LAWRENCE
& ASSOCIATES
ENGINEERS & GEOLOGISTS

P22025.00

March 3, 2022

Nevada County Purchasing Division
Eric Rood Administrative Center, 1st Floor Suite 129
950 Maidu Avenue
Nevada City, CA 95959

SUBJECT: REQUEST FOR QUALIFICATIONS PROPOSAL FOR CONSTRUCTION MANAGEMENT SERVICES FOR THE MCCOURTNEY ROAD TRANSFER STATION IMPROVEMENT PROJECT, RFQ NO. 152998

Lawrence & Associates (L&A) is pleased to provide the following proposal in response to the Request for Qualifications (RFQ) for Construction Management Services for the McCourtney Road Transfer Station Improvement Project, RFQ No. 152998, as released on February 4, 2022 by Nevada County, and as amended in Addendum No. 1, dated February 23, 2022.

Four (4) printed version (1 Original and 3) copies of the proposal (including this cover sheet) are attached, including one (1) electronic copy of this proposal in a PDF format on a thumbdrive.

This proposal is in the format requested by the RFQ, including the following tab items indicated below for ease of reference:

- Tab A: Firm's Qualifications
- Tab B: Experience and References
- Tab C: Qualifications of the Team
- Tab D: Project Plan
- Tab E: Value Added
- Tab F: Required Statements
- Tab G: Exceptions

The Fee Schedule has been attached in a separate sealed envelope as requested by the RFQ.

For contact purposes, the following two individuals should be included for notification per the requirement in the RFQ, this proposal is signed by an officer of the Board of Directors for David A. Lawrence, Inc, dba Lawrence & Associates. Per California Corporations Code, §208(b), contracts signed by an officer would bind the corporation.

We look forward to working with the County on this Transfer Station project. Should you have any questions regarding this proposal, please do not hesitate to contact myself or Dave Brown at (530) 275-4800, or by email at ccoles@lwrnc.com, or dbrown@lwrnc.com.

Sincerely,

Clayton Coles, CEG
General Manager, Vice President

enc.: Proposal
Fee Schedule (sealed envelope)

TAB A
FIRM QUALIFICATIONS

Statement of Qualifications

Organization Chart – Company Level

STATEMENT OF QUALIFICATIONS

INTRODUCTION

This statement of qualifications (SOQ) has been tailored to the Request for Qualifications (RFQ) pertaining to Construction Management activities related to the McCourtney Road Landfill Transfer Station improvement project (Project) as requested by Nevada County. For ease of review, this SOQ has been greatly reduced from the overall services and qualifications of the Lawrence & Associates (L&A) team and intended to be concise and focused on applicable and key qualifications pertaining specifically to the Project.

The L&A team includes Lawrence & Associates as the prime contact and construction/project management for the County, and then will also include NV5 as a subconsultant to assist with on-site monitoring and coordination aspects of the project. This Statement of Qualifications (SOQ) includes pertinent information related to both firms.

The Project scope of services is described in the RFQ, generally in section 6.0 Scope of Services, including subitems 6.1 a. through i. (Contract Administration), and subitems 6.2 a. through n. (Construction Inspection and Monitoring services), which was further expanded to include additional sub-parts 6.2 o. through w. (additional construction management services) as incorporated by Addendum 1.

The RFQ, in item 9.3, specifically asks for *a statement of the firm's qualifications for performing requested consulting services*. It is noted that construction of solid waste facility projects, including transfer stations, scales, tipping floors, pushwalls, and drainage components, is unique to the solid waste industry and does not necessarily correlate to (non-solid waste related) typical site and building work. As such, the project oversight and ultimately construction management, requires a unique level of support through construction to accommodate both site- and industry-specific construction and operational considerations. At L&A, we specialize in solid waste related infrastructure and facilities, including conceptual layouts, design, permitting, construction and project management, client representation, and we are often the central point of contact between the construction company, engineering company, specialty inspection company, inspection agencies, and client, during construction. This level of involvement, from concept to concrete, and continued through operations, qualifies L&A uniquely to assist in more than just technical review of documents, rather to also include a practical review for consideration by the County.

The following pages include a brief overview on the L&A team, consisting of L&A staff and NV5 staff. For construction management purposes, L&A is the prime consultant and NV5 would be a sub-consultant. A matrix of responsibilities is attached at the end of this section, including an organization chart. Specific company size during the past 5 years, as requested by the RFQ, is contained within the following overview of the two companies. It is further added that L&A and NV5 have worked collaboratively on numerous projects over years, including prior work at the McCourtney Road Landfill and recent construction of the Glenn County Transfer Station. Our team works well together to provide high quality services and prompt communication to our clients.

BACKGROUND, LAWRENCE & ASSOCIATES

Lawrence & Associates (L&A) was founded in 1976 in Redding California, by David A. Lawrence and was subsequently purchased in 1996 by the key employees. Our company began as a groundwater hydrology firm, and all of our work has grown out of that discipline. Our broad expertise now includes landfill design, permitting, monitoring, and operation, landfill-gas system design and operation, solid-waste transfer station design, materials recovery facility (MRF) design, composting facility design, large and small water-supply development and evaluation, petroleum-tank and service-station design and remediation, and civil engineering related to site development, water supply, solid waste, waste water disposal, storm-water permitting and control and other infrastructure. Our expertise employed on these types of work is interrelated and provides a strong foundation for all environmental engineering projects. We have one office located at 3590 Iron Court, Shasta Lake, California, 96019. The work for this project will be performed out of that office.

L&A is a full-service firm, providing engineering and consultant support and services, in addition to litigation support, client representation, and agency coordination. L&A also provides oversight of complex permitting and construction projects, acting as overall project manager and client advocate. Services specific to landfills, waste disposal, and recycling are listed herein.

L&A currently provides services to public and private organizations from the Oregon border to as far south as Mammoth in the eastern Sierra, Avenal in the Central Valley and San Luis Obispo on the Central Coast. We provide consulting to many of the solid-waste agencies in far northern California including Del Norte, Siskiyou, Modoc, Humboldt Waste Management Authority, Trinity, Shasta, Tehama, Glenn, and Nevada Counties. We also provide services to the City of Redding, City of Yreka, City of Ukiah, and other Cities in the region.

OVERVIEW OF SERVICES

Permitting and Regulatory Compliance

L&A provides a wide variety of permitting and regulatory compliance tasks to solid waste and recycling clients:

- California Environmental Quality Act (CEQA) documents (including Initial Studies, Mitigated Negative Declarations, and Environmental Impact Reports, etc.).
- Joint Technical Documents (JTD).
- Design Reports.
- Preliminary and Final Closure Plans.
- Reports of Waste Discharge (ROWD).
- Reports of Facility Information (RFI) and Transfer/Processing.
- AB 32 air-quality reporting,
- Title V air quality permitting.
- Federal Greenhouse gas monitoring and reporting.
- Spill Prevention, Control, and Countermeasure Plans (SPCC).

- NPDES permitting.
- General Industrial Stormwater permitting and training.
- Local permitting: Use Permits, Grading and Building Permits.
- SMARA Permitting.

PROJECT AND CONSTRUCTION MANAGEMENT

L&A is a multi-disciplinary firm that is accustomed to being the overall Project Manager and Project Engineer for most of our clients. This includes being the main contact for other sub-consultants, contractors, public agencies, and having the ability and follow-through to see projects from conceptual design through permitting and bidding, and ultimately through construction.

In many cases, L&A provides management during construction, including bid package preparation, bidding, bid summaries, contractor oversight, client representation, facilitating progress meetings, providing construction quality assurance (CQA) services, and assisting with project closeout as it relates to various permitting requirements. For solid waste facilities, this often includes modifications to the Solid Waste Facilities Permit, update of the Transfer Processing Report, or preparation of the construction quality reports or certifications of closure, depending on the facility.

Transfer Station and Recycling Facility Permitting and Design

L&A has designed numerous waste handling facilities ranging from small direct transfer and satellite stations to large volume transfer stations. We also have experience in specifying and incorporating sorting lines, bailers, compactors, and other recycling equipment to recycling and material recovery facilities (MRF).

In the last few years, L&A has been the design and project engineer for two new transfer stations, including:

- Mammoth Lakes new Transfer Station (2021 and ongoing construction, L&A is the project engineer and project manager, including client representative through construction).

- Glenn County new Transfer Station (2018-2019). Provided the design, was the primary contact for the multi-disciplines through permitting and construction, coordinated directly with the County and Contractor (often liaison for the County).

Additionally, there are several existing transfer stations with L&A as the design engineer, providing support for site specific improvements, including:

- Humboldt Waste Management Agency, Eureka Transfer Station (tipping floor repair, evaluation of the household hazardous waste area, master planning, stormwater improvements, scale booth evaluation, scale pit and load sensor evaluation).

