RESOLUTION - ACTION REQUESTED 2014-602

MEETING: November 25, 2014

TO: The Board of Supervisors

FROM: Doug Wilson, Interim Public Works Director

RE: Approve a Professional Services Agreement with Advanced Reliability Technologies

RECOMMENDATION AND JUSTIFICATION:
Approve a Professional Services Agreement with Advanced Reliability Technologies (ART) LLC for Consulting Services for the Yosemite West Wastewater Treatment Plant in the not-to-exceed of amount of $18,000, and authorize the Board of Supervisors Chair to sign the Agreement.

Public Works staff have been working diligently to respond to a Notice of Violation (NOV) from the Regional Water Quality Control Board at the Yosemite West Wastewater Treatment Plant (YWWTP). The NOV requires the County to submit various reports, make improvements to the YWWTP and to monitor the performance of the Sewer Plant to ensure that the proper treatment of the sewage is actually occurring.

In December 2013, the Board approved an Agreement with ART in the not-to-exceed amount of $25,000. That Agreement expired on June 30, 2014, and there was a balance in the amount of $18,000 of unused funds on that Agreement. Public Works thought it would be best to enter into a new Agreement rather than request an extension on the previous Agreement.

ART has been making significant progress on the project, but it includes gathering substantial information, including consultation with the system designers and contractors. Progress may be slowed during the winter months.

BACKGROUND AND HISTORY OF BOARD ACTIONS:
On December 17, 2013, Resolution #2013-570, was approved authorizing an agreement in the not-to-exceed amount of $25,000 for consulting services for the Yosemite West Wastewater Treatment Plant (YWWTP).

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:
The Board could choose not to approve the Agreement. The result of this action would be to inhibit the ability to comply with Regional Water Quality Control Board mandated improvements unless another consultant is identified.
FINANCIAL IMPACT:
Funding is available in the Yosemite West Maintenance District Sewer budget
322-091-863-0418 (Professional Services)

ATTACHMENTS:
ART Professional Services Agreement 15-024 (PDF)

CAO RECOMMENDATION
Requested Action Recommended

Mary Hudson
Mary Hudson, Interim CAO 11/19/2014

RESULT: ADOPTED BY CONSENT VOTE [UNANIMOUS]
MOVER: Janet Bibby, District III Supervisor
SECONDER: John Carrier, District V Supervisor
AYES: Stetson, Jones, Bibby, Cann, Carrier
TO: DOUG WILSON, Interim Public Works Director
FROM: RENE’ LaROCHE, Clerk of the Board
SUBJECT: Approve a Professional Services Agreement with Advanced Reliability Technologies LLC for Consulting Services for the Yosemite West Wastewater Treatment Plant in the Not-To-Exceed Amount of $18,000, and Authorize the Board of Supervisors Chair to Sign the Agreement

Resolution: 14-602

THE BOARD OF SUPERVISORS OF MARIPOSA COUNTY, CALIFORNIA
ADOPTED THIS Order on November 25, 2014

ACTION AND VOTE:

CA22. Public Works RES-2014-602
Approve a Professional Services Agreement with Advanced Reliability Technologies LLC for Consulting Services for the Yosemite West Wastewater Treatment Plant in the Not-To-Exceed Amount of $18,000, and Authorize the Board of Supervisors Chair to Sign the Agreement

Regarding CA22, Supervisor Carrier inquired if they have looked at the water biology, and have come up with a timeline on what it is going to take to get the settling ponds redesigned. Mr. Wilson responded, noting that they have accomplished a lot including the water biology. He also noted that they have gathered a lot of detail about how the system is working versus the design, and that there are filters in place. Mr. Wilson also remarked that, at this point, they believe that it needs to have an entirely new pond, but that it can probably hit capacity with the system as it is if everything is functioning properly. He also cautioned that the issue may evolve as they get more and more of the original designers and builders back in the loop and get more information; stated that this will be an ongoing process for quite some time; noted that they will be slowed down through the winter months and are not expecting to accomplish much between now and spring; and remarked that they are probably looking at next fall before everything is working as it should be. Supervisor Carrier noted that one of the terms of the contract states that a formal service quotation will be provided upon the request of the Public Works Director, and he requested that Mr. Wilson make such a request. Mr. Wilson affirmed.
PROFESSIONAL SERVICE AGREEMENT

