

<b>1604000 - Wastewater</b>	
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<b>Spec Item</b>	<b>Title</b>	<b>Description</b>
1	General Information	The Contractor shall provide all labor, management, supervision, tools, material, and equipment to continuously operate, maintain, and repair the Wastewater Treatment Plant and Collection System located at Marine Corps Mountain Warfare Training Center (MCMWTC) Bridgeport, CA.
1.1	Concept of Operations	<p>The Concept of operations should provide the contractor with the general intent, scope, or services boundaries between sub-annexes if included in a multi-function or BOS contract. The Concept of Operations should also give the Contractor insights into any interoperability requirements or any requirements included in the PWS that is not normally associated with the sub-annex, e.g., The intent of 1604000 Wastewater is to specify the requirements to provide Wastewater utilities. Included are services such as operating, maintaining and repairing the Wastewater treatment plant and collection system.</p> <p>The following services are not included in this Template:</p> <ul style="list-style-type: none"> <li>• The point of demarcation is where the wastewater exits the building. All components prior to this point of demarcation are considered part of the facility and are included in 1502000, Facilities Investment.</li> <li>• Repairs to the facilities (building structures) and trouble call response for Wastewater are included in 1502000 Facilities Investment.</li> <li>• Utility locates and escort services are included in 1501000 Facility Management.</li> </ul>

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2	Management and Administration	
2.1	Definitions and Acronyms	Definitions and Acronyms are listed in J-1604000-01.
2.2	Personnel	The Contractor shall provide personnel with the qualifications, technical knowledge, experience and skills required to efficiently operate, maintain and repair the Wastewater Treatment Plant and Collection System.
2.2.1	Certification, Training and Licensing	<p>The Contractor shall employ certified wastewater treatment plant operators who are experienced in similar plants and systems to perform the requirements of this functional section.</p> <p>Each Wastewater Treatment Plant Operator must possess or have received through reciprocity a current/valid operator's certificate equivalent to the highest wastewater certification grade/class level issued by the Wastewater Works Operators Certification Board of Examiners from applicable states California, Nevada.</p> <p>All other personnel operating the wastewater treatment plant must have the second highest wastewater certification grade/class level issued by the Wastewater Works Operators Certification Board of Examiners from applicable states, California, Nevada.</p> <p>The chemist and the laboratory analyst shall complete yearly training in order to keep the personnel updated with the latest local and Federal environmental regulations, public health concerns, laboratory procedures, and safety requirements.</p>
2.3	Special Requirements	
2.3.1	Fees, Fines, and Penalties	The Contractor shall be responsible for all fees, fines, and penalties assessed by the State if discharge permits are violated in the course of operations or maintenance.
2.4	References and Technical Documents	References and Technical Documents are listed in J-1604000-02.

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3	Recurring Work	The Contractor shall efficiently operate and maintain the wastewater treatment plant and collection system to safely collect, treat and dispose of wastewater to ensure all sewage requirements are continually met.	<p>For wastewater the only requirement the contractor has for MCMTWTC Base Camp Bridgeport is courier service, picking up samples and transporting them to the sample testing lab every two weeks.</p> <p>Below are the requirements for Coleville Housing:</p> <p>The Contractor's liability limit is \$200.00 (by weekly.)</p> <p>The Contractor's liability for each recurring repair and replacement work occurrence is limited to the dollar amount identified in each Task Order of labor, material and equipment cost per equipment or component per occurrence</p> <p>The Contractor shall shut-down, restart, and perform operational checks on all equipment affected by both scheduled and unscheduled utility outages at no additional cost to the Government.</p> <p>The Contractor shall be responsible for managing and controlling traffic issues resultant from sewage system work in a safe manner at all times.</p> <p>The Contractor shall submit a Road Closure Request five working day prior to service commencing, and work in accordance with the Government road closure schedules. Daily traffic should not be disrupted for more than two hours.</p> <p>The Contractor shall develop and submit a Critical Spare Parts Inventory per Section F and shall maintain on hand the critical spare parts required to keep the entire system in continuous service. The Historical Critical Spare Parts Inventory shall be provided and be part of J-1604000-03.</p>	<p>Sewage is continuously and safely collected, treated and disposed.</p> <p>Effluent complies with the regulatory discharge permit.</p> <p>No spills are the result of Contractor negligence.</p>
3.1	Operation	The Contractor shall operate the wastewater treatment plant to efficiently and safely collect, treat and dispose of wastewater such that the effluent complies	Operation consists of "watch-standing" or attendance type work by a sufficient staff of qualified persons during a specified time period to collect, treat and dispose of the measurable quantities and quality of effluent to ensure safe, reliable, efficient collection,	Plant and equipment and components are efficiently, safely and continuously operated per specified operating criteria to collect, treat and dispose of wastewater and effluent

