

January 26, 2019

Ms. Leigh Carney  
East Greenwich Town Clerk  
125 Main Street  
East Greenwich, Rhode Island 02818

RE: Volunteer Application for Kent County Water Authority Board

Dear Ms. Carney:

Enclosed please find my application for the volunteer position for the Kent County Water Authority (KCWA) Board. While I have only recently become an East Greenwich resident, I am eager to become active in the community and believe that I could make a meaningful contribution as a KCWA board member.

I am a licensed professional civil engineer and, as described in my attached resume, have 10 years of experience in the environmental and civil engineering industries. Relevant examples of my work includes providing consulting services to utility companies and working on water quality projects for industrial, municipal, and construction clients.

I appreciate your consideration of this application. Please feel free to contact me if you have any questions or would like to discuss my application or the board position further.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mary Cunningham', with a long horizontal line extending to the right.

Mary Cunningham  
(541) 740-5096

Attachments: Volunteer Application for Kent County Water Authority Board Position  
Mary Cunningham professional resume



HAVE YOU EVER SERVED ON A COMMISSION, COMMITTEE, OR BOARD IN EAST GREENWICH OR ANOTHER MUNICIPALITY OR STATE? YES \_\_\_\_ NO X

IF SO PLEASE INDICATE:

\_\_\_\_\_  
\_\_\_\_\_

IS THERE A SPECIFIC EVENING OR OTHER PERIOD OF TIME YOU WOULD BE UNAVAILABLE TO ATTEND MEETINGS? YES \_\_\_\_ NO X

IF SO PLEASE EXPLAIN:

\_\_\_\_\_  
\_\_\_\_\_

DO YOU ANTICIPATE HAVING TO REFRAIN FROM PARTICIPATING IN DISCUSSION AND VOTING ON ANY PARTICULAR MATTER (S) THAT MAY COME BEFORE SAID COMMISSION, COMMITTEE OR BOARD BECAUSE OF CONFLICT OF INTEREST? YES \_\_\_\_ NO X

IF SO, PLEASE EXPLAIN:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Affordable Housing Commission	Board of Assessment Review	Board of Canvassers
Coastal Resources Management Council	Cove Management Commission	Historic Cemetery Commission
Historic District Commission	Housing Authority	Juvenile Hearing Board
Kent County Water Authority	Municipal Land Trust	Personnel Board
Planning Board	Quonset Point Dev. Corp Board	Senior Advisory Council
Zoning Board		

**NOTE: APPLICATIONS ARE KEPT ON FILE FOR ONE (1) YEAR FROM THE DATE OF RECEIPT.**

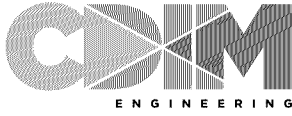


SIGNATURE

1/26/19  
DATE

PLEASE RETURN APPLICATION AND SUPPORTING DOCUMENTS TO:

**TOWN CLERK'S OFFICE  
TOWN HALL  
125 MAIN STREET  
PO BOX 111  
EAST GREENWICH, RI 02818  
LCARNEY@EASTGREENWICHRI.COM**



## Years of Experience

Experience: 2009-present

## Technical Skills

Storm Water Management  
Water Quality  
Water Treatment System  
Operation & Maintenance  
Environmental Site  
Assessments and  
Investigations  
Regulatory Compliance and  
Interpretation  
AutoCAD

## Education

BS, 2008, Chemical Engineering  
Oregon State University  
Corvallis, Oregon

## Registrations

Professional Engineer  
State of California No. C82789

## Storm Water Training

Qualified Storm Water Pollution  
Prevention Plan Developer  
(QSD) and Practitioner (QSP)  
  
Qualified Industrial Storm Water  
Practitioner (QISP)

## Professional Training

40-hour OSHA HAZWOPER/ 8-  
hour Refresher Training  
  
CPR/First Aid Certified

## Summary of Experience

Ms. Cunningham is a professional civil engineer with a BS in chemical engineering and ten years of experience in the environmental arena. She is experienced in regulatory compliance, water treatment system design and operation, environmental site assessments and investigations, field work planning and oversight, and technical report preparation. She also provides compliance support for both storm water and industrial wastewater projects.

## Professional History

### 2016–Present Project Engineer

#### **CDIM Engineering, San Francisco, California**

CDIM's operations manager and co-founder. Provide technical support to all CDIM's clients including engineering design, environmental management system development and implementation, and site investigation services. Perform data and graphic analysis, including creating engineering plans, figures and maps. Prepare scopes of work and budgets for current and potential clients.

### 2015–2016 Project Manager

#### **ETIC Engineering, Pleasant Hill, California**

Manage the operation, maintenance, and monitoring activities for numerous environmental sites in the post-remediation monitoring phase. Responsibilities include management of field activities and compliance documentation, preparation of project scopes and budgets, budget management, and client interaction.

