the **Environmental Protection Administration (EPA)** and adheres to its supervision. NCUT has maintained full compliance with the **Environmental Protection Act**.



3. **Water Recycling and Conservation:** After treatment, **40% of the treated wastewater** is recycled as middle water, which is used for campus landscaping and as a water source for **Mingxiu Lake**. The remaining water, once meeting discharge standards, is safely released into **Han Creek**. This sustainable approach highlights NCUT's commitment to water conservation.

These practices reflect NCUT's dedication to environmental protection, resource conservation, and regulatory compliance.