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		<p>with the regulatory discharge permit throughout the contract period.</p> <p>The Contractor shall operate as specified in the State of California operating permit.</p>	<p>treatment and disposal of wastewater.</p> <p>Operation of wastewater treatment plant includes equipment and system components, such as, sewage holding tanks, lift stations, pumps, screens, oil/water separators, filters, chemical and biological treatment, valves and automatic controls, and tasks, such as, monitoring and regulation of equipment controls, maintaining operating records, logs, and reports, and examination, lubrication and minor adjustment of equipment and system components.</p> <p>The Contractor shall ensure plant and system configuration drawings or diagrams are created and kept current.</p> <p>Plant and systems components shall be efficiently and safely operated per applicable and measurable performance standards, e.g., ANSI and AWWA Standards, OMSI and other specific operating manuals, procedures, and instructions; however, avoid specifying processes.</p> <p>Safe operation shall ensure that all wastewater treatment plant equipment requiring operator attendance is staffed by qualified personnel at all times of operation. The KO/COR shall be notified immediately if unsafe conditions are discovered.</p> <p>Standard Operating Procedures shall be submitted in accordance with Section F. One hard copy of the current Standard Operating Procedures, operating records, logs, reports, and procedures shall be available on site at all times.</p> <p>The Contractor shall perform the following duties on a scheduled basis:</p> <p>1) Monitor, review and assess the performance of the WWTP Class 1 Operators to maintain hydraulic and biological balance within the WWTP by recommending parameters, balancing flows, and performing process control analysis.</p>	<p>complies with the regulatory discharge permit.</p> <p>Unscheduled interruptions are minimized such that collection demand and effluent quality requirements are met 99.9 percent of the time annually.</p>

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			<p>2) Monitor and assess the upkeep of operation logs depicting the routine procedures and corrective procedures. Such reference logs shall be accessible on site, located in the plant office.</p> <p>3) Provide information and assistance in preparing required operational and laboratory analysis reports to the regulatory agencies. Such referenced reports shall be accessible on site, located in the plant office.</p> <p>4) Provide the Government with a monthly report of operations.</p> <p>5) Provide telephone and electronic mail communication when not on site.</p> <p>6) The contractor shall ensure the WWTP is operated as per the permit requirements.</p> <p>The Contractor shall review the equipment maintenance schedules and complete work on a periodic basis including:</p> <p>1) Lubricate, and adjust mechanical equipment per industry standards and equipment manufacture recommendations.</p> <p>2) Review records of equipment preventive maintenance and the schedule performance thereof. Such reference logs shall be accessible on site, located in the plant office.</p> <p>3) Review the Government generated monthly preventive maintenance report on all mechanical equipment, as requested.</p>	
3.1.1	Wastewater Effluent Quality	The Contractor shall produce treated wastewater effluent that complies with the regulatory discharge permit.	<p>Wastewater effluent quality shall meet all Federal, state and local authorities' regulations, certifications and requirements.</p> <p>Wastewater effluent quality shall comply with NPDES for stateside or DoD FGS for overseas</p>	Laboratory analyses confirm that Wastewater effluent complies with the regulatory discharge permit.

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			<p>installation discharge chemical parameters, as applicable.</p> <p>Minimum quantities and frequencies of on-site sampling and laboratory analyses of wastewater shall be performed per discharge permit, approved operating and maintenance manual, OMSI, DoD FGS, etc..</p> <p>Referring to Water Annex J-1606000-07 (Water Annex) for wastewater sampling and testing requirements.</p> <p>Minimum quantities and frequencies of off-site analyses of shall be performed by an independent certified laboratory which shall meet all certification requirements by the EQB/EPA, state regulatory agency, local laws, etc..</p> <p>If wastewater chemistry is confirmed, through independent laboratory analyses, to not be in compliance with quality standards, the Contractor shall immediately notify the KO/COR and adjust the wastewater chemistry within the number of days identified in each task order to meet all regulatory and discharge permit requirements.</p> <p>Laboratory Analysis of Wastewater Effluent Reports shall be submitted per Section F.</p>	
3.1.2	Minimum Operator Attendance	<p>The Contractor shall provide wastewater treatment certified plant operators and support personnel in sufficient quantities of staffing per shift to efficiently and safely operate equipment at all times of operation.</p> <p>The Contractor shall operating the waste water treatment plant seven days per week in according with plant permit.</p>	<p>All personnel operating the plant shall meet the training and certification standards in Spec Item 2.2.1.</p> <p>Contractor shall submit a Schedule of Operator Attendance per Section F.</p>	The minimum numbers and types of wastewater treatment plant operators, support personnel, and supervisory operators in direct responsible charge, shall comply, by each applicable shift, with regulatory discharge permit, approved Operations and Maintenance Manual or other technical reference that specifies minimum or recommended staffing levels.
3.1.3	Operating Records, Logs, and Reports	The Contractor shall prepare, submit and maintain operating records, logs and reports for in-process tracking of plant	Per approved operating permits, LANTNAVFACENGCOMINST 11300.4, DoD FGS, regional, or local installation instruction, a monthly Operating Records Report shall be submitted to the KO/COR	All required operating records, logs, and reports are maintained current and complete and applicable copies

