



## RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 \* Fax - 916-354-2082

### IMPROVEMENTS COMMITTEE




*(Directors Morrison Graf and Les Clark)*

Regular Meeting

June 5, 2018 at 8:30 a.m.

All persons present at District meetings will place their cellular devices in silent and/or vibrate mode (no ringing of any kind). During meetings, these devices will be used only for emergency purposes and, if used, the party called/calling will exit the meeting room for conversation. Other electronic and internet enabled devices are to be used in the "silent" mode. Under no circumstances will recording devices or problems associated with them be permitted to interrupt or delay District meetings.

### AGENDA

1. **Call to Order**
2. **Comments from the Public**
3. **Monthly Updates**
  -  Development
  -  Emergency Well Project
  -  Wet Drainage Basins
4. **Replacement of Brush Aerators**
5. **Directors & Staff Comments/Suggestions** *[no action]*
6. **Adjournment**

*In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 72 hours prior to a regular meeting will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting. **Note:** This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is June 1, 2018. Posting locations are: 1) District Office; 2) Rancho Murieta Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.*

## MEMORANDUM

Date: May 31, 2018  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Monthly Updates

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### PROJECTS

#### Development

##### The Retreats East and North

No update.

##### The Retreats West

No change from previous update. Home building continues with staff monitoring BMP compliance.

##### The Murieta Gardens - Murieta Marketplace

Landscape plans were submitted and reviewed by Coastland Engineering with comments provided back to the project engineer. This project is still on hold.

##### The Murieta Gardens – Inn

No update.

##### The Murieta Gardens – Highway 16 Off-Site Improvements

This project has proceeded with the installation of dual piped stormwater lines in place of a single large line within the Caltrans easement of Highway 16. Coastland Engineering has been monitoring work in the area of District infrastructure as it occurs.

##### The Murieta Gardens II – Subdivision

The plans for the 78 lots at the Murieta Gardens have been signed off and copies have been provided to the District and Coastland Engineering. It is assumed this project will be proceeding soon, although no notice has been given to the District. K. Hovanian Homes contacted me and informed me that they have acquired this property and have requested a fire flow report from the District, which we performed and provided them.

##### Rancho Murieta North – Development Project

No update.

##### FAA Business Park

The plans for this project have been approved and is planned to proceed in June.

##### The Greens Neighborhood Park

No update. Rancho Murieta Association (RMA) still needs to repair the keystone block wall along the discharge side of the culvert at the park entrance.

### EMERGENCY WELL PROJECT

Finalizing contract with appraiser.

## **DAM INUNDATION MAPPING**

A notice to proceed has been provided to Dominichelli & Associates (D&A) after the April 24, 2018 Board meeting approval and they have begun working on this project. So far, reported work includes stitching together topographic data, generating geometric models, and working on dam break parameters.

## MEMORANDUM

Date: May 31, 2018  
To: Improvements Committee  
From: Paul Siebensohn, Director of Field Operations  
Subject: Approve Brush Aerator Replacements for Sewer Treatment Ponds 1 and 2

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### RECOMMENDED ACTION

Approve the proposal from House Manufacturing for three (3) 10 Hp brush aerators in an amount not to exceed \$72,427.50 which includes a fifteen percent (15%) contingency. Funding to come from Sewer Replacement Reserves.

### BACKGROUND

Brush aerators add oxygen to the wastewater in the secondary process ponds as well as mix them to allow the wastewater microbes to efficiently break down the wastewater for treatment action. The brush aerators installed in sewer treatment ponds 1 and 2 have been in continuous operation for ten (10) years. The model we use is no longer made or supported with spare parts or equipment. Due to this, the cost of rebuilding them is nearly the same cost of new aerators, as parts must be fabricated to work with them. Therefore, staff sent out a request for and received three (3) quotes for new brush aerators. The quotes are attached with the lowest quote coming from JBI Water & Wastewater, Inc. The equipment is warranted for 24 months after start-up and owner acceptance.

Bidder	Price
JBI Water & Wastewater Equipment Inc.	\$63,850
MTB Water System	\$74,157
JDC Developments LLC	\$71,468



Electrical work and crane rental will be done separately under operations budgeting as work would be to disconnect old equipment and reconnect to the new equipment. At this time new control panels will not be needed.