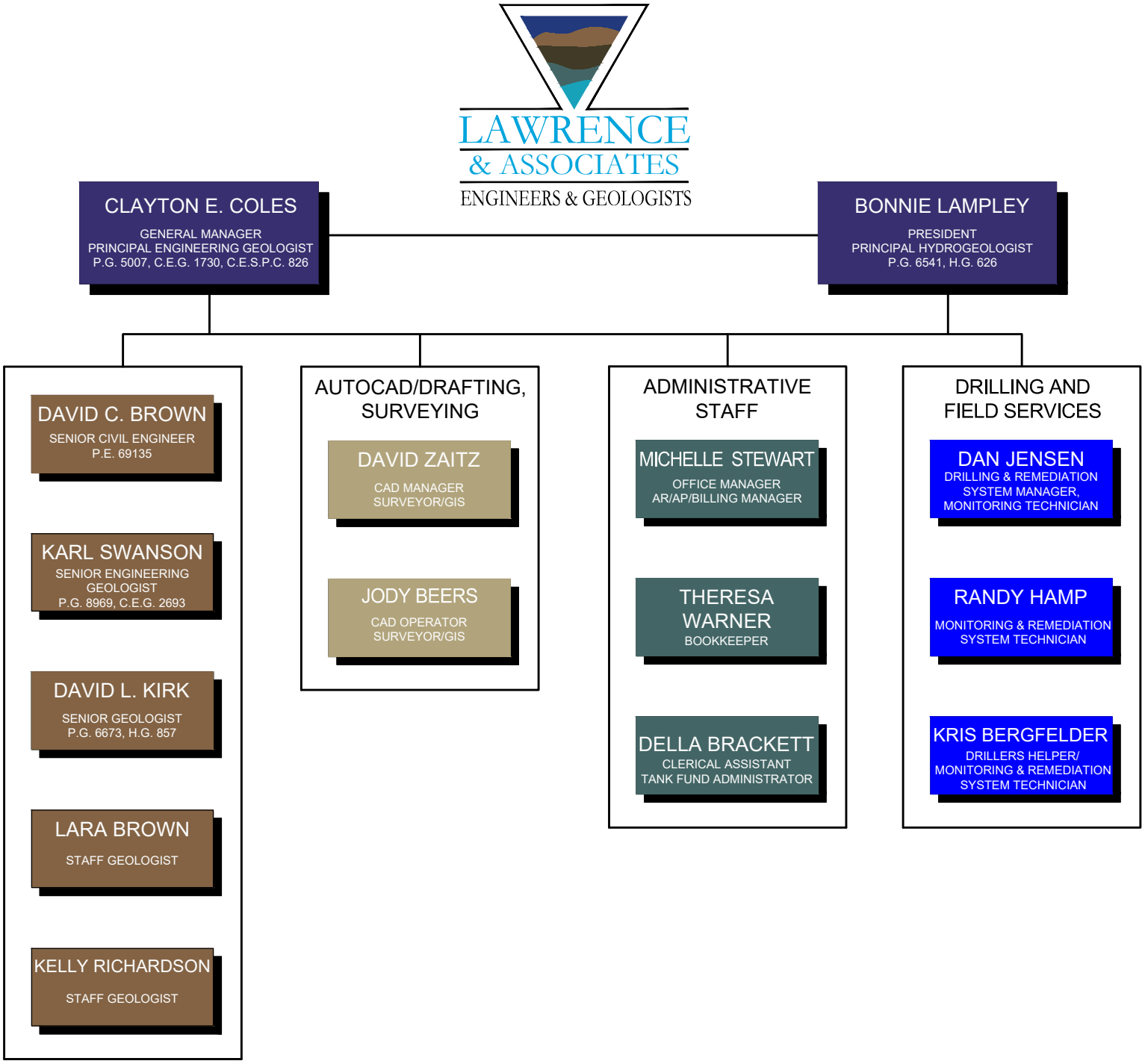
- Del Norte County Transfer Station, Crescent City, CA (tipping floor repair).

- Oberlin Transfer Station, Yreka, CA (new canopy, evaluation and design of stormwater improvements, 90% design for new transfer station).
- Black Butte Transfer Station, in Mt. Shasta, CA (Provided permitting and construction management).
- Cold Canyon Materials Recovery Facility (MRF), San Luis Obispo (building expansion design and bidding, fire system improvement coordination, master planning, permitting support).
- Tehama/Red Bluff Materials Recovery Facility, near Red Bluff, CA (provide ongoing consulting including coordinating baler and sorting conveyor improvements).

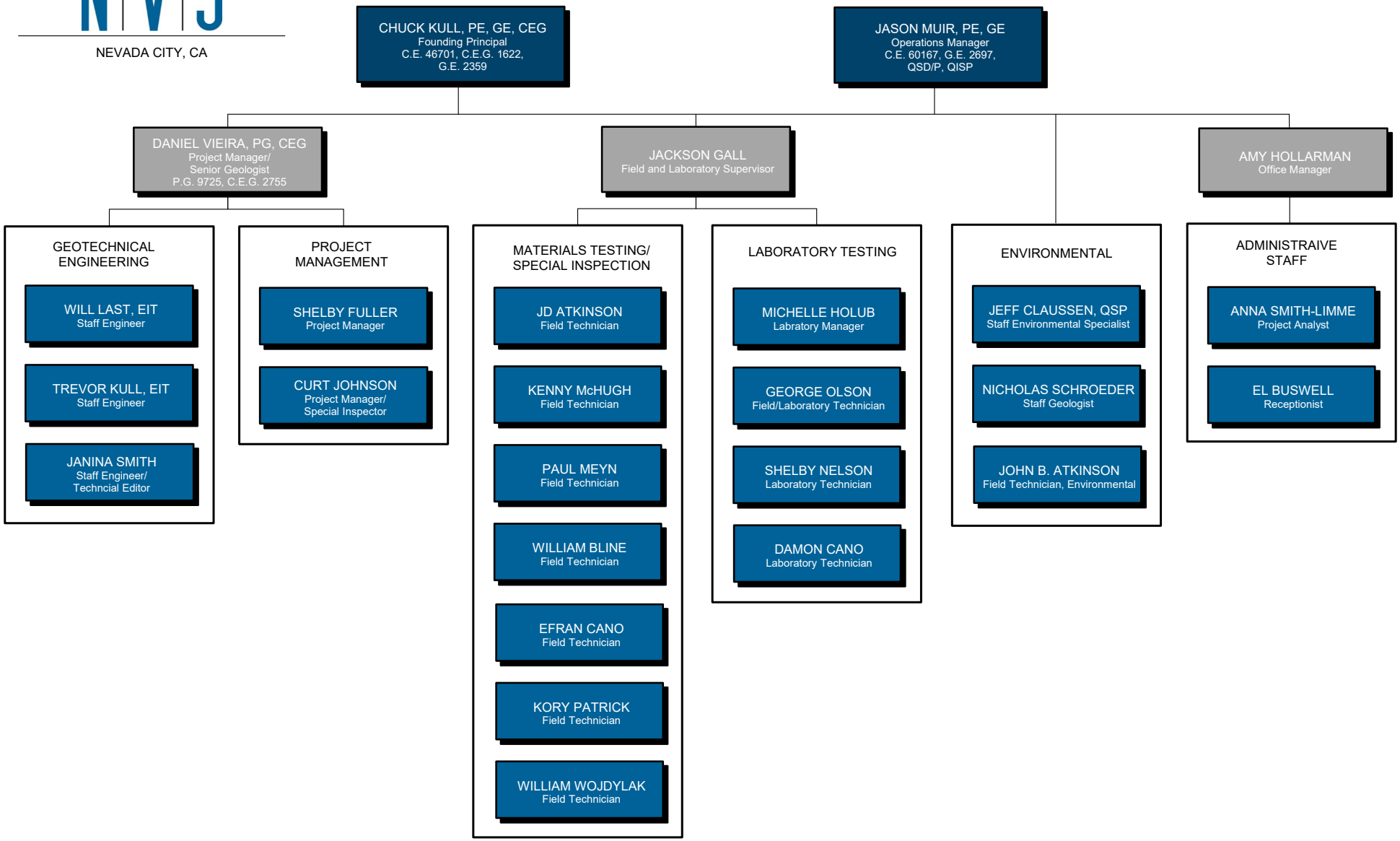
BACKGROUND, NV5

NV5 specializes in geotechnical engineering, environmental engineering, and construction quality assurance (CQA), including materials testing and inspection for public and private projects. Our CQA services include field, laboratory and source materials testing and inspection. Our technicians and laboratories proudly hold certifications from the California Department of General Services Division of the State Architect (DSA), Caltrans, American Association of State Highway and Transportation Officials (AASHTO), California Office of Statewide Health Planning and Development (OSHPD) and the Occupational Health and Safety Administration (OSHA).

NV5 has provided engineering and inspection services to the County of Nevada since 1995. Our services have included geotechnical and environmental engineering, materials testing, inspection, and storm water compliance (SWPPP) services for public works projects. NV5 also currently provides engineering, permitting, monitoring and compliance services for the Nevada County McCourtney Road Landfill. Services include engineering, construction management (CM) and CQA for facility improvements, cap repairs, landfill gas extraction system improvements, leachate management improvements, pump station modifications and post-closure monitoring and maintenance of the facility.


LAWRENCE
& ASSOCIATES
ENGINEERS & GEOLOGISTS
CLAYTON E. COLES
GENERAL MANAGER
PRINCIPAL ENGINEERING GEOLOGIST
P.G. 5007, C.E.G. 1730, C.E.S.P.C. 826
BONNIE LAMPLEY
PRESIDENT
PRINCIPAL HYDROGEOLOGIST
P.G. 6541, H.G. 626
DAVID C. BROWN
SENIOR CIVIL ENGINEER
P.E. 69135
KARL SWANSON
SENIOR ENGINEERING GEOLOGIST
P.G. 8969, C.E.G. 2693
DAVID L. KIRK
SENIOR GEOLOGIST
P.G. 6673, H.G. 857
LARA BROWN
STAFF GEOLOGIST
KELLY RICHARDSON
STAFF GEOLOGIST
AUTOCAD/DRAFTING, SURVEYING
DAVID ZAITZ
CAD MANAGER
SURVEYOR/GIS
JODY BEERS
CAD OPERATOR
SURVEYOR/GIS
ADMINISTRATIVE STAFF
MICHELLE STEWART
OFFICE MANAGER
AR/AP/BILLING MANAGER
THERESA WARNER
BOOKKEEPER
DELLA BRACKETT
CLERICAL ASSISTANT
TANK FUND ADMINISTRATOR
DRILLING AND FIELD SERVICES
DAN JENSEN
DRILLING & REMEDIATION SYSTEM MANAGER, MONITORING TECHNICIAN
RANDY HAMP
MONITORING & REMEDIATION SYSTEM TECHNICIAN
KRIS BERGFELDER
DRILLERS HELPER/ MONITORING & REMEDIATION SYSTEM TECHNICIAN

NEVADA CITY, CA



TAB B
EXPERIENCE AND REFERENCES

EXPERIENCE AND REFERENCES

EXPERIENCE

Lawrence & Associates (L&A) began in 1976 as a groundwater hydrology firm, and all of our work has grown out of that discipline. Our broad expertise now includes landfill design, permitting, monitoring, and operation, landfill-gas system design and operation, solid-waste transfer station design, materials recovery facility (MRF) design, composting facility design, large and small water-supply development and evaluation, petroleum-tank and service-station design and remediation, and civil engineering related to site development, water supply, solid waste, waste water disposal, storm-water permitting and control and other infrastructure. In all of these project types and disciplines, L&A has provided project management through permitting and in many cases, through construction (as applicable).

