

MAURA E. DOUGHERTY, PE

## Education

BSE – Civil Engineering, Princeton University, 1998

MS – Environmental Engineering, University of California, Berkeley, 2004

## Specialty Certifications

Professional Engineer, Civil – California (No. C 68966); Oregon (No. 87381); Washington, (No. 50202); Hawaii (No. 18535)

OSHA, 40-Hour HAZWOPER Training

OSHA, 8-Hour Supervisor Training

## Professional Experience

Ms. Dougherty is a Senior Project Engineer specializing in environmental and civil engineering systems planning and design, groundwater hydrology, air pollution modeling, and health risk assessment. She has managed landfill closure cap construction and gas collection and control system (GCCS) construction projects, and has participated in the oversight of project budgets, client interaction, coordination with regulatory staff, design and technical review, and project construction and fieldwork. Prior to joining SCS, her work included:

### **Weaver Consultants Group, San Ramon, CA (2019 – 2020). Senior Project Manager:**

- Led the establishment of a new West Coast Operation with a physical office location in Northern California. Responsible for spearheading the opening of the new operation, including identifying and pursuing a new client base, procuring office space, and managing hiring.
- Responsible for identifying marketing opportunities, establishing contact with new potential clients, and preparing and presenting introductory Statements of Qualification (SOQs) in written and presentation format. Utilized identified markets and new client contact relationships to identify opportunities for preparation of proposals and associated cost models for engineering design, operations support, and construction quality assurance (CQA) projects.
- Operations responsibilities included developing and managing the business plan for the operation, managing business unit personnel issues, identifying operation workload and resource leveling, and providing effective communications to other regional offices.
- Client lead for portfolio of solid waste clients in the private sector. Managed all aspects of projects, including project budget oversight, client interaction, coordination with regulatory staff, design and technical review, and project construction and fieldwork.
- Managed CQA projects, including closure cap construction and landfill GCCS construction. Projects ranged in duration from 4 weeks to 5 months. During projects, provided client support on Requests for Information (RFIs) and contractor submittals, and

payment application review and tracking. Managed CQA personnel; coordinated schedules among contractors, site operations, and O&M; provided engineering oversight for field activities; reviewed field documentation; and reviewed and certified final CQA report.

**Cornerstone Environmental Group, a Tetra Tech Company, Dublin, CA (2009 – 2019).** *Client Manager/Operations Director:*

- Client lead for portfolio of solid waste clients in the private and public sectors. Managed all aspects of projects associated with biogas development, LFG, and organics, including oversight of project budgets, client interaction, coordination with regulatory staff, design and technical review, and project construction and fieldwork.
- Operations responsibilities included managing business unit personnel issues, assisting with regional workload and resource leveling, providing effective communications across regional offices, developing and implementing business plans for regional offices and providing input on regional budgets.
- Led company initiative with the help of cross functional team members to identify business development opportunities for growth within the organics market. Market opportunities range from aerated static pile composting to alternative waste conversion technologies and organics diversion studies and planning.
- Provided designs for LFG expansion projects, typically commencing with 20-year Master Plan and Five-Year Phasing Drawings for GCCS improvements. Subsequent detailed design included LFG extraction wells, lateral and header piping, condensate management features, and new or upgraded flare station design. Projects also included integration of new facilities with existing GCCS equipment, as well as coordination with existing or proposed beneficial use facilities.
- Provided engineering services for multiple covered aerated static pile (CASP) composting projects in California. Projects included pilot study design (i.e., evaluated compost recipes, undertook testing, and assessed methodology for constraints associated with an increased volume of feedstock); permitting (i.e., facility permit, Waste Discharge Requirements [WDRs], and air permitting); and design and construction of new or converted CASP composting facilities co-located with landfills.
- Managed projects associated with upgrades to existing LFG systems to meet fuel standards for beneficial end-use facilities. Projects included preparing a design basis memorandum to evaluate current conditions and design criteria related to beneficial end-use equipment, and preparing design drawings for a proposed facility layout.
- Prepared proposals to secure routine projects as well as respond to Requests for Proposals for engineering services associated with design, permitting, and construction.
- Direct supervisor to project manager and staff-level engineers. Responsibilities included day-to-day skill building and workload leveling, performance evaluations, administrative efforts (e.g., timesheet review, expense reports, etc.), and mentoring.