THIS AGREEMENT is made this 25th day of November, 2014 between:

COUNTY: Mariposa County Department of Public Works
4639 Ben Hur Road
Mariposa, CA  95338

and

CONTRACTOR: Advanced Reliability Technologies, LLC
1110 NASA Parkway, Suite 545
Houston, TX  77058

ARTICLE 1. TERM OF AGREEMENT

1.01 Agreement Term: This Agreement shall become effective on November 1, 2014, and shall terminate on December 31, 2015, unless terminated in accordance with the provisions of Article 7 of this Agreement.

ARTICLE 2. INDEPENDENT CONTRACTOR STATUS

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

2.02 Contractor Qualifications: Contractor represents that it has the necessary competence, experience and qualifications for the services to be performed.

2.03 Agreement Management: Contractor shall report to the Public Works Director who will review the activities and performance of the Contractor and administer this Agreement.

ARTICLE 3. SERVICES TO BE PERFORMED BY CONTRACTOR

3.01 Scope of Services: Contractor agrees to perform the services as described on Exhibit "A" attached hereto.

No additional services shall be performed by Contractor unless approved in advance in writing by the County stating the dollar value of the services, the method of payment, and any adjustment in Agreement time. All such services are to be coordinated with County and the results of the work shall be monitored by the Public Works Director or his/her designee. However, the means by which the work is accomplished shall be the sole responsibility of the Contractor.

Revised 5/06/13
METHOD OF PERFORMING SERVICES: Contractor will determine the method, details, and means of performing the above-described services. County shall not have the right to, and shall not, control the manner or determine the method of accomplishing Contractor's services.

3.03 Employment of Assistants: Contractor may, at the Contractor's own expense, employ such assistants as Contractor deems necessary to perform the services required of Contractor by this Agreement. County may not control, direct, or supervise Contractor's responsibility for assistants or employees in the performance of those services. Contractor assumes full performance of those services. Contractor assumes full and sole responsibility for the payment of all compensation and expenses of such assistants and for all state and federal income tax, unemployment insurance, Social Security, disability insurance and other applicable withholdings.

ARTICLE 4. COMPENSATION

4.01 Compensation: In consideration for the services to be performed by Contractor, County agrees to pay Contractor in proportion to the services satisfactorily performed in the not to exceed amount of $18,000 for services as described above. The total sum to be paid to Contractor includes all labor, materials, travel and other expenses to be incurred by Contractor in the performance of the services described herein. Payment shall be made upon submission of a formal claim approved by the appropriate official of the County as follows:

- [ ] Total sum to be paid upon completion of services,
- [x] Incremental payments based on the following schedule:
  Submittal of monthly invoices

Funding Source: 322-091-863-0418

4.02 Invoices: Contractor shall submit detailed invoices for all services being rendered from the Contractor to the County. All invoices shall reference contract number.

4.03 Date for Payment of Compensation: County will endeavor to make payment within 45 days of invoices being submitted from the Contractor to the County, and approval and acceptance of the work by the County.

4.04 Expenses: Contractor shall be responsible for all costs and expenses incident to the performance of services for County, including but not limited to, all costs of equipment provided by Contractor, all fees, fines, licenses, bonds or taxes required of or imposed against Contractor and all other of Contractor's costs of doing business. County shall not be responsible for any expense incurred by Contractor in performing services for County.

ARTICLE 5. OBLIGATIONS OF CONTRACTOR

5.01 Tools and Instrumentalities: Contractor will supply all tools and instrumentalities, required to perform the services under this Agreement. Contractor is not required to purchase or rent any tools, equipment or services from County. County shall not provide working space, supplies, materials or other such support to Contractor in the performance of the services and tasks as described herein.

