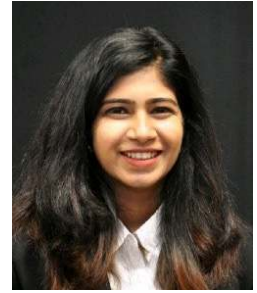


VINUTA SHESHAPPANAVAR, E.I.T.

### Education

MS – Engineering (Environmental), Georgia Institute of Technology, 2018  
BE – Engineering, (Chemical), Rashtreeya Vidyalaya College of Engineering, 2015



### Professional Affiliations

Solid Waste Association of North America (SWANA)

### Professional Experience

Vinuta is a Project Professional with experience in environmental and solid waste engineering. She provides engineering support services for design, permitting, construction management CQA services, and reporting for landfill projects all around the southeast region. She also supports projects involving GCCS system design, construction, and regulatory compliance. At SCS, she is responsible for completing tasks for projects involving regulatory compliance of several sites subject to the New Source Performance Standards (NSPS) throughout the state of Georgia and Alabama, specifically the review of monthly LFG data and system design and construction quality assurance (CQA) for Republic Services and Advance Disposal Services landfills. Prior to working for SCS, she worked at American International Group as a Risk Engineering Associate where she prepared risk assessment reports which included risk rating for different oil and chemical industries (terminals, petrochemical plants, pharmaceutical plants) in accordance with engineering standards (FM, NFPA, and API). Her education concentrated in chemical engineering, water/wastewater quality design, and energy systems.

Example project experience includes:

Landfill Gas Control, Air Permitting, and Renewal Energy

#### Republic Services, Inc., Title V Compliance, Various Sites

- Responsible for preparing, reviewing, and submitting bimonthly compliance reviews for LFG extraction wells that are exceeding New Source Performance Standards (NSPS) regulatory limits and providing recommendations to remediate the exceedances by reviewing wellhead monitoring data, liquid level measurements, and OM&M evaluations.
- Responsible for preparing presentations and participating in monthly gas calls between the client, OM&M LFG contractor, LFG design and compliance engineers, and other parties to go over operational and compliance issues and develop action items.
- Responsible for preparing, reviewing, and sending out alternate timeline (ATL), higher operating value (HOV), alternate operating procedure (AOP), and decommissioning requests for landfill gas extraction wells exceeding NSPS regulatory limits to maintain compliance to the state Environmental Protection Division (EPD).
- Responsible for preparing and reviewing semi-annual reports for multiple sites throughout the Southeast. Tasks include evaluating landfill gas extraction well exceedances, monitoring excursions, and EPD compliance submittals, landfill surface emissions monitoring (SEM) results,

dust suppression plan recordkeeping, LFG flare data and other site-specific documentation to send to the state Environmental Protection Division (EPD).

- Preparing greenhouse gas (GHG) calculations for the 2019 reporting period for multiple landfills in the Southeast region which included evaluating flare/gas to energy facility data, waste tonnages, and other LFG site specific information to send to the Environmental Protection Agency (EPA).

#### **Republic Services (RS) and Advanced Disposal Services (ADS), Construction Quality Assurance (CQA), Various Sites**

- Performed design assistance and full-time construction quality assurance (CQA) field work for multiple landfill gas collection and control system (GCCS) well drilling and piping construction projects.
- Facilitated communication between the construction contractors, SCS project managers and directors, and the client to ensure that the design specifications and intentions were adhered to and to the clients' expectations. Worked with all parties to identify and troubleshoot any design/field changes that occurred during the projects and to come up with timely solutions.
- Prepared the construction completion certification reports and as-built drawings from the construction to provide to the client and design engineers for bookkeeping and future use.
- Projects included:
  - ADS, Star Ridge 2019 GCCS Expansion, Moody, AL (March 2019).
  - RS, Richland Creek Landfill 2019 GCCS Expansion, Buford, GA (April 2019-June 2019).
  - ADS, Eagle Point Landfill 2019 Dual-Contained Forcemain & Lift Station Completion, Ball Ground, GA (August 2019).
  - RS, Richland Creek Landfill 2019 GCCS Expansion, Buford, GA (February 2020- March 2020).

