

**FIRST ADDENDUM TO CONTRACT FOR SERVICES  
BY INDEPENDENT CONTRACTOR**

THIS FIRST ADDENDUM is to that Contract for Services entered into on May 19, 2022, by and between the County of Siskiyou (“County”) and Lawrence & Associates, Inc. (“Contractor”) and is entered into on the date when it has been both approved by the Board and signed by all other parties to it.

WHEREAS, the Contract will expire on June 30,2025, and services continued to be required after that date; and

WHEREAS, the parties desire to extend the term of the Contract;

WHEREAS, the cost of services to be provided under the Contract is expected to exceed the amount provided in the Contract; and

WHEREAS, the parties desire to increase the amount of compensation payable under the Contract; and

WHEREAS, the “Attachment E” to the Exhibit “A” needs to be repealed and replaced with a new Attachment “E”; and

WHEREAS, the parties desire to increase the insurance and liability coverages within the Contract.

NOW THEREFORE, THE PARTIES MUTUALLY AGREE AS FOLLOWS:

Paragraph 1.01 of the Contract for Services shall be amended to extend the term of the Contract through June 30, 2028.

Paragraph 3.01 of the Contract, Specific Services, Exhibit “A”, Scope of Services, shall be amended to repeal the “Attachment E” to the Exhibit “A” and replace it with the new Attachment “E” attached hereto.

Paragraph 4.01 of the Contract, Compensation, shall be amended to increase the compensation of the Contract in an amount not to exceed Eighty-six thousand seven hundred ninety-three dollars (\$86,793.00) per fiscal year for FY 25/26, FY26/27 and FY27/28 increasing the total compensation for the term of the Contract to an amount not-to-exceed Five hundred fifteen thousand three hundred fifty-eight dollars (\$515,358.00).

Paragraph 5.04 of the Contract, Worker’s Compensation, shall be amended to increase the insurance coverage payable under the contract to One Million Dollars (\$1,000,000) per accident for bodily injury or disease, covering all its employees as required by California Labor Code Section 3700, either through workers’ compensation

insurance issued by an insurance company or through a plan of self-insurance certified by the State Director of Industrial Relations.

Paragraph 5.06 of the Contract, General Liability and Automobile Insurance shall be amended to increase the general liability coverage to Two Million Dollars (\$2,000,000) per occurrence and automobile policy or policies of no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

Paragraph 5.10 of the Contract, Professional Liability, shall be amended to increase the professional liability insurance to a minimum coverage level of Two Million and No/100 Dollars (\$2,000,000.00), or as determined in writing by County's Risk Management Department.

All other terms and conditions of the Contract shall remain in full force and effect.

**(SIGNATURES ON FOLLOWING PAGE)**

IN WITNESS WHEREOF, County and Contractor have executed this first addendum on the dates set forth below, each signatory represents that they have the authority to execute this agreement and to bind the Party on whose behalf their execution is made.

COUNTY OF SISKIYOU

Date: 6/30/2025

Signed by:  
Nancy Ogren  
NANCY OGREN, CHAIR  
Board of Supervisors  
County of Siskiyou  
State of California

ATTEST:  
LAURA BYNUM  
Clerk, Board of Supervisors

By: Wendy Winingham  
Deputy

Date: 6/4/2025

CONTRACTOR: Lawrence & Associates, Inc.  
Signed by:  
Clayton E. Coles  
Clayton E. Coles, President

Date: 6/4/2025

Signed by:  
Bonnie Lampley  
Bonnie Lampley, Vice President

License No.: Professional Geologist No. 6541 and 5634  
(Licensed in accordance with an act providing for the registration of contractors)

Note to Contractor: For corporations, the contract must be signed by two officers. The first signature must be that of the chairman of the board, president or vice-president; the second signature must be that of the secretary, assistant secretary, chief financial officer or assistant treasurer. (Civ. Code, Sec. 1189 & 1190 and Corps. Code, Sec. 313.)

TAXPAYER I.D. 94-2661102

ACCOUNTING:  
Fund      Organization      Account      Activity Code (if applicable)  
5350      404010      723000

Encumbrance number (if applicable):

If not to exceed, include amount not to exceed: \$515,358.00  
FY 25/26 \$86,793.00  
FY 26/27 \$86,793.00  
FY 27/28 \$86,793.00

*If needed for multi-year contracts, please include separate sheet with financial information for each fiscal year.*



P022006.00

April 30, 2025

Ms. Joy Hall  
Siskiyou County Department of General Services  
190 Greenhorn Road  
Yreka, CA 96097

Dear Joy:

**SUBJECT: ADDENDUM TO EXISTING CONTRACT FOR LANDFILL MONITORING AND REPORTING, AND REGULATORY ASSISTANCE FOR VARIOUS SISKIYOU COUNTY LANDFILLS FROM FISCAL YEARS 2025/2026 THROUGH 2028/2029 (JULY 1, 2025 THROUGH JUNE 30, 2028), SISKIYOU COUNTY, CALIFORNIA**

Lawrence & Associates (L&A) is pleased to present this addendum to the existing Contract to perform landfill-gas and groundwater-monitoring and reporting for Black Butte, McCloud, Yreka, Tulelake, and Happy Camp Landfills, Siskiyou County, California. **Attachment E** presents our revised Price Proposal and Schedule of Fees for the period from July 1, 2025 to June 30, 2028.

The cost of the work to be conducted by L&A is estimated to be \$86,793 per fiscal year (**Attachment E**), which will be billed on a time and expense basis, as shown on the Schedule of Fees (**Attachment E**). L&A understands Siskiyou County General Services will continue to sample surface water and storm water at all landfill sites, and will continue paying all laboratory costs directly.

If you would like us to perform the work, please incorporate the attached proposal into your contract addendum and provide us copies for signature. Please call me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Karl Swanson".

Karl Swanson  
Senior Engineering Geologist

Enclosures: **ATTACHMENT E** - Revised Price Proposal

**ATTACHMENT E**  
**REVISED PRICE PROPOSAL**



**Price Proposal**

<b>Fiscal Year</b>	<b>Annual Cost (\$)</b>
Fiscal Year 2025/2026	\$86,793
Fiscal Year 2026/2027	\$86,793
Fiscal Year 2027/2028	\$86,793

The cost of the work to be conducted by Lawrence & Associates is estimated at \$86,793 per fiscal year, as described in **Attachment C** (approach and scope of work). All work will be billed on a time and expense basis, as shown on the following Schedule of Fees (next page). Lawrence & Associates understands Siskiyou County’s fiscal year runs from July 1<sup>st</sup> to June 30<sup>th</sup>.



**SCHEDULE OF FEES**  
EFFECTIVE JULY 1, 2025  
EXPIRES JUNE 30, 2028

**Professional Services**

<b>Engineering Geologist/Hydrogeologist</b>	
Principal .....	\$195/hour
Senior .....	\$175/hour
Associate .....	\$150/hour
Staff .....	\$145/hour
Assistant .....	\$130/hour
<b>Engineer</b>	
Principal Engineer .....	\$215/hour
Senior Registered Civil.....	\$190/hour
Associate Registered Civil .....	\$165/hour
Staff Civil .....	\$145/hour
Assistant Civil .....	\$135/hour
Engineering Technician.....	\$110/hour
Project Manager.....	\$145/hour
Environmental Assessor (Level I) .....	\$140/hour
Environmental Assessor (Level II) .....	\$130/hour
AutoCAD Operator (Level I).....	\$110/hour
AutoCAD Operator (Level II) .....	\$100/hour
Field Technician .....	\$105/hour
Laborer.....	\$85/hour
Tank Fund Administrator .....	\$85/hour
Clerical.....	\$85/hour
Travel Time .....	\$100/hour

**Deposition and Court Appearances**

Minimum charge.....	\$1600 part or full day
Deposition or Court Appearance Rate .....	\$250/hour
Preparation at consulting-service rates .....	as listed above

**Drilling Services (CME-55 drilling rig)**

7-5/8 and 9-5/8-inch OD augers with operator and helper.....	(See drilling schedule of fees)
Mobilization.....	

**Other In-House Equipment**

Test pumps (submersible, through 5 HP).....	quoted/job
Campbell 21X data loggers w/ transducers (water and gas) .....	quoted/job
Conductivity, oxygen, temperature and dissolved oxygen probes .....	quoted/job
Meteorological station (wind direction and velocity) .....	quoted/job
Gas-extraction and air-monitoring pumps .....	quoted/job
Mileage .....	\$0.70
Mileage (drilling rig) .....	\$1.00
Per diem – Northern CA/Oregon (per person/day; may vary dep. upon location) .....	\$200/night
Per diem – Southern CA (per person/day; may vary dep. upon location).....	\$250/night
Level D protection (per person/day) .....	\$30/day
Survey equipment (per day).....	\$50/day
GPS Survey (per day) .....	\$150/day

**Expenses, Materials, Outside Services**

(All direct-job related expenses: reproduction, rental equipment, materials, subcontracted labor and equipment).....	at cost + 15%
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IN WITNESS WHEREOF, County and Contractor have executed this first addendum on the dates set forth below, each signatory represents that they have the authority to execute this agreement and to bind the Party on whose behalf their execution is made.

COUNTY OF SISKIYOU

Date: 6/30/2025

Signed by:  
Nancy Ogren  
NANCY OGREN, CHAIR  
Board of Supervisors  
County of Siskiyou  
State of California

ATTEST:  
LAURA BYNUM  
Clerk, Board of Supervisors

By: Wendy Winingham  
Deputy

Date: 6/4/2025

CONTRACTOR: Lawrence & Associates, Inc.  
Signed by:  
Clayton E. Coles  
Clayton E. Coles, President

Date: 6/4/2025

Signed by:  
Bonnie Lampley  
Bonnie Lampley, Vice President

License No.: Professional Geologist No. 6541 and 5634  
(Licensed in accordance with an act providing for the registration of contractors)

Note to Contractor: For corporations, the contract must be signed by two officers. The first signature must be that of the chairman of the board, president or vice-president; the second signature must be that of the secretary, assistant secretary, chief financial officer or assistant treasurer. (Civ. Code, Sec. 1189 & 1190 and Corps. Code, Sec. 313.)

