

# Qualifications for Closed, Illegal and Abandoned Site Investigation Services

Contract No. IWM05073



P-7145  
February 24, 2006

Prepared for:



California Integrated Waste Management Board  
1001 I Street  
Sacramento, California 95812-4025

Prepared by:

***Ninyo & Moore***

Geotechnical and Environmental Sciences Consultants

Completion Checklist for  
Closed, Illegal & Abandoned Site Investigation Services  
Request for Qualifications - IWM05073

Please use this checklist to assist in your preparation of the SOQ package to ensure that the following items are included in your submittal:

- X   Signed cover letter printed on company letterhead
- X   One (1) unbound reproducible original SOQ package marked "Original"
- X   Five (5) bound copies of the entire SOQ package
- X   One (1) electronic document comprising the SOQ package on CD-R viewable thru Adobe Acrobat Reader
- X   All documents submitted double-sided on paper with a minimum of 30% post-consumer recycled content fiber, as attested to in the cover letter
- X   Evidence of a valid California Class A General Engineering Contractors License with a Hazardous Substance Removal (HAZ) Certification
- X   Evidence of at least one registered Professional Civil Engineer (PE) who is currently licensed through the California Board for Professional Engineers and Land Surveyors
- X   Evidence of at least one Registered Geologist (RG) who is currently licensed through the California Board for Geologists and Geophysicists
- X   Statement from Financial Institution
- X   Audited or Reviewed Financial Statement
- X   Resumes of Key Personnel
- X   Organizational Chart
- X   Attachment A, Small Business/DVBE Participation Requirements Certification
- X   Attachment B, Government Code Section 87100 Form
- X   Attachment C, PCC Section 10162 Questionnaire, PCC Section 10285.1 Statement, and Non-Collusion Statement

**NOTE - If any of the above items are missing from the submitted proposal package, your package will be considered incomplete and may be disqualified from the process.**

The following forms are only required upon submittal as applicable pursuant to the provisions outlined in Section III, Minimum Qualifications, Subsections D and E:

- X   Attachment D, Small Business/Disabled Veteran Business Enterprise (DVBE) Participation Summary
- N/A   Attachment E, Demonstration of Good Faith Efforts



February 24, 2006  
Proposal No. P-7145

Contracts Unit, MS-7  
Business Administration Office  
California Integrated Waste Management Board  
P.O. Box 4025  
Sacramento, California 95812-4025

**Subject:** Qualifications for Closed, Illegal & Abandoned Site Investigation Services  
IWM05073

Ninyo & Moore is pleased to submit this Statement of Qualifications (SOQ) to provide environmental services to the California Integrated Waste Management Board (CIWMB) for Closed Illegal and Abandoned (CIA) solid waste disposal sites. The CIWMB provides assistance and guidance to Local Enforcement Agencies (LEAs) regarding CIA solid waste disposal sites to protect public health and safety and the environment. It is our understanding that the CIWMB is seeking a consultant to provide environmental services on an as-needed basis to assist with performing investigations and to provide specialized equipment and technical services. In general, environmental services Ninyo & Moore would likely provide to the CIWMB as part of this contract include but are not limited to characterizing the nature and delineating the extent of buried wastes at solid waste disposal sites by excavating exploratory trenches and/or drilling; and sampling; evaluating the presence of landfill gas by constructing landfill gas monitoring probes and regulatory-compliant landfill gas monitoring systems; obtaining background data regarding the history and expected subsurface conditions of the disposal site including aerial photographs, site plans and maps, documents, reports etc., to assist the CIWMB with developing the most effective site investigation work plans; providing highly qualified and experienced subcontractors for drilling and excavating services, disposal of investigative derived wastes, geophysical surveys, site surveys (aerial and topographic); archeological/cultural resource services; and, providing other miscellaneous services in support of CIWMB CIA site projects.

Our SOQ demonstrates that Ninyo & Moore has the qualifications, experience, and resources to provide the anticipated services for this contract. We have proven this by our successful performance of these same services under the previous and current CIA Site Investigation contracts. We have assigned our most qualified personnel to ensure a consistent project approach and timely, high-quality, and cost-effective work products. The team has a proven performance record conducting the types of services that would be requested for this contract.

Please note that we have provided two organization charts. The Project Organization Chart provides the proposed project team consistent with Section V, "Description of Work" in the Request For Qualifications (RFQ), dated January 13, 2006 (pages 13-15), and Section D, "Project Experience," Attachment 2 of Addendum No. 01 to the RFQ. We believe that this Organization Chart meets your intended request for services. We have also provided a Supplemental Organization Chart to address the requirements listed in Section F, "Personnel and Organizational Information" (page SOQ-9) in the original RFQ. We provided this Supplemental Organization Chart since the requirements listed in Section F have not been explicitly superseded by Addendum No. 01.



The Ninyo & Moore Program Manager and personnel indicated on the Project Organization Chart are licensed in their specific disciplines and are fully committed to providing the necessary resources for successful completion of projects associated with this contract. The proposed project team, as well as our large base of environmental professionals will enable us to be responsive to CIWMB needs and to successfully complete project tasks on time. Ninyo & Moore's current and anticipated workload is such that the personnel that would be assigned to this contract will be able to accomplish project tasks for the duration of the contract.

We have assigned Beth Abramson-Beck as the Program Manager for this contract. She is a California-Professional Geologist experienced in managing and performing site investigations at solid waste disposal sites throughout the state. She has and continues to successfully manage our current multiple site, work order-based, CIA site investigation contract and will ensure that the contract team meets or exceeds CIWMB requirements. In order to provide the CIWMB with the depth of resources to ensure more than adequate coverage for anticipated services under this contract, we have assigned several qualified personnel for each of the CIWMB-identified requested services.

The project experience information that accompanies this SOQ includes those projects performed by personnel assigned to this contract. As demonstrated by the project experience and resumes, they have experience performing, designing, and directing intrusive investigative activities that have involved characterizing and delineating wastes by excavating trenches and utilizing a wide range of drilling/direct push equipment. Personnel assigned to this contract also have extensive experience designing, directing, and overseeing the construction of landfill gas monitoring probes and regulatory compliant systems.

Ninyo & Moore maintains 6 offices in California and we have included resumes for personnel located at various offices throughout the state, but mostly the San Diego office. We have found from our previous and current CIA contract experience, that we can mobilize from any office to any site within 24 hours and therefore we prefer to utilize the same group of qualified personnel for most projects for continuity and because they are the most experienced. Beth Abramson-Beck is headquartered in the San Diego office, however she and all personnel indicated on the Project Organization Chart are available to work on projects throughout the state, regardless of the office to which they report.

When possible, Ninyo & Moore typically uses local-area subcontractors because they are usually the most knowledgeable about area conditions, regulations, and can provide the most competitive pricing and responsiveness due to their proximity to the project site. For each project, we would obtain bid estimates from at least three subcontractors in order to obtain the most qualified providers and competitive pricing. At this time, the locations of the field investigations are not known and therefore the exact subcontractors that would be used is not known. However, as requested in the RFP, we have listed Disabled Veteran Business Enterprise (DVBE) and Small Business Enterprise (SBE) companies that we have used for similar project assignments in the past, and which we would likely include on projects, as appropriate. Ninyo & Moore routinely utilizes the services of SBE and DVBE companies to provide site surveying, archaeological/cultural resource services, biological services, geophysical surveys, site assessment equipment (drill rigs and excavating equipment), and for the transportation and disposal of investigative derived wastes. We have established working relationships with these subcontractors throughout the state and we can attest to their quality of services. Ninyo &



Moore intends to meet or exceed the 3 percent DVBE and 25 percent SBE goals for this contract by utilizing the services of these firms. Any subcontractor proposed to be used on a CIWMB project will meet the approval of the CIWMB contract and/or project manager. Ninyo & Moore can provide additional subcontracting information to the CIWMB if required. As requested, we have provided the following contact information:

**Name and address of the proposer**

**NINYO & MOORE**  
5710 Ruffin Road  
San Diego, California 92123

**Name, telephone number, and e-mail address of the primary contact person**

Beth Abramson-Beck  
800/427-0401 ext 1259  
858/576-1000 ext 1259  
858/427-0401  
[babramsonbeck@ninyoandmoore.com](mailto:babramsonbeck@ninyoandmoore.com)

**Names, titles, addresses, telephone numbers and e-mail addresses of the individuals with authority to execute a binding contract on behalf of the bidder**

Stephan A. Beck  
Manager, Environmental Sciences Division  
**NINYO & MOORE**  
5710 Ruffin Road  
San Diego, California 92123  
800/427-0401 ext. 1263 or  
858/576-1000 ext. 1263  
[sbeck@ninyoandmoore.com](mailto:sbeck@ninyoandmoore.com)

Beth Abramson-Beck  
Principal Geologist  
**NINYO & MOORE**  
5710 Ruffin Road  
San Diego, California 92123  
800/427-0401 ext. 1259 or  
858/576-1000 ext. 1259  
[babramsonbeck@ninyoandmoore.com](mailto:babramsonbeck@ninyoandmoore.com)

Avram Ninyo  
Principal Engineer  
**NINYO & MOORE**  
5710 Ruffin Road  
San Diego, California 92123  
800/427-0401 ext. 1202 or  
858/576-1000 ext. 1202  
[aninyo@ninyoandmoore.com](mailto:aninyo@ninyoandmoore.com)



**The paper used in the compilation of this SOQ package is 30% post-consumer recycled content fiber named Boise Aspen. This proposal was prepared with double-sided copies to further reduce the volume of paper for this submittal.**

Ninyo & Moore appreciates the opportunity to submit our qualifications and would greatly welcome the opportunity to continue to assist the CIWMB with their CIA Site Investigation Program on a first priority basis. **The signatures affixed hereon certify that this submittal is an irrevocable offer for 90 days.**

Sincerely,  
**NINYO & MOORE**

Beth S. Abramson-Beck, PG  
Principal Geologist

Stephan A. Beck, CEG, HG., PG, REA II  
Manager, Environmental Sciences Division

Distribution: (6) Addressee [(1) Original (unbound), (5) Bound Copies]  
(1) Compact disk

SB/BAB/mn



# Statement of Qualifications



7. Identify total number of current permanent employees: 300

Construction: 84

Administration: 62

Engineering: 52

Geologist and Environmental Scientists: 102

Highest manpower level in past five years: 300

Lowest manpower level in past five years: 175

8. Identify parent company, if applicable:

Name of firm: N/A

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone No: \_\_\_\_\_ Fax No.: \_\_\_\_\_

State in which incorporated: \_\_\_\_\_

1. Agent for Service of Process in California:

Name of firm: Ninyo & Moore

Address: 5710 Ruffin Road

City: San Diego State: California Zip: 92123

Telephone No: 858/576-1000 Fax No.: 858/875-9600

10. If a corporation, complete the following:

Date of incorporation: March 1987

State(s) in which incorporated: California

11. If a partnership, complete the following:

Date of organization: N/A

Type of partnership:  General  Limited

List names and addresses of all partners:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

12. If a joint venture, list names and addresses of all partners in the joint venture:

Name: N/A

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**B. LICENSING/HEALTH & SAFETY INFORMATION**

1. Class A General Engineering Contractor's license with a Hazardous Substance Removal Certification is required. Complete the following:

Licensee(s): Avram Ninyo and Peter Supko

License Number(s): 697063

Expiration Date(s): 10/31/2006

Please provide a copy of the current license.

Year first issued: 10/7/1994

Current Exp. Date: 10/31/06



2. Do you have a written company illness and Injury Prevention Program (IIPP)?

Yes       No

If yes, is it signed by a certified Industrial Hygienist?

Yes       No

Do you employ a full-time certified Industrial Hygienist?

Yes       No

3. What is your OSHA lost time injury/illness incidence rate for the last 3 years?

Year	OSHA Lost Time
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
<b>Average</b>	[REDACTED]

4. What is your OSHA recordable injury/illness incidence rate for the last 3 years?

Year	OSHA Recordable
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
<b>Average</b>	[REDACTED]

5. What is your Workers Compensation Insurance Experience Modification Rate (EMR) for the last 3 years?

Year	EMR
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
<b>Average</b>	[REDACTED]

### C. FINANCIAL INFORMATION

1. Submit a **notarized** written statement from your financial institution(s) on letterhead stating the following information:

A. Name of company;

B. Date account(s) were opened;

C. Line of credit?  Yes  No

D. Does the company keep a well-balanced financial position at the bank?

Yes  No

#### See Financial Information Tab

2. Submit an audited **or** reviewed financial statement, including the Proposer's latest balance sheet and income and expense statement dated within the last 12 months showing the following items (annual reports will not be accepted and will be considered unresponsive):

A. Current assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses).

B. Net fixed assets.

C. Other assets.

D. Current liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes).

E. Other liabilities (e.g., capital, capital stock, authorized and outstanding share par values, earned surplus and related earnings).

F. Name of firm preparing financial statement and date thereof.

G. Is this financial statement for the proposing organization. If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsiary).

#### See Financial Information Tab

3. Has your company or any of its principals petitioned for bankruptcy within the last 7 years?

Yes  No

If yes, enter the date(s): \_\_\_\_\_

State of California  
Contractors State License Board

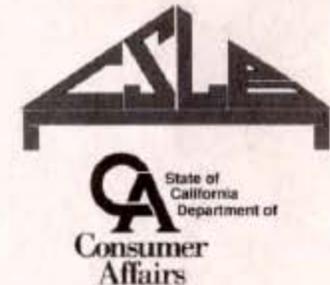
Pursuant to Chapter 9 of Division 3 of the Business and Professions Code  
and the Rules and Regulations of the Contractors State License Board,  
the Registrar of Contractors does hereby issue this license to:

**NINYO & MOORE GEOTECHNICAL CONSULTANTS**



to engage in the business or act in the capacity of a contractor  
in the following classification(s):

**A - GENERAL ENGINEERING CONTRACTOR  
HAZ - HAZARDOUS SUBSTANCES REMOVAL**



Witness my hand and seal this day,

October 5, 2000

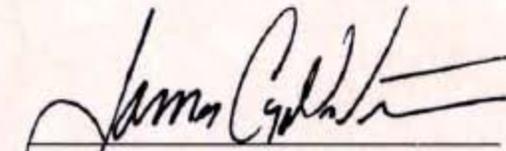
Issued October 7, 1994

**CERTIFIED COPY**

  
Signature of Licensee

  
Signature of License Qualifier

This license is the property of the Registrar of Contractors, is not  
transferrable, and shall be returned to the Registrar upon demand  
when suspended, revoked, or invalidated for any reason. It becomes  
void if not renewed.

  
James Goldstene  
Interim Registrar of Contractors

697063

License Number



## D. PROJECT EXPERIENCE

Include appropriate experience for both the submitting entity and any proposed subcontractors in this part of the Statement of Qualifications. Reproduce this page for each project listed and add a supplemental numbering system at the bottom of the page (e.g., six projects listed, first page would be SOQ-6, Sheet 1 of 6).

To be considered in the evaluation, projects must meet the following requirements:

1. Involves types of work listed in Section V, Scope of Work, of the RFQ.
2. Be successfully completed within the last 5 years.
3. Be of a minimum contract amount of \$15,000 for the submitting entity or \$3,000 for subcontractors.

Include the name and current telephone number of a client representative who is familiar with the project and can attest to the participation, quality of work, and timeliness of the submitting Contractor or subcontractor in performing the work.

**Additional project experience is included in the Section titled ADDITIONAL INFORMATION. These projects were completed greater than 5 years ago and/or were less than \$15,000.**

Name of entity claiming experience: Ninyo & Moore

Project name/location: Belmont Shores Mobile Home Park/City Dump & Salvage-Site 1

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Ms. Dawn Owen, 916/341-6723

Contract amount (listed entity only): \$88,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other: Assisted with the construction of a continuous gas monitoring system.
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:



In conjunction with the CIWMB, Ninyo & Moore personnel conducted an investigation that involved constructing temporary landfill gas monitoring probes at the Belmont Shores mobile home park, a portion of the City Dump and Salvage, Site 1. The CIWMB subsequently monitored the probes weekly for approximately two months to obtain gas monitoring data. Services provided by Ninyo & Moore primarily included obtaining background documents including maps and aerial photographs; reviewing and providing input into the gas monitoring work plan; providing oversight and direction during the drilling, designing,

and construction of the temporary gas monitoring probes; soil sampling and characterization; logging borings; documentation; and ensuring construction of the landfill gas monitoring probes in accordance with the work plan and applicable regulations. We also assisted the CIWMB by providing community education and outreach to homeowners in the mobile home park.

Subsequently we assisted the CIWMB with the installation of a continuous gas monitoring system that involved installing sensors underneath the skirts of selected mobile homes where previous readings or other issues indicated the presence or potential presence of methane gas to evaluate air space under the coaches. A transmitter was attached to send continuous data to an on site recording station. The data is accessed by CIWMB personnel via telephone download.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Hellyer Park Landfill, San Jose, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. John Macanas 916/341-6722 Sabra Ambrose 916/341-6352

Contract amount (listed entity only): \$49,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research  | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:   |  |

Brief description of the project and your company's participation:

In association with the CIWMB, Ninyo & Moore constructed landfill gas monitoring probes at a portion of the former Hellyer Park Landfill to evaluate methane gas concentrations. Obtained and compiled a significant amount of background data and aerial photographs and provided a comprehensive historical summary of the site. Provided oversight and direction during the drilling, designing, and construction of the gas probes, soil sampling and characterization, logged borings, provided documentation, and ensured construction of the landfill gas monitoring wells in accordance with the work plans and applicable regulations



Were liquidated damages applied to the project?

- Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Homeland Burn Site, Homeland, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. Bradley Penick 916/341-6357

Contract amount (listed entity only): \$20,500

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other: waste volume estimates and requested portions of the site investigation report.
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:

As part of our on-call services contract with the CIWMB for the investigation of closed, illegal and abandoned burn and disposal sites, Ninyo & Moore with the CIWMB characterized and delineated the horizontal and vertical extent of burned wastes and adjacent soils by excavating and sampling trenches at the Homeland Burn Site. The site was a former County of Riverside-operated landfill/burn site that had been purchased by homeowners who were living at the site, one of whom operated a horse back riding company.



In conjunction with the CIWMB and Riverside County LEA, we obtained historical aerial photographs, topographic maps, and other relevant data regarding the history of the site. Site reconnaissance indicated the presence of exposed burned materials at some locations. Some areas previously indicated in County files as containing burned materials actually were underlain or surrounded by granitic rock outcrops making it unlikely that burned wastes were in these areas. Historic aerial photographs and shallow trenches confirmed the absence of burned materials in these areas. Several smaller areas previously indicated as containing burned wastes were actually confirmed to be absent of such wastes and it is likely that these materials were removed and consolidated within the larger mass of burned wastes. The lateral and vertical extent of burned materials was delineated and the burned wastes were characterized. Other services included preparing trench logs, providing photographic documentation of site assessment work, and providing an estimate of the volume of buried wastes.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Cannery Street Landfill, Huntington Beach, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. John Macanas 916/341-6722

Contract amount (listed entity only): \$29,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input type="checkbox"/> Property title/deed/history research   | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input type="checkbox"/> Site investigation workplan preparation  | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:   |  |

Brief description of the project and your company's participation:

In association with the CIWMB, Ninyo & Moore personnel designed and constructed landfill gas monitoring wells at a former landfill site in general accordance with CCR Title 27 requirements. We provided oversight and direction during the drilling, designing, and construction of the gas probes, soil sampling and characterization, logged borings, provided documentation, and ensured construction of the landfill gas monitoring system in accordance with the work plans and applicable regulations.



Were liquidated damages applied to the project?

- Yes                       No

If yes, explain: N/A



Name of entity claiming experience: Ninyo & Moore

Project name/location: 14<sup>TH</sup> Avenue Landfill, Sacramento, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. Abel Martinez-Centeno; 916/341-6724

Contract amount (listed entity only): \$34,968

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input type="checkbox"/> Property title/deed/history research   | <input type="checkbox"/> Hazardous waste operations                              |
| <input type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input type="checkbox"/> Site investigation workplan preparation  | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input checked="" type="checkbox"/> Other: Assisted the CIWMB with portions of the work plan                      |  |

Brief description of the project and your company's participation:

In conjunction with the CIWMB, Ninyo & Moore personnel conducted a landfill gas investigation to evaluate the potential for landfill gas generation and migration. Services provided by Ninyo & Moore primarily included review and input into the gas monitoring work plan, providing oversight and direction during the drilling, designing, and construction of the multi-level gas probes, soil sampling and characterization, logging borings, documentation, and ensuring construction of the landfill gas monitoring wells in accordance with the work plan and applicable regulations. The monitoring system is currently used to evaluate whether landfill gas is generated and has the potential to migrate off site.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Santa Fe Railroad Disposal Sites, North of Riverbank, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. John Macanas 916/341-6722

Contract amount (listed entity only): \$81,769

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation  | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research   | <input type="checkbox"/> Hazardous waste operations                              |
| <input checked="" type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input type="checkbox"/> Site investigation workplan preparation   | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation   | <input type="checkbox"/> Community education/outreach programs                   |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project                           |  |
| <input checked="" type="checkbox"/> Other: Assisted the CIWMB by providing portions of the work plan and with health and safety. |  |

Brief description of the project and your company's participation:



In conjunction with the CIWMB, Ninyo & Moore personnel provided environmental consulting services to characterize and generally assess the lateral and vertical extent of buried wastes at four properties, which partially or wholly were operated as a dump and which approximately 20 years later were the site of extensive additional burning and disposal of wastes. With the CIWMB, performed an historic study, generally delineated the horizontal and vertical extent of buried wastes and chemically and physically characterized the wastes and adjacent soils by excavating and sampling 70 trenches. This information was used to evaluate remedial options including whether the site and/or portions of the site should be clean-

closed, capped in place or reconfigured. Prior to the field investigation, in conjunction with the CIWMB, we prepared an historical summary of the sites and provided geophysical services.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Crestmore Disposal Site, Crestmore, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Ms. Dawn Owen , 916/341-6723

Contract amount (listed entity only): \$27,522

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research  | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:   |  |

Brief description of the project and your company's participation:

In association with the CIWMB, Ninyo & Moore visually characterized and delineated the lateral extent of buried wastes by excavating 19 trenches. Trenches were generally excavated near the suspected lateral extent of the former buried wastes; one trench was located in an area suspected to contain the greatest thickness of wastes.

With the CIWMB, we designed and provided oversight associated with drilling and constructing multi-level gas wells to provide on-going landfill gas monitoring. The probes are currently being used to evaluate the potential for landfill gas generation and migration.



Other services included providing a geophysical survey to clear boring locations, health and safety monitoring, soil and buried waste sampling, providing a site location map, trench and boring logs and landfill gas monitoring well constructions schematics.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Gerber Road Landfill, Sacramento, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. John Macanas; 916/346-6000

Contract amount (listed entity only): \$56,819

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:



In association with the CIWMB, Ninyo & Moore characterized and evaluated the horizontal and vertical extent of buried wastes by excavating and sampling trenches near the suspected lateral extent of buried wastes and in the areas where the deepest waste was suspected. Subsequent to the landfill site investigation, we provided oversight and direction associated with constructing single and multi-level gas wells at the landfill perimeter in general accordance with CCR Title 27 requirements. Provided oversight during trench excavating and landfill gas monitoring well drilling and installations, prepared trench and boring logs, landfill gas well construction diagrams, collected samples, prepared daily reports and provided photographic documentation of field activities. Interior landfill gas probes were also constructed to evaluate the potential for gas generation in areas where the buried wastes were suspected to be the greatest thicknesses.

We provided a subcontractor that prepared aerial photographs of the site and vicinity and performed a land survey for purposes of preparing a detailed site topographic map in AutoCAD. The site map included boring and trench locations, was prepared with 2-foot contours and was of sufficient scale to be used for remedial action such as developing clean-closure plans or reconfiguration, landfill cover, drainage and erosion control. Other services included performing a non-intrusive geophysical survey.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Yuba Sutter Disposal Area, Marysville, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. Abel Martinez-Centeno 916/341-6724

Contract amount (listed entity only): \$20,500

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input type="checkbox"/> Property title/deed/history research   | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input type="checkbox"/> Site surveying   | <input type="checkbox"/> Non-intrusive geophysical surveys/methods               |
| <input type="checkbox"/> Site investigation workplan preparation  | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:   |  |

Brief description of the project and your company's participation:

In association with the CIWMB, Ninyo & Moore personnel provided oversight and management associated with drilling and constructing five single and dual completion landfill gas monitoring wells. Single and multi level gas wells were constructed at the landfill perimeter in general accordance with applicable portions of CCR Title 27 requirements. The wells were constructed to evaluate whether landfill gas is being generated and/or migrating off site. Other services included performing a geophysical survey, logging borings and collecting soil samples, preparing well construction diagrams schematics and providing photographic documentation of field activities.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Warings Dump, 63<sup>rd</sup> and Morrison Creek, Sacramento, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Ms. Dawn Owen 916/341-6723

Contract amount (listed entity only): \$16,989

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                              |
| <input type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input type="checkbox"/> Site investigation workplan preparation  | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation  | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input checked="" type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:   |  |

Brief description of the project and your company's participation:

In conjunction with the CIWMB, Ninyo & Moore personnel performed a subsurface investigation to generally evaluate the types and locations of buried wastes and to evaluate the potential presence of landfill gas generation and migration. Exploratory trenches were excavated near the suspected lateral limits of buried wastes to delineate the lateral extent of wastes, and within the interior of the waste site at locations suspected to contain the deepest wastes based on available historical data. We provided oversight and direction for the construction of two single and one multi-level landfill gas monitoring wells to evaluate the presence of landfill gas. We documented field activities, provided boring and trench logs and other requested data.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Correia Middle School, San Diego, California

Name of client (owner or prime Contractor): San Diego City Schools

Client contact and current telephone number: Mr. Loren Chico; 858/573-5731

Contract amount (listed entity only): \$70,375.00

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:

Ninyo & Moore conducted site assessment activities and health risk analysis as part of a Preliminary Endangerment Assessment (PEA) at an existing school site to address soil contamination from metals associated with burn material thought to have been mixed with fill during site grading activities. The PEA activities included drilling and sampling continuous core borings to facilitate observation and identification of burn materials such as fused glass and ceramic shards.



For this project, we directed and provided oversight for the drilling activities to achieve the PEA-specified activities. Subcontractors included a licensed geophysical survey company to identify potential hazards with utilities on the site, a licensed drilling contractor to perform subsurface drilling activities, analytical laboratories to provide testing of soil samples, and a licensed hazardous waste contractor to transport and dispose of the investigative-derived waste.

Soil sampling was conducted by Ninyo & Moore to delineate the horizontal and vertical extent of contamination. Data from the previous investigations was incorporated to achieve a more accurate estimate of the amount of contaminated soil. We provided daily photographic logs of field activities, maintained work logs, prepared progress and status reports, prepared construction reports, and provided QA/QC. In addition, we provided a PEA Completion Report for review by the Department of Toxic Substances Control (DTSC). Ninyo & Moore will continue to work closely with the District, DTSC, and the public concerning this site.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Laura G. Rodriguez Elementary School Site, San Diego, California

Name of client (owner or prime Contractor): San Diego City Schools

Client contact and current telephone number: Mr. James Bray; 858/573-5773

Contract amount (listed entity only): \$219,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:

Ninyo & Moore conducted site assessment activities, health risk analysis, and implemented a Removal Action Work Plan (RAW) at a proposed school site to address soil contamination from metals associated with illegal disposal and burning of wastes and lead-based paint from former buildings. The RAW (prepared by others), was based on results of limited drilling and, once removal activities began, the actual amount of burned wastes differed from that originally suspected.



For this project, we directed and provided oversight and confirmation sampling during removal of burned wastes and impacted soil and coordinated subcontractors to achieve the RAW -specified activities. Subcontractors included a licensed Hazardous Substance Removal contractor to perform excavation activities and to load contaminated soil, trucking contractors to transport contaminated soil, analytical laboratories to provide testing of confirmation samples, permitted landfills to accept contaminated soil, and an industrial hygienist to perform air monitoring and sampling.

Confirmation soil sampling was conducted by Ninyo & Moore to evaluate compliance with Removal Action Objectives (RAOs). In addition, we prepared waste profiles for landfill/disposal facilities, conducted/arranged engineered fill placement, and prepared a Removal Action Completion report documenting project activities. We also provided daily photographic logs of field activities, maintained work logs, prepared progress and status reports, prepared construction reports, and provided QA/QC.

Our most recent work involved further delineating the extent of burned wastes that appeared to extend off-site. This work included preparation of a DTSC-approved work plan. This work plan included drilling and sampling six continuous core borings to evaluate and delineate the southerly and south-westerly extent of burned wastes. The results of the continuous core borings delineated the extent of wastes in the public street areas that could not be explored by excavation, and provided a basis for developing a scope of work to address the concerns of the District, DTSC, and the public concerning this area.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: NTC Landfill, San Diego, California

Name of client (owner or prime Contractor): San Diego County Regional Airport Authority (and previously the San Diego Unified Port District)

Client contact and current telephone number: Mr. Rick Adcock; 619/400-2792

Contract amount (listed entity only): \$450,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input type="checkbox"/> Property title/deed/history research  | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input type="checkbox"/> Site surveying  | <input type="checkbox"/> Non-intrusive geophysical surveys/methods               |
| <input type="checkbox"/> Site investigation workplan preparation                                       | <input checked="" type="checkbox"/> Construction management                      |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input checked="" type="checkbox"/> Community education/outreach programs        |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input checked="" type="checkbox"/> Other: Remedial Action Plan  |  |

Brief description of the project and your company's participation:

Ninyo & Moore personnel performed two extensive subsurface site investigations that characterized the types, and delineated the extent, of buried wastes at the former 52-acre landfill and burn site. The first investigation involved advancing 60 direct push borings and excavating 100 trenches to evaluate the types, depths, and distribution of buried wastes and the impact, if any, of the wastes to the shallow groundwater. The investigation also included a geotechnical evaluation of the buried wastes and hydraulic fill accomplished by drilling, sampling and conducting physical tests in our geotechnical laboratory.



Recommendations were provided with respect to the constructability of an airport and related facilities over the buried wastes.

The second investigation involved excavating additional trenches specifically within the burn area of the landfill to better define the extent of the burned materials both on and off site. We chemically characterized the burned material for purposes of developing a removal/remedial action plan. The latter investigation was performed in accordance with LEA Advisory Board 56 and involved collecting and analyzing representative burned wastes and soil samples for constituents of potential concern.

Ninyo & Moore personnel designed and constructed a landfill gas monitoring network in accordance with Title 27 CCR requirements and are currently conducting post-closure monitoring of landfill gas and groundwater monitoring and reporting.

We prepared a comprehensive, well received, regulatory agency-approved remedial/removal action work plan that included a field sampling plan, a quality assurance plan, and a waste management plan for the removal of the burned materials and municipal solid wastes from the northern half of the landfill site. The work plan provided a discussion of potential risks to human health and the environment, cost estimates, and a timeline for the completion of the project.

We prepared a burn ash management plan that provided and continues to provide guidance to contractors excavating trenches for the installation of utilities within the burn site/landfill. The plan includes management of excavated materials including stockpiling, characterization, and off-site disposal or on-site reuse.

Currently we are updating the removal action plan, providing current cost estimates to implement the plan, and assisting with contractor bid specifications for the removal of the burned material and municipal solid waste. Worked/working closely with the LEA and RWQCB personnel to successfully complete project tasks.



Were liquidated damages applied to the project?

Yes

No

If yes, explain: N/A

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Name of entity claiming experience: Ninyo & Moore

Project name/location: Home Avenue Burn Site, San Diego, California

Name of client (owner or prime Contractor): Mr. Cal Johnson

Client contact and current telephone number: Mr. Cal Johnson, 619/669-3939

Contract amount (listed entity only): \$31,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Subsurface site investigation   | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                              |
| <input checked="" type="checkbox"/> Site surveying  | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation   | <input checked="" type="checkbox"/> Construction management                      |
| <input checked="" type="checkbox"/> Site investigation report preparation   | <input type="checkbox"/> Community education/outreach programs                   |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation  | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project  |  |
| <input checked="" type="checkbox"/> Other: Prepared remedial action costs for removal action of buried wastes, provided expert witness testimony: |  |

Brief description of the project and your company's participation:



Ninyo & Moore initially performed a reconnaissance of the site to observe, confirm the presence of, and document the occurrence of surficial burned materials. The remaining area of the burn site was known to extend under Home Avenue and across the street under residential structures. We prepared a work plan to investigate the horizontal and vertical extent of a portion of the former Home Avenue Burn Site and prepared the Site Health and Safety Plan.

We obtained and reviewed historical documents, previously prepared grading reports, geotechnical investigations, archeological reports and historical photographs pertaining to the history of the Home Avenue Burn Site and vicinity. Based on background data, we prepared a site investigation work plan. After LEA approval of the work plan, we characterized the wastes and delineated the vertical and horizontal extent of burned materials by excavating trenches, collecting samples of burned wastes, soil, and alluvium. Ninyo & Moore logged trenches; provided documentation of all aspects of the field investigation; performed a radiological survey; worked closely with the on site biologist and archeologists, as required by

the City; and worked closely with the City LEA to complete this investigation.

Our results suggested that the area of the burn site evaluated appeared to have been re-worked/secondary deposits as evidenced by the extremely broken nature of all the materials encountered and the fact that younger materials such as plastics cups and other more recent materials were overlain by older burned materials including pieces of old broken bottles and ceramic hotel ware.

We also provided cost estimates to clean-close the site by excavating and removing the burned materials and disposing of them to a pre-approved waste disposal site. Subsequent to the investigation, we provided expert witness testimony regarding the nature of the burn site.