### 2014–2015, 2009–2010 Senior Staff Engineer II

#### **Weiss Associates, Emeryville, California**

Responsibilities included environmental site assessments (ESAs) and investigations, coordination and oversight of subcontractors, project management including preparation of project scopes and budgets, storm water compliance activities, and operation and maintenance of groundwater treatment systems. Evaluated data and prepared reports; participated in development, training, and implementation of field activity protocols. Performed soil and groundwater sampling.

### 2012–2014 Project Engineer

#### **The Source Group, Inc., Pleasant Hill, California**

Primary responsibility in preparing work plans, monitoring reports, Phase I ESAs, closure requests, and spill prevention plans. Provided subcontractor oversight for field activities including: soil borings and cone penetrometer testing, well and storm water best management practice installations and soil gas sampling.

### 2012 Field Service Engineer

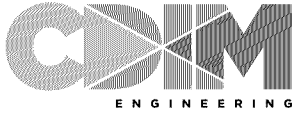
#### **Envirogen Technologies, Inc., Rancho Cordova, California.**

Responsible for the optimization of biological fluidized bed groundwater treatment system, including analyzing system performance and performing diagnostic tests. Prepared and implemented process control management strategy for system and trained staff.

### 2010–2012 Consulting Engineer

#### **Lucas Engineering & Management Services, Richland, Washington.**

Provided support for a sludge treatment project including analysis of treatment alternatives for radioactive waste sludge. Responsible for evaluating bench-scale test data and process calculations for various treatment alternatives. Prepared technical documents related to the alternatives analysis.



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**Mary E. Cunningham, PE**  
Project Engineer

## Representative Projects/Experience

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### **Drainage and Storm Water Treatment System Design and Construction, Pier 3, *San Francisco, California***

Civil engineer for design of drainage and storm water treatment system at active passenger marine terminal. Evaluated terminal needs for drainage, assessed sea level rise, and designed measures to protect from tidal and wave-generated water levels and storm water treatment controls. Prepared Storm Water Control Plan to adhere to Port of San Francisco treatment requirements. Drafted permit drawings for grading, pavement, drainage and associated construction details.

### **Hazardous Materials Study for Proposed Metal Shredder, Private Industrial Client, *Vallejo, California***

Prepared a hazardous material study for a proposed metal shredder at an existing scrap yard. Identified potential hazardous material and waste-related impacts associated with the proposed shredder and documented findings to support the City of Vallejo's preparation of a CEQA Initial Study Checklist.

### **Design of Drainage and Storm Water Controls, Private Industrial Client, *Mare Island, California***

Engineer for design of storm water controls and treatment for runoff from new development at heavily industrial facility. Performed drainage calculations, treatment calculations, and design of storm water collection and conveyance system to deliver runoff to aboveground media filter, bioretention filters, and/or bioswales. Design and Storm Water Control Plan were prepared to comply with storm water control requirements for new construction and to obtain site development permits.

### **Environmental Compliance, Private Marine Terminal, *Richmond, California***

Provided environmental regulatory support at a marine bulk terminal in Richmond for their hazardous materials/waste, storm water, industrial wastewater, and CERCLA compliance programs. Specific responsibilities included: preparing storm water pollution prevention, spill prevention (SPCC) and emergency response plans; employee training; interfacing with local regulatory agencies; preparing and submitting regulatory monitoring reports for all environmental programs; interfacing with regulatory agencies on behalf of client; and performing and/or overseeing field activities including storm water and industrial wastewater sampling, site surveys, containment cap inspections, and regular hazardous waste, SWPPP, and SPCC inspections.

### **Storm Water Treatment System Design and Construction, Private Marine Terminal, *Richmond, California***

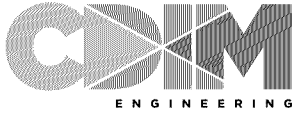
Assisted with design and installation of four storm water treatment systems to treat runoff from a 14-acre marine terminal. Treatment systems designed to remove total suspended solids, pesticides and solid-phase metals using solids settling, flocculation, and sand filtration. Performed feasibility study, pilot test, hydraulic and process engineering, and assisted the client to install and commission the systems. Prepared operation and maintenance manuals, assisted with system troubleshooting, and implemented monitoring and reporting program to comply with storm water Industrial General Permit.

### **Landfill Erosion Control Evaluation, City of Santa Cruz, *Santa Cruz, California***

Evaluated topography, drainage features, and landfill operations with respect to storm water discharge results. Determined that hillside erosion to creek was significant storm water quality issue, and evaluated best management practices (BMPs) that considered landfill location and space limitations. Developed recommendations for short term BMPs to reduce sediment discharge, and long term measures to reduce sediment discharge, including site grading modifications, modifications to down drains and roadside swales, installation of a sediment pond, and installation of a storm water treatment system for high use areas.

### **Industrial Wastewater Compliance, Bottling Group, LLC, *Hayward, California***

Project engineer for wastewater compliance at bottled water and soft drink manufacturing plant. City potable water is filtered to remove iron and manganese, and reverse osmosis reject is discharged to flood channel. Coordinated discharge sampling events, evaluated data, and prepared monitoring reports as part of NPDES permit compliance.