The McCourtney Road Transfer Station (MRTS) improvement project includes key elements of design, construction, and operations that would benefit from more than solely a construction management experience. The L&A team brings this experience (discussed in Tab E, Value Added), and has been observed by our other Clients in recent years, including the Glenn County Transfer Station (2018-2019) and the Mammoth Lakes Transfer Station (currently in construction) as direct examples of similar projects. Both of these are similar to the MRTS project, including:

- Development/re-development at an existing solid waste facility.
- Design, permitting, and construction of a new transfer station.
- Bidding, from preparation of bid packages, to responding to questions, hosting pre-bid meetings, and summarizing bids.
- New scales, new scalehouse, coordination with scale vendor supplier and facility software (wasteworks or other).
- Continued operation of the existing transfer station during construction.
- Managing change orders to a minimum.
- Site specific considerations, soils, rock, snow.

Table B-1 following this text and references, lists the solid waste facilities that Lawrence & Associates has worked on in the past. Relevant work to this project (summarized) includes:

- L&A has provided services for 74 landfills, waste, or recycling facilities since 1985.
- We currently provide services for 44 landfills, waste, transfer station, or recycling facilities.
- We have developed permitting documents for at least 8 transfer/processing facilities.

References are shown on the next two pages, including those for L&A, and our sub-consultant, NV5.

REFERENCES – LAWRENCE & ASSOCIATES

Firm Name:	Glenn County Public Works Agency
Contact Person:	Talia Richardson, Deputy Director Public Works
Firm Address:	777 North Colusa Street, PO Box 1070, Willows CA 95988
Contact Phone Number	530-934-6530
Email	trichardson@countyofglenn.net
Name of Project(s)::	Glenn County Transfer Station, 2017-2019 New full transfer station, scales, and scale booth. Services included design, permitting, bidding, contractor coordination, RFI preparation, coordination for occupancy, and closeout, including TPR update. Glenn County Landfill Closure, 2018-2021 Landfill closure – 2 year project and PM oversight. Services included design, permitting, bidding, agency coordination, RFI preparation, change order processing, invoice review, quantity takeoff's, and closeout (asbuilts and certification of completion).

Firm Name:	Bishop and Mammoth Disposal Company
Contact Person:	Glen Long, General District Manager
Firm Address:	100 Sunland Indian Reservation Road Bishop, CA 93514
Contact Phone Number	(575) 263-3267 cell
Email	glong@wasteconnections.com
Name of Project(s):	Mammoth Disposal Transfer Station, 2020 to current. New transfer station while keeping existing transfer operational. Services include design, permitting, bidding, construction coordination and management.

Firm Name:	Siskiyou County
Contact Person:	Joy Hall, Interim Public Works Director
Firm Address:	1312 Fairlane Rd, Yreka, CA 96097
Contact Phone Number	(530) 842-8272
Email	jdhall@co.siskiyou.ca.us
Name of Project(s)::	Siskiyou County, Yreka Landfill, Black Butte landfill and other closed landfills. Services including consulting, design, and project management. Yreka Transfer Station – new canopy (2017-2018). Services included design, bidding, coordination with County and contractor during construction, and asbuilts.

MCCOURTNEY ROAD LANDFILL

NEVADA COUNTY, CA

NV5 provides engineering, permitting, monitoring and compliance services for Nevada County's McCourtney Road Landfill, a closed solid waste facility and active transfer station. Services include engineering, CM and CQA for facility improvements, including cap repairs, landfill gas extraction system improvements, leachate management improvements, pump station modifications and post-closure monitoring and maintenance of the facility.

NV5 prepared a Report of Waste Discharge and negotiated a reduction in leachate and groundwater monitoring during update of Waste Discharge Requirements, and prepared a Final Closure Plan for surface impoundment and a Post Closure Maintenance Plan for landfill units. NV5 oversees landfill settlement surveys and prepared liner repair plans and specifications to address settlement issues. We maintain the facility's detection monitoring program and corrective action program considering the interaction with landfill gas and leachate constituents in a fracture-flow environment. We performed hydrogeologic evaluation regarding drawdown in adjacent wells resulting from groundwater extraction at the facility and served as the project engineer for closure of two landfill units.

NV5 services for this project included landfill engineering and support services; management of the facility monitoring program; engineering design, construction management and CQA for landfill post-closure maintenance and improvements; permitting, compliance reporting and regulatory liaison.

CLIENT
Nevada County Department of Public Works

PROJECT DURATION
2014 - Present (Engineering Services)
1996 - Present (Monitoring and Compliance Services)

NV5 STAFF INVOLVED
Jason Muir, PE, GE
Chuck Kull, PE, GE
Heidi Cummings, PG
Don Olsen, PE, PG, CHG, CEG

SERVICES PROVIDED
- ✓ Engineering design for facility improvements
- ✓ Construction management
- ✓ Construction quality assurance
- ✓ Permitting
- ✓ Permit compliance
- ✓ Preparation of RWD, WQPS, FCP and PCMP
- ✓ Monitoring and reporting
- ✓ Groundwater monitoring system design
- ✓ Landfill gas system design and maintenance
- ✓ Storm water (SWPPP) compliance




NEVADA COUNTY OPERATIONS CENTER

GRASS VALLEY, CA

During development of the 33,000-square-foot (SF) Nevada County Operations Center (NCOC), NV5 performed geotechnical engineering, environmental engineering and construction quality assurance (CQA) including construction materials testing and special inspection. NCOC was constructed to bring transit and road divisions into a single location and consolidate fleet maintenance. Geotechnical engineering services addressed undocumented fill, organic fill areas and steep slopes, foundation and retaining wall design criteria, grading and paving recommendations, and subsurface disposal design. NV5's CQA services included earthwork testing and observation, sampling and testing concrete, inspection of field and shop welding, high strength bolts, masonry and hot mix asphalt (HMA).

NV5 also performed hazardous materials characterization, obtained approval from the California Department of Toxic Substances Control (DTSC). The California Department of Toxic Substance Control (DTSC) issued a "No further Action" letter to address elevated metals concentrations remaining in place in soil in the northern edge of the development area. NV5 also prepared a Storm Water Pollution Prevention Plan (SWPPP) and performs monitoring under the Industrial General Permit.

The completed NCOC includes a 5-acre laydown yard; parking for heavy equipment and transit fleet, vehicle wash building; sand barn; administration building, crew rooms and fleet maintenance operations; a flatbed pull-through bay; 12 maintenance bays; 6,000-SF equipment platform; and roof structure for future photovoltaic array.

CLIENT
County of Nevada

PROJECT DURATION
2019-2021

KEY NV5 STAFF
Jason Muir, PE, GE, QSD
Chuck Kull, PE, GE, CEG
Shelby Fuller
Curt Johnson

SERVICES PROVIDED
- ✓ Geotechnical and Geologic Hazards Evaluation
- ✓ Geotechnical Design
- ✓ Construction Quality Assurance
- ✓ Material Testing
- ✓ Special Inspection
- ✓ Abandoned Mine Characterization
- ✓ Hazardous Materials Site Investigation and DTSC Approval
- ✓ Storm Water Pollution Prevention Plan (SWPPP)

REFERENCE:
Justin Drinkwater, Director of Facilities Management
530 470-2637
Justin.Drinkwater@co.nevada.ca.us

NV5 FEE: $133,341

TOTAL CONSTRUCTION COST:
$14M

Table B-1 - Summary of L&A's Permitting, Surface Water, Recycling & Transfer Stations, and Landfill Projects
(bold name indicates active project)

Site	Subchapter 15 Monitoring Report	SWAT Report	Air SWAT	RDSI / JTD	Master Plan	Design New Cell(s)	Closure/ Postclosure Plan	ROWD / Statistics	Sequencing / Operations Plans	RSI / RFI Transfer Station Design	Permit Coordination	Landfill Gas System Design & Inspection	Liner/Cover Design & Inspection	Monitoring – Groundwater	Monitoring – Landfill-Gas	Monitoring – Storm-Water	Field Maintenance	SWPPP / SPCC Plans and Storm-Water Design	Pond Design	Cost Estimating	Construction/ Project Management	Structure Design	CQA Testing	Sorting Line Recycling Facility Design	AB 32 Reporting	CEQA / NEPA Planning	Peer Review
Recycling and Transfer Facilities:																											
Amador Disposal, Arnold Direct Transfer Facility										■										■		■					
Amador Disposal, Buena Vista, Amador County																		■		■	■					■	
Amador Disposal, Angels Camp, Calaveras County																				■		■					
Black Butte Transfer Station, Siskiyou County										■	■									■	■					■	
Compost Solutions, Glenn County				■							■		■	■				■									
Cold Canyon Landfill Processing Facility										■	■									■							
Del Norte County Transfer Station										■										■		■		■			
El Camino Disposal, El Dorado County										■												■					
El Dorado Disposal, El Paso, Texas										■										■	■	■		■			
Glenn County Transfer Station				■						■	■									■				■			
Green Team Transfer Facility, San Jose																				■							
Greenwaste of Tehama County																		■									
Happy Camp Transfer Station, Siskiyou County																		■									
Hawthorne Street Transfer Station, Eureka, Humboldt County										■								■		■							
Jack Spence, Composting Facility, Orland																		■						■	■		
Jack Spence Compositing Facility, Sutter																		■						■	■		
Madera Disposal, Madera County																				■							
Mammoth Disposal, Mono County										■										■				■		■	
Sonoma Disposal Sites																				■							■
Tehama County / Red Bluff Landfill MRF										■	■									■		■		■		■	
Tulelake Transfer Station, Siskiyou County																		■									
Weaverville Transfer Station, Trinity County										■	■									■	■	■		■		■	
Oberlin Road (Yreka) Transfer Station, Siskiyou County										■	■									■	■	■				■	
Landfills:																											
Alturas Landfill, Modoc County	■													■													
Amador Disposal, Amador County																		■									
American Forest Products, Martell Landfill, Amador County	■	■	■											■													
Anderson Landfill, Inc., Shasta County			■	■			■	■			■	■		■	■	■	■	■		■	■						
Aubrey Ridge Landfill, Sierra Pacific, Shasta County	■	■	■				■						■	■							■						
Avenal Landfill, Kings County						■			■	■	■		■	■						■	■						■
Buckeye Landfill, Shasta County												■								■							
Benton Landfill, City of Redding	■	■	■	■			■	■			■	■	■	■	■						■	■	■		■		
Black Butte Landfill, Siskiyou County	■	■					■	■	■	■	■		■	■	■						■					■	
Crescent City Landfill, Del Norte County										■				■													
Cedarville Landfill, Modoc County														■													
Cold Canyon LF, Waste Connections, San Luis Obispo County				■	■		■		■			■	■					■	■	■	■					■	
Colfax (City of) Landfill, Placer County							■	■					■	■												■	
Collins Pine Company Woodwaste Landfill, Plumas County	■	■	■				■							■							■						
Cummings Road Landfill, Humboldt County				■			■	■			■	■	■					■		■							■
Cummings Road Burn Dump, Humboldt County				■			■	■			■		■					■		■	■					■	■
Dersch Road Landfill, Simpson Paper, Shasta County	■	■	■				■	■		■	■	■	■	■	■		■				■						
Eagleville Landfill, Modoc County															■												

