



# AGENDA REPORT

SAN CLEMENTE CITY COUNCIL MEETING  
Meeting Date: April 21, 2015

Agenda Item 9C

**Approvals:**

City Manager [Signature]  
Dept. Head [Signature]  
Attorney [Signature]  
Finance [Signature]

**Department:** Public Works / Engineering  
**Prepared By:** David Rebensdorf, Assistant City Engineer DR

**Subject:** *EMERGENCY REPAIR TO MAIN PUMP STATION, PROJECT No. 15206.*

**Fiscal Impact:** Yes. The cost for the emergency response and repair are estimated at \$749,000. A supplemental appropriation is needed from the Sewer Operating Fund in the amount of \$387,000 to account number 054-473-43890-000-00000 to fund the emergency response. An appropriation from the Sewer Fund Depreciation Reserve in the amount of \$362,000 to account number 054-476-45300-000-15206 is needed to fund the permanent repairs. There are sufficient fund balances within the Sewer Operating Fund and Sewer Fund Depreciation Reserve.

**Summary:** The City's Main Pump Station receives sewage flows from approximately two-thirds of the City's service area and is a critical facility for conveying sewer to the Water Reclamation Plant. On March 29, 2015, City staff received a communication failure within its Supervisory Control and Data Acquisition (SCADA) system due to a communication loss at Linda Lane and Main Pump Stations. In response, staff found the backup radio communication system was also down. This was due to a power outage at Main Pump Station, as it is a repeater site for the beach system.

The power outage at Main Pump Station caused the generator to start, but the pumps stopped since the electrical system failure shutdown the 120-volt system that operates the pump control system. The subsequent backup in the sewer system caused a sewer spill to occur at the low point in the Beach Trunk Pipeline near the Municipal Pier and at several sites under construction north of the pump station. Due to a quick response by City staff and vactor truck assistance from neighboring agencies Moulton Niguel Water District, Irvine Ranch Water District, South Coast Water District and Santa Margarita Water District, the sewer spill was minimized to approximately 5,200 gallons. Godwin Pump Company responded to the emergency and connected a bypass pump and piping system around the pump station to pump flows to the Water Reclamation Plant.

Upon an initial investigation of the pump station, the power failure appears to be due to a faulty wiring system that transfers higher voltage power down to 120 volts. A recent project was completed to replace a significant portion of the motor control center and generator. The actual cause of the failure is under investigation by a third party. The City's insurance claims adjusters have visited the facility to evaluate the damages and anticipate costs for the emergency response and repair will be covered by the City's insurance.

Due to the water damage to the electrical system, placing the pump station online is not feasible at this time. To provide continued sewer service to the City's system and redundancy in case of a single pump failure, staff worked with Godwin Pump Company to provide a second emergency pump along with 24-hour per day, seven day a week monitoring to ensure operation of the system. Staff estimates two months from the failure date are needed before the pump station is operating again.

The estimated cost for the emergency response and temporary pump station operation, assuming a two-month period is \$387,000, details are as follows:

Godwin Pump Company	\$316,000
Alexis Oil Company	18,900
Ed Stewart (Base of Pier Cleanup)	1,600
American Integrated (Station Clean-up)	11,500
Bradley Environmental (Tanker Trucks)	21,000
United Pumping (Tanker Trucks)	18,000
<u>Total Cost</u>	<u>\$387,000</u>

The permanent repair to the pump station requires new equipment for the motor control center, a new generator, repair of the air monitoring system, electrical work and repair of the motors and pumps. Most of the equipment appears to be available with a short lead time with the exception of the emergency generator. Once the pump station is commissioned and operating, an emergency portable generator can be rented in the event there is a power outage. This will allow the removal of the costly pump rental equipment and manpower. The estimated cost for the permanent repair is \$362,000, details are as follows:

Little John Motor Shop	\$ 4,000
Evans Hydro	30,000
One Source/Allen Bradley	105,000
Emergency Generator (Contractor TBD)	100,000
Emergency Generator Rental (3 months)	9,000
MSA	9,000
Neal Electrical	20,000
Automatic Transfer Switch Equipment and Install	25,000
Contingency (20%)	60,000
<u>Total Cost</u>	<u>\$362,000</u>

Emergency repairs are typically contracted with a general contractor. In this case, there are multiple contracts which mostly involve emergency response and equipment replacement. To protect public health and safety and to complete the repairs of the contract as soon as possible, staff is recommending the City Council ratify the City Manager's approval of the contracts listed above in the detailed cost estimates.

**Recommended**

**Action:** STAFF RECOMMENDS THAT the City Council:

1. Make a finding that an emergency exists due to the failure of the existing sewer pump station and that the situation requires immediate action to prevent or mitigate

impairment to property and public services, that might otherwise occur if required to incur delays attributed to the typical engineering design and public competitive bidding process;

2. Declare that the public interest and necessity demand the immediate expenditure of public funds to safeguard public health;
3. Approve a supplemental appropriation in the amount of \$387,000 to account number 054-473-43890-000-00000 from the Sewer Operating Fund and an appropriation in the amount of \$362,000 to account number 054-476-45300-000-15206 from the Sewer Fund Depreciation Reserve; and
4. Ratify contracts approved and proposed by the City Manager with Godwin Pump Company in the amount of \$316,000, Alexis Oil Company in the amount of \$18,900, Ed Stewart in the amount of \$1,600, American Integrated in the amount of \$11,500, Bradley Environmental in the amount of \$21,000, United Pumping in the amount of \$18,000, Little John Motor Shop in the amount of \$4,000, Evans Hydro in the amount of \$30,000, One Source/Allen Bradley in the amount of \$105,000, Emergency Generator Rental in the amount of \$9,000, MSA in the amount of \$9,000, Neal Electric in the amount of \$20,000, Automatic Transfer Switch Equipment and installation in the amount of \$25,000, Emergency Generator purchase and contractor to be determined in the amount of \$100,000 and authorize the City Manager to increase contract limits and equipment purchases up to a cumulative contingency limit of \$60,000.