Were liquidated damages applied to the project?       Yes       No

If yes, explain: N/A \_\_\_\_\_

Name of entity claiming experience: Ninyo & Moore

Project name/location: 8th Avenue Tidelands Dump/East Parking Lot, San Diego, California

Name of client (owner or prime Contractor): San Diego Unified Port District

Client contact and current telephone number: Mr. Paul Brown; 619/686-6597

Contract amount (listed entity only): \$1,000,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research                               | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input checked="" type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                            | <input checked="" type="checkbox"/> Construction management                      |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input checked="" type="checkbox"/> Community education/outreach programs        |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input checked="" type="checkbox"/> Other: Remedial Action   |  |

Brief description of the project and your company's participation:

Ninyo & Moore assisted the Port District in the characterization, delineation, and remediation of the East Parking Lot in compliance with the Regional Water Quality Control Board's Cleanup and Abatement Order 95-21. The site characterization process included conducting research of the historical usages of the site and vicinity, drilling borings and excavating trenches through large volumes of burned wastes intermitted with manufactured gas plant and petroleum hydrocarbon wastes, collected samples, conducted analytical testing, and performed groundwater monitoring well sampling and analysis. The data was digitally recorded in a Geographic Information System such that the Phase I results could be overlaid with Phase II results to identify historical features associated with contamination, source areas of contamination in soil and groundwater, and the extent of the contamination that exceeded the cleanup levels specified in the Cleanup and Abatement Order.



Ninyo & Moore performed a remedial alternative analysis and feasibility study and prepared a Remedial Action Work Plan to remove approximately 35,000 cubic yards of Manufactured Gas Plant (MGP) waste impacted with extremely high levels of benzene, naphthalene, and other polynuclear aromatic hydrocarbons and significant amounts of burned wastes. Even though the wastes exhibited characteristics of hazardous waste, Ninyo & Moore, with assistance from Allied Waste and the District project manager, was able to research and apply for an exemption from hazardous waste classification, thereby saving millions of dollars in disposal fees. The waste was pre-approved for off site disposal to a treatment and recycling facility in Arizona. Pre-characterization of the wastes allowed the District to quickly haul the excavated wastes off site avoiding delays associated with temporarily stockpiling, sampling, and waiting for analytical results. Ninyo & Moore staff worked closely with the District project manager, the regulatory agency case specialist, and the potentially responsible party, Sempra

Energy, to negotiate cleanup levels that were protective of the District's interests. We also performed a fate and transport study and health risk assessment for the RWQCB.

Ninyo & Moore assisted the District in preparing a Request for Proposal, project bid specifications, drawings, and a bid cost table, and assisted in the selection of a remediation contractor to implement the Remedial Action Work Plan. Ninyo & Moore served as the District's eyes and ears during the remediation process, and assisted the District in sorting through several issues, including dewatering, control of emissions from remediation activities and waste stockpiles by implementing aggressive air monitoring and vapor/odor suppression techniques, protection of an adjacent and fragile 16-inch high pressure water line, and negotiating with the regulatory agency in limiting the remediation such that nearby streets and utilities were not undermined. The remediation project was successful, with the removal of approximately 35,000 cubic yards of waste, which facilitated the construction of the Convention Center Parking Garage over the footprint of the remediation area. Provided construction services including daily photographic logs of field activities tied into a GIS database, provided oversight for excavating and sampling, performed inspections, directed environmental sampling and testing, provided QA/QC services, maintained daily field logs; prepared and distributed weekly progress and status reports; and, in conjunction with the others, prepared the final construction reports.

We also assisted the District project manager in value engineering the earthwork portion of the Parking Garage construction by reducing the amount of net export, which resulted in considerable savings to the District. Post-remediation groundwater monitoring wells indicated that the remediation effort had successfully removed sources of contamination that were impacting groundwater and the Regional Board granted case closure in 2004.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A \_\_\_\_\_



Name of entity claiming experience: Ninyo & Moore

Project name/location: 8th Avenue Tidelands Dump/Former Campbell Shipyard, San Diego, California

Name of client (owner or prime Contractor): San Diego Unified Port District

Client contact and current telephone number: Mr. Paul Brown; 619/686-6597

Contract amount (listed entity only): \$711,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research                               | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input checked="" type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                            | <input checked="" type="checkbox"/> Construction management                      |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input checked="" type="checkbox"/> Community education/outreach programs        |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:

As part of performing subsurface environmental site assessments over several blocks of planned re-development of bay front properties in San Diego, Ninyo & Moore investigated portions of the former 8th Avenue Tidelands Dump. We managed and provided oversight and direction regarding identification, delineation, and remediation of soil, groundwater, and off shore sediment contamination associated with the large former burn site, gas manufacturing plant and former shipyard activities.



As part of various subsurface investigations generally associated with site redevelopment, we assessed, characterized, and refined the extent of the former burn site. Historical data and data obtained from trench excavations, strataprobe and hollow stem auger drilling performed by Ninyo & Moore, further delineated the extent of the former 8th Avenue Tidelands Dump. The exploration points, depths of burned material and other contamination and associated analytical data, were compiled into a Geographic Information System (GIS) database which included results of numerous projects performed by Ninyo & Moore as well as other projects in the area conducted within portions of the former burn dump by others.

We conducted third-party review of the remedial action plan prepared by the consultant representing the former property owner and provided extensive input and recommendations on behalf of the District.

Ninyo & Moore prepared a comprehensive historical document (10 volumes) regarding the history of the site and several city blocks in the vicinity of the site with respect to identifying principal responsible parties. The document included determining past and current property ownerships, review of historic aerial photographics, site plans, topographic maps, Sanborn Fire Insurance maps and numerous his-

toric documents. Other tasks included providing third party reviews of soil and sediment site assessment reports and remediation work plans.

Provided general assistance to the District during the 5 month remediation of the site which included field inspections and documentation on behalf of the District to assess the remediation work quality and progress and provided recommendations as necessary. All field work performed was documented in daily field reports and photographs.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Superfund Technical Assessment and Response Team Region IX:

Arizona, California

Name of client (owner or prime Contractor): Ecology and Environmental

Client contact and current telephone number: Mr. Thompson Chambers; 415/981-2811

Contract amount (listed entity only): \$ 3,700,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research                               | <input checked="" type="checkbox"/> Hazardous waste operations                   |
| <input checked="" type="checkbox"/> Site surveying   | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                            | <input checked="" type="checkbox"/> Construction management                      |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input type="checkbox"/> Community education/outreach programs                   |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:

Ninyo & Moore supported Ecology & Environment as a teaming subcontractor on the Superfund Technical Assessment and Response Team (START) contract with the United States Environmental Protection Agency (USEPA) to provide technical personnel to support activities in U.S. EPA Region IX. The START functions as an extension of the EPA Staff, furnishing technical, engineering, and managerial services in support of EPA's emergency response, removal and prevention programs.



Project activities performed by Ninyo & Moore under this contract have consisted of site remediation activities including oversight and direction for excavation and removal of buried wastes, providing on site management of excavated materials; and waste characterization and profiling to evaluate waste disposal alternatives. Ninyo & Moore has also provided geotechnical and engineering services including grading observation and testing, preparation of specifications and implementation of erosion and drainage control design; construction management and oversight; pollution abatement oversight; observation, and monitoring of removal actions; mine tailings mitigation design; preparation, review and implementation of Remedial Investigation/Feasibility Study work plans; and public information services for large Superfund sites throughout EPA Region IX.

Many task orders have required Ninyo & Moore personnel to mobilize and travel to remote locations within 24 hours notice. Our team's personnel have conducted site investigations and sampling, handled record keeping and assisted the EPA in providing information to the public. Select project experience by Ninyo & Moore personnel under this contract includes the following:

- Provided investigation and management assistance at the 38th and Redwood burn site (38th Street Burn Dump) in a residential area (City Heights) of San Diego, California. The CIWMB discovered a highly radioactive orphan source at this old burn dump, and a major investigation was initiated by the U.S. EPA to locate and remove all radioactive materials, and to assist the CIWMB with the investigation of burned wastes. After the initial phase of the investigation and removal action, Ninyo & Moore staff worked closely with the EPA in providing air monitoring and logistical support services during removal of additional burn ash and soil contamination located on residential properties
- Supported the U.S. EPA and CIWMB during remediation efforts at the Westley Tire Fire site. Ninyo & Moore assisted in the evaluation of tire fire site conditions and surface water control structure construction observation and assisted in evaluating disposal options for the waste generated during the fire fighting effort. Before the fire was fully extinguished the CIWMB recognized the need for capturing both fire-fighting water and rainfall runoff before it could travel downstream and off site. As a result, a series of ponds were constructed immediately downstream of the fire area to capture the runoff. In addition, a series of small storage ponds were constructed upstream to capture run-on water before it could come in contact with the tire mass. The captured run-on water was diverted around the fire area in large diameter pipes and discharged downstream of the tire fire area. After initial evaluation and emergency response assistance under the START contract, Ninyo & Moore was retained by the CIWMB to perform earthwork observation and testing during the construction of the ponds and diversion pipelines. The structures were successfully built and operated through the winter of 1999-2000. Ninyo & Moore again participated in the upgrade of the diversion/retention system in preparation for the winter of 2000-2001.
- Evaluated the stability of a proposed fill slope, provided grading design, and conducted grading control at Gambonini Mercury Mine in Marin County, California. The project involved repair of a landslide and placement of approximately 200,000 cubic yards of mining waste to a slope area where the subsurface conditions consisted of undocumented fill overlying Franciscan bedrock. Ninyo & Moore completed a subsurface evaluation to assess the quality and depth of fill, the strength of underlying bedrock, and the groundwater conditions. The site characterization study involved drilling borings to characterize the site, performed laboratory testing of the soil and bedrock samples, analyzing site seismicity including estimated horizontal accelerations, performing slope stability analyses, and preparing an illustrated written report to present the findings. Ninyo & Moore concluded that the undocumented fill was suitable for support of the proposed fill slope at substantial savings to the client. In addition, an adequate factor of safety could be obtained with a 2:1 (horizontal to vertical) fill slope provided subsurface drainage of the fill was installed. Ninyo & Moore subsequently provided grading quality control and testing services, construction observation and daily/weekly summary reporting.
- Assisted during the evaluation and removal of illicit crystal methamphetamine production waste dump sites in an agricultural area of Ventura County, California, including aerial photograph interpretation, geophysical surveying and other ground search and waste identification tasks.
- Assisted during the evaluation and removal action of PCB-contaminated soil resulting from the improper re-use of discarded electrical capacitors at numerous locations throughout the island of Saipan. The project involved remediation at 18 locations scattered throughout the island of Saipan. The project involved remediation at 18 locations scattered throughout the small community of Tanapeg on the Island of Saipan, Commonwealth of the Northern Mariana Islands.

Were liquidated damages applied to the project?       Yes       No

If yes, explain: N/A

## References

Client	Contact
<b>California Integrated Waste Management Board</b> 1001 I Street Sacramento, California 95812	Mr. Bradley Penick 916/341-6357 Mr. Abel Martinez-Centeno 916/341-6724 Ms. Dawn Owen 916/341-6723 Mr. John Macanas 916/341-6722 Ms. Sabra Ambrose 916/341-6352
<b>San Diego County Regional Airport Authority</b> P.O. Box 82776 San Diego, California 92138-2776	Mr. Rick Adcock, 619/400-2792
<b>San Diego Unified Port District</b> 3165 Pacific Highway San Diego, California 92112-0488	Mr. Paul Brown, 619/686-6597
<b>San Diego City Schools</b> 4860 Ruffner Street San Diego, California 92111	Mr. James Bray, 858/573-5773
<b>Ecology &amp; Environmental</b> 350 Sansome Street, Suite 300 San Francisco, California 94104	Mr. Thompson Chambers, 415/981-2811
<b>Jacobs Engineering</b> 1455 Frazee Road San Diego, California 92108	Mr. Bill Zondorak, 619/725-5069
<b>Caltrans District 11</b> 2928 Juan Street San Diego, California 92110	Mr. Joel Kloth, 858/616-6800
<b>Centre City Development Corporation</b> 225 Broadway, Suite 1100 San Diego, California 92101-5074	Mr. David Allsbrook, 619/533-7100
<b>County of Riverside</b> 3133 Mission Inn Avenue Riverside, California 92507-4199	Mr. John Alfred, 909/955-4800
<b>Southwest Division Naval Facilities Engineering Command (SWDIV)</b> 1220 Pacific Highway San Diego, California 92132	Mr. Herb Doughty, 619/532-4714
<b>Procopio, Cory Hargreaves &amp; Savitch</b> 530 B Street, Suite 2100 San Diego, California 92101	Mr. Robert Russell, 619/238-1900

**E. LITIGATION/CLAIMS INFORMATION**

1. List any projects in which your entity or any of its principals is **currently** involved in litigation. Identify lawsuits by name, number, parties, and your claim or participation. (Attach additional copies of this page if required)

Project name: N/A

Project location: \_\_\_\_\_

Lawsuit name: \_\_\_\_\_

Lawsuit number: \_\_\_\_\_ Date of lawsuit: \_\_\_\_\_

County/state where filed: \_\_\_\_\_

Parties involved: \_\_\_\_\_

\_\_\_\_\_

Lawsuit claim: \_\_\_\_\_

2. List any projects within the **last five years** in which your entity or any of its principals has been involved in litigation. Identify lawsuits by name, number, parties, and your claim or participation. (Attach additional copies of this page if required)

Project name: N/A

Project location: \_\_\_\_\_

Lawsuit name: \_\_\_\_\_

Lawsuit number: \_\_\_\_\_ Date of lawsuit: \_\_\_\_\_

County/state where filed: \_\_\_\_\_

Parties involved: \_\_\_\_\_

\_\_\_\_\_

Lawsuit claim: \_\_\_\_\_

3. Has your company **ever** been terminated or unilaterally elected to terminate from a project before completion? If so, complete the following adding additional pages as necessary:

Project name: N/A

Project location: \_\_\_\_\_

Client: \_\_\_\_\_

Address: \_\_\_\_\_

Contact name/current telephone no.: \_\_\_\_\_

Date of termination: \_\_\_\_\_

Reason for termination: \_\_\_\_\_

Project name: \_\_\_\_\_

Project location: \_\_\_\_\_

Client: \_\_\_\_\_

Address: \_\_\_\_\_

Contact name/current telephone no.: \_\_\_\_\_

\_\_\_\_\_

Date of termination: \_\_\_\_\_

Reason for termination: \_\_\_\_\_

## F. PERSONNEL & ORGANIZATIONAL INFORMATION

Attach an organization chart indicating the Program Manager and other staff designations as required by the RFQ. Proposers must provide an organization chart specifying staff for the following tasks:

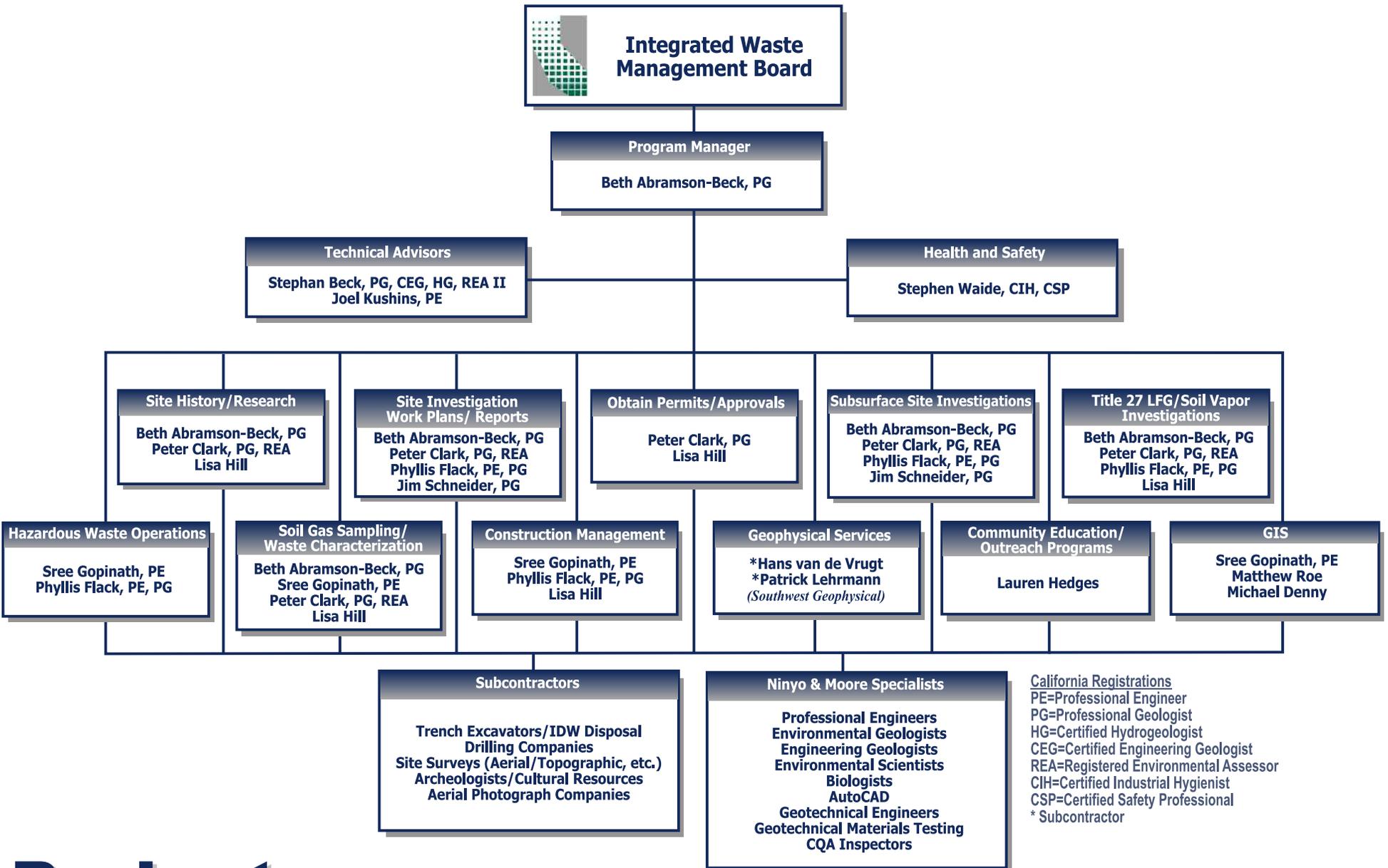
Program Manager	Health and Safety
Construction Management	Mapping and Drafting
Grading and Drainage Design	Erosion Control/Protection
Sampling and Analytical Results	Quality Assurance/Control
Landfill Gas Monitoring and Control Systems	Soils and Geotechnical

A resume for each of these personnel must be included with the SOQ Package. The same person may be responsible for multiple tasks, but their experience in each task must be indicated in their resume. The organization chart shall indicate additional employees and any subcontractor's primary employees who will, or may be, involved with projects during the course of the Agreement. The organization chart shall also indicate whether the employee works for the Proposer or a subcontractor. Other personnel may be included in the organization chart. A resume is required for each person shown on the organization chart. Only personnel listed on the organizational chart may attend interviews and negotiation meetings. Each resume shall include, at a minimum, the following:

1. Current position in the firm;
2. Experience for at least the last 5 years;
3. Major projects and accomplishments;
4. Education and special training;
5. Professional Registrations, include certificate number(s); and
6. Professional affiliations.

## G. BONDING INFORMATION

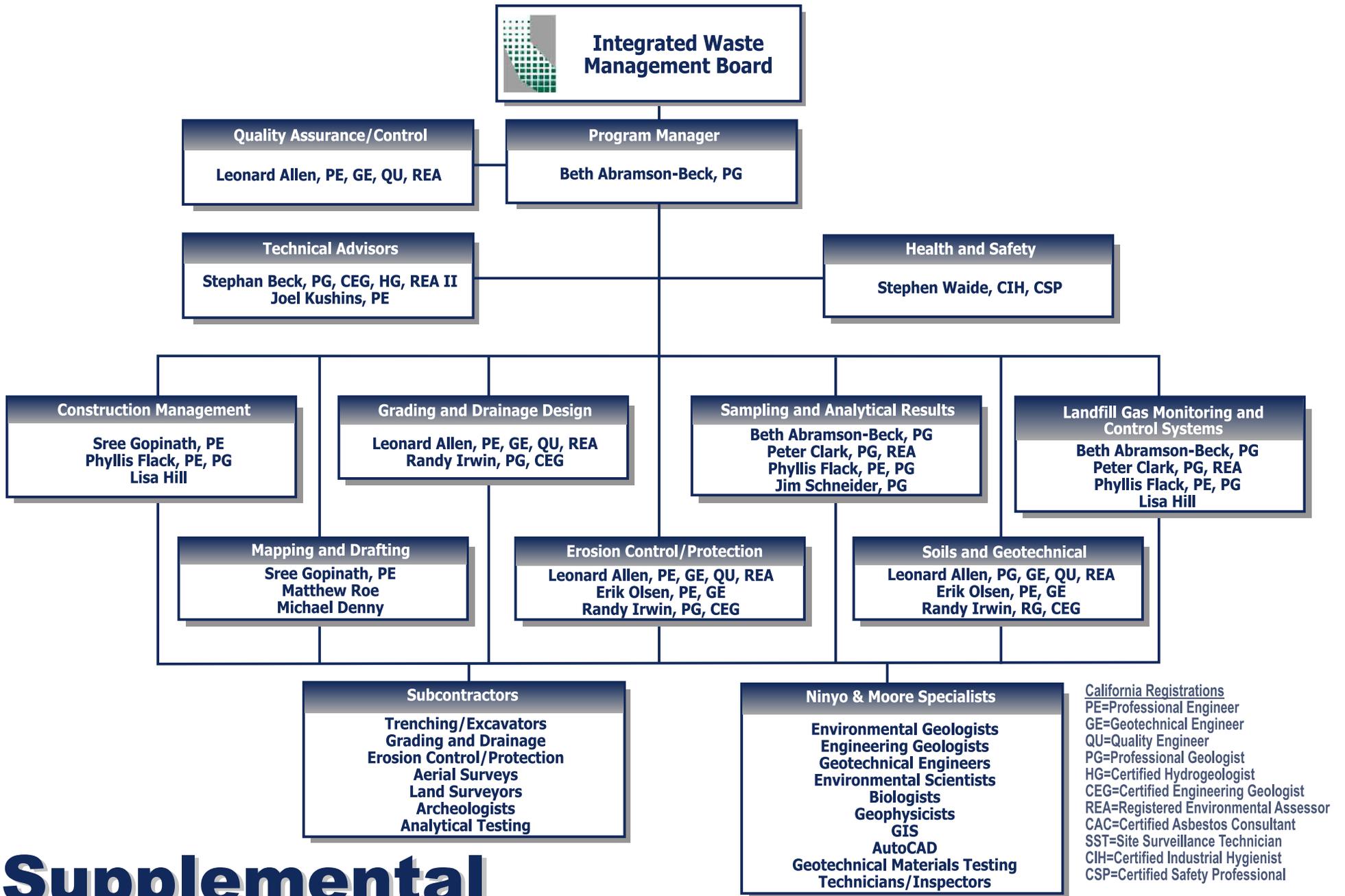
Attach a **notarized** statement from the bonding company or companies your organization proposes to use, stating that the surety shall unconditionally guarantee the Contractor's performance in all respects of the terms, conditions and provisions of this proposal and the resulting Agreement to the extent of a minimum of fifty percent (50%) of the total Agreement amount. The notarized statement shall guarantee that the surety will execute the Faithful Performance Bond requirement as stated in each applicable Work Order on or before the Work Order is signed and returned to the Board's Contract Manager. This bond must guarantee Contractor's compliance with the terms of the Agreement and Work Order. This statement must be properly notarized and submitted as part of the Statement of Qualifications to meet submittal requirements of this Request for Qualifications.



California Registrations  
 PE=Professional Engineer  
 PG=Professional Geologist  
 HG=Certified Hydrogeologist  
 CEG=Certified Engineering Geologist  
 REA=Registered Environmental Assessor  
 CIH=Certified Industrial Hygienist  
 CSP=Certified Safety Professional  
 \* Subcontractor

# Project Organization Chart





# Supplemental Organization Chart



# PROJECT PERSONNEL INFORMATION TABLE

PROJECT TEAM MEMBERS/ROLE	EDUCATION	REGISTRATIONS/CERTIFICATIONS	PROJECT EXPERIENCE
<p><b>Beth Abramson-Beck</b>  <a href="#">Program Manager</a>                      Site History/Research                      Site Investigation Work Plans/Reports                      Subsurface Site Investigations                      Title 27 LFG/Soil Vapor Investigations                      Soil Gas Sampling/Waste Characterization</p>	<p>M.S., Geology                      B.A., Geology                      Professional Certificate, Hazardous                      Materials Management</p>	<p>Professional Geologist, California, PG 4580                      OSHA 40-Hour HAZWOPER Certification                      8-hour OSHA Management and Supervisor Specialized Training                      CPR and Standard First Aid Training</p>	<p>NTC Landfill                      China Grade Landfill                      Bakersfield Metropolitan Sani-                      tary Landfill (Bena)                      Arvin Landfill                      Campo Landfill                      San Marcos Landfill                      Encinitas Landfill                      South Miramar Landfill                      North &amp; West Miramar Landfills                      Boron Landfill                      Rosamond Burn Dump                      Mission Bay Landfill                      San Timeteo Landfill                      Milliken Landfill                      Lenwood-Hinkley Landfill                      Toyan Landfill                      Jamacha Landfill                      Valley Center Landfill                      Viejas Landfill                      Bonsall Landfill                      Duck Pond Landfill                      Box Canyon Landfill                      Parker Refuse Landfill                      Yucaipa Refuse Landfill                      Box Canyon Landfill                      Parker Refuse Landfill                      Yucaipa Refuse Landfill                      Coyote Canyon Landfill                      Gothard Street Landfill                      Sparks-Rains Landfill                      Panoche Class I Landfill                      Imperial Valley Landfill                      Landers Landfill                      Borrego Springs Landfill                      Las Pulgas Landfill                      San Onofre Landfill                      Hardage-Criner Disposal Area                      Santa Maria Landfill                      Hillsborough Landfill                      Cajon Landfill                      Gerber Road Landfill                      Warings Dump                      Yuba Sutter Disposal Area                      Crestmore Landfill                      14th Street Landfill                      Santa Fe Road Disposal Site</p>

## PROJECT PERSONNEL INFORMATION TABLE

PROJECT TEAM MEMBERS/ROLE	EDUCATION	REGISTRATIONS/CERTIFICATIONS	PROJECT EXPERIENCE
			Sunset Cliffs Natural Park Burn Site Fallbrook Burn Site
<b>Stephan Beck</b> Technical Advisor	M.A., Geology B.A., Geology Professional Certificate, Hazardous Materials Management	Certified Engineering Geologist, California, CEG 1512 Certified Hydrogeologist, California, HG 126 Professional Geologist, California, PG 4375 Registered Environmental Assessor, California, REA I 2181 and REA II 20110 Environmental Manager, Nevada, CEM 1545	NTC Landfill 8 <sup>th</sup> Avenue Tidelands Dump China Grade Landfill Bakersfield Metropolitan Sanitary Landfill (Bena) Arvin Landfill Boron Landfill Rosamond Burn Dump
<b>Sree Gopinath</b> Hazardous Waste Operations Soil Gas Sampling/Waste Characterization Construction Management	M.S., Civil Engineering B.S., Civil Engineering	Registered Civil Engineer, California, RCE 57987 OSHA 40-Hour Health and Safety Training Certification	8 <sup>th</sup> Avenue Tidelands Dump NTC Landfill Arvin Landfill
<b>Joel Kushins</b> Technical Advisor	M.S., Civil Engineering B.S., Civil Engineering	Registered Civil Engineer, California, RCE 29367 Professional Engineer, Utah, PE 963322382202 American Red Cross Adult CPR and Standard First Aid ASCE Post-Earthquake Damage Assessor OSHA 40-Hour HAZWOPER Certification OSHA Site Safety Officer Certification	U.S. Army Corps of Engineers, Various Solid Waste Sites, California and Utah U.S. Army Corps of Engineers, Metal Scrap Landfill, Utah U.S. Army Corps of Engineers, Box Elder Wash Illegal Dump, Utah
<b>Stephen Waide</b> Health & Safety	B.S., Occupational Safety and Health B.S., School and Community Health	Certified in the Comprehensive Practice of Industrial Hygiene, CIH No. CP7005 Board of Certified Safety Professionals, CSP No. 15352	NTC Landfill Laura G. Rodriguez Elementary School Site Various CIWMB Landfill and Burn Sites (Hellyer Park Landfill-San Jose, Belmont Shores, (former landfill site) Long Beach, Gerber Road Landfill)
<b>Peter Clark</b> Site History Research Site Investigation Work Plans/Reports Obtain Permits/Approvals Subsurface Site Investigations Title 27 LFG/Soil Vapor Investigation Soil Gas Sampling/Waste Characterization	B.A., Geology Professional Certificate, Hazardous Materials Management	Professional Geologist, California, PG 7361 Registered Environmental Assessor, California, REA 2984 EPA 24-Hour Lead Inspector and 16-Hour Lead Risk Assessor Training DHS, Interim Certificate for Lead-Related Construction Inspector/Assessor OSHA 40-hour Health and Safety Training with 8-hour Supervisor Training	Belmont Shores Cannery Street Landfill Hellyer Park Landfill Gerber Road Landfill Crestmore Landfill Santa Fe Road Disposal Sites NTC Landfill Lenwood-Hinkley Landfill

## PROJECT PERSONNEL INFORMATION TABLE

PROJECT TEAM MEMBERS/ROLE	EDUCATION	REGISTRATIONS/CERTIFICATIONS	PROJECT EXPERIENCE
<b>Phyllis Flack</b> Site Investigation Work Plans/Reports Subsurface Site Investigations Title 27 LFG/Soil Vapor Investigations Hazardous Waste Operations Construction Management	M.S., Geological Engineering B.S., Geology	Registered Civil Engineer, California, RCE 67169 Professional Geologist, California, PG 4507 Professional Geologist, Idaho, PG 625 OSHA 40-Hour HAZWOPER Certification 8-hour OSHA Management and Supervisor Specialized Training OSHA Excavation Safety/Competent Person Training CPR and Standard First Aid Training	BKK Landfill West Contra Costa County Sanitary Landfill P&M Cedar IT Corporation, Closed Hazardous Waste Landfills
<b>Jim Schneider</b> Site Investigation Work Plans/Reports Subsurface Site Investigations	M.S., Geology B.S., Geology	Professional Geologist, California, PG 7914 California Certified Commercial Air Diver, #4354 OSHA 40-Hour HAZWOPER Certification American Heart Association First Aid and CPR Training (with annual updates)	BKK Landfill Forward Landfill
<b>Lisa Hill</b> Site History/Research Obtain Permits/Approvals Title 27 LFG/Soil Vapor Investigations Soil Gas Sampling/Waste Characterization Construction Management	B.A., Biology	OSHA 40-Hour HAZWOPER Certification First Aid/CPR Certification DOT HM-181/126-F/215B Labeling & Packaging Standards for Hazardous Materials Training AHERA Building Inspector Certification Certified Niton XRF Spectrum Analyzer	Home Avenue Landfill NTC Landfill 8 <sup>th</sup> Avenue Tidelands Dump
<b>E. Lauren Hedges</b> Community Education/Outreach Programs	M.S., Geology B.S., Geology	Certified Site Surveillance Technician (SST) No. 043579 California DHS Certified Lead Based Paint Inspector/Assessor No. 13952, California DHS OSHA 40-Hour HAZWOPER Certification American Red Cross First Aid/CPR Certification Niton Spectrum Analyzer No. A3110561652	Laura G. Rodriguez Elementary School Site Carrera School Noah Webster School
<b>Mathew Roe</b> GIS Analyst	Geographic Information Systems (GIS) B.S., Geography Course Work, GIS Database and Design	ESRI ArcGIS 8.3 GIS with Spatial and 3D Analyst ESRI Arc Info 7.2 GIS ESRI Arc View 3.2 GIS	Various CIWMB Landfill and Burn Sites (Hellyer Park Landfill-San Jose, Belmont Shores, (former landfill site) Long Beach, Gerber Road Landfill) NTC Landfill
<b>Micheal Denny</b> GIS Coordinator	Geographic Information Systems (GIS) Professional Certificate, Hazardous Materials Management	ESRI ArcView 3.2 GIS, ArcGIS 8.3, ArcGis 9.0 UCSD Professional Certificate Program, Site Assessment and Remediation OSHA 40-hour Health and Safety Training (with annual updates) OSHA 24-hour Building Inspector Training (with annual updates) OSHA 8-hour Health and Safety Supervisor Training OSHA 8-hour Confined Space Entry Training Nuclear Safety Training Certification Nuclear Gauge Operator Certification	NTC Landfill Santa Fe Road Disposal Site

## PROJECT PERSONNEL INFORMATION TABLE

PROJECT TEAM MEMBERS/ROLE	EDUCATION	REGISTRATIONS/CERTIFICATIONS	PROJECT EXPERIENCE
Please note that because we provided two organization charts, we also are providing three additional personnel that correspond only to the Supplemental Organization Chart			
<b>Leonard Allen</b> Quality Assurance/Control Grading and Drainage Design Erosion Control/Protection Soils and Geotechnical	M.S., Geotechnical Engineering B.S. Civil Engineering	Registered Civil Engineer, California, RCE 18554 Registered Geotechnical Engineer, California, GE 91 Quality Engineer, California, QU2941 Environmental Assessor, California, REA 569	Santa Maria Landfill Toyon Landfill Gothard Street Landfill Coyote Canyon Landfill Panoche Central Area Landfill Montezuma Landfill Frank R. Bowerman Landfill Newport Beach Landfill San Bernardino County Landfills Big Bear, Yucaipa, Needles Landfills
<b>Erik Olsen</b> Erosion Control/Protection Soils and Geotechnical	M.S., Civil Engineering B.S., Civil Engineering	Civil Engineer, California, RCE 42727 Geotechnical Engineer, California, GE 2218; Exp. Date: 3/31/06 Professional Civil Engineer, Nevada, PE 14610 Professional Engineer, New Mexico, PE 14448 Professional Engineer, Wyoming, PE 9071 Professional Engineer, Arizona, PE 35798 Special Inspector, Pile Foundations, City of San Diego, No. 917 40-hour Value Engineering Workshop, 1993, Certification No. 820201	Campo Landfill Texas Low -level Radioactive Waste Disposal Facility NTC Landfill Siapan Landfill 8 <sup>th</sup> Avenue Tidelands Dump
<b>Randy Irwin</b> Grading and Drainage Design Erosion Control/Protection Soils and Geotechnical	M.S., Geological Sciences B.S., Geology	Professional Geologist, California, PG 4582 Cert. Engineering Geologist, California, CEG 1521 Registered Engineering Geologist, Oregon, EG 1429 Registered Geologist, Arizona, RG 33171 Co. of San Diego Environmental Consultant Certification	Boron Landfill Cajon Landfill Milliken Landfill South Miramar Landfill South Chollas Landfill San Marcos Landfill

**BETH ABRAMSON-BECK, PG**  
*Principal Environmental Geologist*

**EDUCATION**

Master of Science, Geology, 1981, New Mexico Institute of Mining & Technology, Socorro, New Mexico  
Additional Studies, Geology, 1979-80, University of Arizona, Tucson, Arizona  
Bachelor of Arts, Geology, 1977, University of California at Santa Barbara  
Professional Certificate, Hazardous Materials Management, University of California at San Diego

**REGISTRATIONS**

Professional Geologist, California, PG 4580  
Registered Geologist, Arizona, RG 33821

**CERTIFICATIONS**

OSHA 40-Hour Health and Safety Training (with annual updates)  
OSHA Site Safety Officer Certification

**PROJECT EXPERIENCE**

As Principal Environmental Geologist at Ninyo & Moore, Ms. Abramson-Beck has performed environmental investigations on a wide variety of solid waste disposal sites throughout the state of California. Her earliest project experience was associated with implementing and preparing SWAT reports, developing quarterly groundwater/vadose monitoring programs and reports, and developing and implementing detection and evaluation monitoring programs in accordance with Article 5 and Title 27 CCR. More recent solid waste disposal site experience includes characterizing and delineating the extent of burned and/or solid municipal wastes and constructing monitoring systems associated with Title 27 regulatory compliance. Some of the work she has managed and conducted includes characterizing and delineating buried wastes at landfills and burn sites by conducting subsurface investigations, evaluating existing landfill monitoring systems; designing and constructing detection and evaluation groundwater and vadose monitoring networks/programs; designing and constructing landfill gas probes and monitoring systems; evaluation and analysis of analytical data, particularly with respect to spatial and temporal trends; geotechnical evaluations to evaluate landfill expansions and/or sitings; preparation of financial assurance plans; evaluating remedial options for closing inactive sites and preparing remedial action plans. Ms. Abramson-Beck's specific solid waste disposal site experience includes:

- **Homeland Burn Site, Homeland, California** Project Manager and Principal Investigator for a burn site project that involved characterizing and delineating the vertical and horizontal extent of burned wastes. Provided waste volume estimates.
- **Belmont Shores Mobil Home Park, Long Beach, California:** Project Manager and one of the investigators of an environmental investigation that involved designing and constructing temporary landfill gas probes to evaluate landfill gas concentrations in areas of a mobile home park underlain by a former city dump. The landfill gas data was used to design a continuous landfill gas monitoring system that was subsequently constructed.
- **Gerber Road Landfill, Sacramento, California:** Project Manager for an environmental investigation to characterize the nature of the buried wastes and evaluate the horizontal and vertical extent. Project manager for the subsequent portion of the environmental study involving constructing a landfill gas monitoring system in general accordance with CCR Title 27 requirements.
- **Warings Dump, Sacramento, California:** Project Manager and Principal Investigator of an environmental investigation to characterize the nature of the buried wastes and evaluate the horizontal and vertical extent. Project manager the subsequent portion of the environmental study involving constructing a landfill gas monitoring system in general accordance with CCR Title 27 requirements.
- **Yuba Sutter Disposal Area, Sacramento, California:** Project Manager for an environmental investigation that involved constructing a landfill gas monitoring system consisting of single and multi-level probes. The monitoring system was constructed in general accordance with CCR Title 27 requirements.
- **Crestmore Landfill, Crestmore, California:** Project Manager and Principle Investigator for an environmental investigation that delineated the lateral extent of buried wastes by excavating exploratory trenches. Project manager for the subsequent portion of the environmental study involving constructing a landfill gas monitoring system in general accordance with CCR Title 27 requirements to evaluate the potential presence and migration of landfill gas.

