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INTRODUCTION

Remediation Risk Management, Inc. (RRM) is a fully licensed and insured consulting firm that has provided environmental services for industry, small business, agriculture, and state and local governments throughout California, Oregon, and Alaska since 1991. RRM is a California-certified small business; Department of General Services reference number 23387. We rely on in-depth knowledge of environmental regulations, methods, and technologies to offer a complete range of environmental services. We are solution-oriented, cost-conscious, offer immediate response, and are dedicated to representing our client’s interests in environmental affairs. Our services include:

- Phase I ESA in accordance with ASTM Practice E 1527-00
- Phase II ESA in accordance with ASTM Practice E 1907-97
- Sampling and abatement of asbestos-containing materials, lead-based paint, bio-hazards, and hazardous materials
- Groundwater, soil, and soil gas contamination investigation and cleanup
- Preparation and implementation of work plans, corrective action plans, and remedial action plans
- Tier I and II risk-based corrective action plans
- Hazardous materials business plans and storm water pollution and prevention plans
- Remedial system design, installation, operation and maintenance, optimization, and closure
- Vapor Intrusion sampling, assessment, and mitigation
- Legal and regulatory support, liaison, and negotiation
- Business planning to integrate business and environmental operations
- Environmental case closure

Through our wholly owned division, Triton Construction, we offer:

- General engineering contracting, hazardous substances removal, and general building contracting
• Underground storage tank (UST) and aboveground storage tank (AST) removal and installation
• UST secondary containment installation and testing
• Fueling system design and permitting
• Construction management

CUSTOMER SERVICE

The customer is central to our business; the customer is not dependent on us. We are dependent on the customer. The customer is not an interruption in our work. The customer is the purpose of it. The customer is not an outsider in our business. The customer is part of it. We are not doing the customer a favor by serving their needs. The customer is doing us a favor by giving us an opportunity to do so.

Our mission is to work with our customers to address environmental challenges, and it is our goal to meet and exceed expectations. We involve committed, experienced, and knowledgeable staff; and employ a wide range of resources to achieve our mission and goal. First and foremost, we listen. We communicate. The foundation of our services is built on Commitment, Experience, Knowledge, and Resources.

Commitment allows us to provide clients with longstanding service from people who enjoy their work. We are responsive and industrious.

Experience provides certainty for our clients, allows us to achieve, and enables cost consciousness.

Knowledge allows us to freely practice and innovate.

Resources allow flexibility and cost effectiveness. We leverage technology, our equipment, and subcontractor relationships.

LOCATION AND SERVICE AREA

RRM has three office locations serving northern, central, and southern California. Our office in San Francisco is located at 145 Balceta Avenue; our office in Santa Cruz is located at 2560 Soquel Avenue, Suite 202; and our office in Murrieta, Riverside County, is located at 20540 Kyle Court.

REGULATORY RELATIONSHIPS

RRM has continues to develop strong working relationships with state and local agencies, and has done so for over 20 years. As a result, we provide a solid bridge between clients, stakeholders, regulatory agencies, and water districts. We regularly work with the State Water Resources Control Board, Regional Water Quality Control Boards, the California Department of Toxic Substances Control, air quality control and management districts, county and city sanitary sewer districts, county and city environmental health departments, and the UST Cleanup Fund. Our relationships add value to all the services we offer.
**SUB-CONTRACTORS**

The use of experienced subcontractors is necessary on virtually every environmental site assessment and remediation project. Through the years, RRM has developed solid relationships and procured competitively priced contracts with numerous vendors and service companies to provide the best possible service at the best price. Subcontractors that RRM teams with include companies that provide geophysical, drilling, analytical laboratory, and asbestos removal and lead-abatement services.

**COST AWARENESS**

RRM has the experience and knowledge to generate accurate cost estimates, manage budgets, and complete tasks within budget. The importance of accurate cost estimating cannot be overstated. Accurate cost estimates allow decision makers and stakeholders to assess risk and exercise proper judgment; and accurate cost estimates pave the way for successful budget management and within-budget accomplishment. We believe our client’s financial considerations are foremost in overcoming any environmental challenge, and that any solution needs to be aligned with a financial plan.

Regarding cost, our rates are very competitive and flexible, and we complete projects at significant cost savings through our established network of cost-effective vendors and subcontractors. We work with our customers to provide the lowest possible cost; provide services according to time and materials not-to-exceed cost arrangements and/or fixed cost agreements; and we remain committed to customer cost-benefit. We recognize that for some public sector clients, prevailing wage estimates and job completion are required. We have successfully completed prevailing wage jobs that included rigorous administrative and accounting processes.

**STAFF**

Our commitment, experience, and knowledge enable us to provide superior service. Commitment is exemplified by the fact that many of our employees have completed more than 10 years of service with RRM. Experience and knowledge are established by the fact that most of our employees have between 7 and 25 years of experience in environmental services. As an organization, our commitment, experience, and knowledge provide continuity to all our services. Our services and accomplishments are described in the following section; bios for central RRM personnel are provided below.