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		<p>output characteristics to ensure records, logs, and reports are current and complete.</p> <p>The Contractor shall develop and update operating procedures to ensure operating processes and Plant and Systems configuration are current.</p>	<p>within three days following the end of the month during which work is performed and shall include copies of daily operating logs, daily flow wastewater reports, chemical content, pressure readings, chemical dosages, filter backwash frequencies, flow rates, and other laboratory records, maintenance records, corrosion tests, personnel records, emergency condition records, and operating costs.</p> <p>The Contractor shall provide the reports electronically.</p> <p>The Contractor shall prepare, update, and post in clear view for operators, written Standard Operating Procedures as specified in applicable directives and instructions within 30 days from contract start and five days after making changes to any Plant operating procedure, equipment and components.</p> <p>The Contractor shall develop and submit a Critical Spare Parts Inventory, per Section F. The Contractor shall maintain on hand the critical spare parts required to keep the entire system in continuous service to meet waste water treatment requirements.</p>	<p>provided to the KO/COR per Section F.</p> <p>All required procedures are maintained current and complete.</p>
3.2	Preventive Maintenance (PM) Program	N/A	N/A	N/A
3.2.1	Sewage Pipelines	N/A	N/A	N/A
3.2.2	Manholes	N/A	N/A	N/A
3.2.3	Wet Wells	N/A	N/A	N/A
3.2.4	Wastewater Instrumentation Systems	N/A	N/A	N/A
3.2.5	Sewage Sump Pumps	N/A	N/A	N/A
3.3	Integrated Maintenance Program (IMP)	The Contractor shall develop and implement an IMP for the wastewater treatment plant to ensure all equipment and components remain in optimum condition and sustain maximum life	<p>The Contractor shall develop and submit an IMP to the KO/COR to validate completeness within 30 days following award, per Section F.</p> <p>The IMP shall include all equipment and components of the Wastewater Treatment Plant and Collection System, such as,</p>	<p>Maintenance is performed in accordance with the Contractor's IMP and work schedule.</p> <p>All repairs costing at or less than the Contractor's limit of liability are</p>

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			<p>sewage holding tanks, lift stations, pumps, screens, oil/water separators, filters, chemical treatment, valves, automatic controls, plant and collection system piping, manholes, and septic tanks.</p> <p>The IMP shall include the Contractor's approach for integrated maintenance, including maintenance and inspection tasks, schedules for planned work accomplishment, plan for minimizing occurrence of repair and downtime, process for the identification of the need for repairs, and the process for scheduling and completing repair work.</p> <p>IMP, inclusive of repair and replacement, shall be performed per ASME, ANSI Standards, AWWA, OMSI and NASSCO standards, and equipment manufacturer's recommendations and Commercially accepted practices.</p> <p>All plant and system malfunctions and breakdowns requiring repair or replacement shall have immediate response within the hours identified in each Task Order following Contractor discovery or Government notification and worked continuously to completion.</p> <p>As part of the IMP, the Contractor has full responsibility for any individual occurrence of repair, including replacement job up to and including the dollar amount identified in ach task order,</p> <p>The Contractor shall, per Annex 2, notify the KO/COR upon identification that the repair will exceed the liability limit listed above</p> <p>If the estimated cost of the repair exceeds the recurring work liability limit, the Government may order the work under the non-recurring section of this contract; however, the Government will only be liable for the amount of cost exceeding the recurring work liability limit.</p> <p>The Contractor shall perform all repairs, whether identified as part</p>	<p>responded to within the hours identified in each Task Order of Contractor discovery or Government notification and are accomplished per specified standards and recommendations.</p> <p>The wastewater treatment plant is maintained and repaired to sustain a fully functional and operable condition in accordance with ASME, WEF, NASSCO, and OEM specifications.</p> <p>Unscheduled interruptions are minimized such that collection demand and effluent quality requirements are met 99.9 percent of the time annually.</p> <p>NPDES discharge permit requirements are met.</p> <p>When repair is complete the facility, system, or equipment does not present any hazard or danger to personnel.</p>