**BETH ABRAMSON-BECK, PG**  
*Principal Environmental Geologist*  
*(Continued)*

- **Sunset Cliffs Burn Site, San Diego, California:** Project Manager and Primary Investigator responsible for characterizing and delineating the vertical and horizontal extent of burned material at a site planned to be developed as a park. Worked closely with the City of San Diego, Environmental Protection Division, Environmental Services, and the Local Enforcement Agency to delineate the extent of burned materials. Archeological and biological monitoring were performed.
- **Fallbrook Burn Site, Fallbrook, California:** Project Manager and Primary Investigator responsible for performing a site investigation that included characterizing and delineating the vertical and horizontal extent of buried wastes and identifying constituents of potential concern.
- **Santa Fe Road Disposal Sites, Riverbank, California:** Project Manager and Primary Investigator responsible for performing a comprehensive investigation of four former landfill/burn site properties which were complicated by subsequent illegal disposal subsequent to landfill closure. In conjunction with others, obtained and reviewed historical data and photographs, excavated approximately 70 trenches, characterized and delineated the extent of burned refuse, wastes, and debris, compiled analytical data, assisted with preparing the site investigation report, and provided recommendations regarding remedial alternatives.
- **14<sup>th</sup> Street Landfill, Sacramento, California:** Project Manager for an environmental investigation that involved constructing a landfill gas monitoring system consisting of multi-level probes. The monitoring system was constructed in general accordance with CCR Title 27 requirements.
- **Laura G. Rodriguez School Site:** Provided environmental services in association with implementing a Removal Action Work Plan (RAW) at a proposed school site to address soil contamination from metals associated with a former building and illegal disposal and burning of buried wastes. Directed and provided oversight and confirmation sampling during removal of contaminated burned wastes and soil. Prepared a work plan to evaluate the extent of buried and/or burned wastes to the south where excavation could not be accomplished due to undermining the street.
- **8<sup>th</sup> Avenue Tidelands Dump, San Diego, California:** For approximately 4 years acted as Project Manager and/or Principal Investigator for numerous bayfront and nearby sites underlain entirely or by portions of the former 8<sup>th</sup> Avenue Tidelands Dump. Managed and provided oversight and direction regarding the identification, delineation, and/or remediation of soil, groundwater, and off shore sediment contamination associated with a large former burn site, former manufactured gas plant (MGP), and former shipyard. Refined the extent of the former burn site and MPG waste extent of coal tar. Conducted an extensive historical evaluation of approximately 8 blocks along the water front. Excavated exploratory trenches, advanced strataprobe borings and conducted hollow stem auger drilling to delineate the extent of the former burn site, MGP waste and sediment contamination. Co-authored a remedial action plan to remove impacted soils. As required, provided technical assistance during the removal action of impacted soils.
- **Naval Training Center (NTC) Inactive Landfill, San Diego, California:** Project Manager for the NTC Inactive Landfill Site Investigations that involved identifying, delineating, and characterizing buried wastes, performing a geotechnical investigation, evaluating remedial action alternatives, providing cost estimates for implementing corrective action, extensive interfacing with the client, RWQCB, CIWMB and other agencies, and presentation of data at various meetings and to technical advisory boards. Performed a subsequent subsurface investigation to delineate the extent of burned materials within and in outlying areas of the site to characterize the burned material in accordance with LEA requirements. Co-authored the remedial action plan to clean close the site by removing the wastes and affected media and prepared a gas monitoring system work plan.
- **Home Avenue Burn Site, San Diego, California:** Project Manager and Principal Investigator for work performed at the former burn site. Performed a site reconnaissance to evaluate the presence of surficial burned material, prepared a work plan to investigate the former burn site, conducted several meetings with the LEA, and performed a subsurface investigation that included excavating trenches and collecting and analyzing soil and burned material samples. Delineated and characterized the burn site. Archeological and biological monitoring was required. Duties also included conducting a radiological survey and providing expert witness testimony.

**BETH ABRAMSON-BECK, PG**  
*Principal Environmental Geologist*  
*(Continued)*

- **Arvin Landfill and Burn Site, Kern County, California:** Project Manager and Principal Investigator responsible for evaluating the existing detection and evaluation monitoring systems, developing and implementing a vadose and groundwater monitoring program to assist with Article 5 and Title 27 regulatory compliance, and developing a soil gas monitoring program for a portion of the site. In addition, Ms. Abramson-Beck designed and constructed landfill gas probes, performed groundwater contamination delineation, performed an engineering feasibility analyses for implementation of corrective action, prepared a financial assurance plan, and provided regulatory interfacing.
- **Rosamond Burn Dump, Rosamond, California:** Project Manager and Principal Investigator responsible for delineating the extent of historic burn dump trenches and characterizing the burned materials and adjacent soils by conducting a subsurface investigation. Designed and constructed the groundwater monitoring system.
- **Bena Sanitary Landfill, Bakersfield, California:** Project Manager and Principal Investigator for evaluating the existing monitoring system, developed a detection monitoring program to assist with Article 5 regulatory compliance, evaluated groundwater trends (performed gyroscopic surveys of the groundwater monitoring wells to confirm groundwater flow directions), provided comprehensive data analysis (groundwater monitoring wells, lysimeters, moisture blocks and gas probes), and provided regulatory interfacing on behalf of the client. (Field activities were postponed while the landfill master plan was developed).
- **China Grade Sanitary Landfill, Bakersfield, California:** Project Manager and Principal Investigator for evaluating the existing monitoring system, developing and implementing a detection monitoring program to assist with Article 5 regulatory compliance, and preparing an addendum SWAT report. Ms. Abramson-Beck also conducted comprehensive data analysis, performed a hydrogeologic evaluation because the site was underlain by an oilfield, and provided regulatory interfacing on behalf of the client.
- **Encinitas Landfill, Encinitas, California:** Principal Investigator and author of the SWAT report for the Encinitas landfill. Additional activities included compilation and analysis of large volumes of analytical data and providing recommendations for future monitoring.
- **South Miramar Landfill, San Diego, California:** Principal Investigator, Project Manager and author for all aspects of the SWAT proposal and SWAT reports. Subsequently prepared and designed the proposed groundwater, vadose zone and surface monitoring programs for the landfill to conform to Article 5 requirements. Provided geologic, hydrologic, and environmental services associated with preparing an EIR/EIS report.
- **North and West Miramar Landfills, San Diego, California:** Principal Investigator and Project Manager responsible for designing, constructing, and installing groundwater monitoring wells, and evaluating the vadose zone and groundwater quality and gradient data.
- **Boron Sanitary Landfill and Burn Site, Boron, California:** Principal Investigator, Project Manager and author of the SWAT reports. Ms. Abramson-Beck designed, installed and developed the landfill monitoring system and subsequently designed and constructed additional detection monitoring points to satisfy regulatory requirements. Performed a geotechnical study that involved evaluating on site soils for suitability as final cover.
- **North Chollas Landfill, San Diego, California:** Performed a subsurface evaluation for purposes of delineating the areal extent of ash contamination, delineated pre-landfill canyon configuration, geologic mapping.
- **Mojave-Rosamond Landfill Expansion, Mojave, California:** Performed a preliminary site assessment for the proposed landfill expansion project.
- **Mission Bay Landfill, San Diego, California:** Project Manager for designing, and constructing groundwater monitoring wells as part of updating the existing detection monitoring program, subsequently designed and installed additional detection monitoring points.

**PROFESSIONAL AFFILIATIONS**

Geological Society of America

San Diego Association of Geologists

# STEPHAN A. BECK, PG, HG, CEG, CEM, REA II

## *Principal Environmental Geologist*

### EDUCATION

Master of Arts, Geology, 1981, California State University, Fresno, California

Bachelor of Arts, Geology, 1976, University of California at Santa Barbara

Professional Certificate, Hazardous Materials Management, University of California at San Diego

### REGISTRATIONS

Professional Geologist, California, PG 4375

Certified Hydrogeologist, California, HG 126

Certified Engineering Geologist, California, CEG 1512

Professional Geologist, Wyoming, PG 2234

Environmental Assessor I, California, REA 2181

Registered Geologist, Arizona, RG 33080

Environmental Assessor II, California, REA 20110

Environmental Manager, Nevada, CEM 1545

### CERTIFICATIONS

OSHA 40-hour Health and Safety Training (with annual updates)

OSHA 8-hour Health and Safety Supervisor Training

County of San Diego Environmental Consultant Certification

Data Quality Objectives/Data Quality Assessment, 1997, Naval Facilities Engineering Service Center

Professional Certificate, Hazardous Materials Management, 1989, University of California at San Diego

Hydrogen Sulfide Safety, 1987, ESSE International, Inc.

### PROJECT EXPERIENCE

As a Principal Environmental Geologist with Ninyo & Moore, Mr. Beck provides managerial, technical and QA/QC oversight and support on all corporate, environmental submittals and projects. His services are also provided to all divisions on an as-needed basis. Mr. Beck is a California-registered Environmental Assessor (REA 2181), has earned a Certificate in Hazardous Materials Management (CHMM) from the University of California, and is a Certified Environmental Manager (CEM) in Nevada. Mr. Beck is OSHA 40-hour trained and OSHA 8-hour HAZWOPER Supervisor Trained, (1996). Mr. Beck has been an active participant in the development of the San Diego Department of Environmental Health's (DEH) Site Assessment and Mitigation (SAM) Manual, which has been adopted by other agencies, in whole or in part, throughout California. In particular, Mr. Beck has received written acknowledgements from the DEH for his excellent contributions to the SAM Manual.

Mr. Beck has extensive experience both performing and managing Phase I and II ESA's and in regulatory liaison/negotiations. Some of Mr. Beck's previous project experience includes providing regulatory compliance support under CERCLA (NCP, PEA, RAP) and RCRA; successfully completing Phase II contamination evaluations for maintenance facilities, shipyards, tank farms, and projects including 24th Street Marine Terminal, the San Diego Convention Center, Burlington Northern Santa Fe Railway Company, Preliminary Environmental Assessment and RI/FS for the Tow Basin and Embarcadero PMP Amendment EIR. Other relevant project work has included Phase I and II subsurface contamination evaluations and heavy metals remediation projects for the Metropolitan Transit Development Board and San Diego Unified Port District; and preparation of water quality, erosion/sedimentation, and floodplain risk assessments for environmental impact statements and reports. He has managed projects involving PCB clean-up of contaminated sites for the San Diego Unified Port District and Centre City Development Corporation. He has also been responsible for providing project direction and performing environmental reviews of numerous Phase I and II ESAs for lending institutions and asset management companies and for performing and managing Caltrans, commercial, and military projects involving contaminated soil and groundwater throughout California. Mr. Beck also prepares closure reports and manages numerous remediation projects treating contaminated soil and/or groundwater. Mr. Beck's experience on projects throughout California has greatly enhanced his knowledge of, and familiarity with, federal, state and local regulations and the submittal procedures of federal, state and local jurisdictional agencies. Mr. Beck's recent project experience includes:

- **Technical Assistance, QA/QC Advisor, California Integrated Waste Management Board, Various Sites, California:** Provided technical assistance, QA/QC and technical support on an as-needed basis for various solid waste disposal site investigations throughout the state. In general, these investigations involved characterizing and delineating the extent of buried wastes and constructing landfill gas monitoring systems. Investigations have included excavating and logging trenches and drilling borings to characterize subsurface materials and delineating the extent of buried wastes.

**STEPHAN A. BECK, PG, HG, CEG, CEM, REA II**  
*Principal Environmental Geologist*  
*(Continued)*

- **Principal Environmental Geologist and Technical Advisor for Kern County Waste Management Department, Bakersfield, California:** In association with two, 2-year contracts, provided technical assistance and direction for various landfill projects throughout Kern County. Projects involved evaluating and upgrading the existing detection and evaluation monitoring programs, provided oversight for groundwater contamination delineation studies, construction of a gas monitoring system, and delineation of burned wastes at a former burn site. Co-authored a hydrogeologic report, engineering feasibility study, and financial assurance report.
- **Principal Environmental Geologist and QA/QC Manager for the Metropolitan Transit Development Board, North County Transit District, Orange County Transportation Authority, Riverside County Transportation Commission, San Diego Unified Port District and Los Angeles County Metropolitan Transit Authority projects for the last six years:** Project tasks included Phase I and II assessments for acquisition of AT&SF rights-of-way, soil and groundwater remediation, fate and transport studies, preliminary endangerment assessments, permitting, regulatory compliance, health and safety monitoring, construction dewatering, sheetpile cutoff walls, abandonment of fuel oil pipelines and litigation support. On several downtown projects investigations were performed in areas within the Newton Avenue and 8th Avenue Tidelands Dumps.
- **Project Manager and Technical Advisor for assessment of 89 former underground storage tank (UST) sites at the Marine Corps Base and Marine Corps Air Station at Camp Pendleton, California:** The contract requires complete assessment of impacted media, performance of risk-based corrective action analysis, and providing recommendations for appropriate remedial action. Multiple USTs, containing various regulated materials have existed at each site. Remedial options may include no further action (i.e., natural attenuation), ex situ bioremediation, excavation and disposal/recycling of impacted soil, thermal treatment, dual-phase vapor extraction and groundwater pump and treat systems.
- **Principal Environmental Geologist and Technical Advisor for projects under Caltrans Master Agreements 43Y079, 43X939, 43X250, 56S067, 53P614, 53W202, and 43A0012 for the last seven years:** Tasks under these contracts include emergency response, hazardous waste initial site assessments, Phase II assessments, geophysical surveys, tank removals and installations, monitoring well installation and soil and groundwater remediation/monitoring for existing and proposed transportation corridors, maintenance stations and road alignment/widening projects. Where remediation was indicated, feasibility studies (including human health and environmental risk assessment reports) were performed to select appropriate technologies based on technical factors, cost, and time constraints.
- **Padres Ballpark, San Diego, California:** Mr. Beck served as Principal Environmental Geologist for the construction of the San Diego Padres Ballpark and ancillary development, which involved the redevelopment of a 26-block area in downtown San Diego. Tasks for this Brownfields/Polanco Act Project included review of Phase I, Phase II, and remedial action plans, data, and recommendations, preparation of hazardous materials bid specifications, development of protocols for the evaluation, monitoring, and documentation of export soil, preparation of a hazardous materials response plan, which included on-site contaminated soil reuse criteria, monitoring and coordinating removal actions, and providing liaison with the San Diego Department of Health Services, the California EPA-designated lead agency for the project. Mr. Beck has provided these services on behalf of the City of San Diego, San Diego Padres, Jacobs/Sverdrup, San Diego Gas and Electric, JMI Realty, UNOCAL, and Hines, the design/construction manager. Project challenges have included the establishment of background and cleanup levels for potential contaminants of concern with respect to construction and end use health and safety and potential off-site reuse, developing acceptable on-site reuse options for contaminated soil, coordination of monitoring and remedial efforts with construction staging requirements, emergency response to hazardous materials discovered during excavation/construction, and identifying acceptable off-site locations, based on end use, distance from site, and construction schedule, for the large volume of export soil.

**STEPHAN A. BECK, PG, HG, CEG, CEM, REA II**  
*Principal Environmental Geologist*  
*(Continued)*

- **California Department of General Services, Correctional Treatment Center, San Quentin State Prison, California:** Principal-in-Charge and Technical Advisor for site characterization at the proposed Correctional Treatment Center. The subsurface evaluation is to further define the extent of impacted soil and groundwater on-site, which was the result of releases of petroleum hydrocarbons and chlorinated solvents from underground storage tanks located at the existing commercial cleaners. The purpose of the Human Health Risk Assessment (HHRA) is to evaluate human health risks associated with the impacted soil and groundwater on site and direct remediation efforts for site development.
- **Principal Environmental Geologist and Technical Advisor for the assessment and remediation of a release transformer oil (60 percent PCBs) in a sidewalk vault in downtown San Diego:** Services included removal of the three transformers (approximately 3,000 pounds each) and associated oil-fuse cutouts, clean up of the spilled oil, removal of impacted concrete, verification sampling and analysis of underlying soil, addressing agency compliance issues, and preparation of reports. Due human health and safety concerns, street and sidewalk closures were effected, transit stops relocated and actual cleanup activities were performed at night. These activities performed under confined space conditions, with appropriate air monitoring, safety devices, trained personnel, and emergency plan. Based on DTSC interviews and review of the project documents, EPA Region 9 issued a no further action letter.
- **Principal Environmental Geologist and QA/QC Manager for groundwater monitoring well sampling related to leaking USTs and sites of environmental concern at the Sharpe Army Depot in Lathrop and the Tracy DoD Facilities in Tracy, California:** The project included weekly, monthly, quarterly, semi-annual and annual sampling of 327 monitoring wells, 39 extraction wells, 46 potable water wells, 4 outfall, irrigation canal and slough, and 3 groundwater treatment plants at the Sharpe and Tracey facilities. Other tasks include vapor sampling and air monitoring of vapor extraction systems, performance of emergency on-call sampling services, disposal of purge water to an on-site wastewater treatment facility, on going monitoring of the wells using an electric water level recorder and neutron probe, and analysis of laboratory data.
- **North Bay Redevelopment Project, San Diego, California:** Principal Environmental Geologist providing oversight during geotechnical, hazardous materials and water quality services. Services for the Hazardous Materials technical study will include performance of a site reconnaissance; review of available regulatory agency databases for the site and for properties located within a specified radius of the project site; review of readily available historical aerial photographs; analysis of human health impacts from existing uses in the project area; and preparation of a draft and final Hazardous Materials technical report. Services for the Water Quality technical study will include review of readily available maps, reports, photographs, plans and other documents pertinent to water quality issues for the site; performance of a site reconnaissance; review of readily available local regulatory agency information regarding surface water and groundwater for the site; and preparation of a draft and final Water Quality technical study report.
- **Project Principal for the preparation of a Preliminary Endangerment Assessment (PEA) equivalent report of the Tow Basin site:** The PEA was prepared to provide information for determining if there has been a release, or releases, of a hazardous substance, or substances, that presents a risk to human health or the environment. Ninyo & Moore's report summarized several phases of assessment work previously performed at the former Tow Basin site (Building 923) located at 3380 North Harbor Island, San Diego, California. The PEA Report was submitted to the San Diego Unified Port District legal counsel and the Department of Toxic Substances Control Division for review and comment. We understand that Ninyo & Moore's PEA report was well received and cited as being thorough and well written.

**PROFESSIONAL AFFILIATIONS**

National Groundwater Association  
San Diego Association of Geologists  
San Diego Environmental Professionals  
International Society of Environmental Forensics

# SREEKUMAR GOPINATH, PE

*Principal Engineer*

## EDUCATION

Master of Science, Civil Engineering, 1994, Texas A&M University, College Station, Texas  
Bachelor of Science, Civil Engineering, 1991, University of Kerala, India

## REGISTRATIONS AND CERTIFICATIONS

Registered Civil Engineer, California, RCE 57987  
40-Hour OSHA HAZWOPER Certification  
Nuclear Gauge Operator Certification

## PROJECT EXPERIENCE

As Principal Engineer for Ninyo & Moore, Mr. Gopinath has over 12 years of professional experience performing site assessments and investigations, evaluating remedial options, assisting with remediation design, and implementing remedial technologies. He is responsible for developing Conceptual Site Models, performing field exploration of contaminants of potential concern associated with various soil and groundwater contaminated sites, evaluating risk to human health and the environment, and designing groundwater and free product recovery remediation systems. He also has designed and remediated petroleum hydrocarbon contaminated soil using innovative excavation techniques. He served as project manager for the engineering design and later as the construction manager for the Interior Corrective Measures system for recovering free-product under the Chevron refinery in Hawaii. In addition, Mr. Gopinath designs, manages, and performs Geographic Information Systems (GIS) projects, designs environmental/geotechnical engineering investigations for various types of proposed and existing developments, performs field studies and data analysis relative to forensic investigations and new construction projects, and assists in project management including coordinating, staffing, and managing subconsultant requirements, and communicating with clients' representatives. Mr. Gopinath's project experience includes:

- **East Parking Lot Remediation Project/8<sup>th</sup> Avenue Tidelands Dump, San Diego, California:** Senior Engineer responsible for oversight of remediation activities at the site. Duties included evaluating cleanup levels, performing a screening level feasibility analysis, and preparing a Removal Action Work Plan for remediating source impacts from Manufactured Gas Plant (MGP) process wastes that were adversely impacting groundwater quality near San Diego Bay. The project was underlain by a significant portion of the former 8<sup>th</sup> Avenue Tidelands Dump and the removal action involved an extensive amount of excavating and characterizing burned materials and other wastes. Prepared a Request for Proposal, remediation specifications and drawings, and assisted in the selection of a remediation contractor. The contaminants of concern were volatile and semi-volatile organic constituents typically found in MGP waste such as benzene, naphthalene, and other PAHs.
- **Naval Training Center (NTC) Inactive Landfill, San Diego, California:** Principal Engineer responsible for developing a removal action work plan and clean closure plan, including development of specifications and design, and supporting the client in choosing a remediation contractor.
- **10th Avenue Marine Terminal Redevelopment (including the 8th Avenue Tidelands Dump and portion of the Newton Avenue Dump), San Diego, California:** Project Manager and primary investigator associated with developing and preparing a GIS database which incorporated approximately 500 locations of previous soil and groundwater analytical data. The data were used to summarize the environmental history of the 10<sup>th</sup> Avenue Marine Terminal and to delineate the approximate boundary of the former 8th Avenue Tidelands Dump and western portion of the former Newton Avenue Dump. The database can be queried to identify various types of contaminants (e.g. benzene, lead, etc.) and the data are presented on maps which can be contoured and immediately assist the San Diego Unified Port District.
- **Former Campbell Shipyard Spinnaker Hotel Remediation Project, San Diego, California:** As Principal Engineer, performed the Remedial Investigation and Feasibility Study and characterized the general extent of gasoline petroleum hydrocarbon contamination, developed cleanup levels in close consultation with District staff and the Regional Water Quality Control Board, prepared a Remedial Action Plan for removal of soil impacted with gasoline contamination, and provided observation and documentation of cleanup activities. The project resulted in the removal of approximately 7,000 tons of impacted soil and the removal of free product.
- **Santa Fe Road Disposal Sites, Riverside, California:** Prepared maps and drawings in support of an investigation that involved characterizing and delineating the extent of buried wastes at a former disposal site.

**SREEKUMAR GOPINATH, PE**  
*Principal Engineer*  
*(Continued)*

- **Arvin Landfill, Arvin, California:** Provided engineering services associated with delineating the extent of groundwater contamination. Directed and oversaw the drilling and construction of monitoring wells, evaluated groundwater constituents of potential concern and provided recommendations regarding the existing evaluation monitoring program.
- **Former Campbell Shipyard Aquatic Enhancement and Sediment Remediation Project, San Diego, California.** Project manager for developing sediment cleanup alternatives and studies to support the Basis of Design Report and the Environmental Impact Report for the sediment cap project. Assisted the design team in characterizing the dredge sediments for upland disposal as non-hazardous waste. Assisted the District in responding to Regional Board comments on the Report of Waste Discharge application for obtaining Waste Discharge Requirements (WDRs). Assisted the District in preparing public presentations, the Long and Short-Term Monitoring and Reporting Plans, and the Quality Assurance Project Plan in compliance with the WDRs and the Army Corps of Engineers Permit. Coordinated the participation of subconsultants to perform a pre-dredging eelgrass and Caulerpa study, prepare the sediment cap design, model the effects of erosion on the sediment cap, and perform geotechnical studies of the existing and future conditions.
- **Audit of Hazardous TSD/Incinerator Facility, Tooele, Utah:** Project Engineer for audit of TSD/Incinerator facility in Tooele for the UK Royal Navy.
- **Remediation of Metal Impacts, Coronado, California:** Project Engineer for the remediation of metal contaminated soil at a former boat repair facility in Coronado. The project included contaminant transport modeling, risk assessment, evaluation of remediation alternatives, preparing engineering estimates and schedule for the excavation and disposal of approximately 250 tons of RCRA hazardous soil to a Class I facility. Confirmatory samples were obtained to evaluate the effectiveness of remediation.
- **Environmental Engineering Services, San Diego Ballpark, San Diego, California:** Project Engineer/Manager responsible for preparing environmental and contaminated soil disposal documents, third-party monitoring remediation by excavation and disposal, remediation estimates, and preparing specifications for various facilities (Imperial Avenue, 901 J Street, Ballpark Stadium footprint, Ballpark Infrastructure footprint, Westin Hotel). Regularly coordinated with and provided progress reports to the lead regulatory agency, the County of San Diego Department of Environmental Health.
- **Chevron Hawaii Refinery Interior Corrective Measures (Turnkey), Oahu, Hawaii:** Project Manager for the design phase of the ICM project and Construction Manager for the construction phase of the project. Prepared design documents, drawings, specifications, and bid documents for the ICM project, which consisted of the construction, operation, and maintenance of a unique network of free-product recovery trenches and wells on and off the refinery. The project also included the installation of a state-of-the-art monitoring and data collection system. Participated in decision meeting with the EPA. Used cost control and scheduling software, a project-specific submittal tracking system in MS Access, and project management tools to complete project on time and under budget.
- **PCE-contaminated soil, Poway, California:** Project Engineer for the remediation of PCE-contaminated soil at a dry cleaning facility in Poway, California. The remediation involved excavating and disposing of the PCE-contaminated soil. Confirmatory samples were obtained to evaluate the effectiveness of remediation. Used cost control and scheduling software, and project management tools to complete project on time.
- **PAH-contaminated soil, Pump Station, Helix Water District, Santee, California:** Project Engineer for the remediation of PAH contaminated soil at a pump station facility in Santee. The remediation involved excavating and disposing of the contaminated soil from a former wood treating facility. Confirmatory samples were obtained to evaluate the effectiveness of remediation..
- **Tow Basin Remediation Project, San Diego, California:** Performed a human health risk assessment for evaluating cleanup levels for PCBs in paint consistent with DTSC exposure and risk assessment guidelines. Estimated quantities for the remediation and demolition of the Tow Basin structure and building for remediation cost estimates and schedules. Assisted in the selection of a remediation contractor.

**SREEKUMAR GOPINATH, PE**  
*Principal Engineer*  
*(Continued)*

- **Los Angeles Unified School District, Los Angeles, California:** Analyzed the user and business requirements for a Relational Database System (RDBMS) to monitor asbestos related releases and to activate required notifications for the: End users (school facility personnel), school district managers, and asbestos consultants were interviewed to develop the system and business objectives of the RDBMS. Developed an Entity-Relationship (ER) model for the various entities, constraints, and relationships. The RDBMS was implemented in MS Access.
- **Maintenance Dredging, 10th Avenue Marine Terminal, National City, California:** Prepared and implemented a work plan for waste profiling of dredged sediment. Performed laboratory bench scale testing of the effects of cement reagent on saturated sediment for handling and transportation to the landfill facility. Varying proportions of cement were added to the sediments while controlling other variables and the pH, turbidity and moisture content were monitored over time to evaluate the feasibility of the approach and the target proportion range of cement required during dredging.
- **Laura T. Rodriguez School, San Diego, California:** As Principal Engineer, assisted the Ninyo & Moore project manager and the San Diego Unified School District project manager on the Laura T. Rodriguez school project by performing a Human Health Screening Evaluation of contaminants of concern such as polychlorinated biphenyls, polynuclear aromatic hydrocarbons, metals, and organochlorine pesticides for the exposure pathways of inhalation, ingestion, and dermal contact. Responded to comments from the California Department of Toxic Substances and Control (DTSC) on the Closure Report and the HHSE performed by the previous consultant.
- **Winchester School PEA, Temecula Valley Unified School District, Temecula, California:** Performed a human health screening evaluation, developed a Site Conceptual Model, evaluated complete pathways and routes of exposure, evaluated contaminants of concern, and performed an exposure and toxicity assessment to quantify cancer risk and non-cancer hazards to the sensitive receptors identified. The PEA was reviewed and approved by the DTSC.
- **San Diego Mercado at Crosby Street Cesar Chavez Street and National Avenue, San Diego, California:** As Project Manager for the environmental assessment of the San Diego Mercado project, prepared work plans, soil management plans, performed a human health risk assessment, and prepared project specifications for a vapor barrier to mitigate the human health risk. Prepared the Voluntary Assistance Program (VAP) application for oversight by the DEH and worked closely with the City of San Diego RDA, counsel to City of San Diego RDA, and the DEH to implement the soil management plan.
- **The Citadel Environmental PEA, Commerce, California:** Developed a Site Conceptual Model and performed a human health screening evaluation in accordance with the exposure and risk equations presented in the DTSC modified Johnson & Ettinger model for vapor inhalation risk and the USEPA Soil Screening Guidance manual. Pathways of exposure included ingestions of contaminants in shallow soil, inhalation of volatiles from soil and groundwater, inhalation of contaminants in airborne dust, dermal absorption of contaminants in soil (incidental) and groundwater (showering), and ingestion of contaminants in soil (incidental) and groundwater (drinking water).
- **Access Relational Database SGCVOG Brownfields Project:** Designed and implemented a relational database in Access to store property information, parcel information, physical features such as buildings, type, number of floors, type of construction, title information, tax information, transportation access, and environmental conditions. The database had geographical coordinates on which the database was linked with GIS shapefiles to display the information in a readable format.