**Matt Paulus – Professional Geologist**

Matt Paulus is a professional geologist at RRM. He provides professional project oversight for environmental investigation and remediation projects, and plays a key role in liaison with regulatory agencies. He also provides internal consultation on a variety of projects. Mr. Paulus has 17 years of experience in environmental investigation, remediation, and project management. He specializes in environmental investigation planning, work plan preparation and implementation, and reporting; and has a keen ability to incorporate the regulatory community in providing outcomes that benefit all parties. Mr. Paulus is also one of our primary field geologists. He has been with RRM for 13 years.
Mr. Paulus holds a Bachelor’s degree in Geology and is a registered professional geologist with the State of California. He also holds a 40-hour HAZWOPER Safety Training certificate and annual 8-hour Refresher training certificates.

**Robert Giattino – Senior Engineer**

Robert Giattino is Vice President of Operations and Senior Engineer at RRM. In this role, he is responsible for general management, administration, health and safety, and engineering. He also provides internal consultation on a variety of projects and directly manages remediation projects. Mr. Giattino has 27 years of experience in environmental investigation, remediation, and project management. His work has focused on remedial alternatives evaluation, technologies testing, system design, corrective action planning, remediation operation and maintenance, and regulatory compliance management. He specializes in providing inventive solutions to environmental challenges through detailed data analyses and solution-oriented application of results. He has been with RRM for 18 years.

Mr. Giattino holds a Bachelor’s degree in Chemical Engineering and is a registered professional engineer with the State of California. He also holds a 40-hour HAZWOPER Safety Training certificate, annual 8-hour Refresher training certificates, and annual 8-hour Supervisor Training certificates. He has continuing education credits in bioremediation of hazardous waste, assessment and management of MTBE-impacted sites, and small water system operation and maintenance.

Matt Kaempf is Vice President of Field Services at RRM. He is well seasoned in all facets of environmental construction and contracting management, cost estimating, overall project management, and environmental project liaison. Mr. Kaempf has 19 years of experience in environmental fieldwork relating to investigation and remediation, project budget control, and construction. He specializes in planning and managing remediation construction and earthwork; and has been with RRM for 18 years.

Mr. Kaempf holds a Bachelor’s degree in Environmental Studies, a 40-hour HAZWOPER Safety Training certificate, and annual 8-hour Refresher training certificates. Mr. Kaempf is also a California-licensed general engineering contractor with hazardous materials certification.

**Julie Avanto – Civil Engineer**

Julie Avanto is a Project Engineer at RRM. In this role, she is responsible for general project management, engineering, and construction. She also provides internal consultation on a variety of environmental and water quality projects. Ms. Avanto has 15 years of experience in the environmental industry. Her work has focused on remediation systems design, technologies testing, corrective action planning, and remedial system operation and maintenance. He specializes in providing inventive solutions to environmental challenges through detailed data analyses and solution-oriented application of results. He has been with RRM for 10 years.

Ms. Avanto holds a bachelor’s degree in Environmental Engineering and is a registered professional civil engineer with the State of California. She also holds a 40-hour HAZWOPER Safety Training certificate and annual 8-hour Refresher training certificates.
**Matt Kaempf – Vice President Field Services**

Matt Kaempf is Vice President of Field Services at RRM. He is well seasoned in all facets of environmental construction and contracting management, cost estimating, overall project management, and environmental project liaison. Mr. Kaempf has 19 years of experience in environmental fieldwork relating to investigation and remediation, project budget control, and construction. He specializes in planning and managing remediation construction and earthwork; and has been with RRM for 18 years.

Mr. Kaempf holds a Bachelor’s degree in Environmental Studies, a 40-hour HAZWOPER Safety Training certificate, and annual 8-hour Refresher training certificates. Mr. Kaempf is also a California-licensed general engineering contractor with hazardous materials certification.

**Cate Townsend – Project Geologist**

Cate Townsend is a project geologist at RRM with 13 years of professional experience in environmental consulting, geology, and field geology. She has been with RRM for 11 years. Ms. Townsend’s work at RRM includes project management, all facets of environmental field investigation, preparation of Phase I Environmental Site Assessments, and preparation of environmental investigation reports. As a field geologist, Ms. Townsend oversees small and large-scale remedial excavations; well installation and destruction; soil, soil gas, and groundwater sampling; and onsite regulatory liaison. Ms. Townsend is also RRM’s insurance claims specialist.

Mr. Townsend holds a Bachelor’s degree in Earth Science, a 40-hour HAZWOPER Safety Training certificate, and annual 8-hour Refresher training certificates.