**Attachments:** Location Map

**Notification:** None.

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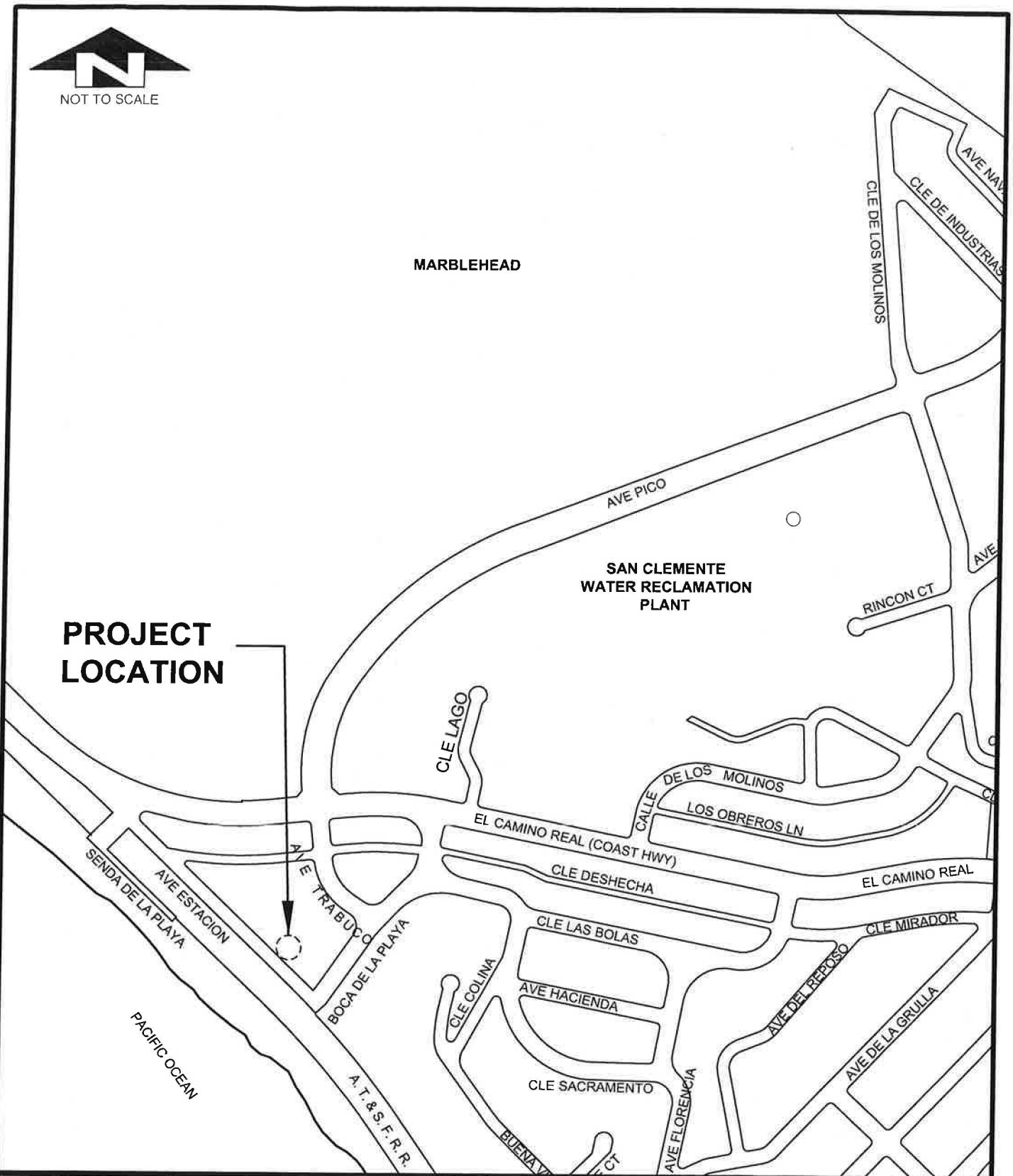


NOT TO SCALE

MARBLEHEAD

SAN CLEMENTE  
WATER RECLAMATION  
PLANT

PROJECT  
LOCATION



S:\graphics\Graphics CD\AutoCAD Engr Drawings\Location Maps\CAD\Location Plan (Admin Report).dwg Wednesday, April 15, 2015 11:38:13 AM



*City of San Clemente*

910 Calle Negocio, Suite 100  
San Clemente, CA 92673  
Tel (949) 381-8100  
Fax (949) 381-8316

**LOCATION MAP**

**EMERGENCY REPAIR TO  
MAIN PUMP STATION**

Project No. 15206