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers

National Honor Society of Phi Kappa Phi

**JOEL R. KUSHINS, PE**  
*Principal Environmental Engineer*

**EDUCATION**

Master of Science, Civil Engineering, 1976, California State University, Sacramento, California  
Bachelor of Science, Civil Engineering, 1971, University of California, Davis, California

**REGISTRATIONS AND CERTIFICATIONS**

Registered Civil Engineer, California, RCE 29367  
Professional Engineer, Utah, PE 963322382202  
American Red Cross Adult CPR and Standard First Aid  
ASCE Post-Earthquake Damage Assessor  
OSHA 40-Hour HAZWOPER Certification  
OSHA Site Safety Officer Certification

**PROJECT EXPERIENCE**

Mr. Kushins has over 30 years of engineering experience on multidisciplinary civil, environmental, and hazardous waste management projects. As Principal Environmental Engineer at Ninyo & Moore, he is the administrative and technical analyst for civil and environmental engineering projects for both private and public sector clients. Mr. Kushins' responsibilities include program and project management, expert witness, strategic and interactive planning, regulatory compliance and agency negotiations, cost estimating and scheduling, remedial design and investigations, feasibility studies, constructability review, risk-based facility closure and certification, construction management and inspection services, and site restoration. Mr. Kushins is directly responsible for site-specific project implementation of OSHA safety and health principles and total quality management principles. Mr. Kushins' project experience includes:

- **U.S. Army Corps of Engineers, Various Solid Waste Sites, California and Utah:** Conducted remedial investigations, feasibility studies (RI/FS), risk assessments (RA), community relations plans (CRP), and remedial design/removal actions (RD/RA) for waste sites containing petroleum products, chlorinated hydrocarbons, explosives, and radioactive contaminants.
- **U.S. Army Corps of Engineers, Metal Scrap Landfill, Utah:** Performed a subsurface investigation at a contaminated Metal Scrap Landfill at the Deseret Chemical Depot. Excavated trenches, collected samples, and evaluated constituents of concern for closure of the site.
- **U.S. Army Corps of Engineers, Box Elder Wash Illegal Dump, Utah:** Evaluated an illegal dump area at the Box Elder Wash (ravine) at the Tooele Army Depot in Tooele, Utah. Sampled and chemically characterized soils underlying leaking drums, classified hazardous waste, and disposed over 50 abandoned 55-gallon drums.
- **Air Force Center for Environmental Excellence, Castle Air Force Base, Merced, California:** Prepared comprehensive data packages, work plans to characterize shallow and confined groundwater aquifer plumes, technical documents for no-further-action, and a hydrogeologic assessment report for a former fire training area in accordance with State of California Toxic Pits Cleanup Act.
- **U.S. Army Corps of Engineers, Travis Air Force Base, Fairfield, California:** Served as Project Manager responsible for the Installation Restoration Program (IRP) at West Annexes, Basewide Operable Unit (WABOU), under contract with USACE. A Remedial Investigation/Feasibility Study (RI/FS) Work Plan was prepared for 50 sites including landfills. In addition, a Sampling and Analysis Plan (SAP), Field Sampling Plan (FSP), Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HSP) were prepared in support of the IRP.
- **Port of Redwood City Facility, Liquid Bulk Terminal, Redwood City, California:** Conducted a \$10 million dollar remediation and closure activities project at the former Gibson Environmental Redwood City Facility. This project included management, treatment, transportation, and recycling/disposal of 10 million gallons of designated hazardous waste stored in nine aboveground liquid bulk storage tanks. Litigation support activities included preparation of technical briefs and technical presentations at mediations.
- **California Environmental Protection Agency, Singer-Friden Site, San Leandro, California:** Prepared an Engineering Evaluation/Cost Analysis Report in support of a future remedial action plan for cleanup of TCE-contaminated groundwater at this California EPA Superfund site.

- **San Francisco Unified School District, New Bessie Carmichael Elementary School, City and County of San Francisco, California:** Provided environmental consulting services for the New Bessie Carmichael Elementary School. Prepared a Remedial Action Workplan and supporting bid document for SFUSD to solicit competitive bids for the removal and disposal of contaminated soil. Supervised risk assessment activities, provided construction oversight during the remedial activities, prepared a summary construction monitoring report, and supervised a Community Outreach Program.
- **Golden Gate Bridge Highway and Transportation District, Santa Rosa Bus Facility, Santa Rosa, California:** Conducted remedial investigation, remedial design, and removal actions at the District's former underground storage tank fueling area. Activities included characterization of the vertical and horizontal extent of soil and groundwater contamination; and engineering design and construction of a vapor extraction and french-drain-type groundwater collection systems.
- **The Home Depot, Industrial Parcel, Redwood City, California:** Performed a Phase I and II environmental site assessment for a 10-acre industrial parcel. Developed various soil and groundwater cleanup alternatives with associated cost estimates and schedules, and negotiated soil and groundwater cleanup levels with the lead regulatory agency for the selected remedial alternative.
- **Lockheed Martin Corporation, Missiles & Space, Building 170 Site Closure, Sunnyvale, California:** Prepared bid package for the \$9 million site closure at Lockheed Martin Corporation, Missiles & Space facility. Bid package included work elements to decontaminate, demolish, and attain environmental closure for Building 170 which housed government-secured "black" projects.
- **The Presidio Trust, Commercial and Residential Buildings Lead-In-Soil Surveys, San Francisco, California:** Conducted comprehensive lead-in-soil surveys at both occupied and unoccupied commercial and residential facilities at the Presidio. Mr. Kushins' responsibilities for this on-call services contract is to provide quality assurance/quality control services to the project. He provides technical reviews for all site investigation workplans and reports to ensure The Presidio Trust and appropriate regulatory agency protocols and requirements are met.

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers

Restoration Advisory Board, Technical Review Committee Member, Oakland Army Base

**STEPHEN J. WAIDE, CIH, CSP**  
*Principal Environmental Scientist/Corporate  
Health and Safety Officer*

**EDUCATION**

Bachelor of Science, Occupational Safety and Health, California State University, Fresno, California  
Bachelor of Science, School and Community Health, California State University, Fresno, California

**REGISTRATIONS**

Certified in the Comprehensive Practice of Industrial Hygiene, CIH No. CP7005  
Board of Certified Safety Professionals, CSP No. 15352

**PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES**

As Corporate Health and Safety Officer of Ninyo & Moore, Mr. Waide has over sixteen years of experience in the development and implementation of industrial hygiene, health physics, and industrial safety programs, both within private industry and government funded environmental projects such as large-scale remedial investigations, waste characterization programs, and remedial actions. He has extensive field experience in the design of industrial hygiene programs, radiological characterization and remediation, asbestos abatement, hazardous waste site activities, and designing and implementing hearing conservation and respiratory protection programs. Mr. Waide is highly knowledgeable in all forms of field industrial hygiene and health physics instrumentation and is a skilled instructor for OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) training. Mr. Waide's experience includes:

- **Various CIWMB Landfill and Burn Sites (Hellyer Park Landfill-San Jose, Belmont Shores, (former landfill site) Long Beach, Gerber Road Landfill-Sacramento County, California:** Developed and provided third party review of site-specific Health and Safety Plans and provided technical expertise and support for field operations associated with conducting intrusive investigative work at various CIWMB landfill/burn sites. Addressed field safety associated with elevated metal concentrations, excessive landfill gas, and discovery of potential hazardous waste. Provided specifications for personal sampling, personal protective equipment specifications, and hazard analysis.
- **Naval Training Center (NTC) Landfill/Burnsite, Site Investigations and Remedial Action, San Diego, California:** Developed the site-specific Health and Safety Plan and provided technical expertise and support for field operations including real-time specialty monitoring for volatiles, personal protective equipment specifications and hazard analysis.
- **Laura G. Rodriguez Elementary School Site, San Diego, California:** As the industrial hygienist for the project, Mr. Waide developed a health and safety plan that addressed contaminants of potential concern characteristic of burn sites, including arsenic, lead, and dioxins/furans. In addition, he provided project oversight with respect to air monitoring activities, which included continuous real-time dust readings as well as perimeter and personal monitoring. Mr. Waide observed field activities to ensure the health and safety of the workers and community during excavation activities associated with the burned wastes.
- **Assembled Chemical Weapons Assessment, U.S. Army Corps of Engineers, Pueblo, Colorado:** Safety and Health Program Manager responsible for a crew of up to 15 Safety and Health Professionals through all phases of design, systemization, operation, and closure of a 1.5 billion dollar Chemical Demilitarization Facility which will rid the state of Colorado of its stockpile of military mustard agent contained within live munitions. Led a System Safety Team through vigorous hazard assessments including HAZOP and FMEA to support the design of this facility.
- **Bechtel Projects Worldwide:** Bechtel Corporate Special Projects Manager supervising the health and safety functions for major projects. Provided specialty industrial hygiene, health physics, and occupational safety advice and program audits. Provided advice in the form of technical expertise to corporate management in matters that concern field safety/health practices.
- **Shell Chemicals and China National Offshore Oil Corporation, Reading, England:** Project Industrial Health Coordinator providing industrial hygiene and occupational safety authority and leadership for design and construction of a 4.5 billion dollar petrochemical complex in southern China. Duties included managing the medical provider for the project, preparing occupational health and safety procedures, coordinating all industrial hygiene and occupational safety project interfaces, scoping and providing oversight of the project's health risk assessment, and medical surveillance during pre-construction and construction activities.

**STEPHEN J. WAIDE, CIH, CSP**  
*Principal Environmental Scientist/Corporate Health and Safety Officer*  
*(Continued)*

- **Chemical Demilitarization, U.S. Army Corps of Engineers, Aberdeen Proving Ground, Aberdeen, Maryland:** Project Industrial Hygienist responsible for construction safety and health program implementation for the Bechtel Aberdeen team, teaming partners and subcontractors during construction of a chemical demilitarization facility. Duties included designing the industrial hygiene programs for construction and operations, including respiratory protection programs, confined space programs, heat stress, and warfare agent detection and control.
- **Comprehensive Long-Term Environmental Action, Navy (CLEAN) Program, Naval Facilities Engineering Command, Southwest Division, San Diego, California:** Safety and Health Program Manager responsible for development and management of the Safety and Health Program. Developed health and safety plans and procedures for the Environmental Remedial Investigations of 14 naval and marine bases. Developed the safety and health requirements for subcontractors and participants in the selection process, and developed and provided cross-training in safety and health to environmental scientists who perform field investigations. Also inspected and audited field sites for compliance with regulatory requirements, provided technical direction, and managed the HAZWOPER and Medical Surveillance Programs.
- **Department of Energy, Formerly Utilized Sites Remedial Action Program (FUSRAP), Aliquippa Forge, Aliquippa, Pennsylvania:** Radiological Site Manager responsible for on-site management of radiological and industrial hygiene controls during all phases of remediation and decontamination of a foundry used for processing uranium and other heavy metals.
- **Department of Energy, Formerly Utilized Sites Remedial Action Program (FUSRAP), Colonie Interim Storage Site, Colonie, New York:** Project Industrial Hygienist responsible for the air monitoring, contamination control and instrumentation program at this DOE facility during remediation and decontamination activities of a uranium manufacturing plant. Air monitoring included the use of real-time instruments for unknown chemicals, high volume samplers for airborne radioactive particulate, and personnel air samplers for radioactive contamination, asbestos, and heavy metals. Contamination control included the use of a variety of radiation detection instruments including Geiger Mueller tube detectors and photomultiplier tubes.

**PROFESSIONAL AFFILIATIONS**

Member of the American Board of Industrial Hygiene (ABIH)  
San Diego Chapter of the American Industrial Hygiene Association (AIHA)  
American Society of Safety Engineers (ASSE)  
Society of American Military Engineers (SAME)

**PETER D. CLARK, PG, REA**  
*Project Environmental Geologist*

**EDUCATION**

Bachelor of Arts, Geological Sciences, University of California at Santa Barbara  
Professional Certificate, Hazardous Materials Management, University of California at San Diego

**REGISTRATIONS**

Professional Geologist, California, PG 7361  
Registered Environmental Assessor, California, REA 2984

**CERTIFICATIONS**

DHS Lead Inspector/Assessor Certificate # 2600	EPA 24-Hour Lead Inspector Training
EPA 16-Hour Lead Inspector/ Risk Assessor Training	OSHA 40-hour Health and Safety Training
OSHA 8-hour Health and Safety Supervisor Training	OSHA 8-hour Confined Space Entry Training

**PROJECT EXPERIENCE**

Mr. Peter Clark has over 20 years of extensive experience in environmental consulting services. As a Project Environmental Geologist for Ninyo & Moore, Mr. Clark manages and participates in disposal site characterization and delineation projects, environmental audits, UST assessments, Phase I and II environmental site assessments, regulatory compliance reviews, hazardous waste characterization and management, and remedial action evaluation and implementation. Mr. Clark's recent project experience includes:

- **Belmont Shores, Long Beach, California:** Field project geologist for a CIWMB project that involved constructing temporary landfill gas monitoring probes at the Belmont Shores mobile home park, a portion of the City Dump and Salvage, Site 1. Provided input into the gas monitoring work plan; providing oversight and direction during the drilling, designing, and construction of the gas monitoring probes; soil sampling and characterization; logging borings; documentation; and ensuring construction of the landfill gas monitoring probes in accordance with the work plan and applicable regulations. Provided assistance to CIWMB in the installation of a continuous gas monitoring system that involved installing sensors underneath the skirts of selected mobile homes where previous readings or other issues indicated the presence or potential presence of methane gas to evaluate air space under the coaches.
- **Cannery Street Landfill, Huntington Beach, California:** Field project geologist for a CIWMB project that involved designing and constructing landfill gas monitoring wells at a former landfill site in general accordance with CCR Title 27 requirements. Provided oversight and direction during the designing, drilling, and construction of the gas probes, soil sampling and characterization, logged borings, provided documentation, and ensured construction of the landfill gas monitoring system in accordance with the work plans and applicable regulations.
- **Hellyer Park Landfill, San Jose, California:** Field project geologist for a CIWMB project that involved construction of landfill gas monitoring probes at a portion of the former Hellyer Park Landfill to evaluate methane gas concentrations. Obtained permits and provided oversight and direction during the drilling, designing, and construction of the gas probes, soil sampling and characterization, logged borings, provided documentation, and ensured construction of the landfill gas monitoring wells in accordance with the work plans and applicable regulations.
- **Gerber Road Landfill, Sacramento, California:** Field project geologist for a CIWMB project that involved providing oversight and direction associated with constructing a landfill gas monitoring system in general accordance with CCR Title 27 requirements. Provided oversight during landfill gas monitoring well drilling and installations, prepared boring logs and landfill gas well construction diagrams, collected samples, prepared daily reports, and provided photographic documentation. Single and multi level gas probes were constructed at the landfill perimeter. Interior landfill gas probes were also constructed to evaluate the potential for gas generation in areas where the buried wastes were suspected to be the greatest thicknesses.
- **Crestmore Landfill, Crestmore, California:** Field project geologist for a CIWMB project that involved the installation of multi-level landfill gas probes in general accordance with CCR Title 27 requirements to monitor the potential presence of methane and other gases associated with the former landfill site.
- **Santa Fe Road Disposal Sites, Riverbank, California:** Field project geologist for a CIWMB project that involved performing a comprehensive investigation of four former landfill/burn site properties, which were complicated by subsequent illegal disposal subsequent to landfill closure. Excavated approximately 70 trenches to characterize and delineate the extent of burned refuse, wastes, and debris. Compiled analytical data and assisted with preparing the site assessment report, including approximate volume estimates of waste and providing recommendations regarding remedial alternatives. Other challenges at this site included large amounts of construction debris mixed in with layers of burn ash, complicating the sampling, delineation, and estimate of waste volumes.

**PETER D. CLARK, PG, REA**  
*Project Environmental Geologist*  
*(Continued)*

- **Site Assessment and Corrective Action, Portions of the Former 8th Avenue Tidelands Dump/ Former Campbell Shipyard and East Parking Lot, San Diego, California:** Field project geologist responsible for characterization and delineation a portion of the extent of a former burn site at the San Diego Unified Port District General Services Building. Excavated trenches and installed borings in a complicated area where subsurface fill soils were impacted by several sources including a former gas manufacturing plant, former burn site, and an off- site volatile organic compounds plume. Limited access drilling methods were used to delineate areas of subsurface contamination in the interior of the General Services Building. Some portions of the assessment work were conducted on the weekends to reduce impact to the on-going operations of the General Services Building.
- **Naval Training Center (NTC) Inactive Landfill/Burn Site, Site Investigations, Remedial Action, San Diego, California:** Field project geologist responsible for providing oversight and direction associated with constructing a landfill gas monitoring system in general accordance with CCR Title 27 requirements. Provided oversight during landfill gas monitoring well drilling and installations, prepared boring logs and landfill gas well construction diagrams, collected samples, prepared daily reports, and provided photographic documentation. Single level gas probes were constructed at the landfill perimeter in general accordance with applicable portions of CCR Title 27.
- **Closure Assessment Study, Lenwood-Hinkley Landfill, County of San Bernardino, California:** Project Manager for the County of San Bernardino project that involved the closure of six septic ponds and diverting the wastes to the Barstow Solid Waste Disposal Facility. Evaluated whether the septic pond sludge contained contaminants that would preclude the sludge from being accepted at the disposal facility. Performed a limited evaluation of whether the underlying soil had been adversely impacted by the overlying sludge through comparison of various chemical constituents to those present in background soil samples. Conducted field services with regard to these evaluations, which included hand auger drilling and soil and sludge sampling. Chemical analysis of soil and sludge samples was performed by a state-certified laboratory under contract with the County. Based upon the results of the field and laboratory analyses, an environmental assessment report presenting our conclusions and recommendations regarding pond closure was prepared.
- **Hydrogeologic Consulting Services Skinner Lake Monofill Expansion, Temecula, California:** Project Manager for the proposed expansion site encompassing approximately 50 acres. Sludge from the water treatment plant was mixed with the excavated soil and placed in the excavation. Services included performance of in-situ permeability testing of the near-surface bedrock formation in the expansion area. The testing was performed to evaluate the potential for leachate from dewatered sludge waste from a nearby water filtration plant, adversely impacting the local groundwater regime. Based on the results of fieldwork, a report presenting a discussion of field activities and a summary of our findings was prepared.
- **Various UST Sites, Southern California:** Project environmental geologist for numerous Phase II environmental site assessments involving leaking underground storage tanks throughout southern California. Project tasks included on-site soil and groundwater sampling to delineate areas of contamination and the preparation of technical reports documenting all findings, conclusions, and recommendations. Prepared and implemented remedial action plans to obtain regulatory site closure.
- **Industrial Properties, Various Locations, Southern California:** Project environmental geologist for over 200 Phase I environmental site assessments involving commercial and industrial properties. Project tasks included on-site assessments of potential environmental problems, review of regulatory agency records, interviews with on-site and near-site individuals to assess the history of usage, and the preparation of technical reports documenting findings and providing conclusions and recommendations.
- **North and South Embarcadero Redevelopment Program EIR, San Diego, California:** Project Environmental Geologist providing environmental consulting services to assist in the preparation of the Program I Environmental Impact Report (EIR) for the North and South Embarcadero Redevelopment Plan. Services were provided to address the hazardous materials and water quality issues for the EIR, and included the preparation of three separate technical reports to be attached in an appendix to the EIR. Potentially significant impacts that were identified were the presence of contaminated soil and groundwater, soil corrosivity, and a high potential for liquefaction and seismically induced settlement. A range of potential mitigation measures was provided.

**PROFESSIONAL AFFILIATIONS**

Association of Engineering and Environmental Geologists  
San Diego Environmental Professionals  
San Diego Association of Geologists

**EDUCATION**

M.S., Geological Engineering, 2000, Montana Tech of the University of Montana  
B.S., Geology, 1975, University of Pittsburgh

**REGISTRATIONS AND CERTIFICATIONS**

California Professional Civil Engineer, 67169  
California Professional Geologist, 4507  
Idaho Professional Geologist, 625  
40-hour OSHA HAZWOPER  
8-hour OSHA Management and Supervisor Specialized Training  
OSHA Excavation Safety/Competent Person Training  
CPR and Standard First Aid Training

**PROJECT EXPERIENCE**

As a Senior Engineer for Ninyo & Moore, Ms. Flack has more than twenty years of experience in environmental, civil, geotechnical, and water resources engineering, as well as hydrogeology, construction oversight/management and construction QA/QC. She has completed engineering designs and performance evaluations for landfill covers, erosion controls, slope stabilization, and surface runoff/drainage controls. Ms. Flack has prepared construction bid specifications for earthwork projects using California Standard Specifications. In addition, Ms. Flack has extensive experience in all aspects of environmental assessments and remediation under CERCLA and RCRA, including preparing EE/CA's, ERA's, RI/FS's, RD's, RAP's and EPA Brownfields Site Cleanup submittals. Project work involved engineering design and construction management at landfills, industrial properties/facilities, mining properties, hazardous waste sites (including tailings impoundments and dams), and mineral processing facilities. Her diverse experience includes work in consulting, the private sector, and state government, and includes the following:

- **BKK Landfill Emergency Response Action, West Covina, California:** In response to uncontrolled toxic gas emissions near the Community of Walnut, California, Ms. Flack assisted in the design and preparation of work plans for construction of over one mile of landfill gas collection trenches within the Class I landfill areas. Damaged CMP storm drain lines provided a conduit for toxic gas emissions from the Class I landfill. Within existing storm drain trenches, replacement horizontal gas collection drains were designed to replace removed CMP piping. The gas collection trenches consisted of perforated pipe enclosed in drain rock and geotextile fabric with risers to the above ground gas collection lines. The system was designed to reduce toxic gas emissions by applying a vacuum to surrounding Class I wastes, collecting the gas and routing it to the on-site gas power plant.
- **Humboldt Road Burn Dump, Site Closure RI/FS and Remedial Design, Chico, California:** As Project Engineer, Ms. Flack was responsible for providing detailed cost estimates for both feasibility study and subsequent remedial design of a former burn dump located in Chico, California. Work included preparation of waste volume estimates, waste transportation plan development, preparation of traffic control plans, and completion of underground utility identification and protection plans. Remedial options examined included removal of 400,000 cubic yards of RCRA hazardous wastes for disposal at a Class I facility, and consolidation of all wastes from seven separate areas and capping the wastes on-site. Ms. Flack analyzed short term risks (hazards to the public due to releases or traffic accidents) associated with hauling hazardous wastes 250 miles to the nearest permitted disposal site and developed a QA/QC plan for cleanup confirmation sampling. Ms. Flack also completed a cost analysis for post-closure groundwater monitoring and supported air quality modeling for heavy equipment emissions. Site complexities included removal of all wastes occurring along the banks and in the bed of an intermittent stream and determining costs for stream and floodplain reconstruction.

**PHYLLIS E. FLACK, PE, PG**  
**Senior Engineer**  
**(Continued)**

- **BKK Landfill Storm Drain Rehabilitation, West Covina, California:** As Storm Drain Rehabilitation Task Manager, Ms. Flack directed the design and preparation of work plans for the reconstruction of over one mile of storm drain structures at the closed BKK Class I and Class III landfills in West Covina, California. Work was being conducted under an emergency response action for DTSC, due to extensive failures in the existing buried corrugated metal pipe storm drain system.
- **West Contra Costa County Sanitary Landfill, Richmond, California:** Ms. Flack was responsible for field engineering and construction oversight during closure construction for the RCRA Class I Hazardous Waste Management Facility at this site. She provided QC submittals and material testing results for cap construction materials. Final capping included construction of gas collection systems, placement and compaction of foundation material, installation of geotextile layers, geomembrane liners, and geocomposite materials, placement and compaction of low permeability clay, and placement of a soil layer to support a vegetative cover and revegetation. Work also included construction of surface water diversions, sediment catch basins, and runoff control structures.
- **P&M Cedar, Roseburg, Oregon:** Ms. Flack served as Project Engineer for design of a closure cap for a wood waste landfill. Design work included slope stability/minimization analyses, design of a low permeability soil barrier layer, preparation of a long term groundwater monitoring plan, development of an erosion control plan, and design of engineering surface runoff diversion structures. In addition, Ms. Flack prepared all regulatory submittals required for site closure and post closure inspection and maintenance.
- **IT Corporation, Closed Hazardous Waste Landfills, Northern California:** Ms. Flack completed annual post-closure inspections for five hazardous waste landfills in northern California. Inspections included examination of slopes, monitoring installations (groundwater wells and settlement monuments), access controls, diversion structures, signs of erosion, productivity of vegetative cover, and condition of leachate collection systems and liners. Duties included reviewing annual groundwater monitoring reports, survey data, surface water discharge data, liner and leachate collection system testing results, and providing inspection reports for all facilities examined.
- **Rodeo Waterfront Predevelopment Assessment, Rodeo, California:** As Senior Engineer, Ms. Flack was responsible for preparing Sampling and Analysis Plans for two adjacent waterfront properties (on San Pablo Bay) to characterize existing conditions and provide information necessary for the Contra Costa County Redevelopment Agency to assess environmental cleanup options, dredging, marina maintenance, and project financing.
- **City of Emeryville, Dutro Site at 62nd Street, Emeryville, California:** As Senior Engineer, Ms. Flack prepared CERCLA submittals for Brownfields redevelopment of a former industrial manufacturing site as a city park/open space. Work required preparation of an Engineering Evaluation/Cost Assessment (EE/CA) for the site to identify remedial action objectives, cleanup goals, and develop and analyze remedial action alternatives to support recreational site reuse. Ms. Flack identified site contaminants (petroleum hydrocarbons, benzo(a)pyrene and lead), presented cleanup technology options to be considered for the site (capping, excavation and consolidation of contaminated soils on site, removal with off-site disposal, bioventing and biopiles). Ms. Flack is currently developing Site Cleanup Plans (including site cleanup overview and remedial action work plan submittals) for the removal and off-site disposal alternative.
- **Multiple Operable Units, Upper Clark Fork River Basin, Montana:** As Environmental Manager, Ms. Flack managed various stages of Superfund cleanups for projects valued at up to 50 million dollars. Activities included hydrologic investigations (surface and ground water), environmental assessments, risk assessments, and preparation of remedial investigations and feasibility studies under CERCLA. Conducted agency and PRP negotiations and participated in public meetings. Directed implementation of remedial actions using conventional construction techniques as well as innovative technologies (including water treatment in wetlands and in-situ bioremediation). Negotiated and implemented a voluntary cleanup for State Superfund site in Lincoln, Montana. Managed construction for expedited response action involving the removal of nearly 2 million cubic yards of tailings- and metals-contaminated soils.

**PHYLLIS E. FLACK, PE, PG**  
**Senior Engineer**  
**(Continued)**

- **Anaconda Regional Water and Waste Investigation, ARCO, Anaconda, Montana:** As Project Manager, Ms. Flack supervised all field investigations, data collection, and analysis activities for this pre-RI/FS CERCLA scoping study. Site investigations examined soil properties, surface water, groundwater, meteorology, and vadose zone and soil geochemistry. Results were utilized in hydrologic flow modeling, contamination assessments, evaluation of contaminant migration potential from known waste disposal areas, definition of exposure pathways, and to address other RI/FS data requirements.
- **Butte Priority Soils Investigation, ARCO, Butte, Montana:** As Project Engineer, Ms. Flack supervised and established logistics for a residential soil sampling and analysis program involving over 500 private properties, mine waste dumps, and outcrops. Ms. Flack utilized sample results to delineate and prioritize areas for emergency removals where lead concentrations posed a significant health risk.
- **Old Works/East Anaconda Development Area RI/FS, Montana:** As Technical Advisor, supervised and provided technical support for field soil sampling, vegetation sampling, and waste characterization efforts for completion of an RI/FS for a site containing two historic copper smelters, a copper processing facility, and several unique waste deposits associated with various “turn of the century” (late 1800s) mineral processing operations.
- **Butte Priority Soils Railroad Bed EE/CA, Butte, Montana:** Supervised the preparation of an EE/CA to address railroad beds constructed with metals-contaminated soils (mine wastes) situated throughout residential areas of Butte, Montana. Remedial alternatives ranged from no action to complete removal of all contaminated railbeds.
- **Milltown Dam Superfund Site, Remedial Investigation and Feasibility Study, Missoula, Montana:** Characterized heavy metals contamination within 6 million cubic yards of sediment contained behind Milltown Dam in Bonner, Montana. Examined options for site remediation, including sediment removal, dam removal, wet closure using wetlands, and in-situ sediment stabilization within the 540-acre reservoir. Work involved complete ecological risk assessment of the reservoir vicinity and health risk assessment for the surrounding area, and providing an alternate drinking water supply for residents with arsenic-impacted wells.
- **RCRA Groundwater Monitoring and Corrective Action, Boise, Idaho:** As Project Hydrogeologist, Ms. Flack designed and implemented a RCRA groundwater monitoring and corrective action program for solvent and inorganic groundwater contamination at an industrial facility. Corrective action design included use of air strippers, bioremediation and activated carbon filter systems. Ms. Flack also developed the required RCRA post-closure compliance groundwater monitoring program in a complex alluvial aquifer system.

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers

Association of Engineering Geologists

**EDUCATION**

Masters of Science, Geology, 2006, California State University, Sacramento  
Bachelor of Science, Geology, 2001, University of California, Davis in Davis

**CERTIFICATIONS**

California Professional Geologist, #7914  
California Certified Commercial Air Diver, #4354  
40-Hour Health and Safety Training (with annual updates)  
American Heart Association First Aid and CPR Training (with annual updates)

**PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES**

Mr. Schneider is a Project Geologist with nine years experience conducting environmental investigations and providing field support during site remediation programs. He has participated in the development of Corrective Action Plans, Groundwater Monitoring Reports, Feasibility Study Reports, Remedial Investigations, Phase I / II Investigations, and Health and Safety Plans. His drilling experience includes Hollow Stem Augering, Air/Mud-rotary, Bucket, and Direct-push; well installation/development, and sampling of soil, water, and gas. Mr. Schneider has utilized borehole geophysical tools, seismometers, gravimeters, magnetometers, conductivity / resistivity meters and other nondestructive testing equipment, and soil vapor extraction units in support of diverse environmental and geotechnical investigations. Some of Mr. Schneider's project experience includes:

- **BKK Landfill, West Covina, California:** Project Geologist involved with the post-closure environmental care of this Class I landfill pursuant to the terms of DTSC. Work involved monitoring portions of the Leachate Treatment Plant (LTP) under the terms of a hazardous waste facility permit. The LTP properly treats and removes hazardous waste elements from the liquids generated in the landfill.
- **Site Investigation, Forward Landfill, Stockton, California:** Project Geologist during multiple site investigations involving the landfill's leachate storage system, and containment and management of leachate fields and buried wastes (municipal solid waste and inert debris).
- **Soil Remediation Program, Campbell Shipyard, Port of San Diego:** Project Geologist providing oversight of the removal, stabilization and disposal of impacted sediments adjacent to the San Diego Convention Center. Impacted sediments located beneath an existing concrete ramp and pier contained free petroleum hydrocarbons which had to be contained and controlled during implementation of removal activities. Removal activities had to be coordinated throughout the project to accommodate tidal fluctuations.
- **Construction Oversight, Aggregate Recycling Systems (ARS) Facility, Huntington Park, California:** Project Geologist oversight for the clean-up and removal of 36,000 cubic yards of processed material (burned, buried, and discarded) and 48,000 cubic yards of unprocessed material (tires, concrete, and steel) stockpiled at the site. Also responsible for remediation of construction debris and trash contained in piles and numerous roll-off trash bins, as well as approximately 150 used truck and automobile tires, located in the southeast corner of the site. Continuous air monitoring and mediations was an integral part of this remediation effort.
- **Site Remediation, Oakhurst Shell, Oakhurst, California:** Project Geologist during installation of groundwater treatment system at site for clean-up of petroleum related compounds including MTBE. This work required field design, repair, and startup of the soil vapor extraction unit in conjunction with the groundwater extraction system. System included dedicated pumps, air stripper unit, and granulated activated carbon units.
- **Site Investigation and Remediation Services, DoD Sites, California:** Staff Geologist for environmental investigations and remediation at Former George Air Force Base (FGAFB) in Victorville, California; and Vandenberg Air Force Base (VAFB) in Lompoc, California for the U.S. Air Force Center for Environmental Excellence (AFCEE). Built and operated three soil extraction vapor (SVE) systems for soil remediation of spilled JP-4 and JP-5. Friction loss calculations were performed. Wrote major technical sections for Design and Analysis Reports and Feasibility Study Reports. Wrote the SVE Operations and Maintenance Manual.
- **Site Investigation, University of California San Diego:** Project Geologist responsible for directing the environmental investigation, sampling efforts, and remediation of impacted soils from petroleum hydrocarbons.

**EDUCATION**

Bachelor of Arts, Biology, 2001, University of San Diego, San Diego, California

**CERTIFICATIONS**

OSHA 40-Hour Health and Safety Training Certification

First Aid/CPR Certification

DOT HM-181/126-F/215B Labeling & Packaging Standards for Hazardous Materials Training

AHERA Building Inspector Certification

Certified Niton XRF Spectrum Analyzer

**PROJECT EXPERIENCE**

As a Project Environmental Scientist for Ninyo & Moore, Ms. Hill conducts data acquisition, documentation, and dissemination of data related to all phases of environmental investigations; coordinates and observes subsurface drilling activities; conducts investigations of subsurface contamination, including mapping, and logging of exploratory borings and trenches; prepares correspondence, permit requests, reports, and other documents; interfaces with regulatory agencies; conducts groundwater monitoring utilizing a variety of methods; conducts lead-in-soil investigations; conducts landfill gas monitoring; and provides project oversight for remediation projects. Ms. Hill's project experience includes:

- **San Diego County Regional Airport Authority, Former Naval Training Center Inactive Landfill, San Diego, California:** As Project Environmental Scientist, provided environmental services associated with the remediation of the former Naval Training Center Inactive Landfill. Ms. Hill's duties included project coordination, permit acquisition, quarterly landfill gas monitoring, semi-annual groundwater monitoring of 26 wells in accordance with CCR Title 27 and the Waste Discharge Requirements, data compilation, and statistical analysis, and preparation of environmental reports. Also, assisted in the preparation of a landfill gas survey work plan, a burn ash management plan to be utilized by contractors working on the site, and a remedial action plan to clean close the site by removing the wastes.
- **San Diego Unified Port District, East Parking Lot and Vicinity Site Assessment and Remediation Oversight:** As Senior Staff Environmental Scientist assisted in the performance of the site assessment to delineate the extent of the former landfill/burn site and MGP waste by performing historical research and subsurface investigations including the installation of borings, trenches, and temporary groundwater monitoring wells. Ms. Hill also assisted in the preparation of the remedial action work plan to remove groundwater source impacts (MGP waste and soil impacts) at the former landfill/burn site in accordance with CAO 95-21, and provided oversight of remedial excavation activities, including field documentation, assistance with sampling, and interface with the lead agency (RWQCB). Also, prepared and released weekly public notification messages related to community health and safety air monitoring at the site and project progress. Provided technical support to the owner (Port District) and the Contractor related to excavation of impacted areas and backfilling of clean areas. Prepared an electronic system to track results of confirmation sample testing, which facilitated the planning and efficient excavation of areas requiring overexcavation.
- **Home Avenue Burn Site, San Diego, California:** As Senior Staff Environmental Scientist provided environmental services associated with the delineation and characterization of a former burn site. Ms. Hill's duties included assisting in performing a site reconnaissance to evaluate the presence of surficial burned material, preparing a work plan to investigate the former burn site, interfacing with the LEA, performing a subsurface investigation that included excavating trenches, collecting and analyzing soil and burned material samples, coordinating archeological and biological monitoring, and conducting a radiological survey.
- **San Diego Unified Port District, Remediation of Former Campbell Shipyard, San Diego, California:** As Project Environmental Scientist, provided environmental services associated with the remediation of the former Campbell Shipyard on San Diego Bay. Ms. Hill's duties included project coordination, performing quarterly groundwater sampling of 17 wells utilizing the low-flow Micro Purge™ system in accordance with CAO 95-21, subsurface exploration and sampling, data compilation, interfacing with the lead agency (RWQCB) and preparation of environmental reports. The RWQCB agreed to closure of 13 of the monitoring wells in March 2004. The remaining wells were left in place to monitoring the remediation of the Spinnaker Hotel Site.