ECS  
**House  
Industries**  
INCORPORATED

www.houseindustriesinc.com      Cherry Valley, Arkansas

**10HP FLOATING BRUSH AERATOR PROPOSAL:**  
**Rancho Murieta CSD#**





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**House  
Industries**  
I N C O R P O R A T E D

www.houseindustriesinc.com      Cherry Valley, Arkansas

**Date:**                    **May 2, 2018**

**Represented by:**    **Ray Sprague**  
                             **JBI Water & Wastewater, Inc.**  
                             **2323 Aldridge Lane**  
                             **Roseville, California 95747**

**For:**                      **Rancho Murieta CSD/ Aerator Procurement**  
                             **Travis Bohannon**

**Our Ref:**                **05022018-001-JCH**

ECS House Industries, Inc. in association with JBI Water & Wastewater, Inc. is pleased to offer the following floating brush aerator proposal for Rancho Murieta CSD.

### **Floating Brush Aerator**

ECS House Industries will provide three (3) 10hp Floating Brush Aerators, model #SDB120TA3253100 based on equipment build, services, and quotation enclosed.

### **Each aerator shall be equipped with:**

- WEG, Nema Premium Efficient, 1800 RPM, Three Phase, 230/460 volt, TEFC Electric Motor
- Triple-Sealed Drive Housing shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Rotor assembly shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Rotor brushes shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Anchoring System shall consist of two (2) parallel mooring arms, cable anchoring, and one (1) cross brace constructed of ASTM A36, TGIC Powder Coated Steel.
- Anchoring System shall not restrict the aerator assembly's floatation, and shall operate continuously with 3' water fluctuations

- Aerator Main Frame shall be constructed of ASTM A36, TGIC Powder Coated Steel, Schedule 40 pipe and 7 gauge material
- Floatation Attachment Bands, Foam-Filled Floatation Tanks, Motor Shield, & Non-Drive End Bearing Cover shall be constructed from 304L stainless steel.
- 304L stainless steel, foam-filled floatation tanks
- 316 Stainless Steel Drive & Non-Drive End Shafts
- Drive & Non-Drive End Shafts shall be piloted, bolted-in stub shaft assemblies
- Adjustable Linkage shall be fabricated from 304L Stainless Steel and shall be capable of changing the rotor's operating blade depth
- Dodge Gear Reducer with "quick connect" oil change system and a minimum service factor of 2.0.
- Dodge Gear Reducers shall mount to the rotor drive shaft with tapered bushings and will only use roller bearings. Input shaft and output hub seals shall be constructed with double-seals to protect against water infiltration
- Dodge Raptor Couplers that absorb start-up forces and allow for four (4) degrees of misalignment
- Grease Lubricated Drive & Non-Drive End Bearings shall be equipped with grease lube sites
- Lifting Devices shall be welded to the main frame of the aerator in order to unload and remove the entire floating brush aerator assembly

### **Quality Assurance & Performance:**

- ECS House Industries, Inc. Floating Brush Aerators meets all quality assurance and performance requirements.

### **Delivery:**

- ECS House Industries, Inc. will deliver the floating brush aerator and accessories on a flatbed truck
- 10hp, ECS House Industries, Inc. Floating Brush Aerator:
  - A) Weight: 2,500 lbs.
  - B) Overall Length: 18'6"
- CONTRACTOR/OWNER will be responsible for the unloading of the equipment, floatation tank attachment, final splash shield assembly, electrical termination, and placing/anchoring the aerator in the treatment pond.
- When the CONTRACTOR/OWNER is ready for start-up, ECS House Industries, Inc. representative will assist in the final aerator inspection and warranty certification
- ECS House Industries, Inc. representative will check the Floating Brush Aerator for proper rotor assembly rotation, and the amperage draw of the electric motor
- Each electric motor shall operate at a 90% load based on the nameplate data
- If any rotor assembly adjustments are necessary to improve the amperage draw and aerator performance, then this adjustment shall be performed by ECS House Industries, Inc.
- After the Floating Brush Aerator is operating properly, ECS House Industries, Inc. will provide documentation to the Owner and Manufacturer certifying the Floating Brush Aerator is operating properly
- The Floating Brush Aerator and accessories shall be delivered to the jobsite 8-10 weeks after receipt of purchase order
- Submittals will be sent to the Contractor/Owner two (2) weeks after receipt of purchase order agreement. O&M Manuals shall be delivered to the Contractor/Owner one (1) week before the Floating Brush Aerator shipment