TAXPAYER I.D. 94-2661102

ACCOUNTING:

Fund	Organization	Account	Activity Code (if applicable)
5350	404010	723000	

Encumbrance number (if applicable):

If not to exceed, include amount not to exceed: \$515,358.00  
FY 25/26 \$86,793.00  
FY 26/27 \$86,793.00  
FY 27/28 \$86,793.00

*If needed for multi-year contracts, please include separate sheet with financial information for each fiscal year.*

# Agenda Worksheet

**Submit completed worksheet to:**  
Siskiyou County Clerk, 311 Fourth St., Rm 201, Yreka, CA 96097

Regular  Time Requested: 5 mins Meeting Date: 05/03/2022

OR

Consent

Contact Person/Department: Amanda Kimball, General Service Phone: 842-8272

Address: 190 Greenhorn Rd, Yreka CA 96097

Person Appearing/Title: Joy Hall and Amanda Kimball General Service

## Subject/Summary of Issue:

Lawrence & Associates

General Services would like to enter in to a contract with Lawrence & Associates for the Landfill Gas and Groundwater monitoring and reporting, and regulatory assistance for various Siskiyou County Landfills.

This contract is for FY 22/23, 23/24, 24/25 with a not to exceed amount of \$84,993 per fiscal year for a total contracted amount of \$254,979

## Financial Impact:

NO  Describe why no financial impact:

YES  Describe impact by indicating amount budgeted and funding source below

Amount: \$84,993

Fund: 5350 Description: Sanitation Org.: 404010 Description: Sanitation

Account: 723000 Description: Prof Srvs

Activity Code: \_\_\_\_\_ Description: \_\_\_\_\_

Local Preference: YES  NO

For Contracts – Explain how vendor was selected: RFP process

Additional Information:

## Recommended Motion:

Move to approve the contract with Lawrence & Associates

### Reviewed as recommended by policy:

County Counsel \_\_\_\_\_

Auditor \_\_\_\_\_

Personnel \_\_\_\_\_

CAO \_\_\_\_\_

### Special Requests:

Certified Minute Order(s) \_\_\_\_\_

Quantity: \_\_\_\_\_

Other: \_\_\_\_\_

**NOTE: For consideration for placement on the agenda, the original agenda worksheet and backup material must be submitted directly to the Board Clerk (after reviewing signatures have been obtained) by 10:00 a.m. on the Monday the week prior to the Board Meeting.**

VN#	@00004139			
CT#	E2300043			
ACCT:	5350	-	404010	- 723000
CT AMT:	-	\	\$ 84,993.00	
	Annual		Total	

**COUNTY OF SISKIYOU  
CONTRACT FOR SERVICES**

VN#	@00004139		
CT#	E2400307		
ACCT:	5350	404010	- 723000
ACCT:			
CT AMT:		\$ 84,993.00	KS
	Annual	Total	

This Contract is entered into on the date when it has been both approved by the Board and signed by all other parties to it.

COUNTY: Siskiyou County Department of General Services  
190 Greenhorn Road  
Yreka, CA 96097

And

CONTRACTOR: Lawrence & Associates, Inc.  
3590 Iron Court  
Shasta Lake, CA 96019

**ARTICLE 1. TERM OF CONTRACT**

**1.01** Contract Term: This Contract shall become effective on July 1, 2022 and shall terminate on June 30, 2025, unless terminated in accordance with the provisions of Article 7 of this Contract or as otherwise provided herein.

**ARTICLE 2. INDEPENDENT CONTRACTOR STATUS**

**2.01** Independent Contractor: It is the express intention of the parties that Contractor is an independent contractor and not an employee, agent, joint venture or partner of County. Nothing in this Contract shall be interpreted or construed as creating or establishing the relationship of employer and employee between County and Contractor or any employee or agent of Contractor. Both parties acknowledge that Contractor is not an employee for state or federal tax purposes. Contractor shall retain the right to perform services for others during the term of this Contract.

**ARTICLE 3. SERVICES**

**3.01** Scope of Services: Contractor agrees to furnish the following services: Contractor shall provide the services described in Exhibit "A" attached hereto.

No additional services shall be performed by Contractor unless approved in advance in writing by the County stating the dollar value of the services, the method of payment, and any adjustment in contract time or other contract terms. All such services are to be coordinated with County and the results of the work shall be monitored by the Director of General Services or his or her designee.

To the extent that Exhibit A contains terms in conflict with this Contract or to the extent that it seeks to supplement a provision regarding a subject already fully addressed in this Contract, including a clause similar to this seeking to render its language superior to conflicting language in this Contract, such language is

hereby expressly deemed null and void by all parties upon execution of this Contract.

- 3.02** Method of Performing Services: Contractor will determine the method, details, and means of performing the above-described services including measures to protect the safety of the traveling public and Contractor's employees. County shall not have the right to, and shall not, control the manner or determine the method of accomplishing Contractor's services.
- 3.03** Employment of Assistants: Contractor may, at the Contractor's own expense, employ such assistants as Contractor deems necessary to perform the services required of Contractor by this Contract. County may not control, direct, or supervise Contractor's assistants or employees in the performance of those services.

#### **ARTICLE 4. COMPENSATION**

- 4.01** Compensation: In consideration for the services to be performed by Contractor, County agrees to pay Contractor in proportion to services satisfactorily performed as specified in Exhibit A, the not to exceed amount of Eighty-Four Thousand Nine Hundred Ninety-Three Dollars and no/100 (\$84,993) per fiscal year of 22/23, 23/24, and 24/25 and not to exceed Two Hundred Fifty-Four Thousand Nine Hundred Seventy-Nine Dollars and no/100 cents (\$ 254,979.00) for the term of the contract.
- 4.02** Invoices: Contractor shall submit detailed invoices for all services being rendered.
- 4.03** Date for Payment of Compensation: County will endeavor to make payment within 30 days of receipt of invoices from the Contractor to the County, and approval and acceptance of the work by the County.
- 4.04** Expenses: Contractor shall be responsible for all costs and expenses incident to the performance of services for County, including but not limited to, all costs of materials, equipment, all fees, fines, licenses, bonds or taxes required of or imposed against Contractor and all other of Contractor's costs of doing business. County shall not be responsible for any expense incurred by Contractor in performing services for County.

#### **ARTICLE 5. OBLIGATIONS OF CONTRACTOR**

- 5.01** Contractor Qualifications: Contractor warrants that Contractor has the necessary licenses, experience and technical skills to provide services under this Contract.
- 5.02** Contract Management: Contractor shall report to the (Department Head) or his or her designee who will review the activities and performance of the Contractor and administer this Contract.
- 5.03** Tools and Instrumentalities: Contractor will supply all tools and instrumentalities required to perform the services under this Contract. Contractor is not required to purchase or rent any tools, equipment or services from County.
- 5.04** Workers' Compensation: Contractor shall maintain a workers' compensation plan covering all its employees as required by California Labor Code Section 3700, either through workers' compensation insurance issued by an insurance

company or through a plan of self-insurance certified by the State Director of Industrial Relations. If Contractor elects to be self-insured, the certificate of insurance otherwise required by this Contract shall be replaced with a consent to self-insure issued by the State Director of Industrial Relations. Proof of such insurance shall be provided before any work is commenced under this contract. No payment shall be made unless such proof of insurance is provided.

- 5.05** Indemnification: Contractor shall indemnify and hold County harmless against any and all liability imposed or claimed, including attorney's fees and other legal expenses, arising directly or indirectly from any act or failure of Contractor or Contractor's assistants, employees, or agents, including all claims relating to the injury or death of any person or damage to any property. Contractor agrees to maintain a policy of liability insurance in the minimum amount of (\$1,000,000) One Million Dollars, to cover such claims or in an amount determined appropriate by the County Risk Manager. If the amount of insurance is reduced by the County Risk Manager such reduction must be in writing. Contractor shall furnish a certificate of insurance evidencing such insurance and naming the County as an additional insured for the above-cited liability coverage prior to commencing work. It is understood that the duty of Contractor to indemnify and hold harmless includes the duty to defend as set forth in Section 2778 of the California Civil Code. Acceptance by County of insurance certificates and endorsements required under this Contract does not relieve Contractor from liability or limit Contractor's liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply. By execution of this Contract, Contractor acknowledges and agrees to the provisions of this Section and that it is a material element of consideration.
- 5.06** General Liability and Automobile Insurance: During the term of this Contract, Contractor shall obtain and keep in full force and effect a commercial, general liability and automobile policy or policies of at least (\$1,000,000) One Million Dollars, combined limit for bodily injury and property damage; the County, its officers, employees, volunteers and agents are to be named additional insured under the policies, and the policies shall stipulate that this insurance will operate as primary insurance for work performed by Contractor and its sub-contractors, and that no other insurance effected by County or other named insured will be called on to cover a loss covered thereunder. All insurance required herein shall be provided by a company authorized to do business in the State of California and possess at least a Best A:VII rating or as may otherwise be acceptable to County. The General Liability insurance shall be provided by an ISO Commercial General Liability policy, with edition dates of 1985, 1988, or 1990 or other form satisfactory to County. The County will be named as an additional insured using ISO form CG 2010 1185 or the same form with an edition date no later than 1990, or in other form satisfactory to County.
- 5.07** Certificate of Insurance and Endorsements: Contractor shall obtain and file with the County prior to engaging in any operation or activity set forth in this Contract, certificates of insurance evidencing additional insured coverage as set forth in paragraphs 5.04 and 5.10 and which shall provide that no cancellation, reduction in coverage or expiration by the insurance company will be made during the term

of this Contract, without thirty (30) days written notice to County prior to the effective date of such cancellation. **Naming the County as a “Certificate Holder” or other similar language is NOT sufficient satisfaction of the requirement.** Prior to commencement of performance of services by Contractor and prior to any obligations of County, contractor shall file certificates of insurance with County showing that Contractor has in effect the insurance required by this Contract. Contractor shall file a new or amended certificate on the certificate then on file. **If changes are made during the term of this Contract, no work shall be performed under this agreement, and no payment may be made until such certificate of insurance evidencing the coverage in paragraphs, 5.05, the general liability policy set forth in 5.06 and 5.10 are provided to County.**