Summary of L&A's Recycling & Transfer Stations, Landfill, & Surface-Water Impoundment Projects (Continued)

Site	Subchapter 15 Monitoring Report	SWAT Report	Air SWAT	RDSI / JTD	Master Plan	Design New Cell(s)	Closure/ Postclosure Plan	ROWD / Statistics	Sequencing / Operations Plans	RSI / RFI Transfer Station Design	Permit Coordination	Landfill Gas/Leachate System Design &	Liner/Cover Design & Inspection	Monitoring -- Groundwater	Monitoring – Landfill-Gas	Monitoring – Storm-Water	Field Maintenance	SWPPP / SPCC Plans and Storm-Water Design	Pond Design	Cost Estimating	Construction/ Project Management	Structure Design	CQA Testing	Sorting Line Recycling Facility Design	AB 32 Reporting	CEQA/ Planning	Peer Review
Landfills (continued):																											
Eastern Regional Landfill, Placer County							■	■				■	■	■	■												
Forest Hill Landfill, Placer County							■	■					■	■													
Fort Bidwell Landfill, Modoc County														■													
Glenn County Landfill, Glenn County				■	■	■	■				■									■							
Hirschdale Landfill, Nevada County																											
Happy Camp Landfill, Siskiyou County							■							■				■									
Intermountain Landfill, Burney, Shasta County			■																								
John Smith Road Landfill, Waste Connections/San Benito County				■	■	■			■		■		■								■						
Lake City Landfill, Modoc County														■													
Larzabal Landfill, Sierra Pacific, Tehama County					■	■			■					■													
McCloud Landfill, Siskiyou County							■	■				■	■	■													
McCourtney Road Landfill, Nevada County												■			■												
Meadow Vista Landfill, Placer County							■	■					■	■	■						■	■					
Mt. Shasta WWLF, P&M Cedar, Siskiyou County	■	■	■				■							■													
Old Cedarville Landfill, Modoc County														■													
Orland Mud Dump, Sulara Enterprizes	■			■			■	■						■							■		■				
Posco Landfill (sub to RMC)												■								■	■						
Potrero Hills Landfill												■					■										
Rogers Creek Landfill, Siskiyou County																	■	■									
Shasta Lake WWLF, Sierra Pacific, Shasta County								■						■				■									
Sonoma Central Landfill																											■
Tehama County/City of Red Bluff Landfill/MRF	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■			■	■	■	
Twin Bridges Landfill, Shasta County				■		■	■	■					■	■							■						
Tulelake Landfill, Siskiyou County													■	■	■			■			■						
Ukiah (City of) Landfill, Mendocino County												■			■												
U.S.F.S Shasta Trinity small landfills, Trinity County	■											■						■									
Cold Canyon LF, Waste Connections, San Luis Obispo County				■	■	■	■	■	■		■	■						■	■	■	■						
West Central Landfill, Shasta County								■							■								■				
Weaverville Landfill, Trinity County				■		■	■	■	■		■	■	■	■	■			■	■	■	■					■	
Western Regional Landfill, Western Placer WMA					■	■	■	■	■	■	■	■	■	■	■						■	■					
Yreka Landfill, Siskiyou County	■			■	■	■	■	■	■	■			■	■	■	■		■		■	■				■	■	
Ponds & Reservoirs:																											
Cold Canyon Module 11A Storm Water Basins																			■								
Cold Canyon Compost Facility, San Luis Obispo County																			■								
Eagle Lake (Spaulding), Lassen County								■					■	■													
Fort Bragg (City of) Water Supply Reservoir													■						■	■	■						
Land O' Lakes, Glenn County													■	■					■	■	■						
Mountain of Attention Sanctuary, Lake County													■	■					■								
Rio Alto Water District/Lake California, Tehama County																			■								
Three Mountain Power, Shasta County													■	■					■								

TAB C
QUALIFICATIONS OF TEAM

Team Qualifications Summary

Key Personnel Resumes

Organization Chart – Project Level

Team Responsibility Matrix

TEAM QUALIFICATIONS

This section presents a brief summary of the overall team, comprising of Lawrence & Associates, and NV5, and their respective key team members that would be assigned to this project. For this section, a company profile, followed by the Key Personnel, is shown, followed by an organizational chart for the overall firms of Lawrence & Associates and NV5, followed by a specific organizational chart for the project and team involvement matrix.

COMPANY PROFILE

Lawrence and Associates (L&A) is a private consulting firm located in Shasta Lake, California. L&A provides civil engineering, hydrogeology, and engineering geology services. Our geographical service area includes all of California, Southern Oregon, and Northern Nevada. We have been in business since 1976, and our client base includes both municipal and private entities. L&A currently has maintained a staff of 15 the past 5 years, including 6 licensed professionals, and 6 staff level field technicians, engineers, and CAD designers, with the remainder as administration and support staff. For solid waste facility design, permitting, construction, and operations, the following three key personnel would be involved as primary contacts and are supported by field technicians, staff engineers, and administration staff to assist in minor contract administration tasks.

KEY PERSONNEL

Mr. Clayton Coles: *CA Professional Geologist (PG) 5007, CA Certified Engineering Geologist (CEG) 1730, and Certified Professional Soil Erosion and Sediment Control Specialist 826 (inactive). CA Qualified Stormwater Pollution Prevention Plan Developer (QSD) No. 00182.* General Manager and Principal Engineering Geologist of L&A. Mr. Coles is responsible for technical management and oversight of all engineering, geotechnical, environmental, and construction-management projects. He also provides expert testimony and technical support during litigation. Mr. Coles has over 30 years of experience in solid-waste facility design, permitting, construction management, and operation, and is an expert on new waste management units, liners, covers, monitoring networks, and landfill-gas monitoring and control systems. He has assisted clients with project-scoping, conceptual planning, grant proposals, CEQA compliance, permitting, project and construction management, and cost estimating for projects valued over several million dollars. Mr. Coles provided these services for Trinity and Siskiyou Counties during construction of office/shop complexes, juvenile detention facilities, and senior housing projects; he has been the project manager for design, bidding, and construction; designer, and/or contract administrator for the Black Butte Transfer Station and landfill closure (Siskiyou), and the Tehama County/City of Red Bluff Landfill, Phase 2, Cells 1 and 1A liner systems, Avenal Landfill Phase 3A, Liner System, John Smith Road Landfill, Modules 3b through 8,

Cold Canyon Landfill Module 11A, and other projects. Mr. Coles also specializes in design implementation of storm-water best management practices (BMPs) for industrial sites including transfer stations and landfills, including sedimentation basin storm-water conveyance design. Mr. Coles has also developed numerous geologic reports for timber harvest plans in northern California.

Mr. Dave Brown: *CA Professional Engineer (PE) 69135, CA Qualified Stormwater Practitioner (QSP) California Qualified Stormwater Pollution Prevention Plan Developer (QSD) No. 00342.* Mr. Brown is Senior Civil Engineer at L&A and manages civil and environmental engineering projects within our Engineering division. Mr. Brown specializes in environmental and storm water compliance, solid waste facility (transfer station) design, and project/ construction management, including Agency coordination, resolving contractor/construction related issues, and Client advocacy. While at L&A, Mr. Brown has acted as project manager for civil engineering projects ranging from design, permitting, and construction oversight of the Glenn County Transfer Station, completed in 2019, and the current construction of the Mammoth Disposal Transfer Station in Mammoth Lakes, CA. Additionally, Mr. Brown has been the project manager and designer for a variety of facilities, including the Yreka Landfill Transfer Station canopy project, high strength flooring repairs at Del Norte Transfer Station and Humboldt Waste Management Transfer Station, Potrero Hills Landfill Office Complex, Tehama County/City of Red Bluff Landfill storm-water improvements, design of a storm-water storage and pumping system for the Sierra Pacific Windows Plant in Red Bluff, updates to SPCC and SWPPPs and overall storm water consulting for the Humboldt Redwood Company, and stormwater improvement preparation and master planning for the Humboldt Waste Management Authority in Eureka, California. Mr. Brown has recently acted as a technical expert in litigation regarding the California Industrial General Storm-Water Permit and has reviewed/designed (BMPs) and provided SWPPP training for several sites in northern California in addition to conducting assessments and preparing technical reports related to industrial storm water.