### **Additional Start-Up & Training Procedures:**

ECS House Industries, Inc. representative will demonstrate to plant personnel how to properly maintain the Floating Brush Aerators after Start-Up is completed. They will demonstrate the following:

- Proper oil changing procedure & oil change frequency
- Proper grease lubrication procedures & lubrication frequencies
- Raptor Coupler alignment & replacement
- Drive & Non-Drive End Bearing replacement
- Review Aerator set-up & trouble shooting guide
- Visual aerator inspection: seal surfaces, bearings, & shafts
- Rotor & blade depth adjustment

### **Warranty:**

- The manufacturer of the aeration equipment shall warrant the equipment to be free from defects in materials and workmanship for a period of twenty-four (24) months after start-up & Owner acceptance

### **Total pricing for Scope of Equipment including delivery and start-up:**

**Three (3) 10hp, Model SDB120TA3253100 Floating Brush Aerator: \$63,850.00**

### **Items Not Included in Pricing:**

- State and/or local taxes
- Electrical connectors/connections and wiring installation
- Control Panel Installation and Pricing not included
- Loading/Unloading of equipment

### **Terms & Conditions:**

- The terms & conditions of ECS House Industries, Inc. are 100% due 30 days after aeration equipment delivery.

Scope of Equipment offered by:

Chad House  
CEO, ECS House Industries, Inc.  
3720 Highway 1 South  
Cherry Valley, Arkansas 72324

(870) 945-0880 Cell  
(870) 588-3773 Office

**Owner acceptance of proposal and purchase agreement:**

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**Owner Signature**

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**Date**

**10HP FLOATING BRUSH AERATOR PROPOSAL:**  
**Rancho Murieta CSD#**

**JDC DEVELOPMENTS, LLC.  
1422 AIRPARK ROAD.  
WYNNE, ARKANSAS 72396**

**Date: May 3, 2018**

**For: Rancho Murieta CSD/ Aerator Procurement  
Travis Bohannon**

**Our Ref: 57983-JDC**

JDC Developments, LLC. is pleased to offer the following floating brush aerator proposal for Rancho Murieta CSD.

### **Floating Brush Aerator**

JDC Developments, LLC. will provide three (3) 10hp Floating Brush Aerators, model #JDC120TA3253100 based on equipment build, services, and quotation enclosed.

### **Each aerator shall be equipped with:**

- WEG, Nema Premium Efficient, 1800 RPM, Three Phase, 230/460 volt, TEFC Electric Motor
- Triple-Sealed Drive Housing shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Rotor assembly shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Rotor brushes shall be constructed of ASTM A36, TGIC Powder Coated Steel
- Anchoring System shall consist of two (2) parallel mooring arms, cable anchoring, and one (1) cross brace constructed of ASTM A36, TGIC Powder Coated Steel.
- Anchoring System shall not restrict the aerator assembly's floatation, and shall operate continuously with 3' water fluctuations
- Aerator Main Frame shall be constructed of ASTM A36, TGIC Powder Coated Steel, Schedule 40 pipe and 7 gauge material
- Floatation Attachment Bands, Foam-Filled Floatation Tanks, Motor Shield, & Non-Drive End Bearing Cover shall be constructed from 304L stainless steel.
- 304L stainless steel, foam-filled floatation tanks

- 316 Stainless Steel Drive & Non-Drive End Shafts
- Drive & Non-Drive End Shafts shall be piloted, bolted-in stub shaft assemblies
- Adjustable Linkage shall be fabricated from 304L Stainless Steel and shall be capable of changing the rotor's operating blade depth
- Dodge Gear Reducer with "quick connect" oil change system and a minimum service factor of 2.0.
- Dodge Gear Reducers shall mount to the rotor drive shaft with tapered bushings and will only use roller bearings. Input shaft and output hub seals shall be constructed with double-seals to protect against water infiltration
- Dodge Raptor Couplers that absorb start-up forces and allow for four (4) degrees of misalignment
- Grease Lubricated Drive & Non-Drive End Bearings shall be equipped with grease lube sites
- Lifting Devices shall be welded to the main frame of the aerator in order to unload and remove the entire floating brush aerator assembly

#### **Quality Assurance & Performance:**

- JDC Developments, LLC. will provide Floating Brush Aerators meets all quality assurance and performance requirements.