**PROFESSIONAL AFFILIATIONS**

San Diego Environmental Professionals

**EDUCATION**

Master of Science, Geology, 2002, East Carolina University

Bachelor of Science, Geology and Environmental Science, 2000, James Madison University

**CERTIFICATIONS**

Certified Site Surveillance Technician (SST) No. 043579 California DHS

Certified Lead Based Paint Inspector/Assessor No. 13952, California DHS

OSHA 40-Hour Health and Safety Training (with annual updates)

American Red Cross First Aid/CPR Certification

Niton Spectrum Analyzer No. A3110561652

**PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES**

Ms. Hedges has professional experience in the environmental sciences field primarily includes research for Phase I and II Environmental Site Assessments, performing subsurface site investigations (drilling and trenching), asbestos and lead-based paint surveys, preparing Removal Action Workplans (RAWs), soil and groundwater sampling, oversight of remedial excavation, and waste characterization activities. Recent project experience includes:

- **Preliminary Endangerment Assessment, Correia Middle School, San Diego, California:** Project Geologist during the implementation of a Preliminary Endangerment Assessment (PEA). Ms. Hedges' responsibilities included the preparation of a PEA Work Plan, compilation of background history and data from previous investigations, community outreach, and oversight during the implementation of the PEA, drilling and logging borings, identifying, delineating, and characterizing burned wastes, and preparing a PEA Completion Report.
- **Remedial Action Plan, Noah Webster School, San Diego:** Ms. Hedges is currently preparing a Remedial Action Plan that involves covering wastes with a non-RCRA landfill cap.
- **Site Assessment and Removal Action, Proposed Rodriguez Elementary School, San Diego, California:** Ms. Hedges was responsible for providing oversight during implementation of the Remedial Action Workplan (RAW). Specific tasks included oversight of soil excavation, confirmation sampling, soil stockpile characterization, waste transportation and disposal, and performing of air monitoring associated with removing burned wastes with elevated lead and arsenic concentrations. Conducted a soil gas survey, drilling, and exploratory trenching to evaluate the extent of burned wastes not previously identified in the removal action plan prepared by others.
- **Phase I ESAs, Proposed School Sites, San Diego, California:** Ms. Hedges has performed numerous Phase I ESAs for proposed K-12 school sites, and additions to existing schools, in the San Diego area. The Phase Is were conducted as part of the environmental review process in accordance with due diligence inquiry, Title V requirements, and DTSC guidelines.
- **Removal Action, Burbank Elementary School Expansion Site, San Diego, California:** Project Geologist during the implementation of a Removal Action Workplan (RAW). Ninyo & Moore performed the removal of soil that had been impacted with lead from lead-painted structures. Ms. Hedges' responsibilities included sampling, soil stockpile characterization, waste transportation and disposal, and preparation of a Removal Action Completion Checklist, project management and coordination, oversight of soil excavation, confirm Report.
- **Supplemental Site Investigation, Fay Elementary School, San Diego, California:** Project Geologist during the implementation of a Supplemental Site Investigation (SSI). Ms. Hedges' responsibilities included the preparation of an SSI Workplan, project management and coordination, conducting an investigation to assess the concentrations of lead from lead-painted structures and organochlorine pesticides and polychlorinated biphenyls in the vicinity of power poles, and preparation of an SSI Completion Report.

**EDUCATION**

Geographic Information Systems (GIS) 1999, San Diego State University, San Diego, California  
Bachelor of Science in Geography 1998, Humboldt State University, Arcata, California  
Course Work, GIS Database and Design, Humboldt State University, Arcata, California

**CERTIFICATIONS**

ESRI ArcGIS 8.3 GIS with Spatial and 3D Analyst  
ESRI Arc Info 7.2 GIS  
ESRI Arc View 3.2 GIS

**PROJECT EXPERIENCE**

Mr. Matthew Roe, CAD Specialist/GIS Analyst, has extensive experience preparing AutoCAD drawings and Geographical Information Systems (GIS) services for Phase I, II and III environmental site assessments, groundwater modeling, and soil remediation projects. Mr. Roe has developed stand alone GIS applications. Mr. Roe's project experience includes the following:

- **California Integrated Waste Management Board (CIWMB):** GIS Analyst and AutoCAD specialist in support of site investigations for various CIWMB sites statewide. Prepared and designed GIS and AutoCAD site maps for CIWMB plans and reports. Used aerial photograph to rebuild spatial data that was then integrated into existing GIS data structure.
- **San Diego City Schools:** GIS Technician in support of a site investigation and remediation for Franklin HS, Edison Elementary, Rodriguez Elementary, and Ibarra Elementary schools. Prepared and designed GIS and AutoCAD maps for report documentation. Integrated the use of a Global Position System (GPS) unit for data collection and field analysis.
- **Spinnaker Hotel Site, San Diego Unified Port District, San Diego California:** GIS Analyst in support of a site investigation and remediation. Prepared and designed GIS and AutoCAD maps for report documentation. Digitized all utilities from SDUPD as-built AutoCAD drawings. Calculated soil volume estimates. Analyzed data to develop groundwater and soil plumes.
- **East Parking Lot Remediation, Former Campbell Shipyard, San Diego California:** GIS Analyst in support of a soil remediation. Developed GIS Arc View application with 3D flyover, digital photo hotlinks, and trench log viewer. Prepared and designed GIS maps for report documentation using custom data box tool. Provided assistance to land Survey Company with XY coordinates for remediation outline.
- **Groundwater Annual Monitoring Report, Naval Station, San Diego California:** Lead GIS Technician in support of Annual Groundwater Reports. Coordinated with Project Managers, GIS Specialist, and SWDIV personnel, along with providing technical support to Navy Engineers. Gave presentations and updates to clients about GIS Project. Ordered and processed Photogrametric Survey, which was used to rebuild all spatial data and was then integrated into existing GIS data structure. This included designing a new Naval Station AutoCAD basemap to reflect current base conditions. Site inspection of Naval Station to ensure accuracy of utility water and power lines.
- **South Bay Area Focus Team GIS Spatial Database:** Lead GIS Technician for a general overview of GIS projects within San Diego Bay and outlying bases. Developed user-friendly pull-down menus and custom buttons with avenue scripts to provide easy analysis and visualization of contaminants. Rectified Aerial photographs for use in GIS data deliverables.
- **Industrial Waste Pipeline (IWPL) Naval Air Station North Island, San Diego, California:** GIS Technician for IWPL investigation. The objective was to design a custom GIS application and show possible pipeline breaks along IWPL. Digitized all industrial waste pipelines from NASNI as-built drawings. Analyzed data to develop groundwater and soil plumes. Assisted with GIS presentation to Navy.
- **Mole Pier Installation Restoration Program (IRP) Site Evaluation, Naval Station, San Diego, California:** Lead GIS Tech. Navy requested site evaluation for Mole Pier. Designed database, merging data from multiple contractors in multiple formats, for analytical soil data for the past 12 year period. Displayed all data by using a custom avenue lab box data script in Arcview. Assisted with preparation of analytical report as well as assisting project manager in technical review and Quality Assurance/Quality Control of data and figures.
- **Marine Corps Air Station Tustin Redevelopment Project, Tustin, California:** Lead GIS Technician responsible for implementing GIS-mapping techniques to develop a GIS database providing base and Navy personnel direct access to all groundwater and soil data gathered during field investigations. Also actively involved in regulatory interface with California Regional Water Quality Control Boards, Cal/EPA, and USEPA Region 9 to successfully facilitate the transfer of title for base redevelopment and reuse.

**EDUCATION**

Geographic Information Systems (GIS) 1999, University of California, San Diego, California  
Professional Certificate, Hazardous Materials Management, University of California at San Diego

**CERTIFICATIONS**

ESRI ArcView 3.2 GIS, ArcGIS 8.3, ArcGis 9.0  
UCSD Professional Certificate Program, Site Assessment and Remediation  
OSHA 40-hour Health and Safety Training (with annual updates)  
OSHA 24-hour Building Inspector Training (with annual updates)  
OSHA 8-hour Health and Safety Supervisor Training  
OSHA 8-hour Confined Space Entry Training  
Nuclear Safety Training Certification  
Nuclear Gauge Operator Certification  
Ashtect 24-Hour Basic Global Positioning Systems Certification

**PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES**

Mr. Michael Denny, Senior Staff Environmental Scientist, has over five years of experience in Geographical Information Systems (GIS) services for Phase I and II environmental site assessments, groundwater modeling, regulatory compliance reviews, asbestos and lead-paint surveys, hazardous waste characterization, and remedial action evaluations. Mr. Denny is OSHA 40-hour HAZWOPER trained, OSHA 24-hour Building Inspector trained, and OSHA 8-hour HAZWOPER Supervisor trained. Mr. Denny's' project experience includes the following:

- **California Integrated Waste Management Board Closed and or Illegal Waste Dump Sites, Riverford, California:** Senior Staff Environmental Scientist for Geographic Information Systems California Integrated Waste Management Board assessment of Closed and or Illegal Waste Dump Site located near Santa Fe Road in Riverbank, California. The project involved digitizing site features, boundary, and investigative trenching location to assist in evaluation of illegal land disposal operations in Arcview 3.3. Mr. Denny performed a comprehensive check of the trenching locations and site features and provided the data as an electronic file deliverable (EDF) for use by CIWMB staff.
- **Bureau of Land Management Arizona Minerals Assessment and Hazardous Materials Sites Update, Arizona:** Senior Staff Environmental Scientist for Geographic Information Systems update for the Bureau of Land Management, Arizona Minerals Assessment and Hazardous Materials Site Update, Arizona. The project involved digitizing mineral assets and hazardous materials sites in Arcview 3.3 GIS compatible with the Arizona Bureau of Land Management Geographical Information Services System. Mr. Denny performed a comprehensive check of the mineral deposits, hazardous materials data and provided the data as an electronic file deliverable (EDF).
- **City of Anaheim Geologic Hazard Plan Update, Anaheim, California:** Senior Staff Environmental Scientist for Geographic Information Systems update for the City of Anaheim Geologic Hazard Plan Update in Anaheim, California. The project involved digitizing geologic hazards in Arcview 3.3 GIS compatible with the City of Corona Geographical Information Services System. Mr. Denny performed a comprehensive check of the geologic data and provided the data as an electronic file deliverable (EDF).
- **City of Corona Geologic Hazard Plan Update, Corona, California:** Senior Staff Environmental Scientist for Geographic Information Systems update for the City of Corona Geologic Hazard Plan Update in Corona, California. The project involved digitizing geologic hazards in Arcview 3.3 GIS compatible with the City of Corona Geographical Information Services System. Mr. Denny performed a comprehensive check of the geologic data and provided the data as an electronic file deliverable (EDF).
- **City of Chula Vista Geologic Hazard and Hazardous Materials Sites Plan Update, Chula Vista, California:** Senior Staff Environmental Scientist for Geographic Information Systems update for the City of Chula Vista Geologic Hazard and Hazardous Materials Plan Update in Chula Vista, California. The project involved digitizing geologic hazards and hazardous materials sites in Arcview 3.3 GIS compatible with the City of Chula Geographical Information Services System. Mr. Denny performed a comprehensive check of the geologic and environmental data and provided the data as an electronic file deliverable (EDF).

**R. LEONARD ALLEN, RCE, PE, GE, QU, REA**  
*Principal Engineer*

**EDUCATION**

Master of Science, Geotechnical Engineering, 1967, University of California, Berkeley, California  
Bachelor of Science, Civil Engineering, 1963, University of California, Los Angeles, California

**REGISTRATIONS**

Registered Civil Engineer, California, RCE 18554                      Quality Engineer, California, QU2941  
Registered Geotechnical Engineer, California, GE 91              Environmental Assessor, California, REA 569

**CERTIFICATIONS**

California State Junior College System, Certified Instructor

**PROJECT EXPERIENCE**

As Principal Engineer, Mr. R. Leonard Allen is responsible for directing surface and subsurface hazardous materials assessments, soil and groundwater investigations, environmental engineering, site remediation, and permitting. Mr. Allen is a Registered Civil Engineer, Geotechnical Engineer, Environmental Assessor, and Quality Engineer. He has performed engineering design projects, geotechnical, and environmental investigations on 46 Class II and Class III landfills throughout California. Some of Mr. Allen's project experienced at inactive and abandoned landfills includes:

- **City of Lynwood, California:** Principal-in-Charge of a Phase I and Phase II environmental site assessments of a 2-acre lot in the City of Lynwood under the EPA's Brownfield program. The property is adjacent to a former landfill and two leaking underground storage tank sites with free product present on the groundwater table. The scope of work included trenching to evaluate the presence of landfill material, a soil-gas survey to evaluate the presence of landfill gases, and groundwater sampling to evaluate the presence of dissolved hydrocarbons. At the completion of the project, the City of Lynwood was able to successfully redevelop the property.
- **Naval Training Center (NTC) Inactive Burnsite, Site Investigations and Remedial Action, San Diego, California:** Provided technical assistance, QA/QC review, and support on an as-needed basis for study of potential off-site impacts with regard to land swap between the Marine Corps Recruiting Depot and the San Diego Regional Airport Authority. Duties included review of historical documents at NTC, developing Data Quality Objectives for the study, and reviewing data and reports.
- **Jalama Ranch, 8101 Jalama Road, Santa Barbara County:** Project Manager for the assessment and removal of buried wastes in approximately three separate ravine areas on a ranch. Project activities included preparing a clean closure plan, directing the removal actions, off site disposal of buried wastes, documentation of waste removal activities and managing the off site disposal of excavated wastes. Obtained clean closure status for the site by regulatory agencies.
- **Cojo Ranch, Santa Barbara County:** Project Manager for the assessment and removal of buried wastes at approximately 20 separate areas on a ranch. Project activities included preparing a clean closure plan, directing the removal actions, off site disposal of buried wastes, documentation of waste removal activities and managing the off site disposal of excavated wastes.
- **Cerro Villa Park Master Plan, Orange, California:** Principal-in-Charge of a study to provide input to a master plan for a 26.6-acre site that encompasses former Cerro Villa Heights Refuse Disposal Station. This disposal station operated as a burn pit site from October 1947 to December 1957. Burning was conducted regularly until 1956. Burned materials and inert construction debris is present on about 4.1 acres of the site, including a former gully, two burn trenches, and on the eastern side slope of the site where ash was pushed over the slope. The study included excavating exploratory trenches across the site to assess the nature and extent of the burned materials.

**R. LEONARD ALLEN, RCE, PE, GE, QU, REA**  
*Principal Engineer*  
*(Continued)*

- **Frank R. Bowerman Landfill, Orange County, California:** Managed the designs of the Phase V-A and Phase V-B/C expansions at Frank R. Bowerman. Phase V-A had 1.2 million cubic yards of earthwork to prepare the foundation and 4.1 million square feet of geosynthetic materials. Phase V-B/V-C had 1.3 million cubic yards of earthwork to prepare the foundation and 4.9 million square feet of geosynthetic materials.
- **Santa Maria Landfill, Santa Maria, California:** Project Manager for the assessment of type and extent of groundwater contamination beneath and adjacent to a municipal waste landfill located on the bank of the Santa Maria River. Early portions of the landfill were used as burn dumps. Landfill gas had impacted the groundwater beneath the site. This assessment included an active landfill as well as an inactive portion.
- **Toyon Landfill, Griffith Park, Los Angeles, California:** Directed closure design studies for Toyon Landfill in Griffith Park, including static and earthquake stability analysis. Designed a geosynthetic clay liner as a cover on a 400-foot high slope at a slope ratio of 2:1. Reviewed hydrogeological conditions at the site and designed a drainage layer into the cover to control hydrostatic pressures from building up under the cover. Provided quality control testing for closure.
- **Gothard Street Landfill, Huntington Beach, California:** Managed a landfill gas mitigation project at the inactive Gothard Street Landfill.
- **Coyote Canyon Landfill, Orange County, California:** Managed the leachate collection and recovery system evaluation, upgrade, and construction at the closed Coyote Canyon Landfill for Orange County Integrated Waste Management Department. Project included field pumping tests and groundwater and contaminant flow computer modeling, as well as construction inspection. Also managed subsidence repair including assessment and repair of damage to multi-layer landfill cover with geosynthetic clay liner.
- **Landfill Closure Plans, Southern California:** Project Manager for review of conceptual closure plans and the development of closure and post-closure cost estimates for 32 municipal landfills in southern California; the development of closure and post-closure cost estimates for five municipal landfills in San Diego County; and the preparation of detailed closure plans for three municipal landfills in San Bernardino County, California. Also managed State-mandated Five-Year Periodic Site Reviews and Reports of Disposal Site Investigations for 17 municipal landfills in San Bernardino County, California, including active and inactive sites.
- **Panoche Central Area Landfill, Solano County, California:** Assessed the stability of the 10-acre Class I RCRA Panoche Central Area Landfill and reviewed master development plans and designs, including stability analyses of cut and fill slopes, of 200,000-, 500,000-, and 750,000-cubic yard Class I RCRA landfills.
- **Canyon 5 at the Puente Hills Landfill, Los Angeles County, California:** Managed the geotechnical and hydrogeological investigations for Canyon 5 at the Puente Hills Landfill (1995). This involved slope stability assessment of natural, cut, and fill slopes, design of sedimentation pond and dike for surface water protection, and development of geotechnical design criteria for groundwater cutoff wall for groundwater protection.
- **Private Landfills, Los Angeles, California:** Managed site assessments of two abandoned, unpermitted landfills alleged to have contained hazardous materials in addition to green waste and office trash. Advised owner on proper permitting procedures.
- **Montezuma Landfill, Solano County, California:** Project Manager for slurry trench design and construction management associated with containment of leachate plume beneath a Class II hazardous waste site.

**R. LEONARD ALLEN, RCE, PE, GE, QU, REA**  
*Principal Engineer*  
*(Continued)*

- **Montezuma Landfill, Solano County, California:** Technical Reviewer for the closure design of a Class II hazardous waste site.
- **Vine Hill/Baker Disposal Site, Contra Costa County, California:** Technical Reviewer for settlement studies of waste areas located over bay mud sediments. Pipelines sensitive to differential settlements crossed the site.
- **Newport Beach Landfill, Newport Beach, California:** Project Manager for study to evaluate the extent of this abandoned landfill. Developed geotechnical parameters to use for condominium development around the landfill, and a methane monitoring system to evaluate potential methane migration.
- **San Bernardino County Landfills:** Managed preparation of combined Periodic Site Reviews and Reports of Disposal Site Information for 19 landfills
- **Big Bear, Yucaipa, Needles Landfills:** Directed final design of multi-layer cover incorporating geomembrane liners and drainage layers at these inactive landfills.
- **Spadra, Calabasas, and Palos Verdes Landfills, and the Blind and Rustic/Sullivan Canyons sites, Los Angeles County, California:** Responsible for geotechnical studies at Spadra, Calabasas, Puente Hills, and Palos Verdes Landfills and at the Blind and Rustic/Sullivan Canyons sites for the County Sanitation Districts of Los Angeles County. Investigated subsurface hydrogeologic conditions at the Spadra and Calabasas Landfills for leachate barrier studies. Prepared a report on the permeability studies of the clay blanket at the Palos Verdes Landfill that was incorporated into the closure report. Reviewed the geotechnical aspects of siting studies for proposed municipal solid waste landfills at the Blind and Rustic/Sullivan Canyon sites. This involved assessing the permeability of bedrock and the stability of side slopes for the landfills and access roads.

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers (past treasurer of Orange County Branch of Los Angeles Section; served on Committee for Continuing Professional Development)  
California Geotechnical Engineers Association (Past President)  
Consulting Engineers and Land Surveyors of California (past chairman of Hazardous Waste Management Academy)  
Institute for Advancement of Engineering (Past President of the College of Fellows)  
American Society for Quality  
ASTM International  
Geo-Institute  
Solid Waste Management Forum (Conference Committee member for 1999, 2000, 2001, 2003, and 2004)

**RANDY IRWIN, PG, CEG**  
*Chief Engineering Geologist*

**EDUCATION**

Master of Science, Geological Sciences, 1986, San Diego State University, San Diego, California  
Bachelor of Science, Geology, 1980, Sonoma State University, Rohnert Park, California

**REGISTRATIONS**

Professional Geologist, California, PG 4582  
Cert. Engineering Geologist, California, CEG 1521  
Co. of San Diego Environmental Consultant Certification

Registered Engineering Geologist, Oregon, EG 1429  
Registered Geologist, Arizona, RG 33171

**PROJECT EXPERIENCE**

Mr. Irwin has over 22 years as a professional geologist includes providing services for a broad range of projects, including geologic reconnaissance and mapping, exploratory boring and trench logging, landslide investigation, coastal bluff evaluation, and in-grading inspection. His experience also includes performing and analyzing seismic refraction traverses, aerial photograph interpretation, installing and monitoring slope indicators, and investigating potentially compressible surficial deposits. As Chief Engineering Geologist for Ninyo & Moore, Mr. Irwin has provided these services for such projects as sewer and water pipelines, schools, water and wastewater treatment plants, reservoirs, dams, tunnels, reclaimed water distribution systems, highways, bridges and other public works. Mr. Irwin's responsibilities include coordinating and supervising geotechnical field investigation and research projects, directing technical staff, performing data analyses, and preparing and reviewing geotechnical reports. Mr. Irwin's specific project experience includes:

- **Boron Landfill, Boron, California:** Geologist for the geotechnical evaluation for the currently operating Boron Sanitary Landfill. Project work involved a field investigation including drilling and sampling soil borings, and subsequent geotechnical testing of subsurface materials to evaluate on-site soil for potential use as final landfill cover. Provided technical oversight of the project staff operations and technical review of all deliverables for the project.
- **Cajon Landfill, San Bernardino, California:** Project Manager/Geologist for an evaluation to formulate geotechnical design parameters for the construction of embankment protection to abate flood and erosion hazards to the Cajon Landfill. The work was performed pursuant to a mandate of the California Regional Water Quality Control Board that ordered that mitigative measures be designed and implemented. Reviewed and approved the proposed evaluation plan, provided senior review of background information and stereoscopic aerial photographs, served as technical advisor throughout the course of the project, and reviewed all deliverables for the project including the geotechnical design report.
- **Milliken Landfill, San Bernardino County, California:** Project Geologist during geotechnical engineering services for the proposed partial closure of the Milliken Landfill. Reviewed and approved the proposed evaluation plan, evaluated background information, reviewed stereoscopic aerial photographs, acted as technical advisor throughout the course of the project, and reviewed all deliverables for the project including the geotechnical design report.
- **South Miramar Landfill, San Diego, California:** Project Geologist responsible for evaluating geologic and hydrogeologic aspects of the landfill as part of support of an EIR/EIS and groundwater evaluation study. Provided technical oversight of the project's staff operations.
- **South Chollas Landfill, San Diego, California:** Project Geologist for a geotechnical engineering evaluation for the South Chollas Landfill. Reviewed and approved the proposed evaluation plan, evaluated background information, reviewed stereoscopic aerial photographs, acted as technical advisor throughout the course of the project, and reviewed all deliverables for the project including the geotechnical design report.

- **San Marcos Landfill, San Diego County, California:** Project Manager/Geologist for a geotechnical evaluation for the expansion of the San Marcos Landfill. Provided technical oversight of the project's staff operations. Provided technical oversight associated with drilling, sampling, and geotechnical/materials testing. Provided technical review of all deliverables for the project.
- **MTDB Mission Valley East Transit Improvement Project, San Diego and La Mesa, California:** Project Manager/Project Geologist directing geologic mapping operations, analyzing stereoscopic aerial photographs, evaluating geotechnical conditions relative to the feasibility of a tunnel below San Diego State University, and serving as primary author of the final geotechnical report.
- **As-Needed Geotechnical Services, Various Locations, San Diego County, California:** Project Geologist during as-needed soils engineering services for the City of San Diego Water Utilities Department for major pipelines, pumping stations, and other projects throughout the San Diego area. Services provided for this contract included review of aerial photographs and other pertinent background information, subsurface explorations including the drilling and sampling of borings, laboratory testing, geotechnical data analysis, and preparation of written reports.
- **Qualcomm Stadium, San Diego, California:** Project Geologist providing geotechnical services for the enlargement and reconditioning of Qualcomm Stadium. The project included new foundations for additional seating areas, redesigned foundations for existing seating areas, foundations for new lounge areas, escalators, and walkways. Foundations included drilled piers up to 6 feet in diameter and over 70 feet deep. Analysis was performed for seismic hazards, liquefaction, dynamic settlement, and design of large diameter, heavily loaded, drilled piers. Mr. Irwin also served as Project Manager during the construction phase of this project.
- **Valley Center Dam, San Diego County, California:** Project Manager and Project Geologist for the proposed Valley Center Reclaimed Water Storage Facility. Duties for this project included review of background information; coordination of, and participation in, the subsurface exploration; meeting with engineers and a geologist from the Division of Safety of Dams; assistance to the project engineer in quantity calculations, cost estimates, and the preparation of construction specifications; formulation of seismic design parameters; analysis of stereoscopic aerial photographs; geologic mapping; and primary author of a design memorandum and geotechnical design reports.
- **Blythe Energy Project, Blythe, California:** Principal-in-Charge during geotechnical engineering services relative to the design and construction of the Blythe Power Plant. Services included excavation, sampling, and logging of exploratory borings; performance of laboratory testing to evaluate soil strength and index characteristics; analysis of engineering data; and preparation of a detailed written report, which presented our findings and geotechnical design recommendations. Geotechnical engineering recommendations included design considerations and parameters for the foundations of combustion turbine-generators, heat recovery steam generators with stacks, steam turbine-generators, cooling towers, support buildings, ancillary equipment, and parking areas.

**PROFESSIONAL AFFILIATIONS**

San Diego Association of Geologists  
Association of Engineering Geologists

**MILITARY SERVICE**

Honorably Discharged Vietnam-Era Veteran

**ERIK OLSEN, PE, GE**  
*Chief Geotechnical Engineer*

**EDUCATION**

Master of Science, Civil Engineering, 1989, San Diego State University, San Diego, California  
Bachelor of Science, Civil Engineering, 1983, California State Polytechnic University, Pomona, California

**REGISTRATIONS AND CERTIFICATIONS**

Civil Engineer, California, RCE 42727  
Geotechnical Engineer, California, GE 2218; Exp. Date: 3/31/06  
Professional Civil Engineer, Nevada, PE 14610  
Professional Engineer, New Mexico, PE 14448  
Professional Engineer, Wyoming, PE 9071  
Professional Engineer, Arizona, PE 35798  
Special Inspector, Pile Foundations, City of San Diego, No. 917  
40-hour Value Engineering Workshop, 1993, Certification No. 820201

**PROJECT EXPERIENCE**

Mr. Olsen's 23 years of professional experience includes performing geotechnical investigations for municipal, commercial, industrial, and military projects. His project experience includes bridges, roadways, wastewater treatment facilities, pipelines, rail systems, and other public and private works.

As Chief Geotechnical Engineer, Mr. Olsen's responsibilities at Ninyo & Moore include overseeing and managing geotechnical engineering projects, performing third-party reviews, participating in value engineering studies, and preparing and reviewing geotechnical reports and specifications. Mr. Olsen's specific project experience includes:

- **Campo Landfill, Campo, California:** Project engineer during the geotechnical evaluation and design of the proposed Campo Band of Mission Indians landfill near Campo, California. The project included geotechnical exploration of the landfill and laboratory testing of recovered samples as well as well testing and hydrologic modeling of groundwater flow. The landfill liner system was designed using multiple layers of High Density Polyethylene (HDPE) membrane including leachate collection, leak detection and gas collection layers in accordance with Campo Environmental Protection Agency (CEPA) requirements. Liner design included evaluation of anchorage and slope stability, and analysis of potential seismic deformations.
- **Texas Low-Level Radioactive Waste Disposal Facility, Sierra Blanca, Texas:** Project engineer for the geotechnical site characterization of the site of the proposed Texas Low-Level Radioactive Waste Disposal Facility, near Sierra Blanca, Texas. The study was performed to satisfy requirements of the Site Characterization Handbook for Low-Level Radioactive Waste Disposal Facilities (U.S. Department of Energy). The evaluation included subsurface exploration at the site, laboratory testing and preparation of a report providing an assessment of the vertical and lateral extent of soil units and conclusions regarding the potential for future destructive geomorphic processes.
- **NTC Landfill at the Naval Training Center in San Diego, California:** Project engineer for a geotechnical evaluation during the characterization and remediation of the NTC Inactive Landfill at the Naval Training Center in San Diego, California. The project included geotechnical exploration of the landfill and laboratory testing of recovered samples. This geotechnical evaluation consisted of rotary borings and cone penetrometer test (CPT) soundings located across the subject site. The purpose of this subsurface exploration was to evaluate the consolidation state of the natural materials underlying various fill and landfill at the site. This information was used to evaluate settlements that may affect the design of future improvements at the site.
- **Former 8th Avenue Tidelands Dump-East Parking Lot, San Diego, California:** Project engineer for a geotechnical evaluation during the characterization and remediation of the East Parking Lot in San Diego, California. The project included geotechnical exploration of the landfill and laboratory testing of recovered samples. This geotechnical evaluation consisted of rotary borings and cone penetrometer test (CPT) soundings located across the subject site. Recommendations were provided for remedial earthwork and grading, and for pile foundations for the new convention center parking lot.

**ERIK OLSEN, PE, GE**  
*Chief Geotechnical Engineer*  
*(Continued)*

- **Saipan Landfill, Northern Mariana Islands:** Project engineer during the geotechnical evaluation and design of the proposed sanitary landfill on the island of Saipan in the Northern Mariana Islands. The project included geotechnical exploration of the landfill and laboratory testing of recovered samples as well as percolation testing and hydrologic modeling of groundwater flow. The landfill liner system was designed using multiple layers of High Density Polyethylene (HDPE) membrane including leachate collection, leak detection and gas collection layers. Liner design included evaluation of anchorage and slope stability, and analysis of potential seismic deformations.
- **Celite Diatomite Mine, Lompoc, California:** Project engineer during environmental and geotechnical analyses to augment the reclamation plan for the Celite diatomite mine to meet the requirements of the Surface Mining and Reclamation Act (SMARA) of 1975. The analyses included evaluation of the stability and anticipated seismic deformations of cut slopes and waste pile fill slopes, evaluation of hydrologic effects of the proposed reclaimed mine configuration, including conceptual design of a proposed lake spillway and outlet works.

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers  
International Conference of Building Officials  
Chi Epsilon, National Civil Engineering Honor Society  
Tau Beta Pi, National Engineering Honor Society

**H. ACKNOWLEDGMENT/AUTHORIZATION FORM**

The undersigned acknowledges that submittal of this Statement of Qualifications constitutes an irrevocable offer for a 90-day period for the Board to award the Contract.

The undersigned acknowledges that he has read all of the requirements set forth in the Request for Qualifications, including the requirements listed in Section II, Commitment and that, if awarded the Contract, shall comply with said provisions.

The undersigned hereby authorizes and requests any person, firm, agency, or corporation to furnish any information requested by the Board in verification of the recitals comprising this Statement of Qualifications and also hereby authorizes the Board to contact such persons, firms, etc., in order to obtain information regarding the undersigned.

I certify under penalty of perjury that the foregoing is true and correct. This certification is made under the laws of the State of California.

<u>Stephan Beck</u>	<u>Ninyo &amp; Moore</u>
<u>Print Name of Authorized Representative</u>	<u>Name of Organization</u>
	<u>5710 Ruffin Road, San Diego, CA</u>
<u>Signature of Authorized Representative</u>	<u>92123</u>
<u>Principal Environmental Geologist</u>	<u>Location Where Signed</u>
<u>Title of Authorized Representative</u>	<u>2/22/06</u>
<u>858/576-1000</u>	<u>Date Signed</u>
<u>Telephone Number</u>	<u> </u>

Acknowledgment of Addenda:

Addendum No.