**ACCOMPLISHMENTS**

RRM has provided environmental services to clients across the public and private sector spectrum. Clients include: Barry Swenson Builder, Battelle Corporation, Benequity Properties, BP Oil, CalTrans, ChevronTexaco, City of Burlingame, City of Santa Cruz, City of Sunnyvale, Darrow Talbot Realtors, Dollar/Thrifty Auto Group, Exxon, First National Bank, City of San Jose, Sambrailo Land and Cattle Company, Granite Rock, Valero Energy Corporation, Trust for Public Land, Pajaro Valley School District, and Kelleher & Associates. The following provides specific project summaries and client contacts.

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<th>Services</th>
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| Regulatory and stakeholder negotiation, groundwater and soil investigation concerning a commingled plume of petroleum hydrocarbons and volatile organic compounds, remediation system design, permitting, construction, operation, and maintenance. Remediation also included excavation and dual phase extraction via mobile treatment unit. Groundwater monitoring and reporting. Commingled plume UST Cleanup Fund site in Watsonville. Project ongoing since 1997; $1.2 million in funding | Mr. Steve Palmisano  
City of Watsonville  
P.O. Box 50000  
Watsonville, CA 95077  
831-768-3176  
SPALMISANO@ci.watsonville. |
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| Multiple Phase 1 and Phase 2 projects. Soil and groundwater investigation and remediation for Redwood City site concerning petroleum hydrocarbons, creosote, and volatile organic compounds. Groundwater monitoring and reporting at Redwood City site. All permitting and compliance monitoring. Redwood City project initiated in 2002 and closed in 2011 with sale of property to the City of Redwood City; approximately $150 thousand in funding. | Mr. Marshall Hydorn  
Cassidy Turley BT Commercial  
1350 Bayshore Highway, Suite 900  
Burlingame, CA 94010  
650-347-3700  
mhydorn@ctbt.com |
| Soil and groundwater investigation, remediation via excavation and groundwater extraction and treatment, and soil gas investigation beneath building. Work focused on petroleum hydrocarbon impact. Remediation system design permitting, construction, operation, and maintenance. Remediation also included dual phase extraction using a mobile treatment unit. Project coordinated through law firm; UST Cleanup Fund site in Richmond. Project is ongoing, approximately $800 thousand in funding. | Mr. Michael Brown  
Brown and Sullivan  
1051 Pacific Marina, #101  
Alameda, CA 94501  
510-521-1211  
MichaelBrown@brown-sullivan.com |
| Providing environmental consulting and engineering services at two City of San Jose fire stations with leaking underground fuel tanks (LUFT), and an additional LUFT site owned by the City, since 2005. Services have included investigation and assessment, monitoring, and remedial action. Recently completed a site assessment at a City owned property with commingled solvents and hydrocarbons in soil and groundwater in order to facilitate site redevelopment activities. Also have been providing monitoring and engineering services for three closed municipal landfills owned by the City. Activities include groundwater monitoring, leachate and dissolved contaminant plume stability evaluation, groundwater treatment system design, operation, and maintenance, and additional investigation and assessment. Provided Phase 2 services on an as needed basis, including quick turn around situations, to facilitate ongoing City projects. Over $500 thousand in funding, projects are ongoing on multiple year contract. | Mr. Geoff Blair  
City of San Jose  
Department of Environmental Services  
200 East Santa Clara Street, 10th Floor  
San Jose, California 95113  
408-975-2576  
Geoffrey.Blair@sanjoseca.gov |
| Soil and groundwater investigation and remediation for petroleum hydrocarbon and MIBE impact. Remediation included groundwater extraction and treatment using a bioreactor prior to discharge to the sanitary sewer. Remediation system was designed, permitted, constructed, operated and maintained. Groundwater monitoring and reporting. School district had UST Cleanup Fund claim that was inactive; RRM gained activation of the Claim and reimbursement of past and current charges; and continues to manage the UST Cleanup Fund reimbursement. Funding in excess of $300 thousand | Mr. Richard Mullikin  
Pajaro Valley Unified School District  
249 Green Valley Road  
Watsonville, CA 95076  
831-786-2100 ext 2380  
Richard_Mullikin@pvusd.net |
| Soil, soil gas, and groundwater investigation and remediation for a variety of environmental impact cases. Investigation work included soil boring, sampling and analyses; groundwater and soil gas well installation, sampling and media analyses; and routine groundwater monitoring. Remediation included groundwater extraction and treatment, soil vapor extraction and treatment, are sparging, metals stabilization, excavation, dual phase extraction, bio-enhancement, chemical oxidation injection, and thermal desorption. Remediation projects wholly designed, permitted, constructed, operated and maintained. $750,000/year aggregate budgets for a variety of annual work. | Mr. Brian Kelleher  
Kelleher and Associates  
5655 Silver Creek Valley Road  
San Jose, California 95138  
408-677-3307  
bkelleher@ix.netcom.com |

Project summaries illustrating the scope of our services are provided in Attachment A.
RATE SCHEDULE

A rate schedule for services is provided in Attachment B. To the best of our ability, we seek to perform services and accomplish work objectives within the estimated costs agreed upon for specific jobs. Estimated costs are based on RRM’s experience and best judgment. It is understood that successful completion of services within the estimated cost can be influenced by changes in work scope and schedule; consequently, RRM remains in close contact with clients. RRM provides invoices on a timely basis as agreed upon with the client; and includes work narratives and schedule of all related time and material charges with each invoice.