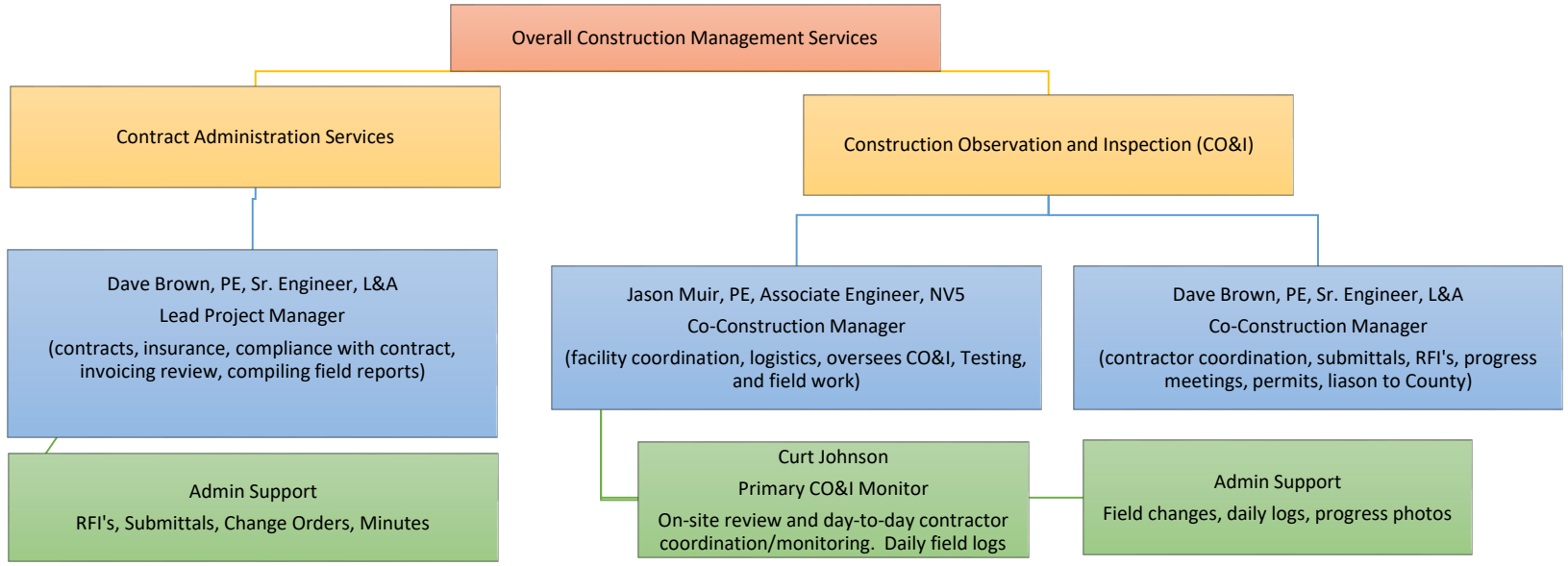
Mr. Brown brings 29 years of experience in engineering, consulting, and project management related to site development and redevelopment, permitting, regulatory navigation, and client communication.

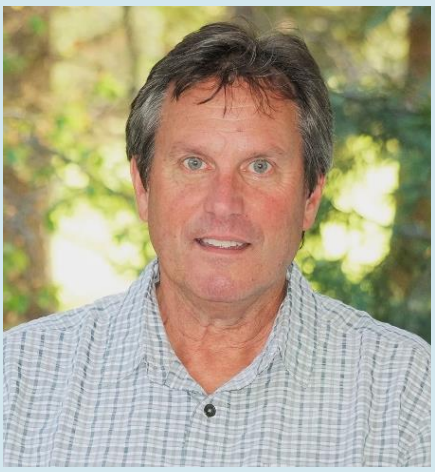
Mr. Karl Swanson: *CA Professional Geologist (PG) 8969 and CA Certified Engineering Geologist (CEG) 2689.* Mr. Swanson is a Senior Engineering Geologist at L&A with an emphasis on Engineering Geology. His work includes geologic reports for timber harvest plans, design of landfill liner systems and closure caps, monitoring and reporting for environmental compliance, landfill-extraction system design. Mr. Swanson also has extensive experience in hydrologic (wetlands) evaluation of irrigation effects, preliminary investigations for decentralized wastewater treatments for proposed developments, aquifer test setup and data evaluations for water supply studies, project management of a non-stormwater discharge treatment system, and groundwater monitoring, reporting, and remediation project management for several leaking UST sites. Mr. Swanson was recently the project manager for the Weaverville Landfill closure cap construction project, Tehama/Red Bluff Landfill Phase 1 closure cap, and the Tehama County/Red Bluff Landfill Phase 2, Cell 2A, 2B and 2C liner projects. Mr. Swanson has also developed multiple geologic reports for timber companies in northern California.

Overall Construction Management Team Responsibility for the McCourtney Road Transfer Station improvement project

This matrix is an estimate at time of RFQ and intended to provide an overall estimation of team involvement throughout the overall project. The team may be adjusted based on contractor workload and needs of the facility.

	PRE-BID AND BIDDING							CONSTRUCTION - SITE WORK									FINAL PERMITTING / CLOSEOUT			
	Detailed review of Bid Docs	Finalize Bid Package	Notice of Bid	Pre-Bid Site Meeting	Respond to RFI's	Summarize Bids	Notice to Proceed/Award	Contract Admin	Contracts/Insurance	Pre-Construction Meeting	Project Submittals	Sitework and Utilities	Slab (and cure)	Vertical Construction	Finishes	Site Paving	Punchlist / Compile Logs	Final Permitting	Provide Red-lines to HDR	Closeout
Dave Brown, P.E (L&A)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clayton Coles, C.E.G. (L&A)	●			●	●						●						●			
Karl Swanson, C.E.G. (L&A)									●			●							●	
L&A - Staff Engineer/Geologist Support					●			●		●	●	●		●		●	●	●	●	
L&A - Admin Support		●			●	●		●			●							●	●	
Jason Muir, P.E. G.E. (NV5)	●	●		●	●					●		●	●	●	●	●	●		●	●
Chuck Kull, P.E., G.E. (NV5)	●							●	●								●			
Curt Johnson, Field Manager, Special Insp.				●						●		●	●	●		●	●		●	
NV5 - Admin Support								●									●			





GEOTECHNICAL ENGINEERING

Nevada City, CA
Chuck.Kull@NV5.com
530.478.1305

EDUCATION

M.S. Civil Engineering, San Jose State University
B.S. Engineering Geology, San Jose State University

REGISTRATIONS

Professional Engineer, CA No. 46701
Geotechnical Engineer, CA No. 2359
Professional Geologist, CA No. 5159
Certified Engineering Geologist, CA No. 1622
Professional Engineer, Oregon, Washington, Nevada, Colorado, Arizona, and Hawaii

EXPERTISE

Deep foundation design
Tie-back retaining wall design
Rock bolt design
Shoring design
Construction-phase project management
Reinforced earth retaining walls with Geogrid Geosynthetics
Earth dam and spillway design
Pavement Design
Bridge Foundations

AFFILIATIONS

Geoprofessional Business Association
California Geotechnical Engineers Association
Association of Engineering Geologists

CHUCK KULL, PE, GE, PG, CEG

Principal Engineer
Principal in Charge and Project Manager

Mr. Kull, PE, GE, PG, CEG, has designed and overseen geotechnical engineering projects throughout California since 1984 and is also licensed in Nevada, Oregon, Washington, Arizona, Hawaii and Colorado. His professional engineering background includes transportation and infrastructure design for the public and private sector; forensic engineering and disaster mitigation; mining and reclamation; shoring and tie-back design; geo-structural design and rock bolting for large penstock thrust blocks, bridge abutments, tunnels and towers; and earthwork grading projects in challenging soil conditions.

Mr. Kull excels at alternative design approaches to mitigate challenging site conditions. He has designed and overseen the construction of California Department of Water Resources Division of Safety of Dams (DSOD) earth dams including seepage and slope stability analysis, engineering design, borrow material selection and construction quality assurance.

Mr. Kull has assisted the California Board for Professional Engineers, Land Surveyors and Geologists throughout much of his career. He is currently involved with test development, grading, and enforcement of the California Certified Engineering Geologist certification. He also serves as an expert witness on California Department of Transportation (Caltrans) construction disputes.

PROJECT EXPERIENCE

MCCOURTNEY ROAD LANDFILL IMPROVEMENTS

GRASS VALLEY, CA

Project manager and principal engineer responsible for the geotechnical investigation and reporting for proposed landfill improvements, including development of a new approximately 48,000-square-foot transfer station facility, weigh stations, an approximately 660 square-foot administration building, and associated improvements including paved roadways, retaining walls, and underground utilities. NV5 performed exploration trenching and boring and seismic refraction surveys. The geotechnical report included grading and drainage recommendations, foundation and retaining wall design criteria, and slab-on-grade recommendations for the proposed improvements.

CORONER'S FACILITY

ROSEVILLE, CA | PLACER COUNTY PUBLIC WORKS AND FACILITIES

Principal in charge of geotechnical engineering, special inspection and materials testing services during construction of a new 20,000 square foot Coroner's Facility. The geotechnical engineering services included a subsurface investigation and report including grading and structural recommendations. Inspection included structural steel, structural concrete, installation of post-installed anchors, and field moisture/density testing and observation.

NEVADA STREET BRIDGE REPLACEMENT

NEVADA CITY, CA

Principal in charge for the bridge replacement project located in Nevada County, California. The bridge replacement project included replacing the existing bridge with a longer spanned, wider (2 lane) bridge with new approaches and approximately 300 linear feet of Nevada Street, including portions of adjacent privately owned and publicly owned property including a public parking lot. NV5 wrote a preliminary foundation report, performed the geotechnical investigation for the project which included logging borings and conducting a seismic refraction mictrometer (ReMi) survey. Following the field investigation, Mr. Kull provided data analysis and engineering for the design of the bridge foundation and other structural improvements, and oversaw the geotechnical engineering report, including logs of test borings (LOTB), which was in general accordance with Caltrans guidelines.

MCCOURTNEY ROAD BRIDGE OVER ROCK CREEK

NEVADA COUNTY, CA

Principal in charge for the geotechnical engineering design of this bridge replacement. Work included a geotechnical subsurface investigation in which approximately 10 feet of rock core was taken from each abutment. Resulting recommendations covered foundation types and embedment depths, allowable soil bearing capacity, foundation soil friction coefficients, retaining wall lateral earth pressure coefficients, and seismic design parameters. Resistant boulders were encountered at both abutments. New bridge abutments for this federally funded HBP project will consist of spread footings founded on competent, native rock.