**ETIC Engineering, Pleasant Hill, CA (2006 – 2009).** *Project Manager/Engineer:*

- Managed a portfolio of projects that included a former wood waste landfill and petroleum hydrocarbon-impacted sites. Handled all project aspects, including preparation of client proposals, oversight of project budgets, client interaction, coordination with regulatory staff, and management of project fieldwork and report preparation.
- Supervised staff and project-level employees. Responsibilities included review of timesheets, coordination of staff work schedules, and annual reviews.
- Managed the preparation and implementation of workplans, corrective action plans, and remedial action plans for activities that included soil, groundwater, and soil vapor investigations, well installation and destruction, sensitive receptor surveys, chemical oxidation injection pilot testing, and remediation system installation.
- Managed the construction and start-up of a groundwater extraction, soil vapor extraction, and dual phase extraction remediation system for a petroleum hydrocarbon-impacted site. The system included 14 on-site and 6 off-site wells connected to the system using horizontal directional drilling.
- Management activities included coordinating between the client, regulatory oversight representative, city building and engineering departments, and the California Orphan Site Fund.
- Oversaw clean closure of a former wood waste landfill. Interacted with client and regulatory agency to coordinate environmental screening during construction season activities; provided guidance for handling of impacted wood waste materials; and prepared a clean closure certification report upon completion of the project.
- Implemented WDRs at a former wood waste landfill. Advised and assisted the client to remain in compliance with groundwater, surface water, leachate, and stormwater sampling, and reporting requirements.
- Provided oversight of an NPDES permitted site, and prepared a sampling matrix used by other company NPDES sites.

**PES Environmental, Inc., Novato, CA.** *Project Engineer (2004 – 2006); Engineer Intern (2003 – 2004):*

- Managed groundwater, soil, and soil gas investigations. Tasks included coordination of subcontractors, regulatory correspondence, supervision of field staff, data evaluation, and reporting of investigation data.
- Provided oversight for soil removal projects, including coordination of subcontractors, obtaining applicable permits, air monitoring, quantity tracking, and final report preparation.
- Monitored Bay Area Air Quality Management District (BAAQMD) permit compliance for industrial sites, and provided oversight for facility closures with hazardous materials permits.

- Prepared reports, including remedial action plans, removal action workplans, requests for bid documents, Phase I Environmental Site Assessments (ESAs), and site investigation workplans and reports.
- Evaluated data with tools, including J&E model and EPA ProUCL software.

**EMCON/OWT Solid Waste Services, Mahwah, NJ. Staff Engineer (2000 –2002):**

- Design experience included baseliner and final cover designs for landfill facilities, and water main extension modeling using WaterCAD.
- Managed multiple contracts for compliance database development project. Responsible for coordination with client to ensure that facilities were meeting regulatory obligations.
- Prepared construction cost estimates, including installation and material costs for all new equipment.
- Prepared reports associated with facility permit applications and modifications, Phase I site assessments, quarterly monitoring, and compliance certification reports.
- Field responsibilities included environmental sampling, ESAs, and construction quality assurance/quality control (QA/QC).
- Conducted training sessions for client managers on utilization of compliance database software.

## Publications and Presentations

Dougherty, M., Finding a Balance: Managing CASP Permitting Requirements versus Operational Objectives, Global Waste Management Symposium, Palm Desert, CA, February 2020.

Dougherty, M., and P. Stout, The Challenges and Lessons Learned from the Transition from Windrow Operations to Aerated Static Pile Composting, Global Waste Management Symposium, Palm Desert, CA, January 2018.

Dougherty, M., and P. Stout, Time for a Change? Transitioning from Windrow Operations to Aerated Static Pile Composting, U.S. Composting Council Conference, Jacksonville, FL, January 2016.

Dougherty, M., P. Stout, T. Whittle, and T. Pelletier, Building to Future Flows – Evaluating Landfill Gas Production and Design of Wellfield Improvements, SWANA LFG Symposium, Las Vegas, NV, 2013.

Silliman, J., M. Dougherty, P. Stout, and K. Lewis, Maintain Compliance at the Border – Putting a Stop to Landfill Gas Migration, SWANA LFG Symposium, Las Vegas, NV, 2013.

Bernardini, J., P. Stout, and M. Dougherty, Out with the Old and in with the New – Improving GCCS Efficiency through Evaluation and Design of Wellfield Improvements, Western SWANA, April 2013.

Dougherty, M., P. Stout, T. Whittle, and T. Pelletier, Leaping Forward to Energy Recovery – Increasing Your GCCS Output and Removing Sulfur to Bring an Energy Project Online, SWANA LFG Symposium, Orlando, FL, 2012.

Dougherty, M., and P. Shaw, Improved Circulation, Waste Age, October 2003.