Revised 5/06/13
5.02 **Indemnification:** Contractor shall indemnify and hold County harmless against any and all liability imposed or claimed, including attorney's fees and other legal expenses, to the extent caused by the negligent performance of services by Contractor or Contractor's assistants, employees or agents, including all claims relating to the injury or death of any person or damage to any property. Contractor agrees to maintain a policy of liability insurance in the minimum amount of One Million Dollars ($1,000,000) or an amount as otherwise determined appropriate by the County Risk Manager to cover such claims. Contractor shall furnish a certificate of insurance evidencing such insurance and naming the County as an additional insured for the above-cited liability coverage prior to commencing work. Acceptance by County of insurance certificates and endorsements required under this Agreement does not relieve Contractor from liability under this indemnification and hold harmless clause. By execution of this Agreement, Contractor acknowledges and agrees to the provisions of this Section and that it is a material element of consideration.

5.03 **General Liability and Automobile Insurance:** During the term of this Agreement Contractor shall obtain and keep in full force and effect a commercial, general liability and automobile policy or policies of at least $1,000,000 combined limit for bodily injury and property damage; provided that the County, its officers, employees, volunteers and agents are to be named additional insureds under the policies, and that the policies shall stipulate that this insurance will operate as primary insurance for work performed by Contractor and its sub-contractors, and that no other insurance effected by County or the named insureds will be called on to cover a loss covered hereunder. The General Liability insurance shall be provided by an ISO Commercial General Liability policy, with edition dates of 1985, 1988, or 1990. The County will be named as an additional insured using ISO form CG 2010 1185 or the same form with an edition date no later than 1990, or in other form satisfactory to County.

5.04 **Professional Liability Coverage:** Contractor shall provide proof of professional liability coverage satisfactory to County prior to commencing work under the Agreement.

5.05 **Certificate of Insurance:** Contractor shall complete and file with the County prior to engaging in any operation or activity set forth in this Agreement, certificates of insurance evidencing coverage as set forth in paragraphs 5.02, 5.03 and 5.04 above and which shall provide that no cancellation or expiration by the insurance company will be made during the term of this Agreement, without thirty (30) days written notice to County prior to the effective date of such cancellation.

5.06 **Workers' Compensation:** During the term of this Agreement Contractor agrees to provide workers' compensation insurance for Contractor's employees and agents and agrees to hold harmless and indemnify County for any and all claims arising out of any injury, disability, or death of any of Contractor's employees or agents.

5.07 **Public Employees Retirement System (CalPERS):** In the event that Contractor or any employee, agent, or subcontractor of Contractor providing services under this Agreement is determined by a court of competent jurisdiction or the Public Employees Retirement System (CalPERS) to be eligible for enrollment in CalPERS as an employee of the County, Contractor shall indemnify, defend, and hold harmless County for the payment of any employee and/or employer contributions for CalPERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of County.
5.08 **State and Federal Taxes:** As Contractor is not County's employee; Contractor is responsible for paying all required state and federal taxes. In particular:

a) County will not withhold FICA (Social Security) from Contractor's payments;
b) County will not make state or federal unemployment insurance contributions on behalf of Contractor;
c) County will not withhold state or federal income tax from payment to Contractor;
d) County will not make disability insurance contributions on behalf of Contractor;
e) County will not obtain workers' compensation insurance on behalf of Contractor.

5.09 **Records:** It is understood and agreed that all plans, studies, specifications, and data magnetically or otherwise recorded on computer or computer diskettes, records, files, reports, etc., in possession of the Contractor relating to the matters covered by this Agreement shall be the property of the County, and Contractor hereby agrees to deliver the same to the County upon request. It is understood and agreed that the documents and other materials including but not limited to those set forth hereinabove, prepared pursuant to this Agreement are prepared specifically for the County and are not necessarily suitable for any future or other use. Contractor shall maintain such records for a minimum of three (3) years or as otherwise required by law.

5.10 **Contractor's Books and Records:** Contractor shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for services or expenditures and disbursements charged to the County for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Contractor. Any records or documents required to be maintained shall be made available for inspection, audit and/or copying at any time during regular business hours, upon oral or written request of the County.

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

**ARTICLE 6. OBLIGATIONS OF COUNTY**

6.01 **Cooperation of County:** County agrees to comply with all reasonable requests of Contractor and provide access as allowed by law to all documents reasonably necessary to the performance of Contractor's duties under this Agreement.

6.02 **Assignment:** Neither this Agreement nor any duties or obligations under this Agreement may be assigned by County without the prior written consent of Contractor.