DORSEY DRIVE INTERCHANGE ON STATE ROUTE 49

GRASS VALLEY, CA

The project required testing of 47,000 cubic yards of fill, 800 cubic yards of structural concrete, and 21,000 tons of hot mix asphalt. NV5 developed a procedural specification for fill placement utilizing the onsite excavated weathered rock, thus eliminating the need to off haul the material and reducing the chance for project delay. NV5 was responsible for observing and confirming compaction of the mass fills containing high volumes of rock, which was being generated during on-site grading operations. Following grading, NV5 provided quality assurance sampling and materials testing services, including density testing during construction of structural road sections; sampling and testing of aggregate baserock to confirm compliance with project specifications; and plant inspection, field sampling, and laboratory testing of concrete during construction of cast-in-drilled-hole (CIDH) piers, bridge girders, bridge deck, and bridge abutments. This project earned the 2014 Construction Project of the Year Award from the Sacramento Chapter of the American Society of Civil Engineers (ASCE) and the 2014 Transportation (Interchange) Project of the Year Award from the Sacramento Chapter of the American Public Works Association (APWA).

CASCADE SHORES WASTEWATER TREATMENT PLANT

NEVADA COUNTY, CA

Project engineer responsible for evaluating a landslide that destroyed a pipeline the community of Cascade Shores in Nevada City, California. NV5 developed a mitigation plan to prevent further damage. To facilitate protecting the plant prior to the start of the 2005/2006 rainy season, NV5 designed a soldier pile wall, a Gabion wall, and rock fall protection netting on the cliff face to protect the plant. NV5 also acted as construction managers for this fast-track project. The project was successful in protecting the plant from further damage and received the 2005 Project of the Year award from the Engineer's Association of Nevada County. To assess future risk to the treatment plant, NV5 conducted an intensive slope stability analysis that included drilling and down-hole observations in several 30-inch-diameter borings. The findings resulted in a new industry-wide understanding of the instability risks of the Ione Formation, a common geologic unit in Northern California.

TUOLUMNE EMERGENCY STORM DRAIN

SONORA, CA

Principal engineer retained by Tuolumne County Community Resources Agency (TCCRA) to investigate nine major slides that occurred during the wet winter of 2016 - 2017. Mr. Kull visited the sites, mapped the slides, and recorded the locations with GPS coordinates. A minimum of three repair methods were discussed and sketched in the field. The following week, NV5 performed a subsurface investigation at each slide area. Within two weeks, a report was prepared for each slide area and AutoCAD details and specifications were provided. The repair methods included: Hilfiker wall panels, Gabilion Baskets, and a complete rebuild of the road slides with native soil. The objective was to provide as many opportunities for the contractors and NV5 to apply value engineering for the shortest repair window and costs.

CONSTRUCTION QUALITY ASSURANCE

Nevada City, CA
Curt.Johnson@NV5.com
530.478.1305

EDUCATION

General Education, Bear River High School
U.S. Navy Damage Control (Firefighter)
Careers in Construction, Special Inspector

REGISTRATIONS

American Concrete Institute (ACI) Concrete Field Testing Technician – Grade I
International Code Council (ICC) - Special Inspector for Reinforced Concrete, Structural Steel and Welding, and Structural Masonry
Caltrans Test Methods –231, 375, 504, 518, 533, 539, 540, 556, 557
Nuclear Density Gauge Operation
Confined Space Entry
Defensive Driving Training
30 Hour OSHA

EXPERTISE

Construction quality assurance
Special inspection of concrete, masonry, structural steel bolting, and structural steel welding
Nuclear density testing

CURT JOHNSON

Project Manager/Special Inspector

Curt Johnson has performed field technician and special inspection services throughout the Sierra Nevada and Central Valley for NV5 since 2004. Projects have included municipal, commercial, and residential developments. Curt's construction quality assurance experience on municipal projects has included review of construction schedules, performance of special inspections, preparation of field reports, review of submittals and plans, and photographing project progress. Mr. Johnson has and continues to be one of the primary Special Inspectors for the Sierra Nevada Memorial Hospital during upgrades and expansion projects. In addition to providing inspection services, Curt has been working as the field supervisor supporting the field technicians as they complete their assignments.

PROJECT EXPERIENCE

OPHIR ROAD PIPELINES

PLACER COUNTY, CA

Engineering technician responsible for materials testing of soil and concrete during construction of over 5 miles of 12-inch to 60-inch diameter water lines between Ophir Pump Station and Newcastle. Mr. Johnson also provided special inspection of welds for steel casing installed using jack and bore technology beneath Interstate-80 and railroad alignment. During the jack and bore, under I-80, Mr. Johnson was responsible for providing the inspections and oversight necessary during batching of the cellular concrete used to fill the cavity within the bore alignment, following installation of the multiple 48-inch pipes. During the casting of the batched cellular concrete, samples were collected so both early and final strengths of the materials could be determined and conformance with the project specifications verified. In an effort to reduce the inspection cost on the project, Mr. Johnson provided services simultaneously for both Placer County and Placer County Water Agency during concrete testing, welding observation, and bolt testing.

SIERRA COLLEGE EXPANSION

GRASS VALLEY, CA

Special inspector during expansion of this 100-acre campus. Construction included additional classroom buildings, a performing arts center, a health and fitness center, student service and administration buildings, and a public safety facility. Special inspection and materials testing were performed for earthwork, reinforced concrete (normal and lightweight), structural steel (shop and field), and structural masonry during construction.

JUSTICE CENTER

AUBURN, CA

Special inspector for the 129,000 square-foot multi-story Placer County Justice Center building. Services included earthwork and foundation excavation observation; and special inspection of masonry, concrete, structural steel bolting, welding, and spray applied fireproofing.

PLACER COUNTY COMMUNITY DEVELOPMENT RESOURCE CENTER

AUBURN, CA

Materials tester/special inspector responsible for earthwork and foundation excavation observation; special inspection of masonry, reinforced concrete, structural steel, welding, and spray applied fireproofing; and sampling of concrete and structural steel assemblies.

SOUTH AUBURN STREET AREA REHABILITATION

GRASS VALLEY, CA

Construction materials tester/special inspector in charge of field moisture/density testing of aggregate base rock to be used in hot-mix asphalt. Collected samples of loose mix during paving operations and core samples following paving for laboratory testing.

CEMENT HILL PIPELINE

NEVADA COUNTY, CA

Construction materials tester/special inspector responsible for materials testing during construction of a 1-million-gallon water storage tank, pump station, and 11 miles of pipeline. Testing included confirming special cement/soil admixture percentages for trench backfill.

NEVADA CITY MAINTENANCE STATION RESIDENT MECHANICS FACILITY

NEVADA CITY, CA

Special inspector responsible for construction inspection during structural concrete, structural welding, and structural masonry. The CMU structure had walls varying in height up to 30 feet and were constructed of both smooth and split face block which had interaction with the structural steel.

CLARK ROAD OVERLAY PROJECT

PARADISE, CA

Construction materials tester/special inspector in charge of quality assurance asphalt sampling and materials testing during the first phase of this overlay project. The project was federally funded by the American Recovery and Rehabilitation Act of 2009 (ARRA) and included over 6,000 feet of 2-inch overlay with some grind-out and replacement of failed pavement sections. The QA testing was performed using AASHTO (American Association of State Highway and Transportation Officials), ASTM (American Society of Testing and Materials), and Caltrans Test Methods.

CAPLES LAKE AND PEDDLER HILLS CALTRANS MAINTENANCE CENTER

PINE GROVE, CA

Special inspector responsible for construction inspection during the structural concrete masonry unit (CMU) building construction. The CMU structure had walls ranging in height up to 25 feet and were constructed of both smooth and split face block. Both of these District 10 structures were located at high elevations in the Sierras and required special attention to ensure the CMU structure would be resistant to the harsh weather extremes.

CORONER'S FACILITY

ROSEVILLE, CA | PLACER COUNTY PUBLIC WORKS AND FACILITIES

Special inspector during construction of a new 20,000 square foot Coroner's Facility. Special inspection and materials testing were performed for earthwork, reinforced concrete, structural steel welding/bolting, and structural masonry during construction.

SIERRA COUNTY STORM DAMAGE REPAIR – OLD TOLL BRIDGE ROAD

DOWNIEVILLE, CA

Lead inspector during repairs of Old Toll Bridge Road after a flood event caused a section of the road to slip out. Road surface and shoulder material was washed away, and the roadside drainage was damaged. Mr. Johnson was responsible for the oversight of subgrade construction, embankment preparation, erosion control, roadway reconstruction, HMA placement, materials testing (nuclear gauge), and installation of crash railing.

ENVIRONMENTAL ENGINEERING

Nevada City, California
Jason.Muir@NV5.com
530.478.1305

EDUCATION

M.S. Environmental Engineering, U.C. Berkeley
B.A. Environmental Science, U.C. Berkeley

REGISTRATIONS/CERTIFICATIONS

Professional Engineer, CA No. 60167
Geotechnical Engineer, CA No. 2697
OSHA HAZWOPER Supervisor
Qualified SWPPP Developer/ Practitioner

EXPERTISE

Preliminary Endangerment Assessment (PEA)
Engineering Evaluation/Cost Analysis (EE/CA)
Cleanup Planning (RAW/RAP)
Human Health Risk Assessment (HHRA)
Phase I Environmental Site Assessment (ESA)
Initial Site Assessment (ISA)
Phase II Site Investigation (PSI/SI)
Ecological Scoping Assessment (ESA)
Ecological Predictive Assessment (Eco PA)
Ecological Validation Study
Construction Quality Assurance (CQA)
Construction Management (CM)
Mine Waste Characterization (Title 27/Non-15)
Mine Reclamation Planning (SMARA)
Water Quality Monitoring and Permitting
Contaminant Transport Modeling
Geotechnical Investigation and Design

AFFILIATIONS

Geoprofessional Business Association
American Society of Civil Engineers
Engineer's Association of Nevada County
Placer Architects, Geologists, Engineers, and Surveyors

Jason W. Muir, PE, GE

Manager, Environmental Division
Principal Engineer

Mr. Muir is a California registered Civil Engineer and Geotechnical Engineer and holds a Master of Science in Environmental Engineering from the University of California at Berkeley. He has been in the industry for 26 years. His professional background includes geotechnical and environmental engineering and construction quality assurance (CQA); hazardous materials site characterization, risk assessment and remediation under CERCLA; water quality evaluation and permitting under the California Water Code and Title 27; and mine reclamation under SMARA. Mr. Muir performs hazardous substances exposure assessment and statistical analysis as well as predictive human health and ecological risk assessment to support hazardous substances site characterization and remediation.