RRM warrants that services will be performed and completed in a professional, thorough, and cost-effective manner using its expertise and in accordance with the degree of skill, practice, and judgment expected for our industry. RRM will comply with all applicable local, state and federal ordinances, laws, orders, rules, and regulations.

LICENSES AND INSURANCE

We are fully licensed and insured to complete all phases of an environmental project, and provide certainty to our clients. Our documentation is provided in Attachment C.
REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MODIFICATION

At various sites under remediation, we have reactivated or improved remedial system performance, provided operation and maintenance services, or brought system operations back into compliance with discharge permits. For example, we assisted the City of San Jose to rehabilitate a groundwater recovery and treatment system that operated at one of their closed landfill sites. The system was used to collect groundwater and leachate from beneath the landfill and treat the extracted liquid before discharge to a nearby stream under a National Pollutant Discharge Elimination System (NPDES) permit. Treatment included liquid/liquid separation, air stripping, and carbon treatment of water and air prior to discharge. We assessed operation of the system and enacted several modifications to streamline operation, simplify compliance with discharge permits, and save money. We eliminated the air stripping system, separated the leachate and groundwater streams, and eliminated liquid/liquid separation. Air stripping was eliminated based on an evaluation of cost for liquid-use carbon versus the cost of air stripping followed by liquid-use carbon; separation of leachate and groundwater allowed partial use of the sanitary sewer system; and liquid/liquid separation was eliminated because separate phase liquid was no longer being extracted with groundwater. The system was modified so that only liquid-use carbon treatment was used prior to discharge. The modification simplified compliance sampling, lowered power costs, and reduced operation and maintenance requirements.

FUEL TERMINAL DIESEL SPILL

At a pipeline fuel terminal operated by Chevron Corporation, a malfunction in a valve header allowed several thousand gallons of diesel to enter the site’s emergency spill retention basin. Once the diesel was recovered from the basin, it was discovered that diesel had leaked from the basin and was partially trapped between the basin liner and the earthen floor of the retaining basin. We mounted an effort to vacuum extract diesel from perforations made in the basin liner, investigated and found the leaking seam that allowed diesel to leak from the liner, and worked with a contractor to repair the liner. We also conducted an investigation to delineate the extent of diesel impact to soil and groundwater, and initiated remediation to remove diesel from strategically placed extraction wells. Recovered diesel was sent back to the refinery as transmix for recycling.

PIPELINE REPAIR CONSTRUCTION DEWATERING

After a product pipeline was discovered to have impacted soils and groundwater Chevron Corporation relied on us to construct and operate a groundwater treatment system in Tracy, California. The system operated for 24 hour-a-day, and we remained onsite to provide day and night service. The system included thirty groundwater extraction wells with submersible electric pumps, conveyance piping, ten 20,000-gallon steel tanks, diesel transfer pumps, a 200-kilowatt generator, four 20,000 pound carbon vessels, and secondary containment berms. As part of the project, our staff received additional safety training to comply with Chevron standards. Water was treated and discharged according to cleanup standards and the pipeline was successfully repaired.
PIPEDLINE HYDROTEST WATER TREATMENT AND DISPOSAL

As part of pipeline maintenance, companies routinely hydrotest pipelines that are used to transport refined fuel products. Water used for hydrotesting becomes impacted with petroleum hydrocarbon fuel components and additives. To assist Chevron Corporation with disposal of hydrotest water, we devised a plan whereby impacted water would be routed to a pipeline terminal, stored for treatment in an unused product tank, treated using activated carbon, and discharged to the storm drain under a National Pollutant Discharge Elimination System (NPDES) permit. Treated water was contained in a storm water/emergency spill retention basin for verification testing prior to discharge. Methyl tertiary butyl ether (MtBE) posed a challenge for treatment and discharge. After treatment, trace levels of MtBE were detected in retained water and recent regulatory policy dictated complete removal of MtBE. We took advantage of the retention basin discharge pumping system to create a spray system that eliminated MtBE and kept the retained water from becoming an odor nuisance. The MtBE challenge was overcome and treated discharge was allowed to enter the storm drain.

SANTA CRUZ COUNTY LEAD CLEANUP

The Charles Derby Small Bore Range was a 1-acre area located in Santa Cruz County. The range was located on a flat area within a ravine; a nearby intermittent creek directs drainage from the area into the Santa Cruz Municipal Harbor, which in turn drains into the Monterey Bay Marine Sanctuary. The range had operated since the early 1950s and was used by law enforcement agencies and private gun owners for rifle and pistol target practice. It was estimated that approximately 200,000 rounds per year of ammunition were fired at the range and until approximately 1990 all the ammunition was lead. We worked with the City of Santa Cruz Parks and Recreation to assess the gun range and develop site assessment and remedial action plans acceptable to the Department of Toxics Substance Control (DTSC), Regional Water Quality Control Board (RWQCB) and County of Santa Cruz Environmental Health Department (County). As part of the Phase II assessment, we drilled over one hundred soil borings and collected numerous grab-groundwater and surface water samples. Using the data, RRM prepared health and ecological risk assessments, developed remedial action cleanup goals, and prepared a Remedial Action Work Plan (RAW) for site cleanup. The RAW also included a soils management plan and site health and safety plan. The RAW was approved by the oversight agencies and successfully implemented. After completion of the work, the property was incorporated into the nearby county park.