#### **Republic Services, 2019 5-Year Phasing Plans, Pine View Landfill**

- Prepared GCCS phasing plan drawing sets for future conditions of landfills based on projected landfill waste filling, landfill gas flow rates, and liquids removal rates. Drawings included projected LFG extraction wells, gas collection, air supply, and liquid conveyance piping, abandonments, and other capital expenditures that would be required to meet regulatory and operational requirements.
- Prepared material and engineering cost estimations to provide to clients to allow them to evaluate their budgetary needs for particular years and to project future landfill gas construction project needs.

#### **Advanced Disposal Services, Wolf Creek Landfill NSPS Design Plan**

- Prepared the cover sheet, proposed final GCCS detail permit drawings for the design.
- Evaluated the waste densities and existing and future gas collection coverage and prepared an EPD LandGEM model and calibrated the model.

#### **Dalton-Whitfield Solid Waste Authority, Greenhouse Gas Reporting 2019**

- Prepared and reviewed calculations and reports based on GCCS flare and pipeline data, waste tonnage and remaining capacity reports, and other LFG site specific information to submit to the EPA.

**Advanced Disposal Services (ADS), 2020 Landfill Gas Collection and Control System (GCCS) Expansion Design, Wolf Creek Landfill**

- Evaluated existing LFG collection coverages based on radiuses of influence for LFG extraction wells, surface emission exceedance locations, and recommendations from the OM&M personnel to design LFG extraction wells to maintain or increase gas collection coverages in areas of the landfill.
- Designed LFG extraction well depths and materials specifications based on surveyed ground surface elevations and landfill top of protective cover, subgrade, or top of clay layer elevations.

**Advanced Disposal Services, 2019 Economic Development Plan (EDP) Model Updates, Evergreen, Star Ridge and Cedar Hill**

- Evaluated existing landfill GCCS systems, permitted/proposed final GCCS buildouts or phasing plans, and potential interim GCCS infrastructure to update the economic development plan (EDP) models for multiple sites in the Southeast. Provided material and engineering cost estimations so that adequate funding could be allocated for future capital expenditures and construction projects.

**Waste Containment Facility Design and Permitting****DeKalb County, Seminole Road LF Solid Waste 5-Year Permit Review, DeKalb County, GA**

- Updated the modified D&O pages to be submitted to EPD for review.
- Updated the Closure and Post Closure Cost Worksheets according to change in filling sequences on the D&O plans.
- Prepared the slope stability calculations for the interim slopes for landfill as a part of the 5 year Permit Review by GA EPD.

**DeKalb County, 2019 Annual Airspace Reporting, DeKalb County, GA**

- Conducted volume calculations to calculate the remaining life for the MSW and C&D landfill for EPD reporting.
- Updated the remaining capacity report for submission on the EPD GEOS portal.

**DeKalb County, Seminole Road LF General Engineering Services, DeKalb County, GA**

- Conducted volume calculations to calculate and update the remaining life for the constructed cells in Phase 3 Units 1 and 3 as well as update the projected life for new cell construction for Phase 3 Unit 2 Cells 1 and 2.
- Prepared Cell construction, closure and GCCS construction timeline and areas for the masterplan for the next 10 years of the Seminole Road Landfill

**DeKalb County, Seminole Road Landfill, Phase 3, Unit 2, Cell 1 and Cell 2 (subgrade), DeKalb County, GA**

- Updated and implemented changes to Issued to Bid Drawings to create the Issued for Construction drawing set.
- Reviewed construction submittals for geosynthetic quality and subgrade as-built surveys.

**DeKalb County, Panthersville Rd Borrow Area Surface Mining Permit, DeKalb County, GA**

- Prepared the Surface Mining Land Use Permit Package for the Surface Mining Permit for the Panthersville Road Borrow Area.
- Prepared Industrial Stormwater General Permit NOI for the Panthersville Rd Borrow Area.
- Coordinated with surveyors to stake the site boundary and benchmarks to facilitate an EPD site visit.