- 5.08** Public Employees Retirement System (CalPERS): In the event that Contractor or any employee, agent, or subcontractor of Contractor providing services under this Contract is determined by a court of competent jurisdiction or the Public Employees Retirement System (CalPERS) to be eligible for enrollment in CalPERS as an employee of the County, Contractor shall indemnify, defend, and hold harmless County for the payment of any employee and/or employer contributions of CalPERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of County. Contractor understands and agrees that his personnel are not, and will not be, eligible for memberships in, or any benefits from, any County group plan for hospital, surgical or medical insurance, or for membership in any County retirement program, or for paid vacation, paid sick leave, or other leave, with or without pay, or for any other benefit which accrues to a County employee.
- 5.09** IRS/FTB Indemnity Assignment: Contractor shall defend, indemnify, and hold harmless the County, its officers, agents, and employees, from and against any adverse determination made by the Internal Revenue Service of the State Franchise Tax Board with respect to Contractor’s “independent contractor” status that would establish a liability for failure to make social security and income tax withholding payments.
- 5.10** Professional Liability: If Contractor or any of its officers, agents, employees, volunteers, contractors or subcontractors are required to be professionally licensed or certified by any agency of the State of California in order to perform any of the work or services identified herein, Contractor shall procure and maintain in force throughout the duration of the Contract a professional liability insurance policy with a minimum coverage level of (\$1,000,000) One Million Dollars, or as determined in writing by County’s Risk Management Department.
- 5.11** State and Federal Taxes: As Contractor is not County’s employee, Contractor is responsible for paying all required state and federal taxes. In particular:
- a. County will not withhold FICA (Social Security) from Contractor’s payments;

- b. County will not make state or federal unemployment insurance contributions on behalf of Contractor.
- c. County will not withhold state or federal income tax from payment to Contractor.
- d. County will not make disability insurance contributions on behalf of Contractor.
- e. County will not obtain workers' compensation insurance on behalf of Contractor.

**5.12** Records: All reports and other materials collected or produced by the Contractor or any subcontractor of Contractor shall, after completion and acceptance of the Contract, become the property of County, and shall not be subject to any copyright claimed by the Contractor, subcontractor, or their agents or employees. Contractor may retain copies of all such materials exclusively for administration purposes. Any use of completed or uncompleted documents for other projects by Contractor, any subcontractor, or any of their agents or employees, without the prior written consent of County is prohibited. It is further understood and agreed that all plans, studies, specifications, data magnetically or otherwise recorded on computer or computer diskettes, records, files, reports, etc., in possession of the Contractor relating to the matters covered by this Contract shall be the property of the County, and Contractor hereby agrees to deliver the same to the County upon request. It is also understood and agreed that the documents and other materials including but not limited to those set forth hereinabove, prepared pursuant to this Contract are prepared specifically for the County and are not necessarily suitable for any future or other use.

**5.13** Contractor's Books and Records: Contractor shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for services or expenditures and disbursements charged to the County for a minimum of five (5) years, or for any longer period required by law, from the date of final payment to the Contractor under this Contract. Any records or documents required to be maintained shall be made available for inspection, audit and/or copying at any time during regular business hours, upon oral or written request of the County.

**5.14** Assignability of Contract: It is understood and agreed that this Contract contemplates personal performance by the Contractor and is based upon a determination of its unique personal competence and experience and upon its specialized personal knowledge. Assignments of any or all rights, duties or obligations of the Contractor under this Contract will be permitted only with the express written consent of the County.

**5.15** Warranty of Contractor: Contractor warrants that it, and each of its personnel, where necessary, are properly certified and licensed under the laws and regulations of the State of California to provide the special services agreed to.

**5.16** Withholding for Non-Resident Contractor: Pursuant to California Revenue and Taxation Code Section 18662, payments made to nonresident independent contractors, including corporations and partnerships that do not have a

permanent place of business in this state, are subject to 7 percent state income tax withholding.

Withholding is required if the total yearly payments made under this contract exceed \$1,500.00.

Unless the Franchise Tax Board has authorized a reduced rate or waiver of withholding and County is provided evidence of such reduction/waiver, all nonresident contractors will be subject to the withholding. It is the responsibility of the Contractor to submit the Waiver Request (Form 588) to the Franchise Tax Board as soon as possible in order to allow time for the Franchise Tax Board to review the request.

- 5.17** Compliance with Child, Family and Spousal Support Reporting Obligations: Contractor's failure to comply with state and federal child, family and spousal support reporting requirements regarding contractor's employees or failure to implement lawfully served wage and earnings assignment orders or notices of assignment relating to child, family and spousal support obligations shall constitute a default under this Contract. Contractor's failure to cure such default within ninety (90) days of notice by County shall be grounds for termination of this Contract.
- 5.18** Conflict of Interest: Contractor covenants that it presently has no interest and shall not acquire an interest, direct or indirect, financial or otherwise, which would conflict in any manner or degree with the performance of the services hereunder. Contractor further covenants that, in the performance of this Contract, no subcontractor or person having such an interest shall be used or employed. Contractor certifies that no one who has or will have any financial interest under this contract is an officer or employee of County.
- 5.19** Compliance with Applicable Laws: Contractor shall comply with all applicable federal, state and local laws now or hereafter in force, and with any applicable regulations, in performing the work and providing the services specified in this Contract. This obligation includes, without limitations, the acquisition and maintenance of any permits, licenses, or other entitlements necessary to perform the duties imposed expressly or impliedly under this Contract.
- 5.20** Bankruptcy: Contractor shall immediately notify County in the event that Contractor ceases conducting business in the normal manner, becomes insolvent, makes a general assignment for the benefit of creditors, suffer or permits the appointment of a receiver for its business or assets, or avails itself of, or becomes subject to, any proceeding under the Federal Bankruptcy Act or any other statute of any state relating to insolvency or protection of the rights of creditors.

## ARTICLE 6. OBLIGATIONS OF COUNTY

- 6.01** Cooperation of County: County agrees to comply with all reasonable requests of Contractor (to provide reasonable access to documents and information as permitted by law) necessary to the performance of Contractor's duties under this Contract.

## ARTICLE 7. TERMINATION

- 7.01** Termination on Occurrence of State Events: This Contract shall terminate automatically on the occurrence of any of the following events:
1. Bankruptcy or insolvency of Contractor
  2. Death of Contractor
- 7.02** Termination by County for Default of Contractor: Should Contractor default in the performance of this Contract or materially breach any of its provisions, County, at County's option, may terminate this Contract by giving written notification to Contractor.
- 7.03** Termination for Convenience of County: County may terminate this Contract at any time by providing a notice in writing to Contractor that the Contract is terminated. Said Contract shall then be deemed terminated and no further work shall be performed by Contractor. If the Contract is so terminated, the Contractor shall be paid for that percentage of the phase of work actually completed, based on a pro rata portion of the compensation for said phase satisfactorily completed at the time of notice of termination is received.
- 7.04** Termination of Funding: County may terminate this Contract in any fiscal year in that it is determined there is not sufficient funding. California Constitution Article XVI Section 18.

## ARTICLE 8. GENERAL PROVISIONS

- 8.01** Notices: Any notices to be given hereunder by either party to the other may be effected either by personal delivery in writing or by mail, registered or certified, postage prepaid or return receipt requested. Mailed notices shall be addressed to the parties at the addresses appearing in the introductory paragraph of this Contract, but each party may change the address by written notice in accordance with the paragraph. Notices delivered personally will be deemed communicated as of actual receipt; mailed notices will be deemed communicated as of two (2) days after mailing.
- 8.02** Entire Agreement of the Parties: This contract supersedes any and all contracts, either oral or written, between the Parties hereto with respect to the rendering of services by Contractor for County and contains all the covenants and contracts between the parties with respect to the enduring of such services in any manner whatsoever. Each Party to this Contract acknowledges that no representations, inducements, promises, or contract, orally or otherwise, have been made by any party, or anyone acting on behalf of any Party, which are not embodied herein,

and that no other contract, statement, or promise not contained in this Contract shall be valid or binding. Any modification of this Contract will be effective only if it is in writing signed by the Party to be charged and approved by the County as provided herein or as otherwise required by law.

- 8.03** Partial Invalidity: If any provision in this Contract is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provision will nevertheless continue in full force without being impaired or invalidated in any way.
- 8.04** Attorney's Fees: If any action at law or in equity, including an action for declaratory relief, is brought to enforce or interpret the provisions of this Contract, the prevailing Party will be entitled to reasonable attorney's fees, which may be set by the court in the same action or in a separate action brought for that purpose, in addition to any other relief to which that party may be entitled.
- 8.05** Conformance to Applicable Laws: Contractor shall comply with the standard of care regarding all applicable federal, state and county laws, rules and ordinances. Contractor shall not discriminate in the employment of persons who work under this contract because of race, the color, national origin, ancestry, disability, sex or religion of such person.
- 8.06** Waiver: In the event that either County or Contractor shall at any time or times waive any breach of this Contract by the other, such waiver shall not constitute a waiver of any other or succeeding breach of this Contract, whether of the same or any other covenant, condition or obligation.
- 8.07** Governing Law: This Contract and all matters relating to it shall be governed by the laws of the State of California and the County of Siskiyou and any action brought relating to this Contract shall be brought exclusively in a state court in the County of Siskiyou.
- 8.08** Reduction of Consideration: Contractor agrees that County shall have the right to deduct from any payments contracted for under this Contract any amount owed to County by Contractor as a result of any obligation arising prior or subsequent to the execution of this contract. For purposes of this paragraph, obligations arising prior to the execution of this contract may include, but are not limited to any property tax, secured or unsecured, which tax is in arrears. If County exercises the right to reduce the consideration specified in this Contract, County shall give Contractor notice of the amount of any off-set and the reason for the deduction.
- 8.09** Negotiated Contract: This Contract has been arrived at through negotiation between the parties. Neither party is to be deemed the party which prepared this Contract within the meaning of California Civil Code Section 1654. Each party hereby represents and warrants that in executing this Contract it does so with full knowledge of the rights and duties it may have with respect to the other. Each party also represents and warrants that it has received independent legal advice

from its attorney with respect to the matters set forth in this Contract and the rights and duties arising out of this Contract, or that such party willingly foregoes any such consultation.

