

Sphinx International Airport Wastewater Treatment Plant

Background

Sphinx Airport is located approximately 40 kilometers south of Cairo, the capital of Egypt. It is one of the main airports serving the Greater Cairo area. Its current area is 24,000 square kilometers.

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 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 سفنكس

التاريخ: ٢٠٢٤/٢/١٠

كود رقم ٢٠١٥/٥٠١	المخلف النهائي	الوحدة	العنصر
---	٧,٢	-	الرقم الهيدروجيني pH
---	٣٢	مجم أ/لتر	الاحتياج الأكسجيني الكيميائي COD
١٥	١٤	مجم أ/لتر	الاحتياج الأكسجيني الحيوي BOD
١٥	٥	مجم/لتر	TSS المواد العالقة الكلية
٢٠٠٠	١٨٠٠	مجم/لتر	TDS المواد الذائبة الكلية
---	١,٣	مجم/لتر	O&G الزيوت و الشحومات
---	٠,٨	مجم/لتر	Cl الكلور المتبقي
٢٠	لا يوجد	MPN/100ml	العد الاحتمالي لبكتريا ايشريشيا كولاي (EC)
١	لا يوجد	بويضه / لتر	عدد بويضات الديدان المتعادلة المعويه Intestinal nematodes /liter

* معايير (عادة استخدام مياه الصرف الصحي المعالجة درجة أ)

التقرير

النتائج الموضحة تبين توافق مواصفات مياه الصرف الصحي المعالجة مع معايير اعاده الاستخدام
كود رقم ٢٠١٥/٥٠١ درجة أ

أ.د/ فايزة على نصر

خاتمة

رئيس المجال الاستشاري

٢٠٢٤/٢/١٠





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شارع البحوث - الدقي - ١٢٦٢٢ - القاهرة

تليفون / فاكس : ٣٧٤٨٤٠٧٧

موبيل : 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 **22/06/2021** and is still ongoing.

Contact

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