#### **Delivery:**

- JDC Developments, LLC. will deliver the floating brush aerator and accessories on a flatbed truck
- 10hp, JDC Developments Floating Brush Aerator:
  - A) Weight: 2,500 lbs.
  - B) Overall Length: 18'6"
- CONTRACTOR/OWNER will be responsible for the unloading of the equipment, floatation tank attachment, final splash shield assembly, electrical termination, and placing/anchoring the aerator in the treatment pond.
- When the CONTRACTOR/OWNER is ready for start-up, JDC Developments, LLC. representative will assist in the final aerator inspection and warranty certification
- JDC Developments, LLC. representative will check the Floating Brush Aerator for proper rotor assembly rotation, and the amperage draw of the electric motor
- Each electric motor shall operate at a 90% load based on the nameplate data
- If any rotor assembly adjustments are necessary to improve the amperage draw and aerator performance, then this adjustment shall be performed by JDC Developments, LLC. After the Floating Brush Aerator is operating properly, JDC Developments, LLC. will provide documentation to the Owner and Manufacturer certifying the Floating Brush Aerator is operating properly
- The Floating Brush Aerator and accessories shall be delivered to the jobsite 10-12 weeks after receipt of purchase order

- Submittals will be sent to the Contractor/Owner two (2) weeks after receipt of purchase order agreement. O&M Manuals shall be delivered to the Contractor/Owner one (1) week before the Floating Brush Aerator shipment

**Additional Start-Up & Training Procedures:**

JDC Developments, LLC. representative will demonstrate to plant personnel how to properly maintain the Floating Brush Aerators after Start-Up is completed. They will demonstrate the following:

- Proper oil changing procedure & oil change frequency
- Proper grease lubrication procedures & lubrication frequencies
- Raptor Coupler alignment & replacement
- Drive & Non-Drive End Bearing replacement
- Review Aerator set-up & trouble shooting guide
- Visual aerator inspection: seal surfaces, bearings, & shafts
- Rotor & blade depth adjustment

**Warranty:**

- The manufacturer of the aeration equipment shall warrant the equipment to be free from defects in materials and workmanship for a period of twenty-four (24) months after start-up & Owner acceptance

**Total pricing for Scope of Equipment including delivery and start-up:**

**Three (3) 10hp, Model JDC120TA3253100 Floating Brush Aerator: \$71,468.00**

**Items Not Included in Pricing:**

- State and/or local taxes
- Electrical connectors/connections and wiring installation
- Control Panel Installation and Pricing not included
- Loading/Unloading of equipment

**Terms & Conditions:**

- The terms & conditions of JDC Developments, LLC.. are 100% due 30 days after aeration equipment delivery.

Scope of Equipment offered by:

Jake Haralson, JDC Development, LLC.  
1422 Airpark Rd.  
Wynne, AR 72396

**Owner acceptance of proposal and purchase agreement:**

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**Owner Signature**

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**Date**



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INCORPORATED

www.houseindustriesinc.com      Cherry Valley, Arkansas

**10HP FLOATING BRUSH AERATOR PROPOSAL:**  
**Rancho Murieta CSD**







**Date:** May 3, 2018

**Represented by:**  
MTB Water Systems  
2299 Loch Way  
El Dorado Hills, Ca 95762

**For:** Rancho Murieta CSD/ Aerator Procurement  
Travis Bohannon

**Our Ref:** MTB -000576

ECS House Industries, Inc. in association with MTB Water Systems is pleased to offer the following floating brush aerator proposal for Rancho Murieta CSD.

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CEO, ECS House Industries, Inc.  
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Cherry Valley, Arkansas 72324

(870) 945-0880 Cell  
(870) 588-3773 Office

**Owner acceptance of proposal and purchase agreement:**

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**Owner Signature**

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**Date**