- 8.10** Time is of the Essence: Time is of the essence in the performance of this Contract.
- 8.11** Materiality: The parties consider each and every term, covenant, and provision of this Contract to be material and reasonable.
- 8.12** Authority and Capacity: Contractor and Contractor's signatory each warrant and represent that each has full authority and capacity to enter into this Contract.
- 8.13** Binding on Successors: All of the conditions, covenants and terms herein contained shall apply to, and bind, the heirs, successors, executors, administrators and assigns of Contractor. Contractor and all of Contractor's heirs, successors, executors, administrators, and assigns shall be jointly and severally liable under the Contract.
- 8.14** Cumulation of Remedies: All of the various rights, options, elections, powers and remedies of the parties shall be construed as cumulative, and no one of them exclusive of any other or of any other legal or equitable remedy which a party might otherwise have in the event of a breach or default of any condition, covenant or term by the other party. The exercise of any single right, option, election, power or remedy shall not, in any way, impair any other right, option, election, power or remedy until all duties and obligations imposed shall have been fully performed.
- 8.15** No Reliance On Representations: Each party hereby represents and warrants that it is not relying, and has not relied upon any representation or statement made by the other party with respect to the facts involved or its rights or duties. Each party understands and agrees that the facts relevant, or believed to be relevant to this Contract, may hereunder turn out to be other than, or different from the facts now known to such party as true, or believed by such party to be true. The parties expressly assume the risk of the facts turning out to be different and agree that this Contract shall be effective in all respects and shall not be subject to rescission by reason of any such difference in facts.

**(SIGNATURES ON FOLLOWING PAGE)**

IN WITNESS WHEREOF, County and Contractor have executed this agreement on the dates set forth below, each signatory represents that he/she has the authority to execute this agreement and to bind the Party on whose behalf his/her execution is made.

COUNTY OF SISKIYOU

Date: 5/19/2022

DocuSigned by:  
Brandon A. Criss  
BRANDON A. CRISS, CHAIR  
Board of Supervisors  
County of Siskiyou  
State of California

ATTEST:  
LAURA BYNUM  
Clerk, Board of Supervisors

By: Wendy Wittingham  
Deputy

Date: 4/26/2022

Date: 4/26/2022

CONTRACTOR: Lawrence & Associates, Inc.  
Bonnie Lampley  
Bonnie Lampley, President  
Clayton Coles, Vice President  
Clayton E. Coles, Vice President

License No.: Professional Geologist No. 6541 and 5634  
(Licensed in accordance with an act providing for the registration of contractors)

Note to Contractor: For corporations, the contract must be signed by two officers. The first signature must be that of the chairman of the board, president or vice-president; the second signature must be that of the secretary, assistant secretary, chief financial officer or assistant treasurer. (Civ. Code, Sec. 1189 & 1190 and Corps. Code, Sec. 313.)

TAXPAYER I.D. 94-2661102

ACCOUNTING:  
Fund      Organization      Account  
5350      404010      723000

Encumbrance number (if applicable)

If not to exceed, include amount not to exceed:  
FY 22/23 \$84,993.00  
FY 23/24 \$84,993.00  
FY 24/25 \$84,993.00

*If needed for multi-year contracts, please include separate sheet with financial information for each fiscal year.*



P022006.00

January 14, 2022

Ms. Joy Hall & Mr. Jason Ledbetter  
 Siskiyou County Department of General Services  
 190 Greenhorn Road  
 Yreka, CA 96097

Dear Joy and Jason:

**SUBJECT: RFP # 22-01 PROPOSAL FOR LANDFILL GAS AND GROUNDWATER MONITORING AND REPORTING, AND REGULATORY ASSISTANCE FOR VARIOUS SISKIYOU COUNTY LANDFILLS FROM FISCAL YEARS 2022/2023 THROUGH 2024/2025 (JULY 1, 2022 THROUGH JUNE 30, 2025), SISKIYOU COUNTY, CALIFORNIA**

Lawrence & Associates (L&A) is pleased to present this proposal per RFP # 22-01 to perform landfill-gas and groundwater-monitoring and reporting for Black Butte, McCloud, Yreka, Tulelake, and Happy Camp Landfills, Siskiyou County, California. **ATTACHMENT A** presents L&A's Statement of Qualifications; **ATTACHMENT B** presents L&A's Company Profile, including a Staff Organizational Chart; **ATTACHMENT C** presents our Approach to performing the requested scope of work; **ATTACHMENT D** presents our List of References; **ATTACHMENT E** presents our Price Proposal and Schedule of Fees.

The cost of the work to be conducted by L&A is estimated to be \$84,998 per fiscal year (**ATTACHMENT E**), which will be billed on a time and expense basis, as shown on the Schedule of Fees (**Attachment E**). L&A understands Siskiyou County General Services will continue to sample surface water and storm water at all landfill sites, and will continue paying all laboratory costs directly.

If you would like us to perform the work, please incorporate the attached proposal into your contract and provide us copies for signature. Please call me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads 'Karl Swanson'.

Karl Swanson  
 Senior Engineering Geologist

Enclosures: **ATTACHMENT A** – STATEMENT OF QUALIFICATIONS  
**ATTACHMENT B** – COMPANY PROFILE  
**ATTACHMENT C** – APPROACH  
**ATTACHMENT D** – REFERENCES  
**ATTACHMENT E** – PRICE PROPOSAL

**ATTACHMENT A**  
**STATEMENT OF QUALIFICATIONS**



## STATEMENT OF QUALIFICATIONS

### INTRODUCTION

Lawrence & Associates (L&A) is an environmental engineering firm specializing in hydrogeology, engineering geology, and civil engineering. L&A has been in business since 1976. L&A has developed a range of expertise that includes regulatory and environmental compliance for industrial and public facilities, and design of infrastructure for those facilities.

Principals of L&A include Ms. Bonnie Lampley, President; Mr. Clayton Coles, Vice President and General Manager; Mr. Bryan Gartner; Mr. David Kirk; and Mr. Dan Jensen. Mr. Jensen is a licensed well driller in California and Oregon; the other principals are professional geologists with multiple other certifications. A description of the key professionals at L&A, including their qualifications, is presented in **ATTACHMENT B**.

L&A is located in the Gateway Business Park in the City of Shasta Lake, Shasta County, California. Our core client groups are primarily County and municipal government, energy utilities, manufacturing industries, and various other private companies. Our primary geographical area of operation includes northern California, southern Oregon, and western Nevada.

The following services are briefly summarized in this Statement of Qualifications:

- Regulatory Compliance
- Civil Engineering
- Waste Management
- Surface-Water Engineering & Water Rights
- Groundwater Investigations and Engineering
- Environmental Services
- Geology & Engineering Geology
- Environmental and Geotechnical Drilling

## REGULATORY COMPLIANCE

L&A provides regulatory compliance for industrial sites such as power generating facilities, lumber mills, landfills, transfer stations, fueling facilities and truck stops, equipment maintenance facilities, and other industrial facilities. Services related to regulatory compliance include, but are not limited to:

- Spill Prevention Control & Countermeasure (SPCC) plans, general industrial and construction Stormwater Pollution Prevention Plans (SWPPP), Hazardous Materials Business Plans (HMBP) and SB 14 Hazardous Waste Reduction Plans and reporting;
- Best Practicable Treatment and Control Plans (BPTC); and
- Environmental Audits, Environmental Site Management reports, and other compliance documents.
- Mandatory Greenhouse Gas (GHG) Reporting.
- Toxicity Release Inventory (TRI) Reporting.
- Regional Water Quality Control Board (RWQCB) permitting, reporting, and consulting, including: National Pollution Discharge Elimination System (NPDES) permitting (Waste Discharge Requirements, General Industrial Storm Water, and Construction related); Report of Waste Discharge (ROWD), Joint Technical Reports, Salinity Studies, Toxicity Reduction Evaluations (TRE), sampling work plans, water-balance modeling and calculations, monitoring/sampling/reporting, both groundwater and surface-water assessments, antidegradation studies, and client advocacy in working with a complex regulatory community.
- Air permitting support, including Permits to Operate, Title V Operating Permits, source test review, and emissions estimates.
- Land development and CEQA support, including site assessment, planning agency coordination, land use and building permitting support.
- Facility operations support, including site-specific training, permit navigation, semi-annual compliance observations, annual refresher training, reporting and monitoring quality assurance review, and on-call support (as needed).



Examples of recent key projects include:

- NPDES Permitting, SWPPPs and SPCCs for industries, including Humboldt Waste Management Authority, Covanta Energy Company, Waste Management, Sierra Pacific Industries, Humboldt Redwood Company, Papé Machinery and Material Handling, and government entities, including the City of Redding, Glenn County, Trinity County, Siskiyou County, and others;
- HMBPs for at least 30 industrial facilities located in California. HMBPs were prepared for the French Gulch Nevada Mining Corporation (Washington Mine), Papé Kenworth and Papé



Machinery facilities, Shasta Wheelabrator Energy Company, and others; and

- BPTCs were prepared for several cogeneration facilities throughout northern California, for Covanta, Shasta and Lassen Wheelabrator Energy Company, Sierra Pacific Industries, and others.

## **CIVIL ENGINEERING**

The core of our civil engineering services is extensive experience in public and industrial infrastructure, including specific experience in the wood-products and timber industry.

L&A has considerable experience in several specialties:

- Spill Prevention Control & Countermeasures (SPCC) plans and SWPPPs for municipal and industrial facilities;
- Design of stormwater containment or detention ponds and structures;
- Design of industrial and community water wells;
- Design of small community water-supply systems, including distribution and storage;
- Flood plain and hydrologic modeling analysis;
- Design of small community and decentralized wastewater systems including pond and liner designs;
- Underground and aboveground fueling facility design, permitting and compliance;
- Solid waste design (landfills, transfer stations, recycling facilities);
- Designs, specifications, and bids for parks, resorts, and golf courses; and
- Cost estimating and project management.



