

LAILA AL-KHALAF

Education

M.S. - University of Central Florida, Environmental Engineering, May 2020

B.S. - University of Central Florida, Environmental Engineering, Dec 2017

Professional Licenses

FBPE Engineer in Training – Environmental Engineering, June 2021

Specialty Certifications

OSHA Hazardous Waste Operations 40-Hr Training, November 2019

Professional Affiliations

Tau Beta Pi, Florida Delta Chapter-Engineering Honor Society

Professional Experience

Ms. Al-Khalaf is a Project Professional in SCS's Tampa, Florida office. She provides engineering support services for design, permitting, site inspection, and reporting for solid waste engineering and landfill gas all around the southeast region. Prior to working for SCS, she worked as a project engineer at a civil firm focused on land development, including permitting, site layout design, and wastewater, water and stormwater design. Notable projects that Ms. Al-Khalaf has been involved in are described below.

Solid Waste Engineering

Hillsborough County, FL Hillsborough Heights Landfill, Environmental Field Office Building: Assist in designing the conversion of a storage warehouse to an office building. Coordinate with county and jurisdictional personnel to adhere to all building permit requirements. Conduct on-site meetings with sub-contractors. Assist with preparation of construction design drawings.

Hillsborough County, FL Northwest Transfer Station, Bay Edge and Steel Plate Repairs: Assist in the preparation of engineering drawings for repairs of transfer station bays and steel plates. Assist manager during site inspections.

Guantanamo, Cuba US NAVY, Naval Base Guantanamo Bay MSW Landfill Design: Assist with designing an MSW landfill at US Naval Base Guantanamo Bay. Performed design calculations for the stormwater collection system, including pipe sizing, pond sizing, and discharge rates using Inter-connected Channel and Pond Routing (ICPRv4) modeling software. Assisted with preparation of landfill design report and landfill design drawings.

Manatee County, FL Lena Road Landfill, Monthly Liquid Level Monitoring: Assisted in the data collection of liquid levels for all monitoring wells at the Landfill.



Salinas, PR Salinas Landfill, Cell 4 Expansion: Assisted with updating engineering design drawings as well as provided technical writing for construction certification report.

Landfill Gas

Hillsborough County, FL Southeast Landfill, Monthly Well Monitoring: Process emissions data of monitoring wells. Ensure temperature, oxygen, and pressure of wells are in compliance with FDEP Regulations.

Hillsborough County, FL Southeast Landfill, Annual Title V Support: Provided technical writing for semiannual compliance reports, statements of compliance, annual operating reports, and greenhouse gas reports. Process emissions data of monitoring wells. Ensure temperature, oxygen, and pressure of wells are in compliance with FDEP Regulations.

Hillsborough County, FL Southeast Landfill, GCCS Expansion Design: Assisted with liquid level data and gas data interpretation. Produced radius of influence maps based on monthly liquid level data. Assisted in selecting positions of new landfill gas collection wells and produced design level drawings for GCCS expansions.

Manatee County, FL Lena Road Landfill, Quarterly Probe Monitoring: Assisted in the data collection of probe emissions. Provided technical writing for quarterly monitoring reports.

Manatee County, FL Lena Road Landfill, GCCS Expansion Construction Quality Assurance: Assisted in providing construction quality assurance for a GCCS system expansion involving LFG collection well installation, leachate sump installation, LFG lateral, air, and vacuum installation. Provided technical writing for the construction certification report.

Manatee County, FL Lena Road Landfill, Landfill Gas Support Services: Developed permit modification application for the Lena Road Landfill. Application was prepared online utilizing regulatory software. Assisted in preparation of design drawings and technical specifications. Design components included header and lateral piping, 2 condensate sumps, header isolation valves, airline isolation valves, dewatering line isolation valves, tie-ins to leachate cleanouts, and manhole retrofits. Provided full-time CQA including daily field reporting, field engineering, coordination with contractor, and reviewing quantities for payment applications.

Seminole County, FL Osceola Road Landfill, GCCS Expansion Construction Quality Assurance: Assisted in providing construction quality assurance for a GCCS system expansion involving LFG collection well installation, leachate sump installation, LFG lateral, air, and vacuum installation. Provided technical writing for the construction certification report.

Polk County, FL Polk County Landfill, GCCS Expansion Construction Quality Assurance: Assisted in providing construction quality assurance for a GCCS system expansion involving LFG collection well installation, leachate sump installation, LFG lateral, air, and vacuum installation. Provided technical writing for the construction certification report.

Birmingham, AL Eastern and New Georgia Landfill, Annual Title V Support: Performed capacity calculations, updated permits, and provided technical writing for semiannual compliance reports, annual compliance certification reports, and annual emission reports. Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Panama City Beach, FL Steelfield Road Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Chatanooga, TN Bradley County Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Salinas, PR Salinas Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Bartow, FL Cedar Trail Landfill, Annual Title V Support: Provided technical writing for the semiannual compliance reports, statements of compliance, and annual compliance reports.

Bartow, FL Cedar Trail Landfill, Monthly Probe Monitoring: Assisted in the data collection of probe emissions. Provided technical writing for monthly monitoring reports.

Bartow, FL Cedar Trail Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Coffee County, FL Coffee County Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Salinas, PR Salinas Landfill, Annual Title V Support: Assisted in the collection of Tier 2 LFG samples. Provided technical writing for the Tier 2 Report.

Ponce, PR Ponce Landfill, Annual Title V Support: Provided technical writing and engineering calculation assistance in Semiannual Reporting.

Environmental Services

Hillsborough County, FL, Closed Landfills and Transfer Stations, Stormwater Pond Inspections: Assisted with inspection of stormwater ponds for five of Hillsborough County's closed landfills and transfer stations. Detailed photos and observations were made in order to comply with Environmental Resource Permit (ERP) renewal.

Additional Projects

Manatee County, FL Lena Road Landfill, Annual Report: Provided technical writing assistance on proposal. Managed the kick-off project meeting. Inspected all storm, solid waste, and landfill gas units for proper function. Provided technical writing in annual report. Provided project management.