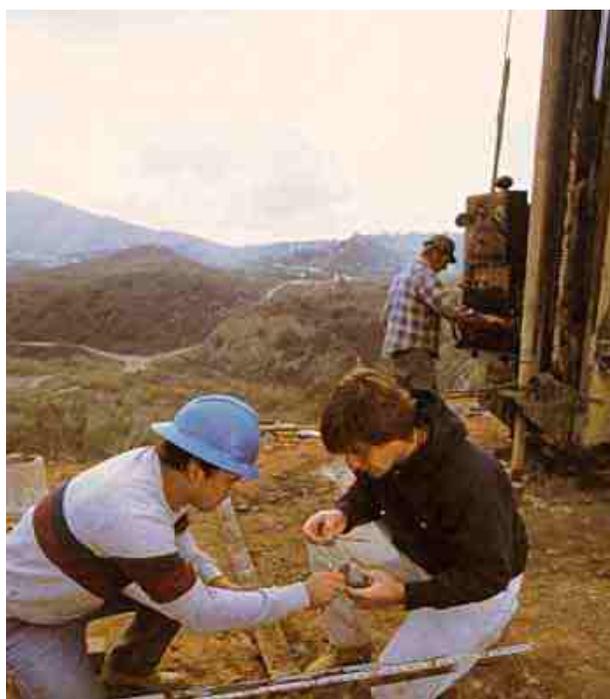
Addendum No. 1

\_\_\_\_\_

Signature



\_\_\_\_\_



# Licenses and Certifications

POST IN CONSPICUOUS PLACE OR KEEP ON PERSON

# CITY OF SAN DIEGO \* CERTIFICATE OF PAYMENT OF BUSINESS TAX

Certificate Number: B1986010793  
Business Name: NINYO & MOORE  
Business Owner: NINYO & MOORE  
Business Address: 5710 RUFFIN RD  
SAN DIEGO CA 92123-1013

NINYO & MOORE  
5710 RUFFIN RD  
SAN DIEGO, CA 92123-1013

Business Type: ARCHITECTURAL, ENGINEERING & RELATED SERVICE  
Effective Date: 08/01/2005  
Expiration Date: 07/31/2006

PLEASE NOTIFY THE CITY TREASURER'S OFFICE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS - BUSINESS TAX DIVISION, PO BOX 122289, SAN DIEGO, CA 92112

## BUSINESS FILE COPY

CITY OF SAN DIEGO  
CERTIFICATE OF PAYMENT OF BUSINESS TAX  
PO BOX 122289, SAN DIEGO, CA 92112-2289  
1200 3RD AVENUE, MS 51T, SAN DIEGO, CA 92101  
(619) 615-1500; FAX (619) 533-3272  
[www.sandiego.gov/treasurer](http://www.sandiego.gov/treasurer)

Certificate Number: B1986010793  
Business Name: NINYO & MOORE  
Business Owner: NINYO & MOORE  
Business Address: 5710 RUFFIN RD  
SAN DIEGO CA 92123-1013

Business Type: ARCHITECTURAL, ENGINEERING & RELATED SERVICE  
Effective Date: 08/01/2005  
Expiration Date: 07/31/2006

\*\*\*\*\*AUTO\*\*3-DIGIT 921 4-1073  
NINYO & MOORE  
5710 RUFFIN RD  
SAN DIEGO, CA 92123-1013

Mailing Address: NINYO & MOORE  
5710 RUFFIN RD  
SAN DIEGO CA 92123-1013



This certificate acknowledges payment of business taxes pursuant to the San Diego Municipal Code. This **is not** a License to do business within the City of San Diego in violation of any section of the Municipal Code or regulation adopted by the City Council including, but not limited to: Zoning restrictions; Land Use specifications as defined in Planned Districts, Redevelopment areas, Historical Districts, or Revitalization areas; Business Tax Regulations; Police Department Regulations; and Fire, Health or Sanitation Permits and Regulations.

This document is issued without verification that the payer is subject to or exempt from licensing by the State of California.

Payment of the required tax at the time or times due is for the term and purpose stated and is pursuant to City Ordinance. Please refer to delinquency information under "Notice".

**NOTICE:** It is the responsibility of the certificate holder to renew this certificate of payment of business tax within the proper time limits. Failure to do so, even if you have not received a renewal notice, will result in the assessment of a penalty. Please note your expiration date on this certificate above. The certificate holder is requested to notify the City Treasurer's Office upon sale or closure of the business, change of location, or change of business activity.

The tax or fees collected are **Not Refundable** unless collected as a direct result of an error by the City of San Diego.

**This certificate is NOT transferable for a change in business ownership.**

## CITY OF IRVINE BUSINESS LICENSE

The person, firm or corporation named below is granted this license pursuant to the provisions of the City Code of Ordinances to engage in, carry on or transact the business, trade, calling, profession, exhibition or occupation described below for the period indicated. **It is the responsibility of the applicant/licensee to ensure that his/her business complies with all applicable City codes and the City zoning ordinance. In the event it is determined that the business does not comply, the business license may be revoked by the City.** This license is nontransferable. Please note that it is your responsibility to renew and update this license annually.

Name:	NINYO & MOORE	Expiration Date:	10/31/06
Address:	475 GODDARD 200 IRVINE CA 92618	License Number:	00027342
NAICS: Description:	MANAGEMENT CONSULTING SERVICES	Issue Date:	11/28/2005
Classification:	CONSULTING	No. Personnel:	50
Owner/Rep:	NINYO AVRAM - PRESIDENT		

One Civic Center Plaza • P.O. Box 19575 • Irvine, CA 92623-9575 • (949) 724-6310

POST IN A  
CONSPICUOUS  
PLACE

# BUSINESS TAX CERTIFICATE

CITY OF OAKLAND

The issuing of a Business Tax Certificate is for revenue purposes only. It does not relieve the taxpayer from the responsibility of complying with the requirements of any other department of the City of Oakland and/or any other ordinance, law or regulation of the State of California, or any other governmental agency. The Business Tax Certificate expires on December 31st each year. Per Section 5.04.190A, of the O.M.C., you are allowed a renewal grace period until March 1st of the following year.



EXPIRES

PLEASE READ REVERSE SIDE

EXPIRES: DECEMBER 31, 2005

ACCOUNT NUMBER

1655116

BUSINESS NAME

NINYO & MOORE

ADDRESS

1956 WEBSTER ST

400

OAKLAND

CA 94612 - 0000

BUSINESS CLASSIFICATION

MANAGEMENT, CONSULTING & PUBLIC RELATIONS

THIS CERTIFICATE MUST BE POSTED AT PLACE OF BUSINESS

# CITY OF LOS ANGELES TAX REGISTRATION CERTIFICATE

THIS CERTIFICATE IS GOOD UNTIL SUSPENDED OR CANCELLED

## BUSINESS TAX

ISSUED: 04-12-03 0

ACCOUNT NO.	FUND	CLASS	DESCRIPTION	STARTED
758340-16	L	190	PROFS/OCCUPATIONS	01-01-91

012000000

NINYO/MOORE GEOTECHNICAL CONSULTANTS INC  
NINYO/MOORE  
475 GODDARD #200  
IRVINE CA 92618-4622



ISSUED BY:

*Antoinette D. Christaugh*

DIRECTOR OF FINANCE

NOTIFY THE OFFICE OF FINANCE IN WRITING OF ANY CHANGE IN OWNERSHIP OR ADDRESS — 201 N. MAIN ST, RM 101, LOS ANGELES CA. 90012  
FORM 2000 (rev. 6/01) IMPORTANT - READ REVERSE SIDE



STATE OF CALIFORNIA

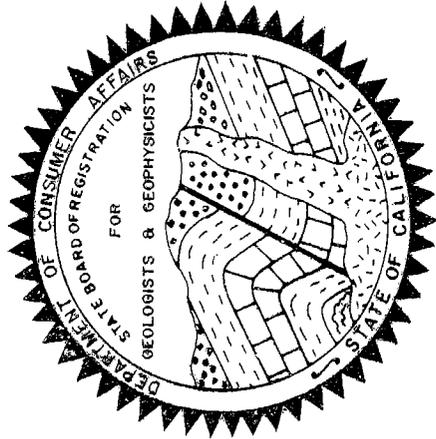


# State Board of Registration for Geologists and Geophysicists

**CERTIFICATE**  
IT IS HEREBY CERTIFIED THAT

**BETH ABRAMSON - BECK**

IS A DULY  
**REGISTERED GEOLOGIST**  
Certificate No. 4580



STATE BOARD OF REGISTRATION FOR  
GEOLOGISTS AND GEOPHYSICISTS

By Howard A. Bellum, Jr. President  
John Wolf Executive Officer

This 2nd day of March 19 89

# STATE OF ARIZONA

## STATE BOARD OF TECHNICAL REGISTRATION

FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS,  
LANDSCAPE ARCHITECTS AND LAND SURVEYORS

### BETH S ABRAMSON-BECK

HAVING EXHIBITED TO THE ARIZONA STATE BOARD OF  
TECHNICAL REGISTRATION SATISFACTORY EVIDENCE OF GOOD  
MORAL CHARACTER AND OF QUALIFICATIONS AND PROFICIENCY,  
IS HEREBY AUTHORIZED TO PRACTICE PROFESSIONALLY IN THE  
STATE OF ARIZONA AND USE THE TITLE OF

### REGISTERED GEOLOGIST

IN WITNESS THEREOF, THE BOARD  
GRANTS REGISTRATION AND ISSUES  
CERTIFICATE NUMBER 33821 SUBJECT  
TO RENEWAL, AND AFFIXES THE SEAL  
OF THIS BOARD AT PHOENIX, ARIZONA  
THIS 4TH DAY OF JUNE, 1999.

*Joseph M. Tuttle*  
BOARD CHAIR 8-31-99

*JOSEPH GARDNER*  
BOARD SECRETARY 9-3-99





STATE OF CALIFORNIA



# The Board of Registration for Geologists and Geophysicists

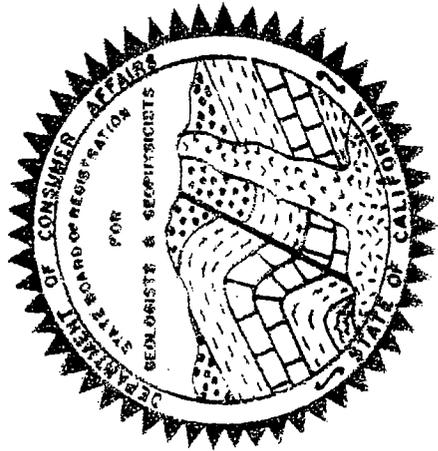
THIS CERTIFICATE TESTIFIES THAT

STEPHAN A. BECK

IS A CERTIFIED

**ENGINEERING GEOLOGIST**

Certificate No. EG 1512



STATE BOARD OF REGISTRATION FOR  
GEOLOGISTS AND GEOPHYSICISTS

By James R. Williams President  
John White Executive Officer

This 21st day of March 19 90



STATE OF CALIFORNIA

State Board of Registration  
for Geologists and Geophysicists

CERTIFICATE  
IT IS HEREBY CERTIFIED THAT

STEPHAN ARTHUR BECK

IS A DULY  
CERTIFIED HYDROGEOLOGIST

Certificate No. HG 126

STATE BOARD OF REGISTRATION FOR  
GEOLOGISTS AND GEOPHYSICISTS

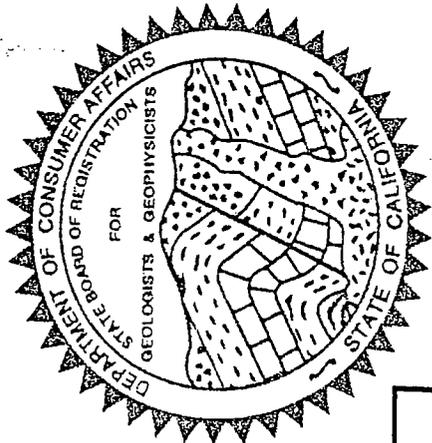
By *Robert Lindblom*

President

*Dalton Pollard*

Executive Officer

This 14th day of July, 1995



# State of Wyoming

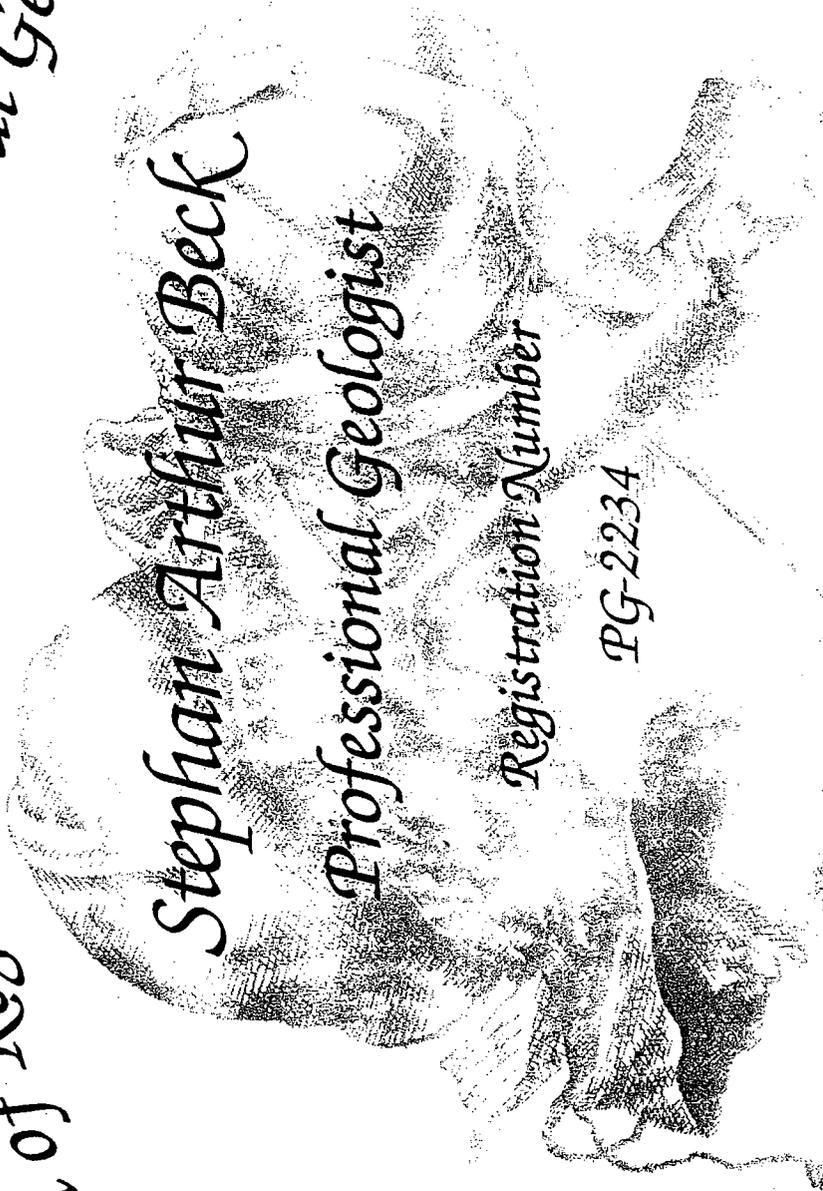
## Board of Registration for Professional Geologists

*Stephan Arthur Beck*

*Professional Geologist*

*Registration Number*

*PG-2234*



The Wyoming Board of Registration for Professional Geologists hereby certifies that the above named geologist has been licensed as a professional geologist in the State of Wyoming this 30th day of November, 1992.

*W. Roger Miller*  
Chairperson



State of California  
California Environmental Protection Agency  
Office of Environmental Health Hazard Assessment

*Stephan A. Beck*

has fulfilled the requirements for registration as a  
**Registered Environmental Assessor I (REA I).**

Date Registered: *July 1990*

*Joan E. Denton, Ph.D.*

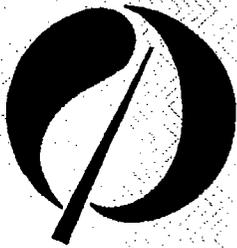
Joan E. Denton, Ph.D.  
Director  
Office of Environmental Health Hazard Assessment

REA - Class I Number: *02181*

*Peter M. Rooney*

Peter M. Rooney  
Secretary for Environmental Protection  
California Environmental Protection Agency





State of California  
California Environmental Protection Agency  
Office of Environmental Health Hazard Assessment



**Stephan A. Beck**

has fulfilled the requirements for registration as a  
Registered Environmental Assessor II (REA II)

Date Registered: May 15, 2000

Registration Number: REA-II-20110

*Joan E. Denton, Ph.D.*

Joan E. Denton, Ph.D.  
Director

Office of Environmental Health Hazard Assessment

# STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS



This Is To Certify That Pursuant  
To The Provisions of Chapter 7, Division 3 of The Business and Professions Code

## Sreekumar Gopinath

IS DULY REGISTERED AS A  
PROFESSIONAL ENGINEER

IN

### CIVIL ENGINEERING

In The State of California, and Is Entitled To All The Rights and  
Privileges Conferred In Said Code



WITNESS OUR HAND AND SEAL

Certificate No C 57987

This 20th day of February, 1998, at Sacramento, California.

STATE BOARD OF REGISTRATION  
FOR PROFESSIONAL ENGINEERS  
AND LAND SURVEYORS

*Cinde Christenson*

Executive Officer

*[Signature]*  
President



Board for Professional Engineers  
& Land Surveyors  
2535 CAPITOL OAKS DRIVE, SUITE 300  
SACRAMENTO, CA 95833-2926  
916 263-2222



**CIVIL ENGINEER**

EXPIRATION  
**03/31/07**

CERTIFICATE NO.  
**C 29367**

**JOEL RAND KUSHINS  
3528 ROBINSON DR  
OAKLAND CA 94602**

Signature

PPRC 07/31/73

RECEIPT NO.  
**04200038**

**STATE BOARD OF REGISTRATION  
FOR PROFESSIONAL ENGINEERS**

THE STATE OF CALIFORNIA  
DEPARTMENT OF CONSUMER AFFAIRS

**JOEL RAND KUSHINS**  
IS ONLY REGISTERED AS A  
**PROFESSIONAL ENGINEER**  
CIVIL ENGINEERING

IN THE STATE OF CALIFORNIA, AND IS ENTITLED TO ALL THE RIGHTS AND  
PRIVILEGES CONFERRED BY LAWS OF THE STATE.

WITHIN OUR MARK AND SEAL  
CERTIFICATE NO. 29367  
ISSUED JULY 14, 1978

*Don H. Meyer*  
STATE BOARD OF REGISTRATION  
FOR PROFESSIONAL ENGINEERS

THIS IS TO CERTIFY THAT JOEL RAND KUSHINS  
IS REGISTERED AS A PROFESSIONAL ENGINEER  
CIVIL ENGINEERING  
IN THE STATE OF CALIFORNIA, AND IS ENTITLED TO ALL THE RIGHTS AND  
PRIVILEGES CONFERRED BY LAWS OF THE STATE.

THE STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS IS A DIVISION OF THE DEPARTMENT OF CONSUMER AFFAIRS, STATE OF CALIFORNIA. THE BOARD IS COMPOSED OF SEVEN MEMBERS, ONE OF WHOM IS CHIEF OF BUREAU AND PRESIDENT OF THE BOARD. THE BOARD IS COMPOSED OF SEVEN MEMBERS, ONE OF WHOM IS CHIEF OF BUREAU AND PRESIDENT OF THE BOARD.



American Board of Industrial Hygiene  
6015 W. St. Joseph, Ste. 102  
Lansing, MI 48917 (517) 321-2638

Stephen J. Waide, CIH

Certification Number:  
7005 CP

ID Number:  
10494

ID Number will be required to access Web Roster  
Paid Through December 31, 2004

**BOARD OF CERTIFIED SAFETY PROFESSIONALS**



208 Burwash Avenue • Savoy, IL 61874  
Phone: 217-359-9283 • Fax: 217-359-0055  
Email: [bcsp@bcsp.org](mailto:bcsp@bcsp.org) • Web: [www.bcsp.org](http://www.bcsp.org)

Having met all applicable requirements defined by its bylaws, the Board of  
Certified Safety Professionals hereby authorizes the use of the designation

Certified Safety Professional

by

*Stephen J Waide*

Until: December 31, 2004

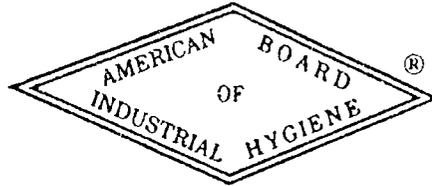
CSP No: 15352  
COC Cycle End Date:  
12/31/2003

Secretary Treasurer

2

# American Board of Industrial Hygiene®

ABIH®



organized to improve the practice of Industrial Hygiene  
proclaims that

**Stephen J. Waide**

having met all requirements through  
education, experience and examination,  
is hereby certified in the

**COMPREHENSIVE PRACTICE  
of  
INDUSTRIAL HYGIENE**

and has the right to use the designations

**CERTIFIED INDUSTRIAL HYGIENIST**

**CIH**

December 4, 1995

date

Terry D. Thadell

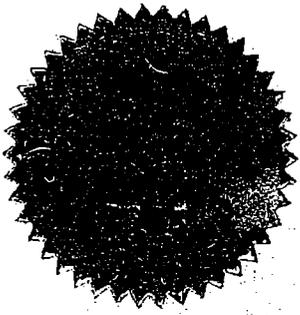
Chair ABIH

CP 7005

certificate  
number

Ray T. Lambert

Secretary ABIH



# BOARD OF CERTIFIED SAFETY PROFESSIONALS

*affirms that*

*Steve Waide*

*Having made application for and given satisfactory evidence of qualification as required in the By-Laws; is qualified to receive and is hereby authorized to use the designation*

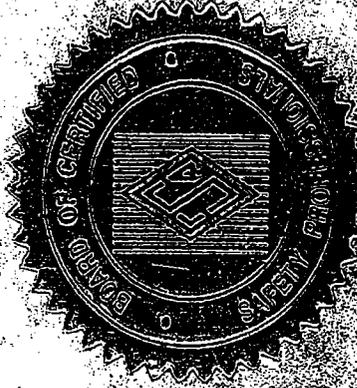
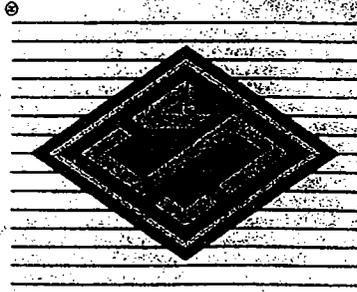
## Certified Safety Professional

in

Comprehensive Practice

*So long as this certificate of qualification is renewed annually and not revoked.*

*Board of Examiners in witness whereof we have hereunto set our hands and affixed the Seal of the Board this 25th Day of April, 1998*



*President*  
*Allen L. Eversole*

*Secretary*  
*Jim Simon Clark*

*Serial No. 1557*



STATE OF CALIFORNIA



# Board for Geologists and Geophysicists

## CERTIFICATE

IT IS HEREBY CERTIFIED THAT

**PETER DAVID CLARK**

IS A DULY

**REGISTERED GEOLOGIST**

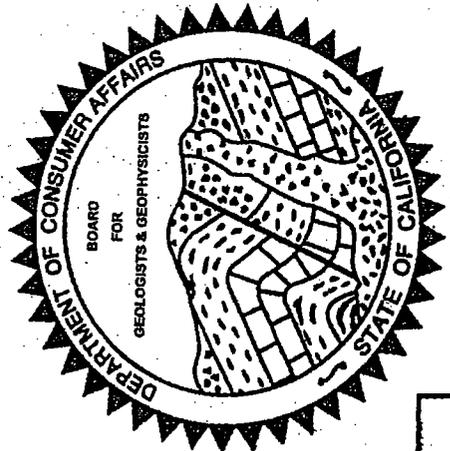
Certificate No. 7361

BOARD FOR GEOLOGISTS AND GEOPHYSICISTS

By *Doreen C. Dominguez*  
President

*Paul Sweeney*  
Executive Officer

This 30th day of November, 2001



# STATE OF CALIFORNIA

California Environmental Protection Agency

**Peter David Clark**

has fulfilled the requirements for registration as a

**REGISTERED ENVIRONMENTAL ASSESSOR  
(REA)**

*James M. Strock*

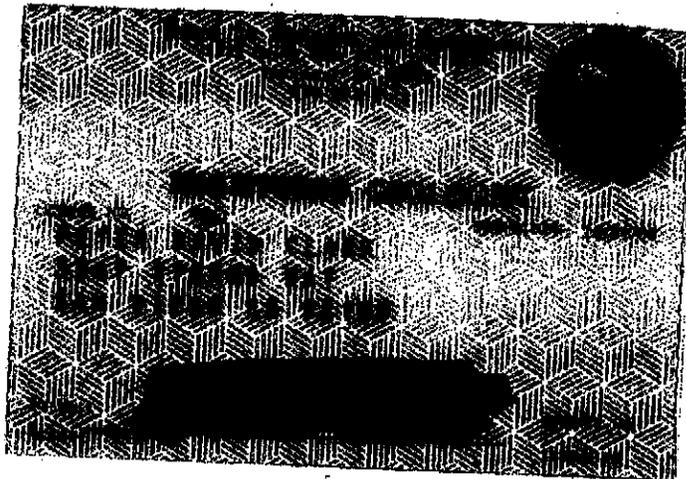
James M. Strock  
Secretary for Environmental Protection  
California Environmental Protection Agency

*Kirk C. Oliver*

Kirk C. Oliver, Senior Attorney  
California Environmental Protection Agency

Date: June 1991

REA Number: REA-02984



State of California  
California Environmental Protection Agency  
Department of Toxic Substances Control

**REGISTERED ENVIRONMENTAL ASSESSOR I**

Issued to: Peter Clark

Expires on: June 30, 2006

Signature: 



2

## A-B-CPR & First Aid Training

Toll Free 877-656-4CPR or San Diego 858-693-3304

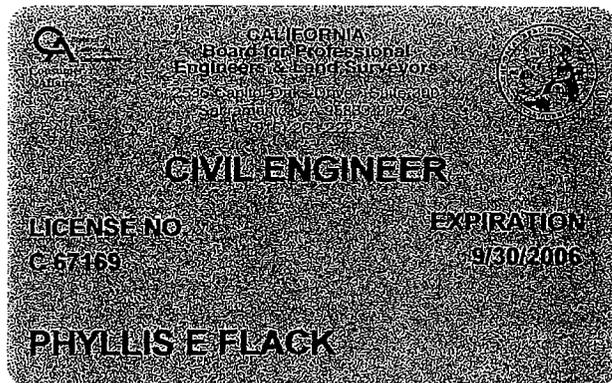
*Peter Clark*

 has successfully completed a  
Basic/pediatric First Aid  
Adult/child/infant CPR course 

Date 1-17-05 Instructor C. Santos

Valid for 2 years from completion date

*Name*  
PHYLLIS FLACK  
*License Number*  
C 67169  
*Expiration Date*  
SEPTEMBER 30, 2006  
*Receipt Number*  
22600062



Remove your new pocket License from the receipt portion and carry it with you at all times.

Board for Geologists and Geophysicists  
2535 Capitol Oaks Drive, Suite 300A  
Sacramento, CA 95833  
916 283-2113

10/05  
10/05

CUT ON  
DOTTED LINE

CUT ON  
DOTTED LINE



Board for Geologists and Geophysicists  
2535 Capitol Oaks Drive, Suite 300A  
Sacramento, CA 95833  
916 283-2113



CUT ON  
DOTTED LINE

**I M P O R T A N T**

1. Please include your license no. on any correspondence to this office.
2. Notify the Board of any name or address change in writing.
3. Report any loss immediately in writing to the Board.
4. Please sign and carry the pocket license with you.

LICENSE NO. **PROFESSIONAL GEOLOGIST**  
4507

EXPIRATION  
11/30/07

**PHYLLIS E. FLACK**  
4903 KELLER RIDGE DR  
CLAYTON CA 94517

PHYLLIS E. FLACK

LICENSE NO. 4507      EXPIRATION DATE 11/30/07      RECEIPT NO. 31100012

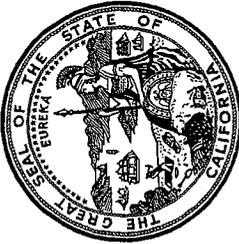
Signature

PG680C 02/28/05

RECEIPT NO.

31100012

**This is your RECEIPT. Please save for your records.**



STATE OF CALIFORNIA



BOARD FOR GEOLOGISTS AND GEOPHYSICISTS

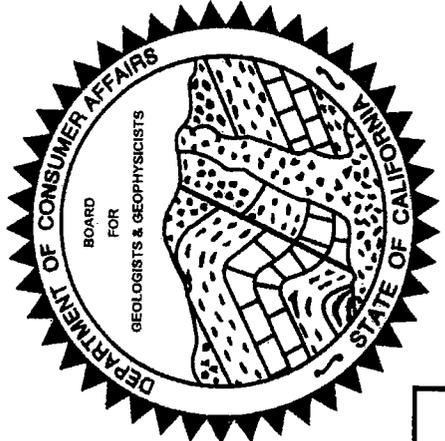
CERTIFICATE

IT IS HEREBY CERTIFIED THAT

**VICTOR J. SCHNEIDER**

IS A DULY  
**PROFESSIONAL GEOLOGIST**

License No 7914



BOARD FOR GEOLOGISTS AND GEOPHYSICISTS

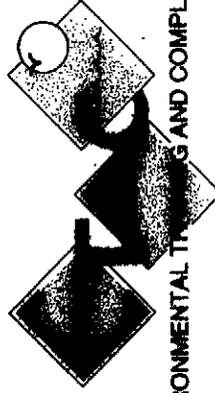
By *Craig A. Capellan*  
President

*Paul Sweeney*  
Executive Officer

This 7th day of June, 2005

2


 PROFESSIONAL GEOLOGIST  
 LICENSE NO. 7914  
 EXPIRATION 03/31/07  
**VICTOR J. SCHNEIDER**  
 26211-B VIA CALIFORNIA  
 CRESTVIEW BEVERLY HILLS CA 92624



ENVIRONMENTAL TRAINING AND COMPLIANCE

1979 S. State College Blvd  
 Anaheim, CA 92806  
 Phone: (800) 949-4473  
 etac-online.com

**Joseph Thompson, MPH**  
 Health & Safety Manager



Board for Professional Engineers  
& Land Surveyors  
2535 CAPITOL OAKS DRIVE, SUITE 300  
SACRAMENTO, CA 95833-2926  
516 269-2222



**QUALITY ENGINEER**

CERTIFICATE NO.  
QU 2841

EXPIRATION  
12/31/06

ROBERT LEONARD ALLEN  
953 CAPISTRANO PL  
ORANGE CA 92869-1218

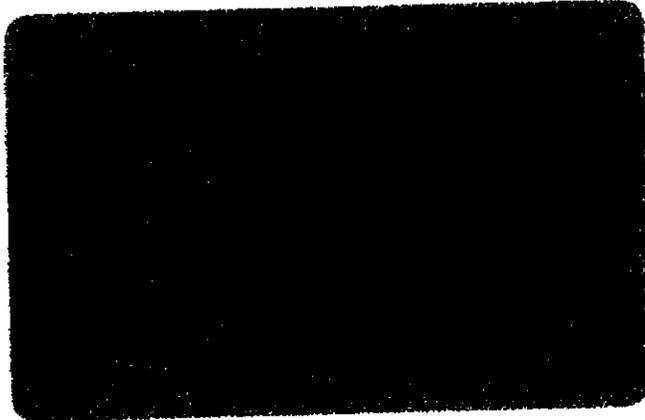
Signature



RECEIPT NO

PRCUCY/3/2006

C4100185





STATE OF CALIFORNIA



# State Board of Registration for Geologists and Geophysicists

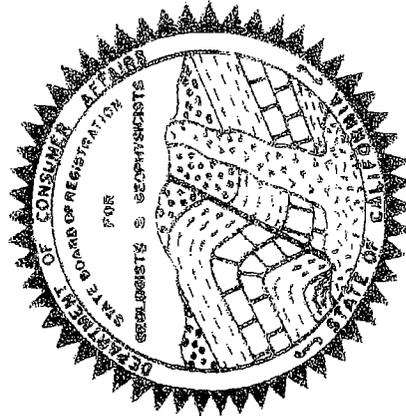
THIS CERTIFICATE TESTIFIES THAT

**RANDAL LEE IRWIN**

IS A CERTIFIED

**ENGINEERING GEOLOGIST**

Certificate No. EG 1521



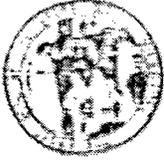
STATE BOARD OF REGISTRATION FOR  
GEOLOGISTS AND GEOPHYSICISTS

By *James H. McLaughlin* President  
*John White* Executive Officer

This 22nd day of March 19 90



# STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS



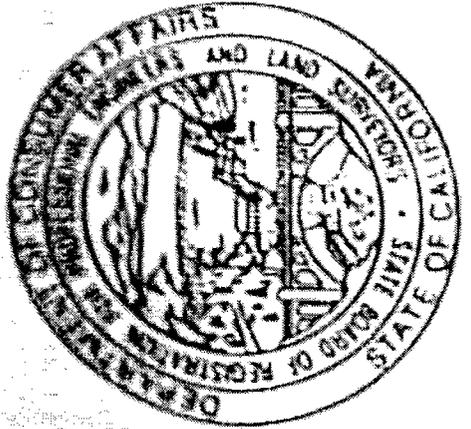
This Is To Certify That Pursuant  
To The Provisions of Chapter 7, Division 5 of The Business and Professions Code

## Erik Charles Olsen

IS DULY AUTHORIZED TO USE THE TITLE

### GEOTECHNICAL ENGINEER

In The State of California, and Is Entitled To All The Rights and  
Privileges Conferred In Said Code



WITNESS OUR HAND AND SEAL

Certificate No. GE 2111

This 12th day of March, 1993, at Sacramento, California.

STATE BOARD OF REGISTRATION  
FOR PROFESSIONAL ENGINEERS  
AND LAND SURVEYORS

*David R. Turner* *Ray E. Olsen*

Executive Officer

President



# Attachments

**CERTIFICATION OF  
SMALL BUSINESS/DISABLED VETERAN BUSINESS ENTERPRISE (DVBE)  
REQUIREMENTS**

The undersigned acknowledges that he has read all of the requirements set forth in the Request for Qualifications and, if awarded this Agreement, he will comply with the State's Small Business/DVBE requirements or make good faith efforts to meet these goals.

I certify under penalty of perjury that the foregoing is true and correct. This certification is made under the laws of the State of California.

Ninvo & Moore  
Name of Organization

  
Signature of Authorized Representative

San Diego, California  
Location where signed

Stephan A. Beck, Principal Environmental Geologist 2/22/2006  
Printed Name and Title Date

## COMPLIANCE WITH GOVERNMENT CODE, SECTION 87100

Government Code, Section 87100 provides: No public official at any level of state or local government will make, participate in making or in any way attempt to use his official position to influence a governmental decision in which he knows or has reason to know he or she has a financial interest. Contractors that provide recommendations and advice that may influence decision-making are required to comply with the disclosure requirements of the conflict of interest laws promulgated under the Political Reform Act.

The prospective contractors and subcontractors, if any, shall disclose any present or prior (within the last two years) financial, business, or other relationship with the CIWMB. These disclosures will be made under penalty of perjury.