Examples of civil engineering projects include designs for the following projects:

- Glenn County Transfer Station;
- Siskiyou County Oberlin Road Transfer Station tipping pad canopy.
- Potrero Hills Landfill office complex.
- Tehama/Red Bluff Landfill entrance booth and scales.
- Benton Airpark runway overrun project, including construction management;
- Reservoir design, City of Fort Bragg;
- Reservoir liner design, City of Ukiah;



- Juvenile detention facilities in Trinity and Siskiyou County (and feasibility studies, grant writing, and project management for the Trinity facility);
- Sewer line extension for the Weaverville Transfer Station;
- Community water system for the Sierra Pacific Industries residential development in Shingletown;
- Mount Lassen Power (Lake Almanor) steel building and heavy-equipment wash facility; and
- Community wastewater treatment systems for multiple developments and resorts on Lake Almanor and Shasta Lake.



## **WASTE MANAGEMENT**

L&A has over 30 years of experience in regulatory compliance and design for solid waste facilities, including landfills, recycling facilities, composting facilities, transfer stations and material recovery facilities (MRF). Our experience includes:

- Master planning, siting, permitting, and compliance documents, including Reports of Waste Discharge (ROWD), Joint Technical Documents (JTD), Closure Plans, groundwater/landfill-gas monitoring, air-quality monitoring, and other documents, permits, and plans;
- Designs for landfill liners, leachate and wastewater ponds, infrastructure, transfer stations, picking and sorting lines, monitoring systems, landfill-gas extraction systems;
- Hazardous-waste generation, handling and disposal permitting for industrial facilities;
- Permitting and compliance for composting and recycling facilities;
- Construction services including phasing, budgeting, planning, special inspection, and construction management; and
- Operation support, including fill sequencing, budgeting, on-call regulatory and permitting assistance, and operation of landfill-gas extraction systems.



We currently provide services to over 20 landfill sites in California, plus related transfer stations, MRF, composting, recycling, maintenance, and hauling facilities.

## **GROUNDWATER INVESTIGATIONS & ENGINEERING**

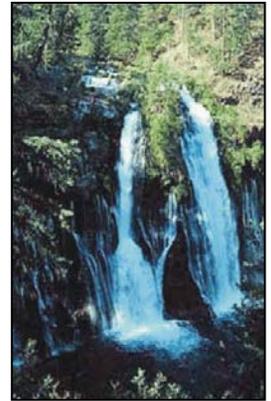
L&A conducts groundwater investigations and engineering for public, private, and industrial clients. Most of our work falls into the following categories:

- Community or Industrial Well Design – In most groundwater basins, the construction methods of community or industrial wells is critical to ensure proper performance and water quality and minimize water treatment costs. L&A provides services from siting to minimizing interference through design, bidding, logging,



inspection and testing of these wells, including modeling to evaluate interference, logging, water testing to identify strata with undesirable water quality (commonly high arsenic) and then determining the screened intervals and performing step and continuous-discharge aquifer tests;

- Proof of Water and Well Interference Analysis – When groundwater is used as a source of water for a development or industrial project, the entitlement process, specifically, the California Environmental Quality Act (CEQA), requires that project proponent demonstrate availability of water without significant impacts to the aquifer and excessive drawdown on neighboring wells. L&A has extensive experience in installing, testing, and analyzing wells for this purpose. We have coordinated installation and testing for wells ranging from less than 100 gpm to well over 2,000 gpm for this purpose and then preparing an accurate, defensible analysis of aquifer impacts and well interference; and
- Contaminant Fate, Transport, and Remediation – L&A performs evaluation of groundwater contaminant plumes from a wide variety of sources, evaluates the cost- effectiveness and various remediation strategies and then implements a remediation strategy. Technologies we use for groundwater remediation have included pump and treat, in-situ remediation using air sparging, oxygen diffusion, peroxide injection, ozone diffusion, and other methods. Ex-situ treatment methods have included carbon filtration, ozone/peroxide destruction, air stripping, aeration and other methods.



Examples of recent groundwater-supply projects in northern California include the following:

- Siting, design, and construction oversight for new production well, City of Weed.
- Analysis of pumping impacts for several projects in the City of Mendocino, per the City's Groundwater Ordinance.
- Production-well installation and testing, impacts analyses, SB 610/221 analyses, and/or groundwater modeling for multiple developments of various sizes (4 to 3,000+ homes, sometimes with commercial development) in Shasta and Tehama Counties. L&A's work typically includes development of water budgets, analysis of water availability, data analyses and interpretation, assessing pumping impacts, and reporting for Environmental Impact Reports;
- Drilling oversight and aquifer testing for the City of Redding municipal wells (Wells 12 through 25). L&A's work consisted of test-well design, logging, construction oversight, and water-quality sampling, and/or aquifer testing. L&A continues to provide technical services for municipal well development for the City;
- Impacts analysis for development of bottled-water source in Shasta County. L&A's work included aquifer testing of an existing shallow extraction well, stream gauging, water-quality evaluation, water-budget analysis, and reporting for inclusion in CEQA document;

- Evaluation of pumping impacts and permitting support for development of a State Small Water System in coastal Mendocino County;
- Evaluation of pumping and water-quality impacts and groundwater modeling for development of a regional park and golf course near Fort Bragg, Mendocino County. L&A's work included pumping- and observation-well installation in the regional aquifer, aquifer testing, piezometer installations in the shallow aquifer, water-quality monitoring, reporting, and technical contributions during public meetings; and
- Detailed analysis of the Burney Basin aquifer in support of an application for certification of a 500-megawatt gas-fired turbine power plant. L&A's work was conducted for the proposed Three Mountain Power Plant, in support of California Energy Commission (CEC) permitting. L&A's primary focus was to examine potential impacts of groundwater pumping on wells and stream flow in the basin.

### **SURFACE-WATER ENGINEERING & WATER RIGHTS**

L&A performs surface water investigations, analysis and engineering for a wide variety of purposes, including the following:

- Flood plain analysis using HEC-RAS, HEC-1, Hydromet, WMS, and other modeling, erosion control planning, and Fish & Game (1602), Army Corps of Engineers (401), and other permitting;
- Stream and spring hydrology and geomorphology assessments including methods such as depth estimation, stream bank reinforcement, and determination of bank-full flood levels for wetlands delineation;
- Peak storm-flow and stormwater detention analyses and design resulting in creative designs, such as porous pavement design, check dam detainment, subpavement culvert storage, and other systems, to manage flow;
- Water rights assessments, including development of conceptual models of springs and ditches, and stream gaging to evaluate water availability and use, to project water needs or provide expert testimony regarding water rights; and
- Erosion control plans and Storm Water Pollution Prevention Plans (SWPPP).



Examples of recent surface-water projects in northern California include the following:

- Analysis of hydrologic characteristics for the Benton Airpark Safety Overrun Project for the City of Redding;
- Hydrology and stormwater analyses for commercial and residential developments;
- Hydrology analyses for a new reservoir in Ukiah;
- Hydrologic and hydrogeologic analysis for a wetlands restoration project in Shingletown and a hydrologic analysis for a proposed feedlot in Tehama County;

- Analysis of a channel-scour for a bridge site in Trinity County and development of an erosion and sediment control plan for a 1,100-acre ranch in western Shasta County;
- Site survey and hydrology calculations for the expansion of a cogeneration facility in Anderson;
- Stream gauging to characterize and quantify flows related to water-rights issues in eastern Shasta County; and

## **ENVIRONMENTAL SERVICES**

L&A provides a variety of services, including environmental investigations, contaminant evaluations, corrective or remedial action planning, monitoring, and implementing corrective action on contaminated parcels.



L&A has performed hundreds of soil, surface water, and groundwater investigations at petroleum and other chemical leak/spill sites throughout northern California. Our clients include nation-wide as well as local truck stop and service-station chains, bulk plants, utilities, City and County agencies, and private landowners. L&A has experience at well over 300 contaminated sites in northern California, and currently provides investigation, monitoring, and/or corrective action at more than 40 underground storage tank sites and more than 25 municipal landfills.

Some of the projects conducted by L&A in the past five years include:

- Environmental investigations for the City of Shasta Lake, Shasta-Trinity-Tehama College District, City of Redding, and other entities;
- *In situ* corrective action utilizing bioventing for enhanced natural attenuation and ozone/peroxide injections at fuel facilities and contaminated sites in Tehama, Siskiyou, Shasta, and other northern California counties; and
- *Ex situ* corrective action at various northern California locations, such as a groundwater treatment and extraction systems for TravelCenters of America and excavation projects at bulk facilities in Shasta County.



## **GEOLOGY & ENGINEERING GEOLOGY**

Our mining experience includes providing geologic and hydrologic evaluation for a wide variety of both sand and gravel and hard-rock mining clients. Projects included production feasibility and aggregate-quality studies, ground- and surface-water evaluations for hard-rock and gravel mines, mineral surveys, evaluations for asbestos and mercury in gravel, erosion-control plans for aggregate plants, designs for sedimentation ponds, evaluation of reclamation plans and costs, 1603 Permits, 404 Permits, and State Waste Discharge Requirements.

Our engineering geology capabilities include extensive experience in landfill design and inspection, as well as slope-stability analysis and seismic evaluation, geologic reports for timber harvest plans, Alquist Priolo studies, erosion-control planning, and geologic consulting on various aspects, such as geology, soils, hazardous materials, surface-water hydrology, and groundwater impacts for environmental review reports (both CEQA and NEPA), including Environmental Impact Reports (EIR) and Environmental Impact Statements (EIS), and timber harvest plans.



Examples of recent key projects include the following:

- Geologic reports for timber harvest plans for various timber companies in Cascade, Klamath, and Sierra Nevada ranges of northern California;
- Landfill evaluations for litigation support at various locations;
- Geotechnical investigations for fiber optic sites in Tulelake and Tehama;
- Slope-stability and hydrogeologic evaluations of the Big Valley Quarry, Lassen County, for Hat Creek Construction;
- Design of waste rock storage, Report of Waste Discharge (ROWD), closure plan, and water-treatment system Initial Study for the Washington Mine, Shasta County;
- Development of a phased-closure plans for corrective action of municipal landfills for Siskiyou, Glenn, Shasta, Trinity, and Tehama Counties;
- Design of liner systems and gas-extraction systems for the Tehama, Shasta, and other municipal landfills; and
- Hydraulic and geologic analysis for an EIR for a proposed gravel-plant expansion in Glenn County.