HAZARDOUS WASTE MANAGEMENT FOR CONSTRUCTION IN THE SAN FRANCISCO BAY AREA

To prepare for construction of a Lowe’s retail store in South San Francisco, previous improvements at the site were removed, and preliminary grading and trenching occurred. Analyses of soil samples from borings at the site revealed petroleum hydrocarbon impact and concentrations of California Code of Regulations CAM-17 heavy metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc). We provided a health and safety plan addendum for the site that focused on exposure to heavy metals and conducted on-site air monitoring as part of plan implementation. In another case, we worked with a primary contractor to provided characterization of soils handled during a seismic upgrade to the Bay Area Rapid
Transportation system. We coordinated with the stakeholders to pre-profile soils in place as an alternative to the original plan that called for off haul and disposal. Our pre-profiling sample plan resulted in on-site reuse for all soils, providing significant time and cost savings to the client.

**TRANSPORTATION FACILITY STORM WATER POLLUTION PREVENTION**

The State Water Resources Control Board (SWRCB) requires industrial facilities, such as recycling yards, mining operations, and transportation facilities, to actively monitor the quality of their site storm water runoff that flows into nearby surface waters under a general discharge permit. At a transportation facility in San Jose that stores and maintains large tour buses, storm water runoff enters the San Francisco Bay from two point sources within the facility's parking area. Under the general provisions of the facility's discharge permit, monthly observation of each point source and samples of storm water runoff from each point source are required twice per year during a heavy precipitation event. Concentrations of oil and grease, gasoline, diesel, and other petroleum-based contaminants present within the samples must be within acceptable levels and the findings must be presented to the regional SWRCB in an annual report. The facility operators save time and limit cost by using our experienced monitoring and consultation services. They recognize we provide more efficient liaison with local and state regulatory agencies, efficient labor and materials costs, and discounted laboratory fees.

**BURLINGAME DRY CLEANER**

Chlorinated solvents were discovered beneath a San Francisco Bay Area dry cleaner during a Phase II investigation that was instigated as part of financing the property. We used shaft excavation to remove soil with high concentrations of tetrachloroethylene (PCE) from the interior of the dry cleaners building. An area approximately 20 feet by 20 feet was drilled down to 25 feet below grade using an excavator-mounted 24-inch diameter low-mast drill capable of drilling to a depth of 50 feet. The bore locations were staggered so that no two adjacent locations were drilled consecutively. Bores were back filled with a sand slurry control density fill and allowed to set-up over night. Areas surrounding the previously drilled and backfilled bores were then drilled out until the entire footprint had been removed. Over one hundred slightly overlapping bores were drilled and back filled within a week. Excavated soil was carted outside the building through an opening created for the work and placed into 20 cubic yard roll-off bins. The soil was disposed as RCRA hazardous waste; soil with extremely high concentrations required out-of-state treatment. Diesel equipment was outfitted with scrubber technology to minimize exhaust hazards and an extensive ventilation system was used to generate adequate fresh air exchange. This methodology allowed for deep indoor excavation of source material without the need for shoring.

**UST CASES AND UST FUND CASES**

We have worked at numerous petroleum hydrocarbon underground storage tank (UST) sites for small businesses and large commercial clients such as Chevron and Valero. When available, projects have been funded by the California Underground Storage Tank Fund (Fund), where we have been responsible for all facets of work including reimbursement from the Fund. Services included regulatory compliance; groundwater monitoring; remediation system design, permitting, installation, and operation and
maintenance; all manner of reporting; verification monitoring including soil gas and vapor intrusion assessment; public health and environmental risk evaluations; site closure; and site redevelopment.

**CALIFORNIA UNDERGROUND STORAGE TANK (UST) FUND**

RRM has extensive experience in completing project work funded by the California Underground Storage Tank (UST) Insurance Fund. We work closely with responsible parties, regulatory oversight staff, and UST Fund staff to assure costs are reimbursed and compliance is maintained. For most of our UST Fund clients, we handle all facets of budget approval and reimbursement. We have handled UST Fund projects for companies, school districts, residential property owners, and commingled plume responsible parties.