In addition to the disclosures required above, list current clients subject to any discretionary action by the CIWMB, or who may have a financial interest in the policies and programs of the CIWMB, and describe any current or planned work activities the contractor is performing for such clients. These disclosures will be made under penalty of perjury. The Proposer and its subcontractors (if any) will be required to file statements of economic interests with the CIWMB upon award of the Contract. The CIWMB will keep copies of the statements of economic interest and forward the originals to the Fair Political Practices Commission.

### CURRENT CLIENTS MEETING ABOVE CRITERIA

<u>Client Name</u>	<u>Contract</u>	<u>Address</u>	<u>Phone</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

A determination by the CIWMB that a conflict of interest exists as a result of the disclosed relationships will be grounds for disqualifying a Proposer.

---



---

**PUBLIC CONTRACT CODE SECTION 10162 - QUESTIONNAIRE**

In accordance with Public Contract Code Section 10162, the Proposer shall complete, under penalty of perjury, the following questionnaire:

Has the Proposer, any officer of the Proposer, or any employee of the Proposer who has a proprietary interest in the Proposer, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state or local government project because of a violation of law or safety regulation? If the answer is yes, attach an explanation.

Yes

No

---

**PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT**

In accordance with Public Contract Code Section 10285.1, Proposer shall complete, under penalty of perjury, the following statement:

Has the proposer been convicted within the preceding three years of any offenses referred to in Public Contract Code Section 10285.1, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University? The term "proposer" is understood to include any partner, member officer, director, responsible officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Yes

No

---

**NONCOLLUSION AFFIDAVIT**  
 (Title 23 United States Code Section 112 and  
 Public Contract Code Section 7106)

In accordance with Title 23, United States Code, Section 112, and Public Contract Code 7106 if federally funded, or Public Contract Code 7106 if state funded, the proposer declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham bid, or that anyone shall refrain from bidding; has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the bid price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the proposer has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Noncollusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of the Noncollusion Affidavit. Proposers are cautioned that making a false certification may subject the certifier to criminal prosecution.

**SIGNATURE:**



Signature of Authorized Representative

Stephan A. Beck, Manager, Environmental  
 Sciences Division

Printed Name and Title

SMALL BUSINESS/DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) PARTICIPATION SUMMARY							
MARK ONE FOR EACH FIRM USED			NAME OF FIRM	NATURE OF WORK	TOTAL AMOUNT OF WORK (Mark one for each firm used)		IS CERTIFICATION FORM ATTACHED?
PRIME BIDDER	SUBCONTRACTOR	SUPPLIER			SMALL	DVBE	
	X		<b>ASM Affiliates</b>	<i>Archeological/Cultural Resources Services</i>	3%		<b>Yes</b>
	X		<b>Baja Exploration</b>	<i>Drilling Services</i>	5%		<b>Yes</b>
	X		<b>Burke Construction</b>	<i>Excavating Services, Investigative Derived Waste Disposal</i>	5%		<b>Yes</b>
	X		<b>Golden State Environmental</b>	<i>Cultural Resource Surveys Site Assessment Support</i>		3%	<b>Yes</b>
	X		<b>Nasland Engineering</b>	<i>Surveying and Land planning Services, Civil Engineering</i>	5%		<b>Yes</b>
	X		<b>Southwest Geophysical</b>	<i>Geophysical Services</i>	8%		<b>Yes</b>
	X		<b>SDV-ACCI</b>	<i>Specialty Staffing, Equipment Operation and Monitoring</i>		3%	<b>Yes</b>
	X		<b>Tri County Drilling</b>	<i>Drilling Services</i>	5%		<b>Yes</b>

\* Ninyo & Moore understands that certain of the services provided by the firms listed above may be separately contracted by the CIWMB under separate contracts. In addition, the % of work that we have identified for each firm is our best estimate since specific task orders have not been issued. Given these conditions, we pledge to meet or exceed the CIWMB goals for utilization of SBE/DVBE firms under this agreement.

The appropriate certification letter issued by the Office of Small Business Certification and Resources must be attached for each small and DVBE business used.

**Please Note: This form is only required at the time of SOQ submittal if the prime contractor has identified sub-contractors to be used during the course of the agreement or if the prime contractor is certified as a small or disabled veteran business enterprise.**



**PROCUREMENT DIVISION**

**Office of Small Business and DVBE Certification**

707 Third Street, 1st Floor, Room 400 \* PO Box 989052

West Sacramento, California 95798-9052 \* (800) 559-5529

SB SAPP 20050418

April 18, 2005

Supersedes APPROVAL Letter Dated 08/29/2002

REF# 0016159  
ASM AFFILIATES INC  
543 ENCINITAS BLVD STE 114  
ENCINITAS CA 92024

Dear Business Person:

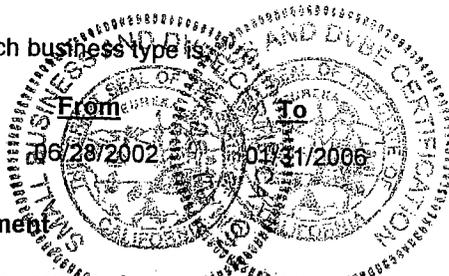
Congratulations on your certified small business status with the State of California. Your certification entitles you to benefits under the state's Small Business Participation Program within state contracting, including a five percent bidding preference and special provisions under the Prompt Payment Act.

**Certification period**

Your certification period for each business type is:

Industry

SERVICE



**Annual Submission Requirement**

To maintain your certified status, you must annually submit to the Office of Small Business and DVBE Certification (OSDC), proof of annual receipts and proof of employees for your firm and each of your affiliates (if any).

Proof of Annual Receipts

Submit to OSDC, a copy of your firm's and any affiliate firm's ENTIRE federal tax return each year following your certification. Include ALL accompanying schedules, forms, statements, and any other support documents filed with that specific tax return.

If you request a tax filing extension with the Internal Revenue Service, submit to our office a copy of the extension form. When your tax returns are filed, submit a copy of the entire federal tax return to our office.

Proof of Employees

If you have employees whose taxable wages are reported to the California Employment Development Department (EDD) on a quarterly basis, you must annually submit to our office along with your proof of annual receipts, proof of employees for your firm and any affiliates.

We will accept a copy of the EDD's "Quarterly Wage and Withholding Report" (Form DE6) or other format accepted by the EDD. Your employee documents must cover the same four quarters as the tax return you submit for your proof of annual receipts.

If you have out-of-state employees, submit the employee documentation comparable to EDD's "Quarterly Wage and Withholding Report" for the same four-quarter period.

**Maintain Your Online Certified Firm Profile**

A secure access feature on our website enables you to maintain certain company profile information, including customizable keywords to best describe your business specialties with. Details about the Certified Firm Profile and your secure logon information are available on the final page of this letter. Please keep your logon information page in a secure place and DO NOT share it with anyone or include it with any of your bid documents or submittals.

### **Reporting Business Changes**

You must notify OSDC of all business changes or your certification status will be subject to revocation. The enclosed "Certification Information Change" form identifies specific items that may be reported using the change form and it identifies other changes that require a new certification application submittal.

### **Prompt Payment Rubber Stamp**

The Prompt Payment Act requires state agencies to pay the undisputed invoices of certified small businesses and registered nonprofit organizations on a timely basis. Prompt payment is reinforced by adding interest penalties for late payment. Covered under the Act are certified small businesses that are either a service, manufacturer, or non-manufacturer firm, and nonprofit organizations registered with OSDC.

Compensation on late or unpaid progress payments for certified construction firms is addressed in Public Contract Code, Section §10261.5.

Use of the prompt payment rubber stamp alerts state agencies of a firm's certified small business or registered nonprofit status.

### **Ordering a rubber stamp**

To purchase a prompt payment rubber stamp, submit the enclosed Prompt Payment Rubber Stamp Order Form along with your payment to FRS Marking Devices, 1730 H Street, Fresno, CA, 93721.

### **Proof of Eligibility**

Maintain this original certification letter for future business needs. To demonstrate your firm's small business eligibility, include a copy of this letter in your state contract bid submittals.

*Prior to contract award, agencies will assure the vendor is in compliance with Public Contract Code, Section 10410 et seq. addressing conflict of interest for state officers, state employees or former state employees.*

### **Certification Renewal**

A renewal application will be mailed to you prior to the expiration of your small business certification. If you do not receive an application, please call us so that you may timely renew your certification.

If you have any questions, please contact me at 800.559.5529 (Procurement Division receptionist) or 916.375.4940 (OSDC receptionist), by e-mail [tay.higashi@dgs.ca.gov](mailto:tay.higashi@dgs.ca.gov), or by fax 916.375.4950. The Procurement Division oversees many programs to further state contracting participation. For more information regarding these programs, visit our website at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus), or visit the Procurement Division's website at [www.dgs.ca.gov/pd](http://www.dgs.ca.gov/pd).

Sincerely,

A handwritten signature in black ink that reads "Tay Higashi". The signature is written in a cursive style and is positioned to the right of the typed name.

Tay Higashi  
Certification Officer  
Office of Small Business and DVBE Certification



State of California \* Department of General Services \* OFFICE OF SMALL BUSINESS AND DVBE CERTIFICATION

**PROCUREMENT DIVISION**  
**Office of Small Business and DVBE Certification**  
 707 Third Street, 1st Floor, Room 400 \* PO Box 989052  
 West Sacramento, California 95798-9052 \* (800) 559-5529

SB APP 201

November 18, 2004

REF# 0029558  
 BAJA EXPLORATION  
 246 VISTA GRANDE GLEN  
 ESCONDIDO CA 92025

Dear Business Person:

Congratulations on your certified small business status with the State of California. Your certification entitles you to benefits under the state's Small Business Participation Program within state contracting, including a five percent bidding preference and special provisions under the Prompt Payment Act.

**Certification period**

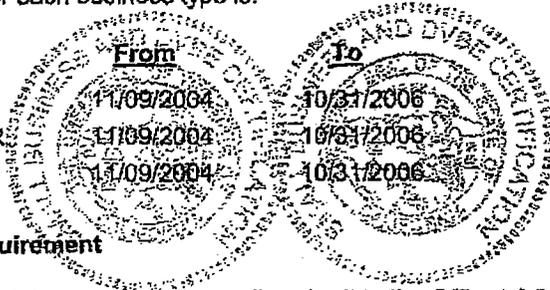
Your certification period for each business type is:

Industry

CONSTRUCTION

NON-MANUFACTURER

SERVICE



**Annual Submission Requirement**

To maintain your certified status, you must annually submit to the Office of Small Business and DVBE Certification (OSDC), proof of annual receipts and proof of employees for your firm and each of your affiliates (if any).

Proof of Annual Receipts

Submit to OSDC, a copy of your firm's and any affiliate firm's ENTIRE federal tax return each year following your certification. Include ALL accompanying schedules, forms, statements, and any other support documents filed with that specific tax return.

If you request a tax filing extension with the Internal Revenue Service, submit to our office a copy of the extension form. When your tax returns are filed, submit a copy of the entire federal tax return to our office.

Proof of Employees

If you have employees whose taxable wages are reported to the California Employment Development Department (EDD) on a quarterly basis, you must annually submit to our office along with your proof of annual receipts, proof of employees for your firm and any affiliates.

We will accept a copy of the EDD's "Quarterly Wage and Withholding Report" (Form DE6) or other format accepted by the EDD. Your employee documents must cover the same four quarters as the tax return you submit for your proof of annual receipts.

If you have out-of-state employees, submit the employee documentation comparable to EDD's "Quarterly Wage and Withholding Report" for the same four-quarter period.



State of California · Department of General Services · Arnold Schwarzenegger, Governor

# PROCUREMENT DIVISION

Office of Small Business and DVBE Certification

707 Third Street, 1st Floor, Room 400 · PO Box 989052

West Sacramento, California 95798-9052 · (800) 559-5529

December 3, 2004

SB APP 20041203

REF# 0019437  
BURKE CONSTRUCTION  
PO BOX 921  
SHINGLE SPRINGS CA 95682

*TO: michelle*

Dear Business Person:

Congratulations on your certified small business status with the State of California. Your certification entitles you to benefits under the state's Small Business Participation Program within state contracting, including a five percent bidding preference and special provisions under the Prompt Payment Act.

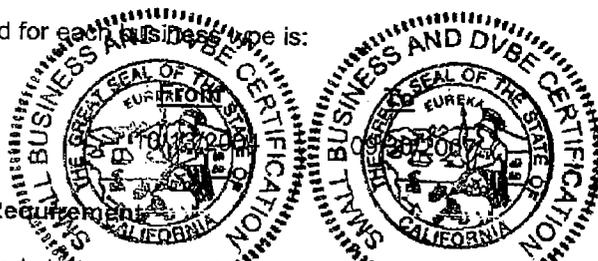
### Certification period

Your certification period for each business type is:

**Industry**

CONSTRUCTION

### Annual Submission Requirements



To maintain your certified status, you must annually submit to the Office of Small Business and DVBE Certification (OSDC), proof of annual receipts and proof of employees for your firm and each of your affiliates (if any).

### Proof of Annual Receipts

Submit to OSDC, a copy of your firm's and any affiliate firm's ENTIRE federal tax return each year following your certification. Include ALL accompanying schedules, forms, statements, and any other support documents filed with that specific tax return.

If you request a tax filing extension with the Internal Revenue Service, submit to our office a copy of the extension form. When your tax returns are filed, submit a copy of the entire federal tax return to our office.

### Proof of Employees

If you have employees whose taxable wages are reported to the California Employment Development Department (EDD) on a quarterly basis, you must annually submit to our office along with your proof of annual receipts, proof of employees for your firm and any affiliates.

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If you have out-of-state employees, submit the employee documentation comparable to EDD's "Quarterly Wage and Withholding Report" for the same four-quarter period.

### Maintain Your Online Certified Firm Profile

**Office of Small Business and DVBE Certification**

REF# 0019437 BURKE CONSTRUCTION

December 3, 2004  
SB APP 20041203

2

A secure access feature on our website enables you to maintain certain company profile information, including customizable keywords to best describe your business specialties with. Details about the Certified Firm Profile and your secure logon information are available on the final page of this letter. Please keep your logon information page in a secure place and DO NOT share it with anyone or include it with any of your bid documents or submittals.

**Reporting Business Changes**

You must notify OSDC of all business changes or your certification status will be subject to revocation. The enclosed "Certification Information Change" form identifies specific items that may be reported using the change form and it identifies other changes that require a new certification application submittal.

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Compensation on late or unpaid progress payments for certified construction firms is addressed in Public Contract Code, Section §10261.5.

Use of the prompt payment rubber stamp alerts state agencies of a firm's certified small business or registered nonprofit status.

**Ordering a rubber stamp**

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**Proof of Eligibility**

Maintain this original certification letter for future business needs. To demonstrate your firm's small business eligibility, include a copy of this letter in your state contract bid submittals.

*Prior to contract award, agencies will assure the vendor is in compliance with Public Contract Code, Section 10410 et seq. addressing conflict of interest for state officers, state employees or former state employees.*

**Certification Renewal**

A renewal application will be mailed to you prior to the expiration of your small business certification. If you do not receive an application, please call us so that you may timely renew your certification.

Office of Small Business and DVBE Certification

REF# 0019437 BURKE CONSTRUCTION

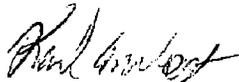
December 3, 2004

SB APP 20041203

3

If you have any questions, please contact me at 800.559.5529 (Procurement Division receptionist) or 916.375.4940 (OSDC receptionist), by e-mail [karl.west@dgs.ca.gov](mailto:karl.west@dgs.ca.gov), or by fax 916.375.4950. The Procurement Division oversees many programs to further state contracting participation. For more information regarding these programs, visit our website at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus), or visit the Procurement Division's website at [www.dgs.ca.gov/pd](http://www.dgs.ca.gov/pd).

Sincerely,



Karl A. West  
Certification Officer  
Office of Small Business and DVBE Certification



# PROCUREMENT DIVISION

Office of Small Business and DVBE Certification

707 Third Street, 1st Floor, Room 400 \* PO Box 989052

West Sacramento, California 95798-9052 \* (800) 559-5529

DVBE APP 20040730

July 30, 2004

REF# 0021089  
GOLDEN STATE ENVIRONMENTAL  
PO BOX 3706  
LA HABRA CA 90632-3706

Dear Business Person:

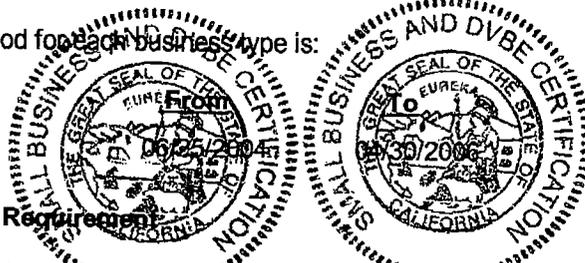
Congratulations on your certified disabled veteran business enterprise (DVBE) status with the State of California. Your certification entitles you to benefits under the state's DVBE Participation Program within state contracting, including the three percent DVBE participation goal for overall state contract dollars.

### Certification period

Your certification period for each business type is:

Industry

SERVICE



### Annual Submission Requirements

All DVBEs must submit to the Office of Small Business and DVBE Certification (OSDC) each postcertification tax year, a complete copy of your business' federal income tax return, including extensions, within 90 days of the tax return's filing due date. If your business is a partnership, each partner must also submit a complete copy of his or her individual tax return. Additionally, if you are a DVBE that is not a sole proprietorship and your firm rents equipment to the state, you must also include in your submittal a complete copy of the personal federal income tax returns for each of your disabled veteran owners, including extensions, and within 90 days of the individual's tax return filing due date. Failure to comply will result in the suspension of your DVBE status and possible decertification, and it shall prohibit your business from participating in any state contract until all requirements are met.

### Maintained Your Online Certified Firm Profile

A secure access feature on our website enables you to maintain certain company profile information, including customizable keywords to best describe your business specialties with. Details about the Certified Firm Profile and your secure logon information are available on the final page of this letter. Please keep your logon information page in a secure place and DO NOT share it with anyone or include it with any of your bid documents or submittals.

### Reporting Business Changes

You must notify OSDC of all business changes or your certification status will be subject to revocation. The enclosed "Certification Information Change" form identifies specific items that may be reported using the change form and it identifies other changes that require a new certification application submittal.

### Proof of Eligibility

Maintain this original certification letter for future business needs. To demonstrate your firm's DVBE eligibility, include a copy of this letter in your state contract bid submittals.

*Prior to contract award, agencies will assure the vendor is in compliance with Public Contract Code, Section 10410 et seq. addressing conflict of interest for state officers, state employees or former state employees.*

### Certification Renewal

A renewal application will be mailed to you prior to the expiration of your DVBE certification. If you do not receive an application, please call us so that you may timely renew your certification.

If you have any questions, please contact me at 800.559.5529 (Procurement Division receptionist) or 916.375.4940 (OSDC receptionist), by e-mail [louise.kurashige@dgs.ca.gov](mailto:louise.kurashige@dgs.ca.gov), or by fax 916.375.4950. The Procurement Division oversees many programs to further state contracting participation. For more information regarding these programs, visit our website at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus), or visit the Procurement Division's website at [www.dgs.ca.gov/pd](http://www.dgs.ca.gov/pd).

Sincerely,



Louise Kurashige  
Certification Officer  
Office of Small Business and DVBE Certification



U.S. Small Business Administration  
Washington, D.C. 20416

SENT VIA FAX (562)691-1357

APR 17 2003

Sandra Schneeberger, Owner  
Golden State Environmental  
P.O. Box 3706  
La Habra, California 90632-3706

Dear Ms. Schneeberger:

Congratulations! Your firm has been certified as a Participant in the U.S. Small Business Administration's (SBA) 8(a) Business Development (BD) program. Your nine (9) year program term begins on the date of this letter.

Additionally, your firm has been certified as a Small Disadvantaged Business (SDB) in the Federal Government's SDB program. Your term of participation in the SDB program is concurrent with your 8(a) BD certification.

During participation in the 8(a) BD program, you will receive business development assistance from an assigned Business Opportunity Specialist in the Los Angeles District Office located at 330 North Brand Boulevard, Suite 1200, Glendale, California 91203-2304. The phone number is (818)552-3235. The District office will also be able to provide you with information on the SDB program and its benefits.

Your firm will become eligible to receive 8(a) contracts after you submit a business plan using SBA Form 1010C and receive SBA's approval of the plan. We are sending a copy of this certification letter to the SBA Los Angeles District Office. That office will send you the business plan form.

SBA requires that the President or Chief Executive Officer sign a Participation Agreement to show that he or she understands the conditions of 8(a) BD program participation. Please read the Agreement carefully, sign and date one copy and return it to the SBA Los Angeles District Office at the address shown in the third paragraph above. The second copy is for you.

Even though your firm's approved North American Industry Classification System (NAICS) Code is 541620, your firm may be awarded contracts under other NAICS Codes, as long as the firm is qualified to perform. In this regard, please note that contracts awarded under 8(a) BD program authority generally result from the self-marketing efforts of the 8(a) firm. While your firm's acceptance into the 8(a) BD program is not a guarantee of contract support, SBA will make every effort to provide you with assistance in your marketing efforts.

If you have not already done so, we strongly suggest that you acquire access to e-mail to enhance your communication abilities with public and private sector buyers. Also, you should consider setting up a merchant account with a credit card company, which will give you the ability to accept credit card orders for your goods and services from over 1,000 Federal buying offices. Finally, please contact your local SBA District Office to update your enrollment in PRO-Net, an SBA online procurement listing of small businesses utilized by public and private sector buyers.

We welcome you as an 8(a) BD program participant and look forward to working with you.

Sincerely,

Luz A. Hopewell  
Associate Administrator for  
Business Development

Enclosures



**COUNTY OF LOS ANGELES  
OFFICE OF AFFIRMATIVE ACTION COMPLIANCE**

Kenneth Hahn Hall of Administration  
500 West Temple Street, Room 780  
Los Angeles, California 90012  
(213) 974-0912 / FAX (213) 626-7034  
TDD (213) 974-0911

MEMBERS OF THE BOARD

GLORIA MOLINA  
YVONNE BRATHWAITE BURKE  
ZEV YAROSLAVSKY  
DON KNABE  
MICHAEL D. ANTONOVICH

DENNIS A. TAFOYA  
Director

December 7, 2005

Ms. Sandra L. Schneeberger, Owner  
Golden State Environmental  
P.O. Box 3706  
La Habra, CA 90632-3706

Address all correspondence to:  
**CONTRACT COMPLIANCE**  
1000 S. Fremont Avenue  
Building A-9 East 1<sup>st</sup> Floor  
Mail Unit: #24  
Alhambra, CA 91803-8862

CBE Program I.D.#: 70551

Status: WBE/DBE

Dear Ms. Schneeberger:

Congratulations! Your firm has been recertified as an eligible participant in the County of Los Angeles Community Business Enterprise (CBE) Program. This recertification is valid until December 5, 2007.

The County of Los Angeles Office of Affirmative Action reserves the right to request additional information and/or conduct an on-site visit at any time during the certification process to verify any documentation submitted by the applicant. If there are any changes in ownership or control of the firm during this certification period, you are required to notify this office immediately.

You should also register your business with the County's Vendor Registration website (WebVen) at <http://camisvr.co.la.ca.us/webven> to participate in the County's online access to County open bids, be placed on bid lists generated by County departments looking for prospective vendors and periodically be notified automatically by email of County bids by specific commodities/services.

Again, congratulations on your recertification. If you have any questions, please call (877) 669-CBES and refer to the identification number above.

Sincerely,

DENNIS A. TAFOYA  
Director

Ozie L. Smith  
Senior Deputy Compliance Officer

DAT:OLS



**COUNTY OF LOS ANGELES  
OFFICE OF AFFIRMATIVE ACTION COMPLIANCE**

Kenneth Hahn Hall of Administration  
500 West Temple Street, Room 780  
Los Angeles, California 90012  
(213) 974-0192 / FAX 626-7034  
TDD (213) 974-0911

**MEMBERS OF THE BOARD**

GLORIA MOLINA  
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ZEV YAROSLAVSKY  
DON KNABE  
MICHAEL D. ANTONOVICH

DENNIS A. TAFOYA  
Director

December 7, 2005

Ms. Sandra L. Schneeberger, Owner  
Golden State Environmental  
P.O. Box 3706  
La Habra, CA 90632-3706

Address all correspondence to:  
**CONTRACT COMPLIANCE**  
1000 S. Fremont Avenue  
Building A-9 East 1<sup>st</sup> Floor  
Mail Unit: #24  
Alhambra, CA 91803-8862

Dear Ms. Schneeberger:

Program I.D. # 70551  
Status: DVBE

Congratulations! Your firm has been accepted to participate in the Los Angeles County Community Business Enterprise (CBE) Program adopted by the Los Angeles County Board of Supervisors.

Since the State Department of General Services, Office of Small Business and DVBE Certification is the only agency certifying Disabled Veteran Business Enterprises, the County accepts this certification for participation in our CBE Program.

As a participant, your firm will be included in our database of Minority, Women, Disadvantaged, and Disabled Veteran Business Enterprises. This information is utilized by our county departments and other public agencies to assist them in meeting their contracting needs.

Your participation status is valid through April 30, 2006. If there are any changes in the ownership or control of your firm during the participation period, you are required to notify this office immediately. In addition, you must submit proof of recertification by the State Department of General Services prior to the expiration date to maintain your participations status.

You should also register your business with the County's Vendor Registration website (WebVen) at <http://camisvr.co.la.ca.us/webven> to participate in the County's online access to County open bids, be placed on bid lists generated by County departments looking for prospective vendors and periodically be notified automatically by email of County bids by specific commodities/services.

Sincerely,

DENNIS A. TAFOYA  
Director

OZIE L. SMITH  
Senior Deputy Compliance Officer  
DAT:OLS:db

Office of Small Business and DVBE Certification

REF# 0021089 GOLDEN STATE ENVIRONMENTAL

July 30, 2004  
DVBE APP 20040730

3

**Standard Industrial Classification (SIC) Code(s)  
Certification Approval Attachment**

You selected the following Standard Industrial Classification (SIC) codes and/or contractor's license classifications to describe your firm's business:

**\*Construction firms are classified by their California contractor's license classification(s).**

<u>Industry</u>	<u>4-Digit SIC Code*</u>	<u>SIC Code Description</u>
SERVICE	1382	Oil & gas field exploration services
	4959	Sanitary services, n.e.c.
	8711	Engineering services
	8733	Noncommercial research organizations
	8748	Business consulting services, n.e.c.
	8999	Services, n.e.c.

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

## Certified Small Business Enterprise

February 25, 2004

Sandra L. Schneeberger  
 Golden State Environmental  
 P.O. Box 3706  
 La Habra, CA 90632

Thank you for submitting your Vendor Application seeking Small Business Enterprise recognition with The Metropolitan Water District of Southern California (Metropolitan). Per our evaluation of the information you provided in your application and the North American Industry Classification System codes you identified, your status as a Small Business Enterprise (SBE) has been approved. This certification is recognized by Metropolitan and its reciprocating agencies LAUSD, city of San Diego and San Diego County Water Authority. Metropolitan is pleased to issue this SBE Certificate subject to the terms and conditions identified below:

**NAICS code(s) for which SBE status is recognized: 541620, 541720, 562910, 562998**

**SBE Certificate Effective Date: 02-25-04**

**SBE Certificate Expiration Date: 02-25-07**

Work performed by your firm that falls within the above-mentioned NAICS code(s) will be counted as SBE participation for work performed on Metropolitan contracts or reciprocating agency contracts.

Metropolitan reserves the right to withdraw this certification if at any time it is determined that certification was knowingly obtained by false, misleading or incorrect information. Metropolitan reserves the right to audit all statements. If any firm attempts to falsify or misrepresent information to obtain certification, Metropolitan may, in its sole discretion, disqualify this firm from participation in any Metropolitan contracts for a period of up to five years.

**SBE Certification is valid for a period of three (3) years. To maintain SBE status, firms must submit a new Vendor Application on or before the expiration date mentioned above. All information is subject to verification.**

If there are any changes in your status that may impact your certification, you are required to notify Metropolitan's Business Outreach Office immediately at (213) 217-7444.

Bobbi A. Becker  
 Business Outreach Program Manager

002



# PROCUREMENT DIVISION

Office of Small Business and DVBE Certification

707 Third Street, 1st Floor, Room 400 \* PO Box 989052

West Sacramento, California 95798-9052 \* (800) 559-5529

SB APP 20040112

January 12, 2004

REF# 0022169  
NASLAND ENGINEERING  
4740 RUFFNER ST  
SAN DIEGO CA 92111

Dear Business Person:

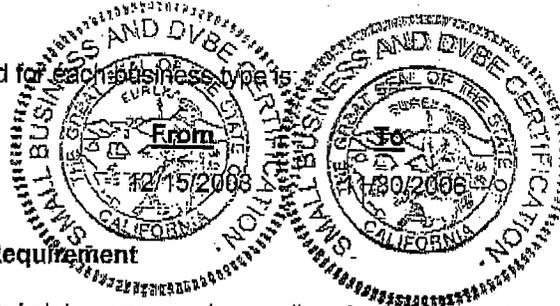
Congratulations on your certified small business status with the State of California. Your certification entitles you to benefits under the state's Small Business Participation Program within state contracting, including a five percent bidding preference and special provisions under the Prompt Payment Act.

### Certification period

Your certification period for each business type is

Industry

SERVICE



### Annual Submission Requirement

To maintain your certified status, you must annually submit to the Office of Small Business and DVBE Certification (OSDC), proof of annual receipts and proof of employees for your firm and each of your affiliates (if any).

#### Proof of Annual Receipts

Submit to OSDC, a copy of your firm's and any affiliate firm's ENTIRE federal tax return each year following your certification. Include ALL accompanying schedules, forms, statements, and any other support documents filed with that specific tax return.

If you request a tax filing extension with the Internal Revenue Service, submit to our office a copy of the extension form. When your tax returns are filed, submit a copy of the entire federal tax return to our office.

#### Proof of Employees

If you have employees whose taxable wages are reported to the California Employment Development Department (EDD) on a quarterly basis, you must annually submit to our office along with your proof of annual receipts, proof of employees for your firm and any affiliates.

We will accept a copy of the EDD's "Quarterly Wage and Withholding Report" (Form DE6) or other format accepted by the EDD. Your employee documents must cover the same four quarters as the tax return you submit for your proof of annual receipts.

If you have out-of-state employees, submit the employee documentation comparable to EDD's "Quarterly Wage and Withholding Report" for the same four-quarter period.

#### **Self-Maintained Online Profile**



# PROCUREMENT DIVISION

Office of Small Business and DVBE Certification

707 Third Street, 1st Floor, Room 400 \* PO Box 989052

West Sacramento, California 95798-9052 \* (800) 559-5529

SB APP 20050705

July 5, 2005

REF# 0040156  
SOUTHWEST GEOPHYSICS INC  
7438 TRADE ST  
SAN DIEGO CA 92121

Dear Business Person:

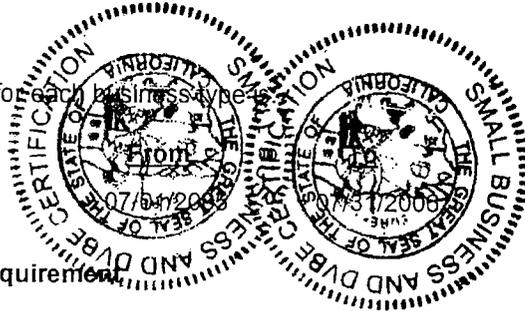
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### Certification period

Your certification period for each business year is:

Industry

SERVICE



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Submit to OSDC, a copy of your firm's and any affiliate firm's ENTIRE federal tax return each year following your certification. Include ALL accompanying schedules, forms, statements, and any other support documents filed with that specific tax return.

If you request a tax filing extension with the Internal Revenue Service, submit to our office a copy of the extension form. When your tax returns are filed, submit a copy of the entire federal tax return to our office.

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Compensation on late or unpaid progress payments for certified construction firms is addressed in Public Contract Code, Section §10261.5.

Use of the prompt payment rubber stamp alerts state agencies of a firm's certified small business or registered nonprofit status.

#### Ordering a rubber stamp

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### **Proof of Eligibility**

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*Prior to contract award, agencies will assure the vendor is in compliance with Public Contract Code, Section 10410 et seq. addressing conflict of interest for state officers, state employees or former state employees.*

### **Certification Renewal**

A renewal application will be mailed to you prior to the expiration of your small business certification. If you do not receive an application, please call us so that you may timely renew your certification.

Office of Small Business and DVBE Certification

REF# 0040156 SOUTHWEST GEOPHYSICS INC

July 5, 2005  
SB APP 20050705

3

If you have any questions, please contact me at 800.559.5529 (Procurement Division receptionist) or 916.375.4940 (OSDC receptionist), by e-mail [terri.ashley@dgs.ca.gov](mailto:terri.ashley@dgs.ca.gov), or by fax 916.375.4950. The Procurement Division oversees many programs to further state contracting participation. For more information regarding these programs, visit our website at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus), or visit the Procurement Division's website at [www.dgs.ca.gov/pd](http://www.dgs.ca.gov/pd).

Sincerely,



Terri Ashley  
Certification Officer  
Office of Small Business and DVBE Certification

**Standard Industrial Classification (SIC) Code(s)  
Certification Approval Attachment**

You selected the following Standard Industrial Classification (SIC) codes and/or contractor's license classifications to describe your firm's business:

**\*Construction firms are classified by their California contractor's license classification(s).**

<u>Industry</u>	<u>4-Digit SIC Code*</u>	<u>SIC Code Description</u>
SERVICE	8713	Surveying services



# PROCUREMENT DIVISION

Office of Small Business and DVBE Certification

707 Third Street, 1st Floor, Room 400 \* PO Box 989052

West Sacramento, California 95798-9052 \* (800) 559-5529

DVBE APP 20050511

May 11, 2005

REF# 0000230  
SDV/ACCI  
21144 MISSION BLVD  
HAYWARD CA 94541

Dear Business Person:

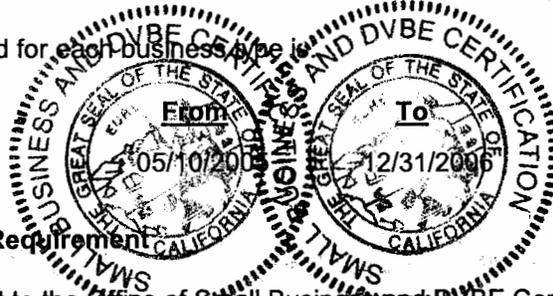
Congratulations on your certified disabled veteran business enterprise (DVBE) status with the State of California. Your certification entitles you to benefits under the state's DVBE Participation Program within state contracting, including the three percent DVBE participation goal for overall state contract dollars.