## **ENVIRONMENTAL AND GEOTECHNICAL DRILLING**

L&A is a licensed drilling contractor (C57-539447) and owns and operates a 4-wheel drive CME-55 drill rig equipped with hollow-stem auger (HSA), air- and mud-rotary, and rock coring capabilities and an all-terrain 6-wheel ATV capable of drilling HSA and rock coring in less-consolidated or shallower holes. Both rigs are equipped for SPT testing. We have a full-time drill crew trained in a full range of technical disciplines.



## **RELATED SERVICES**

We possess drafting, surveying, and soil-testing capabilities to augment our work, providing high-quality in-house services to ensure that projects are completed in a timely and economical manner.

**ATTACHMENT B**  
**COMPANY PROFILE**



## 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 a staff of 15 and maintains a network of professionals that provide on-call support services. Most members of L&A's professional staff possess multiple certifications in geology, hydrogeology, engineering geology, and/or environmental assessment, providing an informed and technically-oriented approach to all projects.

### 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 the Trinity and Siskiyou Counties during construction of office/shop complexes, juvenile detention facilities, and senior housing projects; and 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 plan in northern California.

**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.

**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 and associated civil design. While at L&A, Mr. Brown has acted as project manager for civil engineering projects ranging from design of the Glenn County 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 of 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. He has most recently updated the SWPPPs for the Humboldt Waste Management Authority and Humboldt Redwood Companies and assisting with compliance through Level 1 and Level 2 ERA's at multiple facilities. Mr. Brown is currently the engineer in charge of design of a new transfer station, in Glenn County, new transfer station canopy structure in Siskiyou County, high strength floor repair in Humboldt County, new construction and demolition sort line installation in El Dorado Hills, Master Plan Amendment in Amador County, and ongoing consultant for environmental compliance at several facilities. Prior to joining L&A, Mr. Brown brings 24 years of experience in engineering, consulting, and project management related to site development and redevelopment, permitting, regulatory navigation, and the most recent 16 years related to the wood-products and timber industry, including clients such as Sierra Pacific Industries, California Redwood Company, and both Humboldt Redwood Company and Mendocino Forest Products. Specific to the Collins Companies, Mr. Brown is familiar with the Chester and Klamath Falls locations.

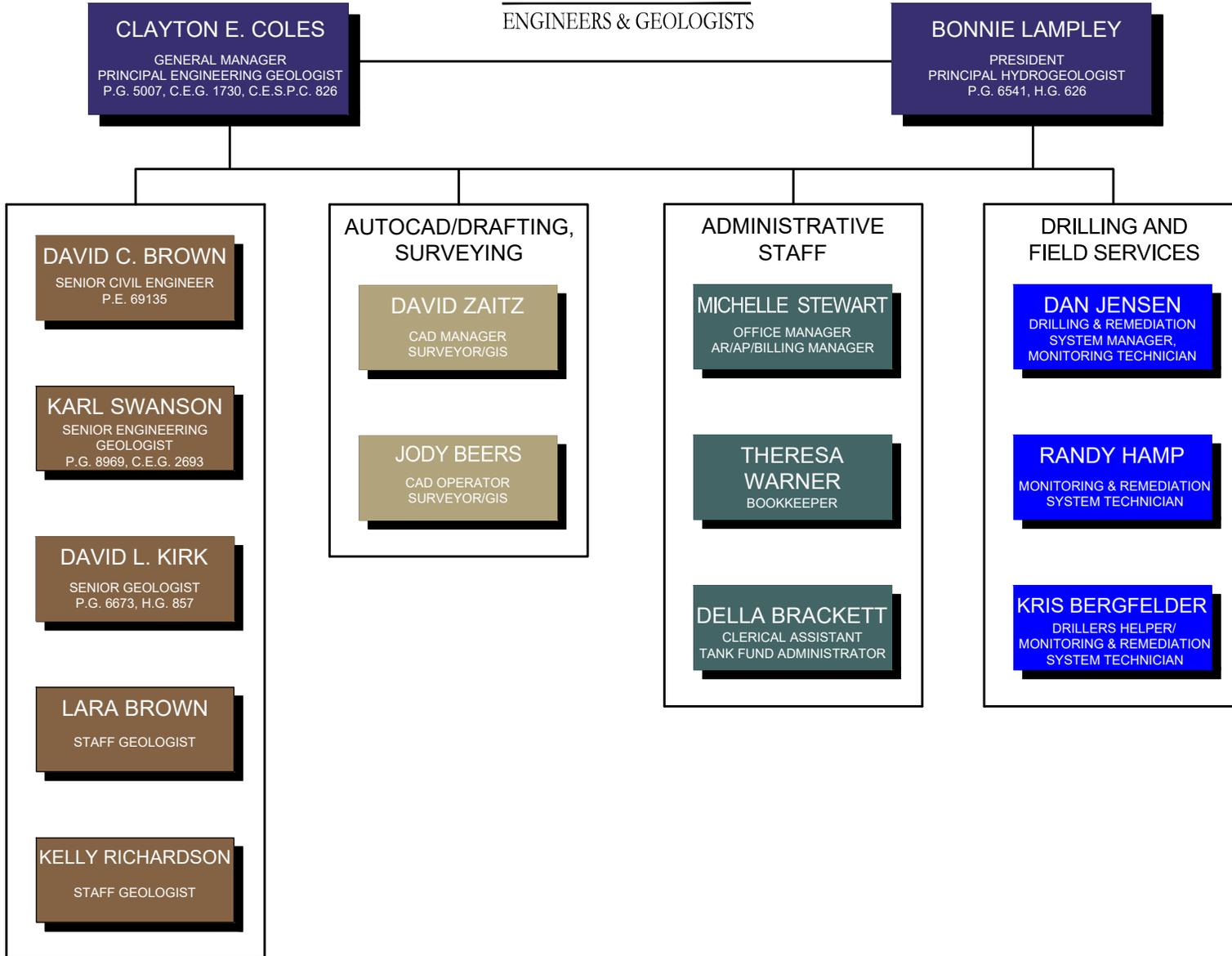
**Ms. Bonnie Lampley:** *CA Professional Geologist (PG) 6541 and CA Certified Hydrogeologist (CHG) 626.* President, Chief Financial Officer, and Principal Hydrogeologist of L&A. Ms. Lampley is responsible for management of all ground- and surface-water projects, statistical and water-chemistry applications, and technical review of all reports. Ms. Lampley is the head of our Groundwater division and is an authority on local and basin-wide hydrologic conditions throughout northern California. She conducts aquifer testing, groundwater/surface water resources assessments, groundwater modeling, and provides analysis of air-quality data and health-risk assessments in accordance with state regulations and hydrogeologic technical

support during litigation. Ms. Lampley also prepares statistical analysis of water-quality data and documents relating to environmental compliance.

**Mr. Bryan Gartner:** *CA Professional Geologist (PG) 5634, CA Certified Engineering Geologist (CEG) 1756, CA Certified Hydrogeologist (HG) 57, Oregon Certified Engineering Geologist (EG) 1431, QSD 21966, and QISP PG5634.* Vice President and Principal Engineering Geologist of L&A. Mr. Gartner is the head of our Stormwater and Environmental Site Assessment divisions. He has over 20 years of experience conducting: Phase I ESAs for residential, commercial, industrial, and forestland transactions; underground petroleum storage tank and other contaminated-site investigations; groundwater evaluations and groundwater monitoring-system designs; and preparing environmental documentation and permitting for existing and new landfills. Mr. Gartner also prepares General Industrial SWPPPs and Annual Reports, Landfill Closure Plans, and other documents relating to environmental compliance. Recent projects include site evaluations and technical support at a site with Department of Toxic Substances Control (DTSC) oversight; design of corrective action strategies utilizing ozone injection, oxygen diffusion, sparging, soil-vapor extraction, ORC™ and other methods at several petroleum-contaminated sites throughout northern California; Phase I and II ESAs for public works projects such as roadway realignments and expansion; and stormwater permitting, monitoring, and reporting at landfills and industrial sites.

**Mr. David Kirk:** *CA Professional Geologist (PG) 6673 and CA Certified Hydrogeologist (CHG) 897.* Vice President and Principle Hydrogeologist of L&A. Mr. Kirk has extensive experience with investigation, monitoring, and reporting at over 100 underground storage and spill-related sites. He is responsible for managing periodic sampling work for clients; developing and implementing corrective action strategies at leaking underground storage tank and other contaminated sites; and preparing mine reclamation plans and mineral assessments. Mr. Kirk's recent projects include development and construction management of remediation equipment, and project management for development of the corporate headquarters in Shasta Lake City.

**Mr. Daniel Jensen:** *CA Drilling Contractor's License C57-539447 and Oregon Monitoring-Well Driller's License MWC 10405.* Vice President and Manager of Drilling Services for L&A. Mr. Jensen is responsible for estimating and scheduling drilling, well installation, and treatment-system installation for site remediation, and provides sampling and other technical services.



**CLAYTON E. COLES**

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**BONNIE LAMPLEY**

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**DAN JENSEN**

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DRILLERS HELPER/  
MONITORING & REMEDIATION  
SYSTEM TECHNICIAN

**ATTACHMENT C**  
**APPROACH**

## **INTRODUCTION**

The following section presents Lawrence & Associates' (L&A's) approach and scope of work for conducting and preparing quarterly, semiannual, and/or annual groundwater-monitoring reports, annual storm water reports, quarterly landfill-gas monitoring reports, and providing miscellaneous regulatory assistance for the Black Butte, McCloud, Tulelake, Yreka, and Happy Camp Landfills. The groundwater, gas, and storm-water monitoring and preparation of the related reports will be conducted from third-quarter 2022 through the end of second-quarter 2025.

## **GROUNDWATER MONITORING**

### **GENERAL**

L&A personnel will measure groundwater levels and field parameters (temperature, electrical conductivity, pH, and turbidity), and sample groundwater-monitoring wells at the Black Butte, McCloud, Tulelake, Yreka, and Happy Camp Landfills. All samples will be shipped directly to Pace Laboratories (formerly BC Laboratories) in Bakersfield, California. L&A understands Siskiyou County has an existing contract with Pace Laboratories and will pay for all laboratory analyses directly.

L&A will compile monitoring data and produce quarterly or semiannual-monitoring reports for each of these five landfill sites. Included with the fourth-quarter or second-half reports will be the required annual reports. Also, L&A will prepare the groundwater-monitoring reports that include the results for the five-year constituents-of-concern (COC) sampling (see schedule below).