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			<p>of their routine IMP accomplishment, QC inspections, or notification from the Government that a breakdown or malfunction has occurred.</p> <p>If the Government identifies a problem or a need for repair, the Government will contact the work reception desk. Service trouble calls will not be issued for accomplishment of repairs on systems and equipment maintained under IMP.</p> <p>The Contractor shall submit a Monthly IMP Schedule and IMP Maintenance and Repair Status Report per Section F.</p>	
3.3.1	Wastewater Treatment Plant	The Contractor shall maintain the wastewater treatment plant to ensure proper operation, to minimize breakdowns, to maximize useful life, and meet all applicable discharge permit requirements.	<p>The Maintenance shall include all equipment and components of the wastewater treatment plant such as, sewage holding tanks, lift stations, pumps, screens, oil/water separators, filters, chemical treatment, valves, automatic controls, plant and collection system piping, manholes, and septic tanks.</p> <p>Contractor shall submit a Schedule to Replace Expendable Components, such as filters and chemicals, of the wastewater treatment plant per Section F.</p>	<p>Maintenance is performed per Contractor's IMP and work schedule.</p> <p>Maintenance of the sewage treatment plant is performed in accordance with manufacturers' recommended procedures and ASME, WEF, NASSCO, and OEM standards.</p> <p>NPDES discharge permit requirements are met.</p>
3.3.2	Wastewater SCADA Programming Control	<p>The Contractor shall perform PM on Water and Wastewater Instrumentation Systems and associated equipment according to the PM Program to ensure proper operation, minimize breakdowns, and maximize useful life.</p> <p>The Contractor shall perform PM on Water and Wastewater Instrumentation Systems and associated equipment in accordance with applicable federal, state and local statutes and regulations, manufacturers</p>	<p><b>Requirement Information:</b> Wastewater SCADA Programming Control shall be performed in October.</p> <p>Periods of Performance for Wastewater SCADA Programming's are required for Option Periods 1, 3, 5, and 7 only.</p> <p>The contractor shall be responsible for ensuring all equipment and components of the instrumentation system are maintained; all sensors operate correctly, all controller elements receive signals properly, and the PLC is in optimum working order.</p> <p>The contractor is also responsible for maintaining the RTU when it is an integrated component of the PLC. When the RTU is separate from the PLC the contractor is only</p>	<p>Water and Wastewater Instrumentation System PM is performed in accordance with the PM Program.</p> <p>Water and Wastewater Instrumentation Systems are operating properly to ensure minimal breakdowns and to maximize useful life.</p> <p>Water and Wastewater Instrumentation System PM is in accordance with applicable federal, state and local statutes and regulations, and with DoD policies, instructions and guidance.</p> <p>Water and Wastewater</p>

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		recommended procedures, OEM standards, and with DoD policies, instructions and guidance.	<p>responsible for ensuring that the signal reaches the RTU.</p> <p>All repairs and replacements shall be performed per AWWA, ANSI, and NFPA Standards, OMSI, Equipment manufacturer's recommendations, and commercially accepted practices.</p> <p>The Contractor personnel working on Water and Wastewater Instrumentation System must possess applicable state and local licensing/certification requirements</p> <p>The Contractor shall submit a PM program for Water and Wastewater Instrumentation System to the KO/COR to validate completeness.</p> <p>The Contractor shall provide additional information, annual performance of PM services and calibration at each site has been sufficient to meet performance standards.</p>	Instrumentation System PM program meets manufacturer's Recommended procedures and OEM standards.
3.3.3	Sludge Removal and Disposal	The Contractor shall provide a container, transportation and disposal of sludge.	<p>Sludge removal shall be performed as required by the Contractor.</p> <p>The Contractor shall collect and dispose all fully processed and dried solids (sludge) that have fallen out of suspension in the wastewater and have been collected and dried in the designated wastewater treatment plant area.</p>	<p>Properly disposed dry sludge from wastewater treatment plant.</p> <p>Services are performed as required.</p>
3.4	Inspection Program	N/A	N/A	N/A
3.4.1	Sewage Collection Pipelines	N/A	N/A	N/A
3.4.2	Manholes	N/A	N/A	N/A
3.4.3	Wet Wells	N/A	N/A	N/A
3.5	Other Recurring Services	N/A	N/A	N/A
3.5.1	Cleaning of Sewer Pipeline	N/A	N/A	N/A
3.5.2	Wet Well Services	N/A	N/A	N/A
3.5.2.1	Wet Well Pumping	N/A	N/A	N/A

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3.5.2.2	Wet Well Cleaning	N/A	N/A	N/A

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4	Nonrecurring Work	Nonrecurring Work may be ordered utilizing issuance of task orders in accordance with Section H or on a task order in accordance with the PROCEDURES FOR ISSUING ORDERS clause in Section G. The order will specify the exact locations and types of work to be accomplished. The period of performance will be specified in each order.	Refer to Nonrecurring Work ELINs for task listings, descriptions and related requirements. All periods of performance are measured from issue date of order to acceptance of the work. Performance Standards for Nonrecurring Work will be the same as those in Spec Item 3 where applicable.	