**ARTICLE 7. TERMINATION OF AGREEMENT**

7.01 **Termination Occurrence of Stated Events:** This Agreement shall terminate automatically on the occurrence of any of the following events:

1. Bankruptcy or insolvency of Contractor;
2. Death of Contractor.

7.02 **Termination by County for Default of Contractor:** Should Contractor default in the performance of this Agreement or materially breach any of its provisions, County, at
County's option, may terminate this Agreement by giving written notification to Contractor.

7.03 **Termination for Convenience of County:** County may terminate this Agreement at any time by mailing a notice in writing to Contractor that the Agreement is terminated. Said Agreement shall then be deemed terminated and no further work shall be performed by Contractor. If the Agreement is so terminated, the Contractor shall be paid for that percentage of the phase of work actually completed, based on a pro rata portion of the compensation for said phase satisfactorily completed at the time the notice of termination is received.

7.04 **Termination of Funding:** The parties acknowledge that the nature of government finance is unpredictable, and that the rights and obligations set forth in this Agreement are necessarily contingent upon the receipt and/or appropriation of the necessary funds. In the event that funding is terminated, in whole or in part, for any reason, at any time, this Agreement and all obligations of County arising from this Agreement shall be immediately discharged. County agrees to inform Contractor no later than thirty (30) calendar days after County determines, in its sole judgment, that funding will be terminated and the final date for which funding will be available.

**ARTICLE 8. GENERAL PROVISIONS**

8.01 **Notices:** Any notices to be given hereunder by either party to the other may be effected either by personal delivery in writing or by mail, registered or certified, postage prepaid and return receipt requested. Mailed notices shall be addressed to the parties at the addresses appearing in the introductory paragraph of this Agreement, but each party may change the address by written notice in accordance with this paragraph. Notices delivered personally will be deemed communicated as of actual receipt; mailed notices will be deemed communicated as of two (2) days after mailing.

8.02 ** Entire Agreement of the Parties:** This Agreement supersedes any and all agreements, either oral or written, between the parties hereto with respect to the rendering of services by Contractor for County and contains all the covenants and agreements between the parties with respect to the rendering of such services in any manner whatsoever. Each party to this Agreement acknowledges that no representations, inducements, promises, or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which is not embodied herein, and that no other agreement, statement, or promise not contained in this Agreement shall be valid or binding. Any modification of this Agreement will be effective only if it is in writing signed by the party to be charged and approved by the County as provided herein or as otherwise required by law.

8.03 **Partial Invalidity:** If any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

8.04 **Attorney's Fees:** If any action at law or in equity, including an action for declaratory relief, is brought to enforce or interpret the provisions of this Agreement, the prevailing party will be entitled to reasonable attorneys' fees, which may be set by the court in the same action or in a separate action brought for that purpose, in addition to any other relief to which that party may be entitled.

Revised 5/06/13
8.05 Conformance to Applicable Laws: Contractor shall comply with the standard of care regarding all applicable federal, state and county laws, rules and ordinances. No discrimination shall be made by Contractor in the employment of persons who work under this Agreement because of race, color, national origin, ancestry, disability, sex or religion of such person.

8.06 Waiver: In the event that either County or Contractor shall at any time or times waive any breach of this Agreement by the other, such waiver shall not constitute a waiver of any other or succeeding breach of this Agreement, whether of the same or any other covenant, condition or obligation.

8.07 Governing Law: This Agreement and all matters relating to it shall be governed by the laws of the State of California and County of Mariposa and any action brought relating to this Agreement shall be held exclusively in a state court in the County of Mariposa.

Executed at Mariposa, California, on the date and year first above written.