### **MONITORED PARAMETERS**

Groundwater monitoring will conform to each landfill's current Waste Discharge Requirements (WDRs). Laboratory analysis will be conducted by Pace Analytical Laboratory of Bakersfield, California, or other laboratories selected by Siskiyou County. All labs will invoice Siskiyou County directly for laboratory services.

### **BLACK BUTTE LANDFILL, WDR No. R5-2019-0032**

L&A will sample the Black Butte Landfill groundwater wells on a semi-annual basis, as required under WDR No. R5-2019-0032. The groundwater samples will be analyzed for the following parameters:

1. *Semiannual Groundwater Parameters*
  - a) Groundwater Elevations
  - b) Temperature
  - c) Electrical Conductivity
  - d) pH
  - e) Turbidity
  - f) Total Dissolved Solids (TDS)
  - g) Chloride
  - h) Bicarbonate
  - i) Nitrate (as nitrogen)

- j) Sulfate
  - k) Calcium
  - l) Magnesium
  - m) Potassium
  - n) Sodium
  - o) Volatile Organics (EPA method 8260B, “short list”)
2. *Five-Year Constituents of Concern (COCs) Parameters– Due first-half 2026.*
- a) Dissolved Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, tin, vanadium, and zinc; cyanide and sulfide)
  - b) Volatile Organics (EPA method 8260B, “extended list”)
  - c) Semi-volatile Organic Compounds (EPA Method 8270C)

Five-Year Constituents of Concern (COCs) were last collected and analyzed in the first half of 2021, and will not need to be analyzed again until 2026.

### **McCLOUD LANDFILL, WDR No. R5-2003-0082**

L&A will sample the McCloud Landfill groundwater wells on a semi-annual basis, as required under WDR No. R5-2003-0082, or in accordance with the revised WDR. The groundwater samples will be analyzed for the following parameters:

- 1. *Quarterly Parameters*
  - a) Groundwater elevations
- 2. *Semiannual Parameters*
  - a) pH
  - b) EC
  - c) Temperature
  - d) Turbidity
  - e) Total Dissolved Solids
  - f) Alkalinity (bicarbonate and carbonate)
  - g) Chloride
  - h) Sulfate
  - i) Nitrate (as nitrogen)
  - j) Calcium
  - k) Magnesium
  - l) Sodium
  - m) Potassium
  - n) Tannins & Lignins
  - o) Volatile Organics (EPA method 8260B, “short list”)

Five-year COCs were last analyzed for McCloud Landfill during first-half 2021 and will not be due again until 2026. The Central Valley Regional Water Quality Control Board (CVRWQCB) is planning to issue revised WDRs in 2022, therefore, the list of groundwater-monitoring parameters may change.

Based on the draft version of the revised WDR, the CVRWQCB will require submittal of a work plan for installing of an additional groundwater-monitoring well. The groundwater-monitoring

well work plan will address insufficient groundwater monitoring points at the eastern, downgradient area of the Landfill, and a plan to investigate hydrogeology underlying the site. L&A will prepare the work plan to include an analysis of the existing monitoring-well network, drilling procedures for investigating the presence/absence of a shallow aquifer, provide justification for the proposed number of wells, well design, well installation procedures, and a proposed implementation schedule. L&A's scope of work does not include drilling and installation additional monitoring wells, documenting the well installation, nor preparation of bidding and contract documents for well drilling. L&A will submit a separate proposal for this scope of work, as determined by the approved well-installation work plan.

As part of the revision to McCloud Landfill's WDRs, L&A understands the CVRWQCB also will require submittal of a landfill-gas evaluation work plan to assess the presence and potential hazards posed by landfill-gas migration. L&A will prepare a gas-sampling work plan that includes sampling the single passive gas vent to determine if perimeter gas-monitoring wells are needed. L&A will then sample the landfill's passive gas vent and prepare a summary report providing recommendations for installation of gas-monitoring wells (if needed). L&A's scope of work does include drilling and installation of any additional wells, documenting the well installation, or preparation of bidding and contract documents for well drilling. L&A will submit a separate proposal for perimeter gas-monitoring well installation and testing, if needed.

#### **YREKA LANDFILL, WDR NOS. 93-83 AND 89-68**

L&A will collect groundwater samples at Yreka Landfill on a quarterly basis, as required under WDR Nos. 93-83 and 89-68. The groundwater samples will be analyzed for the following parameters:

1. *Quarterly Parameters*
  - a) Groundwater Elevation
  - b) pH (field)
  - c) Electrical Conductivity (field)
  - d) Temperature (field)
  - e) Turbidity (field)
  - f) Total Dissolved Solids
  - g) Chloride
  - h) Sulfate
  - i) Nitrate (as nitrogen)
  - j) Calcium
  - k) Magnesium
  - l) Potassium
  - m) Sodium
  - n) Bicarbonate
  - o) Carbonate
  - p) Fluoride
  - q) Hardness
  - r) Chemical Oxygen Demand (COD)
  - s) Volatile Organic Compounds by EPA 8260B (per EMP)

2. *Annual Parameters – analyzed during 2<sup>nd</sup> quarter only*
  - a) Volatile Organic Compounds (EPA method 8260B)
  - b) Dissolved Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, tin, vanadium, and zinc; cyanide and sulfide)
3. *Five-Year COC Parameters – scheduled for 2<sup>nd</sup> quarter 2022*
  - a) Semi-volatile Organic Compounds
  - b) Organophosphorus Pesticides
  - c) Chlorinated Herbicides

The Yreka Transfer Station will continue to operate under the State General Industrial Storm Water Permit. County staff will perform four storm water sampling and observation events (as feasible), monthly non-storm-water observations, and an annual comprehensive inspection and review in June, and prepare the annual storm water report due July 15. Additional monitoring requirements in the Yreka Landfill WDRs include collecting surface-water samples during January and April of each year, and analyze for the same general mineral constituents listed under groundwater monitoring above. Results of surface-water sampling will be presented in the groundwater-monitoring reports.

#### **TULELAKE LANDFILL, WDR No. R1-2004-0032**

L&A will collect groundwater samples at Tulelake Landfill on a quarterly basis, as required under WDR No. R1-2004-0032. The groundwater samples will be analyzed for the following parameters:

1. *Quarterly Parameters*
  - a) Groundwater Elevations
  - b) Temperature (field)
  - c) pH (field or lab)
  - d) Electrical Conductivity (field or lab)
  - e) Turbidity (field or lab)
  - f) Total Dissolved Solids
  - g) Bicarbonate Alkalinity
  - h) Carbonate Alkalinity
  - i) Hydroxide Alkalinity
  - j) Hardness
  - k) Chemical Oxygen Demand
  - l) Nitrate (as nitrogen)
  - m) Chloride
  - n) Sulfate
  - o) Fluoride
  - p) Calcium
  - q) Magnesium
  - r) Potassium
  - s) Sodium

2. *Semiannual Parameters – 2<sup>nd</sup> (included under 5-year parameters) and 3<sup>rd</sup> quarters Volatile Organic Compounds*
3. *Annual Parameters – to be run during 2<sup>nd</sup> quarter*
  - a) Siltation check in well casings
  - b) Dissolved metals (antimony, arsenic, barium, beryllium, copper, iron, lead, manganese, nickel, silver, thallium, vanadium, and zinc); included under five-year dissolved inorganics, see below.
4. *Five-Year Parameters – to be performed once sufficient sample is available*
  - a) Carbonate (included under quarterly parameters)
  - b) Bicarbonate Alkalinity (included under quarterly parameters)
  - c) “Long list” volatile organics (EPA method 8260), including MTBE
  - d) Semi-volatile Organics (EPA method 8270)
  - e) Organochlorine Pesticide, PCBs (EPA 8080)
  - f) Chlorophenoxy Herbicides (EPA method 8150)
  - g) Organophosphorus Compounds (EPA method 8141)
  - h) Dissolved Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, tin, vanadium, zinc, cyanide, and sulfide)

Groundwater levels at Tulelake Landfill have been dropping over the last 20 years, and the groundwater-monitoring wells have been completely dry since 2014. Groundwater will be analyzed for all required monitoring parameters if sufficient sample volume is obtained from the groundwater-monitoring wells.

The North Coast Regional Water Quality Control Board (NCRWQCB) may require installation of additional groundwater wells at some time in the future. L&A’s scope of work does not include preparing a work plan for additional wells or drilling and installation of additional wells. If the NCRWQCB requires additional wells be installed in the future, L&A will submit a separate proposal for this work.

#### **HAPPY CAMP LANDFILL WDR No. R1-2002-0055**

L&A will collect groundwater samples at Happy Camp Landfill on a quarterly or semi-annual basis, as required under WDR No. R1-2002-0055. The groundwater samples will be analyzed for the following parameters:

1. *Quarterly Parameters*
  - a) Groundwater Elevations
2. *Semiannual Parameters-Groundwater*
  - a) pH (field)
  - b) Electrical Conductivity (field)
  - c) Temperature (field)
  - d) Turbidity (field)
  - e) Total Dissolved Solids (TDS)

- f) Bicarbonate Alkalinity
  - g) Carbonate Alkalinity
  - h) Hydroxide Alkalinity
  - i) Chemical Oxygen Demand
  - j) Hardness
  - k) Chloride
  - l) Ammonia (as nitrogen)
  - m) Nitrate (as nitrogen)
  - n) Nitrite
  - o) Total Kjeldahl Nitrogen (TKN)
  - p) Sulfate
  - q) Calcium
  - r) Magnesium
  - s) Potassium
  - t) Sodium
  - u) Manganese
  - v) Volatile organic compounds including MTBE (EPA Method 8260B); long list 2<sup>nd</sup> quarter and short list 4<sup>th</sup> quarter
3. *Five-Year Constituents of Concern (COCs)-Groundwater was analyzed during first-half 2022 and is not due again until 2027*
- a) Dissolved inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, tin, vanadium, and zinc; cyanide and sulfide)
  - b) “Long list” volatile organics (EPA method 8260B)
  - c) Semivolatile organic compounds (EPA Method 8270C)
  - d) Organophosphorus compounds (EPA method 8141A)
  - e) Chlorophenoxy herbicides (EPA method 8151A)
  - f) Organochlorine pesticides, PCBs (EPA method 8080)
4. *Parameters for First Month of Runoff, January, and March-Surface Water*
- a) pH (field or lab)
  - b) Electrical Conductivity (field or lab)
  - c) Temperature (field)
  - d) Turbidity (field or lab)
  - e) Dissolved Oxygen (field or lab)
  - f) Total Dissolved Solids (TDS)
  - g) Total Settleable Solids (TSS)
  - h) Alkalinity
  - i) Bicarbonate
  - j) Carbonate
  - k) Hardness
  - l) Chloride
  - m) Ammonia (as nitrogen)
  - n) Nitrate (as nitrogen)
  - o) Nitrite (as nitrogen)
  - p) Total Kjeldahl Nitrogen
  - q) Sulfate