Mr. Muir has provided characterization, risk assessment, remedial design and/or quality assurance for over three dozen sites regulated by the California Department of Toxic Substances Control (DTSC). He and his team have characterized over 3,000 acres of land in California, and they have participated in eight USEPA Brownfield assessment and cleanup programs. Mr. Muir currently leads a USEPA Brownfields assessment coalition grant.

He and his team have performed more than 500 Phase I/II environmental site assessments including municipal, commercial, and transportation improvement projects, characterizing and mitigating environmental conditions related to hydrocarbon and solvent releases, unpermitted waste disposal sites, abandoned mine features, underground storage tanks, lead-containing paint, naturally occurring asbestos, aerially deposited lead and pesticide residuals pursuant to local, state, and federal guidelines.

Mr. Muir also oversees solid waste facility permitting and reclamation planning; water quality monitoring; storm water permitting, design and monitoring; waste discharge permitting and development of water quality protection standards; and spill prevention, control, and cleanup planning.

PROJECT EXPERIENCE

McCOURTNEY ROAD LANDFILL

NEVADA COUNTY, CA

Project manager for CM and CQA during facility improvements, including earthwork repairs and pump station installation, as well as post-closure monitoring and maintenance of the facility. Prepared Report of Waste Discharge and negotiated a reduction in leachate and groundwater monitoring during update of Waste Discharge Requirements. Prepared Final Closure Plan for surface impoundment and Post Closure Maintenance Plan for landfill units. Supervised settlement surveys and prepared liner repair plans and specifications to address settlement issues. Evaluated anomalous constituent concentrations in groundwater considering the interaction with landfill gas and leachate constituents. Performed hydrogeologic evaluation regarding drawdown in adjacent wells resulting from groundwater extraction at the facility. Project engineer for closure of two landfill units.

USEPA BROWNFIELDS COALITION ASSESSMENT, GOLD COUNTRY COALITION

NEVADA COUNTY, CA

Project manager for $600,000 USEPA Coalition Assessment Grant awarded to the Gold Country Coalition (Grass Valley, Nevada City and Nevada County). Mr. Muir is in charge of site characterization and cleanup planning for key Brownfields cleanup sites for residential and commercial reuse. Site assessments include human health and ecological risk assessment and water quality evaluation overseen by the USEPA and the California DTSC. NV5 is currently in the final year of this three-year project.

USEPA BROWNFIELDS CLEANUP DESIGN, SOUTH AUBURN STREET PROPERTIES

GRASS VALLEY, CA

Project manager for hazardous materials site investigation to characterize heavy metals including mercury in a proposed residential area and wetland impacted by 16,000 cubic yards of mine tailings, as well as historical aerial deposition of contaminants from nearby historical milling processes. Services included SI, human health risk assessment (HHRA), ecological scoping assessment (ESA), ecological predictive assessment (PA) and validation study, and preparation of a cleanup plan (RAW).

CalEPA CENTENNIAL M-1 PROPERTY REMEDIAL ACTION PLAN

NEVADA COUNTY, CALIFORNIA

Project manager for site investigation coordinated with USEPA and USGS, and engineering evaluation and remedy selection overseen by the California EPA Department of Toxic Substances Control (DTSC), for the former Idaho-Maryland Mine, one of the most historically productive gold mines in the nation. Prepared Remedial Action Plan (RAP) including procedures for chemical stabilization and encapsulation of approximately 150,000 cubic yards of mine tailings as engineered fill under a land use covenant to facilitate site redevelopment.

CalEPA BEAR RIVER MILL SITE RDIP

GRASS VALLEY, CA

Project manager for site characterization and preparation of Remedial Design and Implementation Plan (RDIP) for approximately 15,000 cubic yards of mine waste rock and tailings to be consolidated at the former Bear River Sawmill site located centrally within the property. Previously developed land use controls and obtained DTSC certification for southern portion of the property on behalf of the County of Nevada, and performed a geotechnical engineering investigation for the proposed Nevada County Operations Center currently under design. Previously obtained DTSC certification for industrial use of the eastern and western portions of the property on behalf of Golder Associates.

MALAKOFF DIGGINS STATE HISTORIC PARK SEDIMENT AND MERCURY ABATEMENT INITIATIVE

NEVADA COUNTY, CALIFORNIA

Project manager for engineering evaluation of sediment and mercury control at Malakoff Diggins State Historic Park for a 330-acre hydraulic mining pit. Evaluated passive technologies to reduce sediment and mercury discharge to Humbug Creek and the South Yuba River.

SR 49 DORSEY DRIVE INTERCHANGE

GRASS VALLEY, CALIFORNIA

Managed hazardous materials characterization for naturally occurring heavy metals for this award-winning project. The project included construction of northbound and southbound on- and off-ramps from SR 49; re-alignment of an existing frontage road; and extensive cuts and fills up to 65 feet in height. The interchange project received the Construction Project of the Year Award from the Sacramento Chapter of ASCE and Transportation Project of the Year Award from the Sacramento Chapter of APWA.

USEPA HILLS FLAT SULPHURET WORKS

NEVADA COUNTY, CA

Project manager for site characterization, risk assessment and preparation of Removal Action Work Plan (RAW) for remediation of sulphuret waste containing hazardous levels of heavy metals along Matson Creek. Work performed for the City of Grass Valley and funded by the USEPA Brownfields Program.

TAB D
PROJECT PLAN

Project Approach

(Refer to Tab C for Organization Chart and Team Responsibility Matrix)

PROJECT PLAN / PROJECT APPROACH

The McCourtney Road Transfer Station (MRTS) improvement project request for qualifications (RFQ) indicates scopes of service to generally include construction management; however, also indicates involvement in bidding, responses to questions (during bidding), permit assistance, and overall project management through construction to completion. There is an added component of maintaining operations of the existing transfer station during construction.

For the project, Lawrence & Associates' (L&A) project approach is based initially on the following:

- Client Needs
- Project and Operational Needs
- Existing transfer station and fire suppression needs
- Seasonal consideration / Long-lead Items
- Key Milestones and Delivery Dates

L&A has extensive experience with design, permitting, bidding, and construction of Transfer Stations and related components. As such, we understand and have experiences in dealing with issues that occur between design and permitting, to construction, to ultimate use and operation by the Client. Examples include: availability of materials (currently long lead time with metal buildings and certain items), use and maintenance of items (such as the scales, scale drainage, tipping floor drainage/clogging), and site-specific considerations that should be evaluated (even if just briefly), all to ensure that the expectations of the Client and facility, are met.

Our approach for the MRTS project would include:

1. **Detailed Review of Contract Documents.** This includes a desktop and detailed review of the drawings, project specifications, and bid forms, to provide comment and feedback to the Client and design engineer on items that may warrant further clarification, modification, or potential for an alternate, prior to finalizing bid packages.

2. **Clarify Site Specific Items and expectations of Contractor.** Concurrent with the first item, there are several site-specific considerations that are not clear with regard to the Contractor. This item is focused on providing input to the Client and design engineer specific so that the design engineer can incorporate these items either into the Drawings or other portions of the Bid Documents to clarify what is being requested of the contractor.

Examples are listed below for this project, and include:

a. Fire Suppression. The plans currently show to remove the existing fire suppression system and then have the Contractor provide standby fire suppression. Typically, this type of note covers construction, but not ongoing operation of the transfer station separate from the construction project. There is a level of coordination with the facility and potentially Fire Department, and a potential alternative item, to retain or modify the existing fire system and supplement onsite fire suppression water in a clearer manner that currently exists.

b. Existing operations to maintain open. This is common on new transfer stations and recent renovations, however, often results in a change order. This item would specifically sort out and help clarify how to maintain existing operations and identify construction areas on a plan for the contractor, including provisions for public access and traffic control (where needed).

c. Rock Clause. Identifying the need for hard-rock breaking and/or dewatering and providing an alternative bid item should be considered, if needed. Both of these are typically bid with a caveat and placeholder for contractor fees. This line item would include specific review of the relatively deep storm drains, rock depths, and discussion of an alternative design for cost-purposes.

d. Seasonal consideration. Given the time of year, the concrete work for the transfer station building may require additional cold-weather consideration if performed during the winter period. While site access to the proposed location may be accessed in the winter, cold temperatures for concrete curing could pose an issue in December through February and will need to be considered in the schedule and potentially be clarified in the bid documents. This is an example of a seasonal consideration.

3. Clarify Site Operations and Operational Needs. This may be redundant if already coordinated through the design process. However, we believe it is worthwhile to double-check these needs and would include discussion with the facility staff (or County division) related to operational items such as:

- Access movements, turn-around for public (conflicts on heavy-use days), bollards at building.
- Special events and access/containers for those events.
- Overhead doors height and ventilation.
- Misting system discussion, potential odor-minimizing injection port.
- Concrete joints in tipping floor – discussion to manage future expectations. With the misting system and liquids received with trash, the joints can create a source

of inflow below the slab and result in pumping. Troubleshooting includes eliminating certain joints and/or adding industry-specific sealant.

- Tipping floor drainage. As shown, the drains are near drop-off locations and will plug and/or require continual maintenance to remove collected fines. To discuss with site operations and design engineer, typically placed in areas where they can be covered or filtered and allow most of the solid waste to absorb site liquids.
- Scales. To discuss operational needs and long-term maintenance. L&A typically requires scales to include an accessible hatch in each scale section, and have at least 12" accessible below the bottom of the scale to remove debris that may accumulate and to limit the frequency of cleaning. The Drawings currently show less depth.

