

**APPENDIX A**  
**TECHNICAL SPECIFICATIONS**  
**BULK MURIATIC ACID/HYDROCHLORIC ACID SUPPLY**  
**Solicitation Number 107-19**

**1. INTENT**

JEA requires the services of a Supplier to provide thirty-one percent (31%) Muriatic Acid/ Hydrochloric Acid (HCl) which is to help control scaling inside of a water condensing unit within the wastewater treatment process. The product will be delivered by the supplier in a bulk shipment via tanker to JEA Buckman Residuals Management Facility. **It is understood that the Muriatic Acid/ Hydrochloric Acid volumes shown in this specification are estimated and are to be used for award of contract only. No minimum or maximum quantities are being guaranteed for any of the work shown.**

**2. SCOPE**

Muriatic Acid/Hydrochloric Acid is a liquid chemical compound used in the wastewater treatment process to help control scaling inside of a water condensing unit. Each shipment shall be accompanied by a safety data sheet (SDS) certifying product composition. Muriatic Acid/ Hydrochloric Acid product must meet ANSI/NSF Standard 60.

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|--|---|
| • Muriatic Acid/ Hydrochloric Acid concentration | <b>31%</b>                              |
| • Specific gravity                               | <b>1.16-1.18</b>                        |
| • pH   | <b>&lt;1 (in aqueous solution)</b>      |
| • Deliveries                                     | <b>Bulk Solution ~1,000-2,000 gals.</b> |

The typical weekly Muriatic Acid/ Hydrochloric Acid usage for each of the aforementioned JEA facility is shown below although various process influences may cause these quantities to fluctuate; Therefore, the below is approximate usage.

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|---------------|--------------------------|------------------------------|
| • Buckman RMF | <b>6,800 lbs. weekly</b> | <b>353,600 lbs. Annually</b> |
|---------------|--------------------------|------------------------------|

Deliveries may or may not be scheduled weekly but will take place on a frequency determined by each respective plant's personnel and coordinated between plant personnel and awarded company(s). **Once a delivery has been requested by JEA staff, the awarded supplier shall deliver the product within 3 business days.**

The delivery of the Muriatic Acid/Hydrochloric Acid and the transfer of the product into JEA storage vessels are to be handled as described below:

- Deliveries will be scheduled by the JEA staff when their on-site inventory is depleted to approximately thirty percent (30%) of available storage capacity. Ordering/deliveries may be scheduled for up to 90 days in advance via email ordering and require a reply confirmation. This will assure that the necessary tank volume is available at the time of delivery. For informational purposes the total available tank volumes for each location are listed below:
  - Buckman RMF: 2,500 gallons
- Supplier chemical delivery vehicles shall comply with all applicable DOT and safety regulations.
- Supplier will furnish the necessary hose(s) or conduit and their own compressed air supply for transferring the Muriatic Acid/ Hydrochloric Acid from the tanker vehicle to the JEA storage vessel(s).
- Supplier's delivery personnel must notify JEA plant staff when they arrive at the respective plant sites before they commence off-loading operations.
- The JEA facility will provide a two inch (2") inch male quick-connect (cam-lock) fitting for the off-loading of the tankers.
- Supplier personnel/drivers are responsible for safely transferring/pumping the chemical from the tanker vehicle to the JEA storage vessels. They are also responsible for safely voiding any chemical remaining in the hose without spillage.

Tanker trucks may arrive for deliveries no earlier than 7:00 AM and the last truck must be unloaded no later than 4:00 PM, Monday through Friday,

A spill response plan shall be submitted within two (2) days of being awarded the contract that must include, but is not limited to, the following provisions:

- The Supplier shall be responsible for responding within one (1) hour of a spill involving its own or subcontracted vehicles and/or personnel.
- The Supplier must have equipment and personnel on site at the site of the spill within one (1) hour and must commence cleanup operations within one (1) hour of the spill.

**Any spill will be considered just cause for cancellation of the contract at JEA's discretion.** Care must be taken when entering and leaving the plant property. Suppliers requiring additional plant specific information should contact Michael Durrett at (904) 665-8319.

**3. REPAIR OF WORK AREAS**

The Supplier shall replace with new or repair any damaged JEA equipment or structures immediately to the satisfaction of JEA. The intent of this paragraph is to ensure the safe and continuous operations of JEA processes.

**4. ACCESS TO SUPPLIER'S OPERATING RECORDS**

The supplier shall provide immediate access to its operating records as required by JEA and applicable regulatory agencies.

**5. FACILITY LOCATION**

Services rendered by the supplier will be conducted at the following location:

- JEA Buckman Residuals Management Facility, 2400 Talleyrand Ave, Jacksonville, FL 32206

**6. CHEMICAL INVENTORY & EQUIPMENT REQUIREMENT:**

Supplier must maintain or have access to a supply of thirty-one percent (31%) Muriatic Acid/ Hydrochloric Acid HCl meeting the above-referenced specification to supply the specified quantities to the JEA facility throughout the duration of this contract. The supplier must also have the necessary number of drivers, trucks, and tankers to provide the required delivery services.