### Certification period

Your certification period for each business type is

Industry

SERVICE



### Annual Submission Requirement

All DVBEs must submit to the Office of Small Business and DVBE Certification (OSDC) each postcertification tax year, a complete copy of your business' federal income tax return, including extensions, within 90 days of the tax return's filing due date. If your business is a partnership, each partner must also submit a complete copy of his or her individual tax return. Additionally, if you are a DVBE that is not a sole proprietorship and your firm rents equipment to the state, you must also include in your submittal a complete copy of the personal federal income tax returns for each of your disabled veteran owners, including extensions, and within 90 days of the individual's tax return filing due date. Failure to comply will result in the suspension of your DVBE status and possible decertification, and it shall prohibit your business from participating in any state contract until all requirements are met.

### Maintained Your Online Certified Firm Profile

A secure access feature on our website enables you to maintain certain company profile information, including customizable keywords to best describe your business specialties with. Details about the Certified Firm Profile and your secure logon information are available on the final page of this letter. Please keep your logon information page in a secure place and DO NOT share it with anyone or include it with any of your bid documents or submittals.

### Reporting Business Changes

You must notify OSDC of all business changes or your certification status will be subject to revocation. The enclosed "Certification Information Change" form identifies specific items that may be reported using the change form and it identifies other changes that require a new certification application submittal.

### Proof of Eligibility

Maintain this original certification letter for future business needs. To demonstrate your firm's DVBE eligibility,

include a copy of this letter in your state contract bid submittals.

Prior to contract award, agencies will assure the vendor is in compliance with Public Contract Code, Section 10410 et seq. addressing conflict of interest for state officers, state employees or former state employees.

**Certification Renewal**

A renewal application will be mailed to you prior to the expiration of your DVBE certification. If you do not receive an application, please call us so that you may timely renew your certification.

If you have any questions, please contact me at 800.559.5529 (Procurement Division receptionist) or 916.375.4940 (OSDC receptionist), by e-mail [louise.kurashige@dgs.ca.gov](mailto:louise.kurashige@dgs.ca.gov), or by fax 916.375.4950. The Procurement Division oversees many programs to further state contracting participation. For more information regarding these programs, visit our website at [www.pd.dgs.ca.gov/smbus](http://www.pd.dgs.ca.gov/smbus), or visit the Procurement Division's website at [www.dgs.ca.gov/pd](http://www.dgs.ca.gov/pd).

Sincerely,

  
Louise Kurashige  
Certification Officer  
Office of Small Business and DVBE Certification

APP 1/18 Rev. 04/20/2004

SDV/ACCI created this statement to constitute Agreement to provide products or services for the project listed below. This certificate is issued to the party listed below as proof of certification and proof of DVBE compliance. Use of this certificate for other projects is prohibited.

Proposing Company: Ninyo & Moore  
Proj. Owner/State Dept: California Integrated Waste Management Board  
Project Number: IWM05073  
Project Name: Closed, Illegal and Abandoned Site Investigation

Certificate must be signed by certified Disabled Veteran Business Enterprise Owner or DVBE authorized Delegate to become valid

	Chairman and CFO	2/14/06	510 538 4280
NAME	Title	Date	Phone

**Certified Small Business Enterprise**

8/12/2005

Account #: 17537  
Ms. Sheryl Peterson  
Tri County Drilling, Inc.  
9631 Candida St  
San Diego, CA 92126

Thank you for submitting your Vendor Application seeking Small Business Enterprise recognition with a *Coalition of Southern California Public Agencies*. Per our evaluation of the information you provided in your application and the North American Industry Classification System codes you identified, your status as a Small Business Enterprise (SBE) has been approved. This certification is recognized by the following organizations:

<i>Metropolitan Water District</i>	<i>City of San Diego</i>	<i>San Diego County Water Authority</i>
<i>Minority Business Devel. Agency</i>	<i>Port of Long Beach</i>	<i>Los Angeles Unified School District</i>
<i>Los Angeles Community College Dist.</i>		

Metropolitan is pleased to issue this SBE Certificate subject to the terms and conditions identified below:

<b>NAICS code(s) for which SBE status is recognized: 235810 213112</b>
<b>SBE Certificate Effective Date: 7/1/2005</b>
<b>SBE Certificate Expiration Date: 7/1/2008</b>

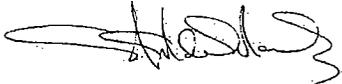
Work performed by your firm that falls within the above-mentioned NAICS code(s) will be counted as SBE participation for work performed on contracts procured by the above agencies.

The agencies reserve the right to withdraw this certification if at any time it is determined that certification was knowingly obtained by false, misleading or incorrect information and reserve the right to audit all statements. If any firm attempts to falsify or misrepresent information to obtain certification, the firm may be disqualified from participation in any contracts for a period of up to five years.

**SBE Certification is valid for a period of three (3) years. To maintain SBE status, firms must update their existing SBE Vendor Application on or before the expiration date mentioned above. All information is subject to verification.**

If there are any changes in your status that may impact your certification, you are required to update your account information online. A copy of your information can be viewed by logging into your main menu and selecting the link to the "Small Business Certification Form".

Sincerely,



Nicole Meggerson de Martinez  
Metropolitan Water District of Southern California  
Interim Business Outreach Program Manager

# BUSINESS ENTERPRISE CERTIFICATE

## TRI-COUNTY DRILLING, INC

9631 CANDIDA STREET  
SAN DIEGO, CA 92126 4537

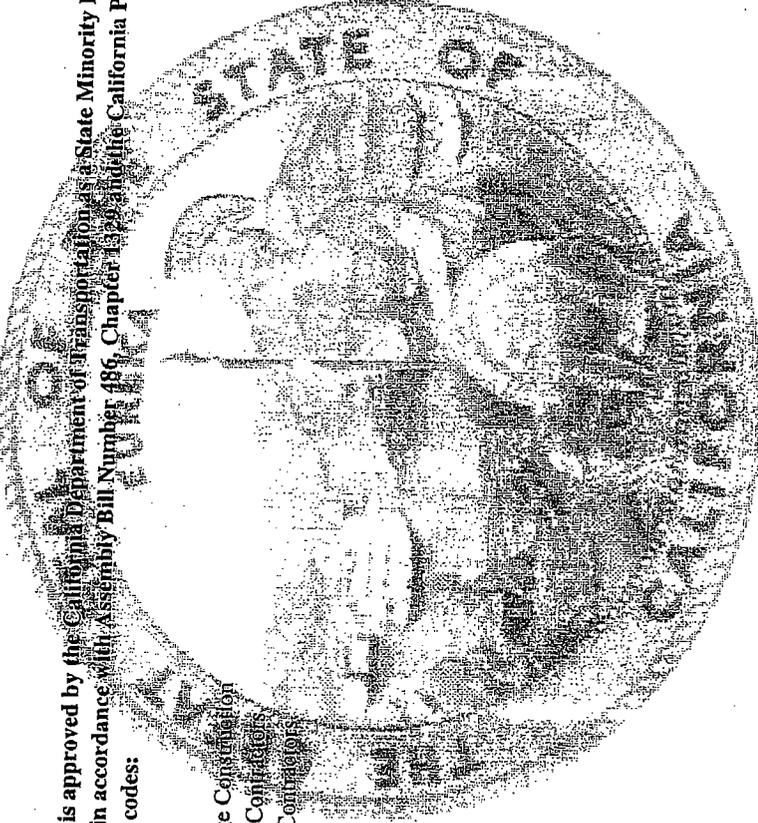
Owner: SHERYL PETERSON DUDDIE

Business Structure: CORPORATION

Programs: STATE WOMEN BUSINESS ENTERPRISE

This certificate acknowledges that said firm is approved by the California Department of Transportation as a State Minority Business Enterprise or State Women Business Enterprise (or in some cases both) in accordance with Assembly Bill Number 486, Chapter 1320 and the California Public Code, Chapter 2.5 (commencing with Section 2050), for the following NAICS codes:

- 237310 Highway, Street, and Bridge Construction
- 238290 Other Building Equipment Contractors
- \* 238990 All Other Specialty Trade Contractors



\* Indicates primary NAICS code

CERTIFYING AGENCY:  
DEPARTMENT OF TRANSPORTATION  
1823 14TH STREET, MS 79  
SACRAMENTO, CA 95814 0000  
(916) 324-1700

Firm Number: 13283

Renewal Date: August 1, 2007

  
RITA A. NELSON CERTIFYING AGENCY REPRESENTATIVE

July 15, 2005

# CALIFORNIA UNIFIED CERTIFICATION PROGRAM DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATE

TRI-COUNTY DRILLING, INC

9631 CANDIDA STREET  
SAN DIEGO, CA 92126 4537

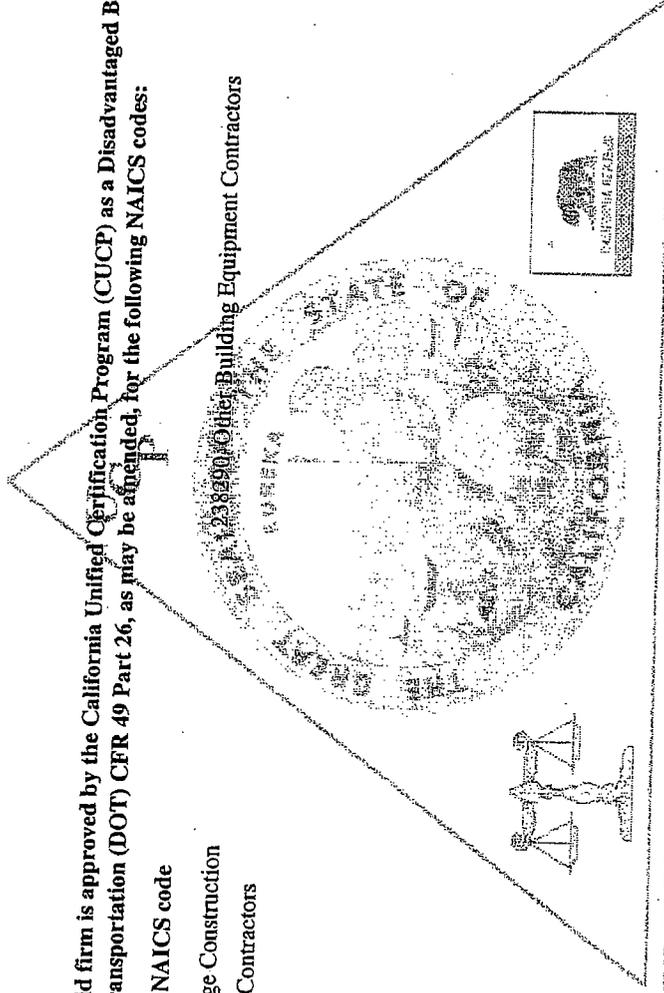
Owner : SHERYL PETERSON DUDDIE  
Business Structure : CORPORATION

This certificate acknowledges that said firm is approved by the California Unified Certification Program (CUCP) as a Disadvantaged Business Enterprise (DBE) as defined by the U.S. Department of Transportation (DOT) CFR 49 Part 26, as may be amended, for the following NAICS codes:

- NAICS Code(s) \* Indicates primary NAICS code
- 237310 Highway, Street, and Bridge Construction
  - \* 238990 All Other Specialty Trade Contractors

**Licenses**

C57 Well Drilling Contractor



UNIFIED CERTIFICATION PROGRAM

**CERTIFYING AGENCY:**

DEPARTMENT OF TRANSPORTATION  
1823 14TH STREET, MS 79  
SACRAMENTO, CA 95814 0000  
(916) 324-1700

UCP Firm Number: 13283

*Sheryl Peterson Duddie*

CUCP OFFICER

July 15, 2005



# Financial Information



# Additional Information

Projects	Subsurface site investigation	Property title/deed/history research	Site surveying	Site investigation workplan preparation	Site investigation report preparation	Soil vapor/landfill gas (LFG) investigation	Construction of Title 22 [Title 27] LFG monitoring probes specific to project	Soil/gas sampling/waste characterization	Hazardous waste operations	Non-intrusive geophysical surveys/methods	Construction management	Community education/outreach programs	Obtain federal/state/local permits/approvals
Belmont Shores Mobile Home Park/City Dump & Salvage-Site 1	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓
Hellyer Park Landfill San Jose, California	✓	✓		✓		✓	✓	✓	✓	✓			✓
Homeland Burn Site Homeland, California	✓	✓						✓		✓			
Cannery Street Landfill Huntington Beach, California	✓					✓	✓	✓	✓	✓			✓
14th Avenue Landfill Sacramento, California	✓					✓	✓	✓		✓			✓
Santa Fe Railroad Disposal Sites North of Riverbank, California	✓	✓	✓					✓		✓			✓
Crestmore Disposal Site Crestmore, California	✓	✓		✓		✓	✓	✓	✓	✓			✓
Gerber Road Landfill Sacramento, California	✓		✓	✓				✓	✓				✓
Yuba Sutter Disposal Area Marysville, California	✓					✓	✓	✓	✓				✓
Warings Dump, 63rd and Morrison Creek Sacramento, California	✓	✓				✓	✓	✓		✓			✓
Correia Middle School San Diego, California	✓				✓			✓			✓	✓	✓
Laura G. Rodriguez Elementary School San Diego, California	✓				✓			✓	✓		✓	✓	✓
NTC Landfill San Diego, California	✓				✓			✓	✓		✓	✓	✓
Home Avenue Burn Site San Diego, California	✓	✓	✓	✓	✓					✓	✓		✓
8th Avenue Tidelands Dump/East Parking Lot, San Diego, California	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓

Projects	Subsurface site investigation	Property title/deed/history research	Site surveying	Site investigation workplan preparation	Site investigation report preparation	Soil vapor/landfill gas (LFG) investigation	Construction of Title 22 [Title 27] LFG monitoring probes specific to project	Soil/gas sampling/waste characterization	Hazardous waste operations	Non-intrusive geophysical surveys/methods	Construction management	Community education/outreach programs	Obtain federal/state/local permits/approvals
8th Avenue Tidelands Dump/Former Campbell Shipyard, San Diego, California	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
Superfund Technical Assessment and Response Team Region IX: Arizona, California	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓
Fallbrook 1B/1C Burn Site Fallbrook, California	✓	✓						✓		✓			
Sunset Cliffs Burn Site San Diego, California	✓							✓					
Cerro Villa Park Master Plan Orange, California	✓				✓			✓					
Bike Trail/Gunpowder Point Burn Material San Diego, California	✓												
Arvin Sanitary Landfill/Former Burn Site, Kern County, California	✓			✓	✓	✓		✓		✓			✓
Rosamond Burn Dump Kern County, California	✓	✓	✓	✓	✓			✓	✓	✓			✓
China Grade Former Burn Dump and Landfill Bakersfield, California	✓	✓			✓			✓		✓			✓
Boron Sanitary Landfill and Former Burn Dump Boron, California	✓	✓			✓			✓		✓			✓

## **ADDITIONAL PROJECT EXPERIENCE**

Ninyo & Moore personnel conducted the following additional projects. These projects were completed greater than 5 years ago and/or were less than \$15,000.

Name of entity claiming experience: Ninyo & Moore

Project name/location: Fallbrook 1B/1C Burn Site, Fallbrook, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Ms. Melissa Gunter; (formerly CIWMB), most recent phone number: 775-843-5869

Contract amount (listed entity only): \$11,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your company's participation:



In conjunction with the CIWMB, Ninyo & Moore obtained and reviewed historical documents and aerial photographs, and assisted with developing a work plan to characterize and delineate the extent of burned wastes.

We generally characterized and delineated the horizontal and vertical extent of buried wastes and adjacent soils by overseeing and directing the excavating of 20 exploratory trenches. Logged and sampled burned materials and soils encountered in the trench excavations. Provided trench logs, daily reports, and photographic documentation. This information was being used to evaluate remedial options, e.g. whether the site should be clean closed, capped in place, or reconfigured.

Most recently, Ninyo & Moore personnel evaluated remedial plans to excavate the wastes that extend onto adjacent properties and in one direction extends into a creek bed. We are beginning preparation of the engineering plans and specifications to remove the off site portions of the buried wastes, and place them at an on site location, regrade the slopes, and provide an engineered cap.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Sunset Cliffs Burn Site, San Diego, California

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Mr. Bradley Penick; 916/341-6000

Contract amount (listed entity only): \$13,022

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization |
| <input type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                          |
| <input type="checkbox"/> Site surveying  | <input type="checkbox"/> Non-intrusive geophysical surveys/methods           |
| <input type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                             |
| <input type="checkbox"/> Site investigation report preparation   | <input type="checkbox"/> Community education/outreach programs               |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input type="checkbox"/> Obtain federal/state/local permits/approvals        |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:



In association with the CIWMB, Ninyo & Moore delineated the horizontal and vertical extent of buried wastes and characterized the wastes and adjacent soils by excavating and sampling trenches in the vicinity of the suspected lateral extent of the former burned materials as well as at the site interior. In conjunction with CIWMB and City of San Diego personnel, obtained historical aerial photographs, topographic maps, and other relevant data regarding the history of the site. Other services included performing a land survey to locate exploratory trenches, preparing trench logs, and providing an estimate of the volume of buried wastes. Following completion of excavating, the disturbed areas were covered with imported soil/mulch to control erosion and assist with vegetative cover. Information from this investigation was/is being used to evaluate remedial options, e.g. whether the site should be clean closed, capped in place, or reconfigured. We worked closely with an archeological firm, City of San Diego biologist and other City of San Diego personnel including LEA and Environmental Protection Division staff.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_

Name of entity claiming experience: Ninyo & Moore

Project name/location: Cerro Villa Park Master Plan, Orange, California

Name of client (owner or prime Contractor): David Volz Design (City of Orange)

Client contact and current telephone number: Mr. David Volz; 714/593-3300

Contract amount (listed entity only): \$ 11,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization |
| <input type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                          |
| <input type="checkbox"/> Site surveying  | <input type="checkbox"/> Non-intrusive geophysical surveys/methods           |
| <input type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                             |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input type="checkbox"/> Community education/outreach programs               |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input type="checkbox"/> Obtain federal/state/local permits/approvals        |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:

Performed a study to provide input to master plan for 26.6-acre site that encompassed the former Cerro Villa Heights Refuse Disposal Station. The disposal station operated as a burn site from 1947 to 1957. Burning was conducted regularly until 1956. Burn ash and inert construction debris is present on about 4.1 acres of the site, including a former gully, in two burn trenches, and on the eastern side slope of the site where ash was pushed over the slope. Our investigation involved excavating exploratory trenches across the site to assess the nature and extent of the burned materials. We identified the potential for slope erosion which could expose ash or burn debris as well as evaluated the potential for surficial slope instability.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Bike Trail/Gunpowder Point Burn Material, San Diego, California

Name of client (owner or prime Contractor): Caltrans

Client contact and current telephone number: Mr. Joel Kloth, 619/688-3682

Contract amount (listed entity only): \$12,500

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization |
| <input type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                          |
| <input type="checkbox"/> Site surveying  | <input type="checkbox"/> Non-intrusive geophysical surveys/methods           |
| <input type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                             |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input type="checkbox"/> Community education/outreach programs               |
| <input type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                                   | <input type="checkbox"/> Obtain federal/state/local permits/approvals        |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:

Ninyo & Moore performed a subsurface assessment to evaluate the presence of lead and other contaminants of potential concern in near-surface soils at specific locations of the proposed bike path along the west side of Interstate 5 and E Street. A portion of the fill material used during the construction of the west shoulder of I5 was reportedly from the Gunpowder Point Burn Site. A total of 23 locations, (50 soil samples) were collected and analyzed for metals, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), 2,3,7,8-tetrachlorodibenzo-p-dioxin (2378-TCDD). Performed statistical analysis to normalize data, calculate confidence intervals, and correlate total and soluble lead. Prepared letter-report presenting our methodology, findings, and conclusions. Other services included preparing a site specific health and safety plan and conducting a radiation survey. GPS technology was utilized to identify and document sample and survey locations.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Arvin Sanitary Landfill/Former Burn Site, Kern County, California

Name of client (owner or prime Contractor): Kern County Waste Management Department

Client contact and current telephone number: Mr. Eric Greenwood (Current Contact); 661/862-8918

Contract amount (listed entity only): \$122,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input type="checkbox"/> Property title/deed/history research  | <input type="checkbox"/> Hazardous waste operations                              |
| <input type="checkbox"/> Site surveying  | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input checked="" type="checkbox"/> Site investigation workplan preparation                            | <input type="checkbox"/> Construction management                                 |
| <input checked="" type="checkbox"/> Site investigation report preparation                              | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                        | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your company's participation:

For four years, Ninyo & Moore was Kern County Waste Management Department's (KCWMD) consultant for its central region landfills. One of these sites was the approximately 187-acre Arvin Landfill, formerly a burn site. Project tasks included the following: evaluated the existing detection monitoring network and designed and constructed both detection and evaluation monitoring programs; assisted KCWMD on an as-needed basis with regulatory compliance issues associated with all aspects of this site; prepared site investigation work plans and the health and safety plans; advanced hydropunch borings to delineate the extent of soil and groundwater contamination; designed, constructed, and sampled multi-level, gas probes. Prepared reports for all aspects of field investigations; attended regulatory agency meetings; performed quality assurance/control services; and provided all project management tasks, including project coordination, subcontractor supervision, performance assurance, and budget management.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Rosamond Burn Dump, Kern County, California

Name of client (owner or prime Contractor): Kern County Waste Management Department

Client contact and current telephone number: Mr. Eric Greenwood; 661/862-8918

Contract amount (listed entity only): \$93,000

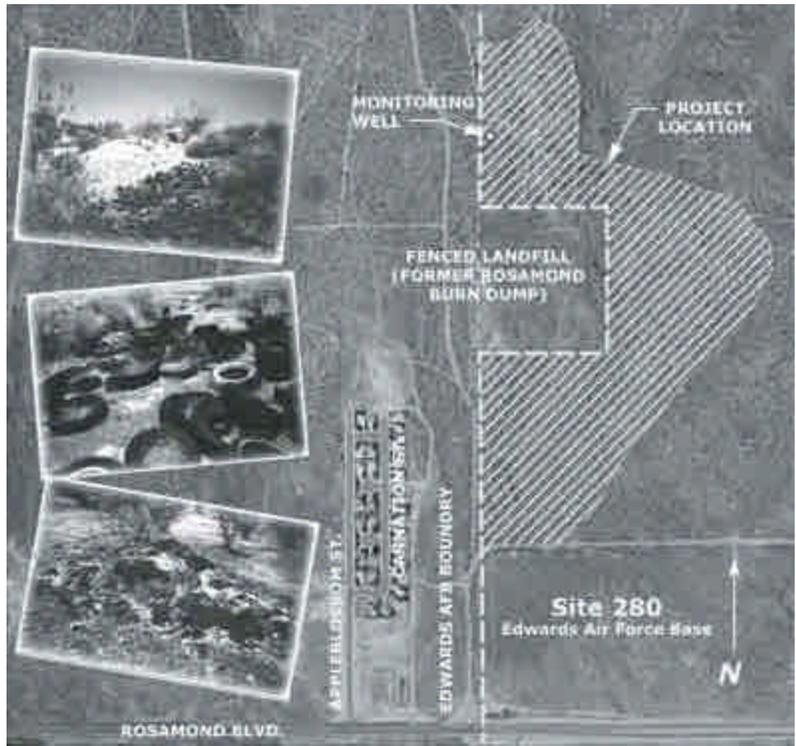
Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your entity's participation:

Assisted the Kern County Waste Management Department with regulatory compliance issues associated with this former burn site. Characterized and delineated the former burn dump by drilling and sampling through and adjacent to the burn trenches. Determined whether or not the site had adversely impacted groundwater quality. Working with historic site plan maps and aerial photographs, Ninyo & Moore personnel delineated the locations of the former burn dump trenches in the field. Once the former burn dump trenches were located, borings were advanced through the trenches and into the underlying vadose zone to assess the extent of the trenches and to evaluate the chemical characteristics of the burn material and the underlying vadose zone. Groundwater monitoring wells were constructed up and down gradient of the burn site. A report was prepared regarding the extent of the burn trenches, waste characteristics, vadose zone conditions and chemical characterization of the burn areas.



Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: China Grade Former Burn Dump and Landfill, Bakersfield, California

Name of client (owner or prime Contractor): Kern County Waste Management Department

Client contact and current telephone number: Mr. Eric Greenwood (Current Contact); 661/862-8918

Contract amount (listed entity only): \$190,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- Subsurface site investigation
- Property title/deed/history research
- Site surveying
- Site investigation workplan preparation
- Site investigation report preparation
- Soil vapor/landfill gas (LFG) investigation
- Construction of Title 22 [Title 27] LFG monitoring probes specific to project
- Other:
- Soil/gas sampling/waste characterization
- Hazardous waste operations
- Non-intrusive geophysical surveys/methods
- Construction management
- Community education/outreach programs
- Obtain federal/state/local permits/approvals

Brief description of the project and your entity's participation:



As part of a two year contract that was renewed for two additional years, Ninyo & Moore assisted Kern County Waste Management Department (KCWMD on an as-needed basis for their central region landfills. We assisted KCWMD with regulatory compliance issues pertaining to the closed China Grade Landfill that was

previously a burn dump. The site was complicated by the presence of a fault, and its location within an oil field. Project tasks included comprehensive reviews and compilation of geologic and hydrogeologic reports and analytical data, preparing work plans, upgrading existing monitoring systems, and developing a comprehensive conceptual hydrogeologic model of the site. Also attended regulatory agency meetings and performed regulatory interfacing; provided quality control (QA/QC) services for analytical data, and provided all aspects of project management, including project coordination, subcontractor oversight and performance assurance, meeting project deadlines, and achieving budgetary control.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A

Name of entity claiming experience: Ninyo & Moore

Project name/location: Boron Sanitary Landfill and Former Burn Dump, Boron, California

Name of client (owner or prime Contractor): Kern County Waste Management Department

Client contact and current telephone number: Mr. Eric Greenwood (Current Contact); 661/862-8918

Contract amount (listed entity only): \$170,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Subsurface site investigation                                      | <input checked="" type="checkbox"/> Soil/gas sampling/waste characterization     |
| <input checked="" type="checkbox"/> Property title/deed/history research                               | <input type="checkbox"/> Hazardous waste operations                              |
| <input type="checkbox"/> Site surveying  | <input checked="" type="checkbox"/> Non-intrusive geophysical surveys/methods    |
| <input type="checkbox"/> Site investigation workplan preparation                                       | <input type="checkbox"/> Construction management                                 |
| <input type="checkbox"/> Site investigation report preparation   | <input type="checkbox"/> Community education/outreach programs                   |
| <input checked="" type="checkbox"/> Soil vapor/landfill gas (LFG) investigation                        | <input checked="" type="checkbox"/> Obtain federal/state/local permits/approvals |
| <input type="checkbox"/> Construction of Title 22 [Title 27] LFG monitoring probes specific to project |  |
| <input type="checkbox"/> Other:  |  |

Brief description of the project and your entity's participation:

Ninyo & Moore provided environmental and geotechnical services at the Boron Sanitary Landfill in Kern County, California. Environmental project work included designing and implementing a new groundwater monitoring program in accordance with CCR, Title 23, currently Title 27. Project activities included upgrading the existing monitoring system by designing, drilling, and constructing wells and evaluating the vadose zone beneath and adjacent to the buried wastes. Several years later, additional drilling and investigative work was performed to address RWQCB concerns regarding the existing monitoring network. We also provided geotechnical services to evaluate the suitability of on-site soils for use as final landfill cover. Geotechnical services included drilling and sampling borings, and laboratory testing. The geotechnical analyses consisted of evaluating the maximum probable earthquake, performing slope stability analyses for cut and fill slopes, and assessing the presence of Holocene faulting underlying and within a one-mile radius of the landfill. Data generated was compiled into a comprehensive report and appropriate recommendations were provided.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: N/A



# Port of San Diego

and Lindbergh Field Air Terminal

619-686-6200 • P.O. Box 120488, San Diego, California 92112-0488  
www.portofsandiego.org

March 18, 2003

Mr. Stephan Beck  
Ninyo & Moore  
5710 Ruffin Road  
San Diego, California 92123

Subject: Contract Performance

Dear Mr. Beck:

For the past five years, Ninyo & Moore has performed in an outstanding manner under the District's On-Call Services Agreements for Annual Environmental Site Investigation Services contract involving potentially contaminated District tidelands. Some of the projects completed during this period were extremely challenging, requiring immediate response by a committed, experienced team applying innovative technical solutions. These projects have included the San Diego International Airport, marine terminals, warehouses, retail buildings, abandoned aerospace facilities, historical landfill and waste sites, a major railway switching yard and marshalling facility, a power plant, a PCB-contaminated hydrodynamic testing facility, and other sites with complex environmental, regulatory, and health and safety issues. Ninyo & Moore has also performed soil and groundwater site assessments at smaller facilities for lease commencements and terminations, as well as for real estate acquisitions. Ninyo & Moore's responsiveness, expertise, dependability, data management, and quality of work have been important factors in the Port District meeting project requirements and schedules.

Ninyo & Moore's selection for this annual, competitive contract has been based on a history of excellent results on projects, responsiveness, and competitive fees. Projects under the contract have been awarded through individual Requests for Services, which strongly considered fees in the selection process.

If you have any other questions concerning Ninyo & Moore's performance under this contract, please feel free to contact me at (619) 686-6597.

Sincerely



Paul Brown  
Associate Environmental Specialist



Terry Tamminen  
Secretary for  
Environmental  
Protection

## California Integrated Waste Management Board

Rosario Marin, Chair  
1001 I Street • Sacramento, California 95814 • (916) 341-6000  
Mailing Address: P. O. Box 4025, Sacramento, CA 95812-4025  
[www.ciwmb.ca.gov](http://www.ciwmb.ca.gov)



Arnold Schwarzenegger  
Governor

October 25, 2004

Mr. Avrim Ninyo  
Ninyo & Moore  
Geotechnical & Environmental Sciences Consultants  
5710 Ruffin Road  
San Diego, CA 92123

Dear Mr. Ninyo:

I would like to commend your company and staff, especially Ms. Beth Abrahamson-Beck, Mr. Peter Clark, Mr. Sree Gopinath and Mr. Stephen Beck for their outstanding work and technical support of the Closed, Illegal and Abandoned Site program at the California Integrated Waste Management Board. As the CIWMB's environmental consultant to the CIA program, your company & staff have been key to highly cost-effective landfill investigations of high-priority CIA sites that have been critical to enforcement and scoping of remedial actions by Local Enforcement Agencies (LEAs) at the 14<sup>th</sup> Avenue Landfill, Gerber Road Landfill and Warings Dump in Sacramento County, the Yuba-Sutter Disposal Site in Yuba County, the Sante Fe Road Disposal site in San Joaquin County, the Crestmore Disposal site in San Bernardino County and the Fallbrook and Sunset Cliffs Burnsites in San Diego.

Your staff's professionalism, dedication and expertise have been demonstrated throughout the above investigations. The consultation and research of site history, review of CIWMB workplans, obtaining highly-competitive, yet high-quality subcontractors and coordination, execution, completion and follow-through of fieldwork with CIA staff project managers and engineers has resulted in highly-effective support of the Sacramento, Yuba, San Joaquin, San Bernardino and San Diego Local Enforcement Agencies (LEA) in administering their responsibilities for addressing threats to public health, safety and the environment at CIA sites.

Also, your staff have done a superb job in cost accounting and administration of the contract and have been timely and accurate in estimating costs, invoicing, reconciling costs and budgets and managing staff responsibilities and time.

Sincerely,

  
Glenn K. Young, P.E.  
Senior Waste Management Engineer  
California Integrated Waste Management Board  
Closed, Illegal and Abandoned Site Section

California Environmental Protection Agency

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The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web site at <http://www.ciwmb.ca.gov/>

SAN DIEGO COUNTY  
REGIONAL AIRPORT AUTHORITY

P.O. BOX 82776, SAN DIEGO, CA 92138-2776  
619.400.2400 WWW.SAN.ORG

March 25, 2003

Ms. Beth Abramson-Beck  
Ninyo & Moore  
5710 Ruffin Road  
San Diego, California 92123

Subject: Contract Performance

Dear Ms. Abramson- Beck:

I am pleased to present this letter of commendation for Ninyo & Moore. As a Senior Hazardous Materials Specialist with the San Diego Unified Port District, I had the opportunity to work with Ninyo & Moore personnel on several important projects associated with the District's On-Call Services Agreements for Annual Environmental Site Investigation Services contract involving potentially contaminated District tidelands. An apropos example of Ninyo & Moore's timely, high quality environmental services was the Naval Training Center Inactive Landfill project.

The Naval Training Center Inactive Landfill project required that work be completed within a strict time frame dictated by the Least Tern nesting season and Port District's aggressive schedule. Ninyo & Moore's timely, efficient, and focused responses to our project needs, accurate assessment of this former landfill site, and technical liaison with regulators such as the California Integrated Waste Management Board, City of San Diego Local Enforcement Agency, and Regional Water Quality Control Board proved invaluable in keeping this high-profile, fast-track project on schedule. Ninyo & Moore's presentation of their findings to the Community Affairs Board was technical, yet easily understood and appropriately targeted to the broad background of the board and attending public. The technical knowledge of Ninyo & Moore's staff, ability to respond to multiple, complex task orders simultaneously while maintaining the overall focus of the project, experience and care in interactions with regulators and other stakeholders, reasonableness of costs, and overall dedication to quality client service are all to be commended. I would not hesitate to recommend Ninyo & Moore for any site assessment, remediation or other toxics-related projects.

If you have any questions, please feel free to contact me at 619-400-2792.

Sincerely

  
Rick Adcock  
Senior Environmental Specialist



SAN DIEGO  
INTERNATIONAL  
AIRPORT



***Ninyo & Moore***

Geotechnical and Environmental Sciences Consultants