**INSURANCE FUNDED INVESTIGATION AND CLEANUP**

At a site in Hollister, California impacted with perchlorate and solvents, we assisted the responsible party with investigation and cleanup. The work was funded under an insurance policy issued by American International Group, Inc. (AIG). As a result, all work was reviewed and approved by AIG staff. Work at the site included extensive subsurface investigation of multiple water bearing zone; excavation of impacted soil; installation, operation and maintenance of a groundwater extraction system and soil vapor extraction system; injection pilot testing; remediation planning and scale-up; operation and maintenance of multiple wellhead treatment systems; and regulatory and public liaison. Communication and budget oversight were key factors in the success of the team.

**CEMENT DISCHARGE**

A contractor was accused of rinsing cement off his truck and allowing the rinse water to enter a storm drain operated by the County of Santa Clara. The contractor faced a significant fine. Counsel for the contractor retained us to review the case and provide support in a preliminary hearing. We visited the location of discharge, noted observations, and researched local water quality. The case against the contractor relied on pH readings collected by the inspector. We determined that the measurement recorded by the inspector was within the range of values that could be expected for water from the tap, and that the method of measuring pH used by the inspector did not provide the resolution necessary to differentiate the water in the storm drain from ordinary tap water. As a result, the mediator dismissed the case against the contractor.

**ALAMEDA NAVAL AIR STATION DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION (BRAC)**

We assisted the BRAC team during the transition of the Alameda Naval Air Station by providing third-party review of reports generated by consults retained by the Navy. As part of our work, we summarized reports in plain language, met with stakeholders to discuss findings, provided recommendations regarding transition tasks, and attended public meetings to present findings and answer questions.
CHEVRON FILE REVIEW

To provide third-party litigation support for a major oil company, we reviewed environmental case records to identify potential discrepancies in project histories. Information was organized in a database for later use by the litigation team. Importantly, time and money was saved because unlike paralegal support, we know what to look for, we can interpret results on the fly, we can quickly judge the significance and relevance of information, and we understand the environmental case process. Our work included meetings with the legal team and deposition testimony.

SAN JOSE REDEVELOPMENT AGENCY

The City of San Jose Redevelopment Agency retained RRM to provide environmental engineering, geology consulting, and related construction and hazardous materials removal services for the North First Street Tank Pull Project. The site is a City of San Jose Parking lot that was formerly occupied by a gasoline service station on the lower third of the parcel. The Redevelopment Agency, the owner of the site, had performed Phase I and II environmental site assessments and a detailed geophysical survey to prepare the property for sale. The prospective buyer, a developer, plans to construct a raised parking structure and underground parking garage over the entire footprint of the parcel. Results of the Phase I and II site assessment and geophysical survey identified one underground storage tank (UST) of unknown size, sporadic piping runs, and other magnetic anomalies that needed to be excavated and removed before the property could be sold.

RRM broke ground on schedule and during the first day of work discovered two additional USTs, a hydraulic car hoist, several hundred linear feet of product piping, and a buried drum, in addition to the single UST previously identified. RRM immediately informed the client that two USTs were filled with concrete, one with oily water, and the buried drum was half full of oily soil and sludge. After obtaining approval from the client, RRM proceeded to successfully perform all sampling, profiling, excavation, removal, transportation, disposal, and backfill activities to complete site work. Throughout the course of the project, RRM effectively communicated with nearby property owners and residences to allay concerns about the potentially hazardous nature of work at the site. During very inclement weather, RRM staff worked efficiently alongside the City of San Jose project engineer, the developer’s consulting firm, and multiple City agencies. The project was completed on schedule and to the full satisfaction of the client.

CITY OF SAN JOSE

The City of San Jose had been monitoring groundwater conditions at Singleton Landfill for decades. When the San Francisco Regional Water Quality Control Board (RWQCB) asked for a more detailed analysis of some recent and historical data, the request was beyond the City’s resources. The City retained RRM to help comply with the RWQCB’s request. To address the RWQCB request, we completed an in-depth statistical analysis of historical groundwater data. In addition, we provided groundwater sampling and monitoring services for the landfill. With our understanding of the site, we were able to reduce operating costs by achieving modifications to the sampling, monitoring, and reporting requirements mandated by the RWQCB.
PAJARO VALLEY UNIFIED SCHOOL DISTRICT

A sizable groundwater plume consisting of methyl tertiary butyl ether (MtBE) was discovered while investigating a gasoline release at the Pajaro Valley School District's maintenance yard. We assisted the district by delineating the MtBE in shallow and deep groundwater bearing zones, and by installing and operating a groundwater extraction and treatment system. The treatment system consisted of a bioreactor and series-connected carbon units. Treated groundwater was discharged to the storm drain under a National Pollution Discharge Elimination System (NPDES) permit. Importantly, we were able to secure funding for the school district from the California Underground Storage Tank (UST) Insurance Fund so that the district was reimbursed for past and current work.