COUNTY:  
Department of Public Works

KEVIN CANN, Chair  
Mariposa County Board of Supervisors
Date: 11/25/14

CONTRACTOR:  
Advanced Reliability Technologies, LLC

WALT SANFORD  
President
Date: 11/12/14

APPROVED AS TO FORM:

STEVEN W. DAHLEM  
County Counsel
Date: 11-25-14

Revised 5/06/13
Advanced Reliability Technologies (ART) was created to address current O&M challenges with respect to balancing O&M risk, cost, and reliability, or what is also known as total asset management. As a generation of operators retires, as the complexity of treatment process increase, as environmental regulations tighten, our wastewater industry is finding itself in a state of flux. Smaller plants suffer most from this state of flux, as they typically lack the resources to manage the technical demands of a best-in-class O&M program. ART’s mission is to utilize its proven reliability centered operations and maintenance approaches and apply them to the water and wastewater treatment industry. Our team of O&M experts (Gerald Fejarang and Wyatt Troxel) has used these methods to improve and enhance other wastewater O&M programs effectively and cost efficiently. The team of Gerald and Wyatt will be leading the efforts for Mariposa County (County).

ART Core Services
In summary, our core services provides Reliability Operations and Maintenance Consulting services and technologies that include: treatment process evaluation, Reliability Centered Maintenance, Risk Analysis, Operator Surveillance Approaches, the development of Standard Operating Procedures, assess operations and maintenance programs, develop and implement Computer Maintenance Management Systems, develop preventive maintenance activities, and spare parts strategy. A detailed discussion of our core services could be provided at the County’s request.

Yosemite West WWTP Root Cause
Overall, we suspect that the performance of the biological system is substantially hindered by the absence of certain nutrients, especially micro-nutrients, such as iron. The presence of algae and absence of activated sludge is visually apparent. This is a common syndrome for high-mountain, pristine water communities. It is suspected that there is insufficient nutrient concentration to support the growth of bacteria to form well-flocculated bacterial colonies. As a result, alga successfully competes with bacterial life forms and creates conditions that violate effluent standards for BOD and TSS. This is further demonstrated by the high pH in the ponds and effluents, indicating algal activity. The high pH of the secondary effluent also contributes to bio-fouling, scaling and clogging of the leach fields. Further, the system lacks some key plumbing that promotes bacterial dominance and selects against algae growth.

General Statement of Work
ART will develop a work plan and schedule to validate and expand upon the opportunities to have the plant operate reliably under the influent conditions described above. We will work with the County and Consulting Engineer to collaborate on improvements and corrections that will become part of the strategy overlay of a process control plan, energy management plan, risk based maintenance plan, and document management plan. The following points generally describe the statement of work:

1. Coordination and collaboration with the Consulting Engineer for the short term and long term improvements of the YWWTP
2. Biochemical Process Audit: Further, collaboration with the County’s engineering firm will integrate biochemical requirements with the physical improvements to ensure most efficient use of resources. We recommend that the biochemical process review occur prior to approval of corrective engineering design. Any design improvements would benefit from biochemical audit. We shall work with the engineer to perform a bio-chemical characterization and define requirements for bacterial treatment
3. A technical memorandum should be developed that links to a power spreadsheet. The spreadsheet would characterize the energy loads driven by the current operations scheme. This provides a basis for calculating the change in energy demand based upon proposed changes in the process strategy and equipment modifications.

4. Assist the PWD with presenting the suggested approaches with the Board of Supervisors and special community services boards.

5. Perform risk-based methodology to the design improvements to fully integrate O&M reliability into the design improvements.

6. Develop a process control improvement strategy that will be used as a guide for operations as to how to manage the treatment process.

7. The process control improvement strategy will be used to develop a plan to establish a sustainable and O&M program that provides updated SOPs, ERPs, Maintenance plans, condition based monitoring, and activity tracking.

8. Provide a highly experienced California State Certified Grade V or Grade IV Wastewater Treatment Plant Operator to assist the County to implement the O&M improvement strategies developed by Gerald and Wyatt.

9. We will provide the County long term O&M support in terms of process troubleshooting, process training, asset management strategy, failure root cause evaluation, commissioning and startup.

Please note that the Statement of Work described above is an informal description of our services to the County. A formal service quotation will be provided at the request of Mariposa County’s Public Works Director.

ART Labor Rate Schedule

Advanced Reliability Technologies, LLC

2013 PERSONNEL FIXED HOURLY RATE SCHEDULE

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</tbody>
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<sup>1</sup>Rates provided will be applied to Mariposa County
<sup>2</sup>Travel rates shall include round trip time of travel and mileage based on current IRS Federal Rates and State of California per diem rates.

Mr. Peter Rei
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