4. **Finalize Bid Packages and Bid Support.** This item includes assisting in finalizing the bid packages for publication to potential contractors, attending the pre-bid site meeting, assisting in response to bidding questions, and summarizing the bids. Communication during bidding, addenda preparation, and the pre-bid site meeting, are often the basis for cost carried through the life of the project. This communication and meetings can eliminate or at least minimize the potential for change orders. Typically clearer information and few unknowns provide more competitive bids. Part of our role during bidding would be to support the design engineer and Client by being present and assisting in the outline for the pre-bid meeting, including list of project specifics and assumptions.

5. **Project and Construction Management.** These are one in the same on this project and are both simply considered services during construction. L&A's role would be the primary contact between the contractor(s), engineer, and County. Construction management will follow the scope set forth in the RFQ, and include both in-office management as well as on-site management services. For progress meetings, the L&A team would host weekly or semi-weekly progress meetings in a virtual format. This has been a 'standard' in the past few years and has improved communication and resulted in expedited troubleshooting often in advance, or near real-time for the contractor and Client. On-site meetings would be kept to a minimum, aside from daily/periodic interaction between the Contractor and the site monitor when construction activities are present.

6. **Prompt and Clear Communication.** This item is vital to the success and on-time completion of the project and is a core expectation of ourselves on projects.

7. **Project Closeout, Punchlist, and Completion.** This task includes specific communication with County operations staff regarding use of the facility and discontinuation of the existing transfer operations. This task also includes a review of punchlist items, review with the building official and fire department for sign-off, and final notice of completion and certificate of occupancy.

8. **Operations Manual and Training.** This task is specific to key milestones in the project to ensure that the facility staff can be trained on specific equipment, including the scales, scale reader, indicator, access to the load cells and scale pit (for cleaning), electrical panel review, roll-up door and disconnect review, misting system trouble-shooting, and specific review of the tipping floor drainage system, including oil-water separator and required maintenance. This task item is often not provided or covered on construction projects and is shown to complete a formal 'hand-off' from contractor to County personnel and to answer questions about specific items prior to final occupancy.

TAB E
VALUE ADDED

Value Added and "What we do"

VALUE ADDED AND "WHAT WE DO"

Lawrence & Associates (L&A) prides itself in being a one-stop-shop for projects similar to the McCourtney Road Transfer Station (MRTS) improvement project. As discussed in other sections of this response to the request for qualifications (RFQ), the team members involved on this project have experience with transfer station specific permitting, construction, and operations. This trifecta of knowledge helps identify issues early on, and also minimizes change orders, while focusing on overall budget and operations.

We are architects, engineers, problem-solvers, designers, and most-importantly, excellent communicators. The following are example areas where we bring a client-valued service, and truly "shine":

- Make Your Life Easier – One of our goals is to make our Client's life easier. From simple and helpful reminders that deadlines are approaching to research and solving design or regulatory issues.

- Cost Effectiveness – There are situations that require low-cost solutions and those that require more robust permanent (higher cost) solutions. We recommend the most cost-effective approach, always being aware of cost, and always providing an engineer's estimate.

- We Understand Nuts and Bolts – Our staff is mechanically (common sense) oriented and bring the experience of having been involved with design through construction on numerous projects. This experience brings an understanding of how projects get built, critical path awareness, cost-considerations, construction constraints, and troubleshooting solutions. That is not always the case with design professionals that specialize in design, or separately, in construction oversight.

- We are Responsive and Available – It is our goal to be available and responsive, especially for quick questions from landfill staff, and provide support when emergencies arise.

- When it comes to Solid Waste and Recycling, we have done pretty much anything you can think of regarding solid waste (See **Table B-1** in **Tab B**).

- We are Tenacious – We identify potential issues in a proactive manner, often outside of our scope, with the intent to support overall facility operations and compliance. Give us a problem to solve and we will solve it. If there is something we don't do, we know someone that does.

- We Think Past the Immediate Project – One rule of solid waste design is, do not get boxed into a corner. To avoid this, we think about the future geometry and long-term site/design constraints of the facility.

- We know how to manage Contract Documents, Bidding, and Construction – L&A has prepared both short-form and long-form contract documents, and managed construction projects for numerous private and public construction projects.

- We Work Well with Other Consultants – We understand the importance of providing information or assistance to other consultants and provide it in a timely and helpful manner.

Issues and Challenges, Experience from Past Projects

Design and Construction projects result in learned lessons, both from time or expense, and in quality of the project. Complex and multi-disciplinary projects typically have more of those learned lessons. This L&A Team understands design objectives, understands permitting and regulatory requirements, and understands construction and the ability to adapt to field conditions (when needed). We also understand the operations side of landfill activities. As part of this RFQ, we have included the following bullet list of issues, challenges, and key elements that are included as part of the value-design-effort for this project.

1. **Continuity of Professionals.** In comparison to most design firms, that may have experience (at multiple offices and locations), but often do not provide access to that experience, nor apply it to the project, we remain accessible and involved throughout the project, not just portions. In many cases, the marketing department is different than the designers, and the designers are often not senior staff. Many documented engineering failures have been attributed to submittal reviews being performed by junior staff that were not involved in design. With this Design Team, the same senior engineers and professionals that prepared the proposal will design the project and, will continue to be involved throughout permitting, coordination, and ultimately construction. This continuity eliminates unnecessary redundancy, confusion and errors.

2. **Decision-Makers.** Similar projects require the involvement of key decision-making participants to move forward. Delays, which can result in time lost and increased cost, should be avoided. Assigning decision-makers at the County and design engineer level for the project will be critical to the initial discussions and finalizing bid packages.

3. **Establish goals together.** What is in the best interest of the staff and end users who will occupy this facility? How can we maximize budget dollars and save costs, without compromising scope, safety, schedule or quality? From the start, we must strive to work together to drive design and budget in the most effective direction, and not waste effort on design elements that are not attainable within the budget and site constraints.

4. **Agency Coordination.** Early interaction with the jurisdictions responsible for entitlements and utilities is critical. Many of these approvals/design reviews are time consuming and can delay a project.

5. **Experience of Team Members.** The team members are very familiar with submittal processes both at local and State of California jurisdictions. The path to successfully obtaining approval from these review jurisdictions is not necessarily a conservative design but comes from code knowledge and experience of the process. It is important to be familiar with what information to provide and the proper format to provide the information in order to expedite the process by displaying knowledge of the California Building and Fire Codes and clearly formatting the submittal to expedite the review. This will pay dividends in that major issues or surprises which ultimately affect project cost can be avoided. The preferred outcome of an initial review will be approval or a subsequent over-the-counter review to address minor issues.

6. **Clarity.** Be clear and precise, where feasible, on drawings and in specifications – clarity reduces change orders. While it is impossible to predict every potential rub during a construction project, and some change orders are inevitable, they can be minimized, by providing clear instructions to the Contractor, both on the drawings and in the specifications.

7. **Bid Early.** With the strong economy, fewer contractors are bidding. They tend to bid more aggressively in winter before they are tied up with other projects. L&A recommends completing the design of each new project the year prior to construction and start bidding in January, if possible. Be Reasonable in the Allowed Construction Time – Quick construction requirements equal higher project costs. A too short bidding time will also increase cost.

8. **Time is Money.** – Because of our size and capabilities, our Team can divert resources as needed, prepare submittals, often saving several days.

9. **Project Specifics.** We understand the need to assess site specifics and have included that as part of our project approach.

TAB F
REQUIRED STATEMENTS

Attachment A (from RFQ)

REQUIRED STATEMENTS

The following was copied from Attachment A as included in the Request for Qualifications for the McCourtney Road Transfer Station improvement project, as solicited by Nevada County.

By signature on the cover letter of this submittal and by including this document, I/we attest and agree to the following:

2) Scope of Work and Addenda

I/We will perform the services and adhere to the requirements described in this RFQ, including the following addenda issued by the County (list the addenda by date and/or number):

- Includes Addendum No. 1, dated February 23, 2022.

3) Public Records Act

I/We acknowledge that subsequent to award of this RFQ, all or part of this submittal may be released to any person or firm who may request it, as prescribed by the State of California Public Records Act (Govt. Code 6250, et seq), and that:

_____ None of this submittal is considered proprietary

OR

_____ The portions/pages of this submittal identified below are proprietary and/or confidential for the reasons stated (cite the specific exemptions allowed by the California Public Records Act/Government Code):

I/We acknowledge that the above statements may be subject to legal review and challenge.

4) Non-Substitution of Designated Staff

I/We assure that the designated project team, including sub-consultants (if any), is used for this project and that departure or reassignment of, or substitution for, any member of the designated project team or sub-consultant(s) shall not be made without the prior written approval of the County.

5) Non-Conflict of Interest

I/We warrant that no official or employee of the County has an interest, has been employed or retained to solicit or aid in the procuring of the resulting contract, nor that any such person will be employed in the performance of such contract without immediate divulgence of such fact to the County.

6) Non-Collusion

I/We warrant that this offer is made without any previous understanding, agreement or connection with any person, firm or corporation submitting a separate proposal for the same project and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.

7) Insurance Requirements

I/We agree to the indemnification and insurance requirements provided in the draft contract attached to the original RFQ and that the cost of complying with the insurance requirements is included in our pricing. I/We agree to provide complete and valid insurance certificates within ten (10) days of the County's written request and acknowledge that failure to provide the documents within the time stated may result in the rejection of this proposal.

8) DEBARMENT AND SUSPENSION CERTIFICATION
TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The proposer, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining the firm's responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Note: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this document.

TAB G
EXCEPTIONS

LAWRENCE
& ASSOCIATES
ENGINEERS & GEOLOGISTS

EXCEPTIONS

Draft Contract – Attachment C

Clause 12.2 “Consultant to Indemnify County” pertains to design professional services provided by the consultant, and specifically includes the term “defend.” This is not insurable under L&A’s professional liability insurance, however, the scope as written in the RFQ, does not include (nor does it exclude) design professional services. In the event design professional services are necessary, L&A cannot ‘defend’ County, but can retain the rest of the wording as shown, should it become necessary.

FEE SCHEDULE

By separate sealed envelope