REAL ESTATE TRANSACTIONS

Various clients use our services as part of their effort to sell, purchase, finance, or plan an investment. We have provided Phase I and Phase II services for financing and property development; research and discovery services for preliminary assessment of development potential and financing; and indoor air sampling and analyses to assess potential threats posed by nearby contamination. We have also provided property maintenance services for properties that require upfront assessment and maintenance to prevent future environmental problems and reduce liability concerns and insurance costs. Recently, we assisted a client who found there were no records following removal of an underground storage tank (UST) by previous tenants and submittal of a report to the regulatory oversight agency. The UST removal occurred 18 years prior to our review of the case, and the report indicated gasoline was detected in soil samples collected at the time of UST removal. Because of our past experience, we were able to piece together information provided in the report and on a handwritten note attached to the report to argue that the oversight agency intended to close the environmental case. We crafted a letter to the oversight agency discussing our findings and requested the agency acknowledge their intention to close the environmental case. No further action was granted by the agency shortly after their review of our letter.

SMALL DRINKING WATER SYSTEMS COMPLIANCE

A small water district in the Central Coast Mountains, received a letter of noncompliance from Santa Cruz County Department of Health because of concerns with the surface water treatment system and disinfection system. We provided internal and external support to the water district, including meeting with the oversight agency representative to address the concerns. To the extent possible, we enabled the district, thereby limiting their cost for compliance. As part of our services, we developed a compliance plan, identified equipment vendors, developed engineering estimates, and helped the district in decision-making. In another case, we designed a slow sand water treatment system to provide drinking water for a small number of connections. The water supply emanated from a water diversion on a small creek. Design of a slow sand filter was proposed because it could operate remotely without electrical power and is an approved filtration technology according to Title 22 of the California Code of Regulations.
HECKER PASS MARKET

A gasoline release from an underground storage tank (UST) at a rural corner store/service station in Santa Cruz County, California resulted in impacted groundwater. Of major concern was a dissolved plume of methyl tertiary butyl ether (MtBE). The MtBE plume extended over 1,200 feet and impacted a domestic supply well that provided water to several households. The MtBE plume was delineated using groundwater sampling via temporary Geoprobe® and diffusive sampling. With an understanding of the impact plume, a closed-loop groundwater extraction and sparge barrier system was designed, constructed, and operated. Additionally, drinking water was temporarily supplied to households whose water supply was impacted, while a replacement water supply well was located and constructed, the distribution system was replaced, and the newly installed water supply system was activated.

SAMBRALO LAND AND CATTLE COMPANY PROPERTY

Two underground storage tanks (USTs) containing diesel and gasoline were used to supply vehicles and trucks for a small agricultural hauling company in Aromas, California. Investigation at the time of tank removal revealed gasoline-impacted soil and groundwater. Using a turnkey approach, impacted soil was excavated to the extent possible and biosparging (air injected into groundwater) was implemented to initiate groundwater restoration. Semiannual groundwater monitoring and sampling was also implemented as requested by the oversight agency. Importantly, it was shown that sparging could be accomplished without vacuum extraction of soil gas due to the enhanced capacity of the unsaturated zone to degrade gasoline concentrations, thus limiting cost. Since activation of the biosparging system, gasoline and benzene concentrations in groundwater have decreased by 88 percent and 96 percent, respectively. The Central Coast Regional Water Quality Control Board is in the process of closing the environmental case.

BREYCOVICH FARM

An underground storage tank was removed from a farmhouse property in Watsonville, California. The tank was used to store gasoline. Gasoline-impacted soil and groundwater were discovered during the tank removal, and investigation commenced. Gasoline components including methyl tertiary butyl ether (MtBE) were identified in soil and groundwater samples. Investigation was completed to discern the magnitude and extent of impact; and a cleanup plan was implemented. Since MtBE-affected groundwater was a primary concern, groundwater extraction with ozone treatment was deployed for cleanup. Groundwater was extracted from the MtBE plume using an array of wells specified through groundwater modeling. Extracted groundwater was treated using ozone, and the treated mixture of groundwater, ozone, and dissolved oxygen was re-injected into a well situated within the core of the MtBE plume. After a period of operation and verification monitoring that included soil and soil gas analyses, the Central Coast Regional Water Quality Control Board closed the site.

WOODSIDE CALIFORNIA RESIDENCE

Soil and groundwater at a residence in Woodside, California were impacted by fuel oil. The source of fuel oil was a fuel oil-fired boiler that was located in the basement of the house. Investigation was completed to discern the composition, magnitude, and extent of impact; and a cleanup plan was implemented. Soil
vapor extraction was used to reduce impact concentrations in soil and groundwater, and concrete from the former location of the boiler was removed. A concrete vault that contained the remains of the boiler was discovered beneath the concrete slab. The vault also contained fuel oil that had leaked from the preheater tank. Work was done to remove the fuel oil and boiler from the basement and replace the concrete slab. A case closure letter was issued by the County regulatory agency upon completion of work.
B

RATE SCHEDULE
## RRM Rate Schedule

<table>
<thead>
<tr>
<th>Position Title</th>
<th>Rate/Hour</th>
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<tbody>
<tr>
<td>Expert Witness</td>
<td>$170</td>
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<tr>
<td>Principal Engineer</td>
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<td>Project Support</td>
<td>$55</td>
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### Items at no charge
- Phone
- Postage
- Computer time
- Fax charges

### Travel

Mileage charge for a personal auto or small truck is $0.65/mile, and $0.75/mile for a large truck. Per Diem is area-specific, but shall not exceed reasonable lodging cost plus $35.00/day

### Subcontracted services

Subcontracted services will be billed at cost plus 10%.

