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Case study

Old Hurghada International Airport Wastewater Treatment Plant

Background

Hurghada International Airport is the international airport of Hurghada in Egypt. It is located inland, 5 km (3.1 mi) southwest of El Dahar, the city center of Hurghada. It is the second busiest airport in Egypt after Cairo International Airport and an important destination for leisure flights mainly from Europe. The airport is able to host up to 13 million visitors annually. The new terminal has a total area of 92,000 square meters on three levels. The departure hall has 72 check-in counters and 20 departure gates..



Sewage treatment plants located at airports are characterized by heavy flows due the congested operations, especially holidays and vacations. This requires increased care and control over the outputs of these plants, which must conform to all local and international environmental standards.

Wastewater treatment plant type

(Extended Aeration treatment system)



We Reserve Water And Environment – So We Sport Life

Solution

Vales Company is a pioneering, unique, and distinguished company in the management, operation, and maintenance of sewage plants

Valens provides engineering, conservation, operation and maintenance services, as well as other highly qualified services resulting from its extensive knowledge of these systems and long-lasting presence on these markets

Operation and Maintenance Program

Key components of an operation and maintenance program include:

1. **Regular inspections:** Scheduled inspections help identify potential issues before they escalate into major problems. Inspections should be conducted by trained personnel who can spot signs of wear and tear or other issues.
2. **Preventive maintenance:** Regular maintenance tasks, such as lubrication, filter changes, and cleaning, can help prevent breakdowns and extend the lifespan of equipment. A preventive maintenance schedule should be established and followed consistently.
3. **Repairs:** When issues are identified during inspections or maintenance tasks, repairs should be carried out promptly to prevent further damage. Repairs should be done by qualified technicians using the right tools and equipment.
4. **Training:** Proper training of personnel is essential for the successful implementation of an operation and maintenance program. Training should cover equipment operation, maintenance procedures, and safety protocols.

By implementing a comprehensive operation and maintenance program, businesses can ensure the reliability and efficiency of their equipment, leading to improved productivity and reduced downtime

Results

Laboratory test analysis results (The results indicate that the treated wastewater meets the reuse standards outlined in Code No. 501/2015, Grade A.)

*National Research Centre
Analysis and Consultation Unit
Domain of Evaluation and Remediation
of Hazardous Industrial Wastes*



المركز القومي للبحوث
وحدة التحاليل والاستشارات
المجال الاستشاري لتقييم ومعالجة المخلفات
الصناعية الخطرة

شركة فالنس للتجارة والخدمات
محطة معالجة مطار الغريفة القديم

التاريخ: ٢٠٢٤/٢/٢٤ اسم العينة : مخلف معالج

العنصر	الوحدة	المخلف النهائي	* كود رقم
الرقم الهيدروجيني pH	-	٧,٢	٢٠١٥/٥٠١
المكارة	NTU	٠,٥٦	٥
الاحتياج الأكسجيني الكيميائي COD	مجم / لتر	٣٤	---
الاحتياج الأكسجيني الحيوي BOD	مجم / لتر	١٤	١٥
المواد العالقة الكلية TSS	مجم / لتر	١٥	١٥
المواد الذائبة الكلية TDS	مجم / لتر	٦٤٥	٢٠٠٠
الزيوت و الشحومات O&G	مجم / لتر	١,٣	---
الكلور المتبقى Cl	مجم / لتر	٠,٧	---
العد الاحتمالي لبكتريا ايشريشيا كولاي (EC)	MPN/100ml	لا يوجد	٢٠
عدد بويضات الديدان المعوية Intestinal nematodes /liter	بويضة / لتر	لا يوجد	١

تم تجميع العينات بمعرفة المسئولين بالمركز القومي للبحوث

التقرير

النتائج الموضحة تبين توافق مواصفات مياه الصرف الصحي المعالجة مع معايير اعاده الاستخدام

كود رقم ٢٠١٥/٥٠١

أ.د. فايزة على نصر

فايزة نصر

رئيس المجال الاستشاري

٢٠٢٤/٢/٢٤





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شارع البحوث - الدقي - ١٢٦٢٢ - القاهرة

تليفون / فاكس : ٣٧٤٨٤٠٧٧ - ٠٢

موبايل : ٠١٢٢٧١٤٥٦٤٩

Conclusion

Thanks to the successful and anticipated results achieved by Valens Company in managing the station, the contract with them has been extended from the initial date **13/10/2021** and is still ongoing.

Contact

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