## Representative Projects/Experience (continued)

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### **Industrial Storm Water Services, *Multiple Facilities, California***

Project engineer to support industrial clients in the development of storm water pollution prevention plans (SWPPP) and evaluation or upgrading or best management practices. Projects include:

- *Automotive Services Marine Terminal, San Francisco*: Evaluated facility BMPs and recommended improvements, including implementation of drain inlet protection and site sweeping program. Prepared SWPPP to comply with Port of San Francisco leaseholder requirements and Phase II MS4 permit. Performed client training and storm water inspections.
- *Carbon Black Pilot Plant, Redwood City*: Evaluated plant operations, pollutant sources, and BMP options. Developed SWPPP and monitoring program, and trained client staff in its implementation.
- *Industrial Gas Facilities, Richmond/Torrance/Sacramento*: Performed pollutant source assessments for aluminum, iron, nitrate and solids and evaluated BMP implementation. Recommended improved and additional BMPs, and modification of sampling programs. Updated SWPPPs and monitoring plans, prepared evaluation reports, and trained client staff to comply with the Industrial General Permit.
- *Industrial Machinery Manufacturer, Fremont*: Evaluated facility drainage, performed pollutant source assessment for copper, and evaluated BMP implementation and sampling program. Prepared evaluation report to comply with the Industrial General Permit. Made recommendations to improve facility housekeeping and revise sampling locations to improve representativeness.

### **Construction Storm Water, San Francisco Department of Public Works, *Moccasin Falls, California***

Prepared and implemented SWPPP for construction of a new corporation yard at the SFPUC Moccasin Falls generating station. Performed sediment risk assessment and developed erosion and sediment control plan. Identified applicable storm water BMPs and developed project SWPPP. Assisted client in demonstration of LID compliance with post-construction controls per the Construction General Permit.

### **Municipal Storm Water Compliance, Coalition for a Sustainable Delta, *Stockton, California***

Reviewed compliance of City of Stockton storm water program against the Municipal Separate Storm Sewer System permit and settlement agreement with the Coalition for a Sustainable Delta. Evaluated City's discharge results, supporting inspection and maintenance documentation, and strategies for pollutant source identification.

### **Environmental Engineering, Short Line Railroad, *Richmond, California***

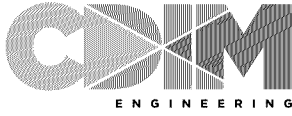
Assisted client in preparation of Community Incident Response Plan and Inland Facilities Contingency Plan for a short line railroading involving over 20 miles of tracks, four switching yards, and over 15 customer sidings. Developed procedures for responding to hazardous materials, security, and community incidents. Coordinated necessary employee training for security and hazardous material under TSA and DOT/FRA regulations, respectively. Coordinated with emergency response contactor, local fire department and CUPA to successfully execute tabletop exercise and incident drill.

### **Soil Vapor Investigation and Low Threat UST Closure, *San Francisco, California***

Evaluated existing soil and groundwater data for an underground storage tank (UST) site in San Francisco against the State Water Resources Control Board (SWRCB) Low Threat UST Case Closure Policy (LTCP). Prepared work plan for soil vapor investigation to evaluate the LTCP criteria for petroleum vapor intrusion to indoor air. Prepared request to Regional Water Quality Control Board (RWQCB) for low threat closure of site.

### **Subsurface Investigation, Former Dry Cleaning Sites, *Livermore, California***

Performed soil, soil vapor, and groundwater investigation activities at former dry cleaner facilities to characterize the impacts of chlorinated solvents in the subsurface. Coordinated and oversaw field work including soil boring advancement, soil vapor probe installation, and cone penetrometer testing. Performed soil vapor sampling and assisted in design of soil vapor extraction system.



**Representative Projects/Experience (continued)**

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**Subsurface Investigation, Former Plating Site, *Oakland, California***

Conducted a site investigation to characterize soil gas and sub-slab soil vapor contamination at a former plating facility. Responsible for all field activities, including pre-field tasks, oversight of well installations, and sampling of vapor probes and indoor air. Prepared a site investigation report and recommended a risk management plan be prepared to ensure contamination would not expose current users of the property to unacceptable health risks.

**Optimization of Perchlorate Treatment System, *Rancho Cordova, California***

Onsite engineer for a set of biological fluidized bed reactors that treated perchlorate in groundwater. Responsible for troubleshooting performance issues related to biological and mechanical issues. Specific changes executed included the addition of more nutrients for improved bacteria health, mechanical upgrades for improved fluidization, and implementation of a process control management plan to achieve higher run times.

**Middlefield-Ellis-Whisman (MEW) Superfund Site Groundwater Remediation, *Mountain View, California***

Provided engineering support for five remediation systems at this Superfund site. Worked to maintain compliance with NPDES permit for volatile organic compounds for each of the five systems. For four of the systems, maintained compliance with the City of Mountain View's Environmental Compliance Plan, Hazardous Materials Business Plan, and hazardous waste inventory. For the fifth system, worked to maintain compliance with a BAAQMD permit. Specific tasks performed included coordinating system maintenance and carbon change-outs, assisting with the collection of groundwater samples and water levels, data compilation and analysis, and technical report writing.