### Miscellaneous charges

Charges for select outside services and expenses including, but not limited to, permit fees, overnight delivery carriers, construction materials, rented vehicles and equipment, transportation on public carriers, and shipping charges will be billed at cost plus 10%.
### RRM & Triton - #23387

#### Supplier Profile

**Legal Business Name**: RRM  
**Doing Business As**: RRM & Triton  
**Address**: 2560 SOQUEL AVE #202, SANTA CRUZ, CA 95062  
**Phone**: (831) 475-8141  
**Fax**: (831) 475-8249  
**Email**: cab@rrmsc.com  
**Web Page**: http://www.rrmsc.com  
**Business Types**: Construction, Service  
**Service Areas**: Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Imperial, Inyo, Kern, Kings, Lake, Lassen, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo, Yuba,  
**Keywords**: engineering services business consulting n.e.c. general engineering building contractor hazardous substance removal certification

#### Construction License Types
- A - General Engineering  
- B - General Building Contractor  
- HAZ - Hazardous Substance Removal Certification

#### Classifications
- 711017 - Extraction  
- 711228 - Well monitoring services  
- 711411 - Well plugging and abandonment services  
- 771015 - Environmental impact assessment  
- 771216 - Soil pollution  
- 771217 - Water pollution  
- 811018 - Chemical engineering  
- 811517 - Geology

### Active Certifications

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**Contractor's License Detail - License # 693807**

**DISCLAIMER:** A license status check provides information taken from the CSLB license database. Before relying on this information, you should be aware of the following limitations.

- CSLB complaint disclosure is restricted by law (B&P 7124.6) If this entity is subject to public complaint disclosure, a link for complaint disclosure will appear below. Click on the link or button to obtain complaint and/or legal action information.

- Per B&P 7071.17, only construction related civil judgments reported to the CSLB are disclosed.

- Arbitrations are not listed unless the contractor fails to comply with the terms of the arbitration.

- Due to workload, there may be relevant information that has not yet been entered onto the Board's license database.

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<td></td>
<td>REMEDIATION RISK MANAGEMENT INC</td>
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<td></td>
<td>DBA TRITON CONSTRUCTION</td>
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<td>(831) 475-8141</td>
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<tr>
<td>Address</td>
<td>2560 SOQUEL AVENUE 202</td>
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<tr>
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<td>SANTA CRUZ, CA 95062</td>
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<td>HAZARDOUS SUBSTANCES REMOVAL</td>
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<td>ASB</td>
<td>ASBESTOS - (for bidding purposes only)</td>
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<tr>
<td><strong>CONTRACTOR'S BOND</strong></td>
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<td><strong>Bond Number</strong></td>
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<td><strong>Bond Amount</strong></td>
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### Bonding

**Contractor's Bond History**

**Effective Date:** 01/01/2007

#### BOND OF QUALIFYING INDIVIDUAL

1. The Responsible Managing Officer (RMO) PEOPLES CHRISTOPHER JOSEPH certified that he/she owns 10 percent or more of the voting stock/equity of the corporation. A bond of qualifying individual is **not** required.

   **Effective Date:** 08/03/1994

---

### Workers' Compensation

**Policy Number:** WC001113001

**Effective Date:** 05/01/2012

**Expire Date:** 05/01/2014

**Workers' Compensation History**

Personnel listed on this license (current or disassociated) are listed on other licenses.

<table>
<thead>
<tr>
<th>Personnel List</th>
<th>Other Licenses</th>
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HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.

Qualifier: CHRISTOPHER JOESPH PEOPLES
License No.: 693807
Business Name: REMEDIATION RISK MANAGEMENT, INC.

WITNESS my hand and official seal this 13TH day of SEPTEMBER 1994

Registrar of Contractors

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.
**CERTIFICATE OF LIABILITY INSURANCE**

**Policy Number:** SISIEIL70035613

**Date Enterd:** 06/05/2013

**Date (MM/DD/YYYY):** 7/10/2013

---

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

---

**PRODUCER**

KING INSURANCE SERVICES

7397 Soquel Dr

Aptos, CA 95003

---

**INSURED**

Remediation Risk Management, Inc. dba

Triton Construction

2560 Soquel Ave #202

Santa Cruz, CA 95062

---

**COVERAGES**

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<th>REVISION NUMBER:</th>
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**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)**

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**CERTIFICATE HOLDER**

FOR INSURANCE PURPOSES

---

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

---

**AUTHORIZED REPRESENTATIVE**

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