## 5. Annual Parameters-Surface Water

- a) Chemical Oxygen Demand (COD)
- b) Total Organic Carbon (TOC)
- c) Biological Oxygen Demand (BOD)
- d) CAM 17 Metals

Five-year COCs will be analyzed for Happy Camp Landfill during first-half 2022 and are due again in the first-half 2027. Additional monitoring requirements in the Happy Camp WDRs include surface-water monitoring to be conducted up to three times a year (during the first month of runoff, January, and March, as feasible) and leachate monitoring (monthly water-level measurements in the proposed leachate well for one year after installation; quarterly water levels thereafter). It is assumed that Siskiyou County will conduct all site visits/monitoring and report results to Lawrence & Associates. Surface-water/leachate data will be reported in the annual report. Typically, groundwater is available from only one of the monitoring wells twice per year; to date, no surface-water samples have been available.

The Happy Camp Transfer Station will operate under the State General Industrial Storm Water Permit, so County staff will perform four storm water sampling and observation events (as feasible), monthly non-storm-water observations, and an annual comprehensive inspection and review in June, and prepare the annual storm water report due July 15.

### **Groundwater-Monitoring Reporting**

Lawrence & Associates will issue groundwater-monitoring reports before the date required in each site's WDRs. The annual groundwater reports will be combined with the fourth-quarter or second-half groundwater-monitoring reports.

Quarterly/Semiannual-monitoring reports will include:

1. Description of monitoring equipment and methods used, purging, and fate of purge water
2. Description of sampling procedures and times
3. Monitoring results in tabular form
4. Map showing sampling locations and direction/magnitude of groundwater gradient (only if water is measured in at least three wells per site)
5. Certified laboratory reports
6. Compliance summary
7. Types and quantities of waste disposed (if any)
8. Statistical analyses

The annual report will include tables and graphs of historical water-quality data. Extra hours have been included for the annual report for compilation and analysis of historical groundwater data. The State of California requires that all groundwater monitoring reports and data are submitted electronically in a specific format (electronic data format or EDF). Additional labor has been included in this estimate to fulfill these requirements.

## LANDFILL-GAS MONITORING

### GENERAL

This work is required as part of the landfill-monitoring requirements stated in the *California Code of Regulations, Title 27, Division 2, Subdivision 1, Chapter 3, Subchapter 4, Article 6, Sections 20920 through 20934*.

### TASK DESCRIPTION

Lawrence & Associates will perform quarterly perimeter-gas monitoring and reporting as required under *Title 27*, for Black Butte, Tulelake, and Yreka Landfills. Additionally, all onsite structures will be monitored for the presence of methane.

Soil-vapor pressure will be measured in all wells using a manometer before sampling. All sampling will be done using vacuum pumps designed for gas monitoring, per CalRecycle guidelines. Probes over 20 feet in depth will be pumped of one well volume before sampling, or until field parameters stabilize for 30 seconds.

Direct field measurements will be made using a GEM 5000 gas-detector instrument. Methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) are measured with a non-dispersive infrared analyzer, oxygen (O<sub>2</sub>) is measured with a chemical cell sensor, and nitrogen (N<sub>2</sub>) content is derived by subtraction. Gas measurements will be reported in tabular form. Sample locations will be shown on a site map.

L&A will issue landfill-gas monitoring reports by the last day of the month after each monitoring period. Weather conditions, barometric pressure, and temperature during the period of sampling will be included in each report.

GM-1D of the Tulelake Landfill has been sampled and tested for volatile organic compounds (VOCs) using USEPA test method TO-15 on a semiannual basis since the third quarter of 2006 because of the well's proximity to groundwater-monitoring well MW-5, which has had detections of volatile organic compounds (VOCs) in the past. GM-1D will continue to be semiannually monitored for VOCs beginning in the third quarter of 2021.

## LANDFILL REGULATORY ASSISTANCE

### General

At the request of Siskiyou County General Services personnel, L&A will provide regulatory assistance for the Siskiyou County landfills. This work includes preparing annual wet-weather preparedness reports; assistance with landfill permitting issues; assistance with gas, stormwater, and/or groundwater issues; preparation of cost estimates; and/or preparation of postclosure cost estimate revisions and certifications. L&A will obtain permission from Siskiyou County before proceeding with any regulatory assistance tasks.

**ATTACHMENT D**  
**REFERENCES**

## References

<b>Firm Name:</b>	City of Redding, Solid Waste Division
<b>Contact Person:</b>	Paul Clemens, Deputy Director of Public Works
<b>Firm Address:</b>	P.O. Box 496071 Redding, CA 96049
<b>Contact Phone Number</b>	(530) 224-6207
<b>Email</b>	pclemens@ci.redding.ca.us
<b>Name of Project(s):</b>	Benton Landfill

<b>Firm Name:</b>	Siskiyou County
<b>Contact Person:</b>	Tom Deany, Public Works Director
<b>Firm Address:</b>	1312 Fairlane Rd, Yreka, CA 96097
<b>Contact Phone Number</b>	(530) 842-8250
<b>Email</b>	tdeany@co.siskiyou.ca.us
<b>Name of Project(s)::</b>	Siskiyou County, Yreka Landfill, Black Butte landfill and other closed landfills

<b>Firm Name:</b>	Trinity County, Solid Waste Division
<b>Contact Person:</b>	Diane Rader, Deputy Director
<b>Firm Address:</b>	P.O. Box 2700, Weaverville, CA 96093
<b>Contact Phone Number</b>	(530) 623-1326 ext. 107
<b>Email</b>	drader@trinitycounty.org
<b>Name of Project(s)::</b>	Weaverville Landfill

<b>Firm Name:</b>	Waste Connections
<b>Contact Person:</b>	Thomas Reilly
<b>Firm Address:</b>	5873 Avila Loop, El Dorado Hills, CA 95762
<b>Contact Phone Number</b>	916-549-0443
<b>Email</b>	thomas.reilly@wasteconnections.com
<b>Name of Project(s):</b>	John Smith Road Landfill, Cold Canyon Landfill, Avenal Landfill, Tehama Landfill

<b>Firm Name:</b>	Shasta County, Public Works, Solid Waste Division
<b>Contact Person:</b>	Don Renz, Supervising Engineer
<b>Firm Address:</b>	1855 Placer Street, Redding, CA 96001
<b>Contact Phone Number</b>	(530) 245-6064
<b>Email</b>	jheath@co.shasta.ca.us
<b>Name of Project(s)::</b>	West Central Landfill, Buckeye Landfill

**ATTACHMENT E**  
**PRICE PROPOSAL**



### Price Proposal

<b>Fiscal Year</b>	<b>Annual Cost (\$)</b>
Fiscal Year 2022/2023	\$84,998
Fiscal Year 2023/2024	\$84,998
Fiscal Year 2024/2025	\$84,998

The cost of the work to be conducted by Lawrence & Associates is estimated at \$84,998 per fiscal year, as described in **Attachment C** (approach and scope of work). All work will be billed on a time and expense basis, as shown on the following Schedule of Fees (next page). Lawrence & Associates understands Siskiyou County's fiscal year runs from July 1<sup>st</sup> to June 30<sup>th</sup>.



## SCHEDULE OF FEES

EFFECTIVE JULY 1, 2021

EXPIRES JUNE 30, 2025

### Professional Services

Engineering Geologist/Hydrogeologist	
Principal .....	\$170/hour
Senior .....	\$150/hour
Associate .....	\$130/hour
Staff .....	\$115/hour
Assistant .....	\$110/hour
Engineer	
Principal Engineer .....	\$180/hour
Senior Registered Civil.....	\$165/hour
Associate Registered Civil .....	\$135/hour
Staff Civil .....	\$125/hour
Assistant Civil .....	\$115/hour
Engineering Technician.....	\$90/hour
Project Manager.....	\$130/hour
Environmental Assessor I .....	\$125/hour
Environmental Assessor II.....	\$115/hour
AutoCAD Operator (Level I).....	\$95/hour
AutoCAD Operator (Level II) .....	\$85/hour
Field Technician .....	\$90/hour
Laborer.....	\$70/hour
Tank Fund Administrator .....	\$70/hour
Clerical.....	\$70/hour

### Deposition and Court Appearances

Minimum charge.....	\$1400 part or full day
Deposition or Court Appearance Rate .....	\$250/hour
Preparation at consulting-service rates .....	as listed above

### Drilling Services (CME-55 drilling rig)

7-5/8 and 9-5/8-inch OD augers with operator and helper.....	(See drilling schedule of fees)
Mobilization.....	(See drilling schedule of fees)

### Other In-House Equipment

Test pumps (submersible, through 5 HP).....	quoted/job
Campbell 21X data loggers w/ transducers (water and gas) .....	quoted/job
Conductivity, oxygen, temperature and dissolved oxygen probes.....	quoted/job
Meteorological station (wind direction and velocity) .....	quoted/job
Gas-extraction and air-monitoring pumps .....	quoted/job
Mileage .....	\$0.70
Mileage (drilling rig) .....	\$1.00
Per diem – Northern CA/Oregon (per person/day; may vary dep. upon location)	\$200/night
Per diem – Southern CA (per person/day; may vary dep. upon location).....	\$250/night
Level D protection (per person/day) .....	\$30/day
Survey equipment (per day).....	\$50/day
GPS Survey (per day) .....	\$150/day

### Expenses, Materials, Outside Services

(All direct-job related expenses: reproduction, rental equipment, materials, subcontracted labor and equipment).....	at cost + 15%
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