

TO: BOARD OF DIRECTORS  
FROM: MICHAEL S. LEBRUN *MSL*  
GENERAL MANAGER  
DATE: MARCH 8, 2013



**PRESENTATIONS AND REPORTS**

The following presentations and reports are scheduled;

- C-1) REPORT ON FEBRUARY 27, 2013 REGULAR MEETING CLOSED SESSION  
Announcement of actions, if any, taken in Closed Session
- C-2) DIRECTOR OF ENGINEERING & OPERATIONS  
RE: Summary of recent activities.
- C-3) DIRECTORS' ANNOUNCEMENTS OF DISTRICT & COMMUNITY INTEREST AND  
REPORTS ON ATTENDANCE AT PUBLIC MEETINGS, TRAINING PROGRAMS,  
CONFERENCES, AND SEMINARS.  
Receive Announcements and Reports from Directors
- C-4) RECEIVE PUBLIC COMMENT ON PRESENTATIONS AND REPORTS  
PRESENTED UNDER ITEM C AND BY MOTION RECEIVE AND FILE  
PRESENTATIONS AND REPORTS

TO: BOARD OF DIRECTORS  
FROM: MICHAEL S. LEBRUN *MSL*  
GENERAL MANAGER  
DATE: MARCH 8, 2013



## FEBRUARY 27, 2013 REGULAR MEETING CLOSED SESSION REPORT

### ITEM

Announcement of actions, if any, taken during Closed Session at previous Regular Meeting [NO ACTION REQUESTED].

### BACKGROUND

The February 27, 2013 Regular Meeting Closed Session included:

#### I. CLOSED SESSION ANNOUNCEMENTS

1. CONFERENCE WITH DISTRICT LEGAL COUNSEL RE: PENDING LITIGATION PURSUANT TO GC §54956.9 SMVWCD VS. NCSD (SANTA CLARA COUNTY CASE NO. CV 770214, SIXTH APPELLATE COURT CASE NO. H032750 AND ALL CONSOLIDATED CASES).
2. CONFERENCE WITH LEGAL COUNSEL RE: PENDING LITIGATION PURSUANT TO GC SECTION 54956.9, WHITLOW/NCSD (CASE # E20112E1116-00-APS FILED WITH THE DEPARTMENT OF FAIR HOUSING AND EMPLOYMENT)
3. CONFERENCE WITH LEGAL COUNSEL PURSUANT TO GOVT. CODE §54956.9(b):  
Anticipated litigation - 1 case
4. CONFERENCE WITH LEGAL COUNSEL RE: PENDING LITIGATION PURSUANT TO GC SECTION 54956.9; NCSD VS. COUNTY SLO, ET AL. (CASE #CV090010)

Staff will report on closed session action taken, if any.

TO: BOARD OF DIRECTORS

FROM: MICHAEL S. LEBRUN *MSL*  
GENERAL MANAGER

DATE: MARCH 8, 2013

**AGENDA ITEM**

**C-2**

**MARCH 13, 2013**

**DISTRICT DIRECTOR OF ENGINEERING AND OPERATIONS  
SUMMARY OF ACTIVITIES**

**ITEM**

Report on recent engineering and operations activities [NO ACTION REQUESTED].

**BACKGROUND**

Director of Engineering and Operations Peter V. Sevcik will review the attached written update.

**RECOMMENDATION**

Staff recommends that your Honorable Board receive the update and ask questions

**ATTACHMENT**

- A. Engineering and Operations Update

MARCH 13, 2013

ITEM C-2

ATTACHMENT A



# NIPOMO COMMUNITY SERVICES DISTRICT

148 SOUTH WILSON STREET  
POST OFFICE BOX 326  
NIPOMO, CA 93444 - 0326  
(805) 929-1133 FAX (805) 929-1932  
Web site address [www.ncsd.ca.gov](http://www.ncsd.ca.gov)

## MEMORANDUM

TO: MICHAEL S. LEBRUN, P.E., GENERAL MANAGER *MSL*  
FROM: PETER V. SEVCIK, P.E., DIRECTOR OF ENGINEERING & OPERATIONS *P.V.S.*  
DATE: MARCH 7, 2013  
RE: ENGINEERING AND OPERATIONS UPDATE

### PROJECTS IN CONSTRUCTION

- **Southland WWTF Phase 1 Improvement Project**
  - SCOPE OF WORK - Phase 1 improvements to the treatment plant include an influent metering station, influent pump station, influent screening system, grit removal system, Biolac® extended-aeration system and two final clarifiers as well as gravity belt thickener and lined drying beds for biosolids handling.
  - STATUS
    - Construction in progress
    - Scheduled Contract Completion May 2014

<b>Construction Contract Cost Summary</b>	
Contract Amount – Cushman	\$10,224,900.00
Change Orders	\$20,854.00
Revised Contract Amount	\$10,245,754.00
<b>Completed to Date</b>	<b>\$2,392,592.98</b>

<b>Project Cost Summary</b>	
Description	Contract Amount
Design – AECOM	\$1,525,120
Construction Management – MNS	\$1,276,560
Construction Management Contingency	\$65,000
<b>Subtotal</b>	<b>\$2,866,680</b>
Revised Construction Contract – Cushman	\$10,245,754
Construction Contingency Remaining	\$479,146
<b>Subtotal</b>	<b>\$10,724,900</b>
EIR and Permitting	\$115,370
<b>Estimated Total Project Cost</b>	<b>\$13,706,950</b>

- **SCADA Upgrade Project**

- SCOPE OF WORK – New SCADA system servers, SCADA software, SCADA software configuration, reconfiguration of all existing remote site control panels, and re-programming of all existing Programmable Logic Controllers (PLC) at all existing remote site control panels
- BUDGETED PROJECT COST \$350,648
- STATUS
  - As-builts pending
  - Completion of training pending
  - Scheduled completion March 2013

<b>Construction Contract Cost Summary</b>	
Implementation Services	\$318,648.00
Change Order	\$24,794.00
Revised Contract Amount	\$343,442.00
Remaining Contingency	\$7206.00
<b>Estimated Total Project Cost</b>	<b>\$350,648.00</b>

- **Blacklake Well #4 Pump Replacement Project**

- SCOPE OF WORK - Replacement of existing well pump, motor, column pipe and discharge piping assembly, downhole well video survey, installation of a new pump control valve, pressure relief and surge anticipating valve, gate valves, check valve, flow meter, air release valve, sounding tube, chlorination tube, transducer tube, service saddles, blowoff piping, and electrical system upgrade.
- STATUS
  - Contract awarded
  - Pre-construction meeting pending

<b>Construction Contract Cost Summary</b>	
Contract Amount – Sansone	\$202,086.25
Change Orders	\$0.00
Revised Contract Amount	\$202,086.25
<b>Completed to Date</b>	<b>\$0.00</b>

<b>Project Cost Summary</b>	
Description	Contract Amount
Construction Management – Cannon	\$38,860.00
Construction Management Contingency	\$5,000.00
<b>Subtotal</b>	<b>\$43,860.00</b>
Revised Construction Contract – Sansone	\$202,086.25
Construction Contingency Remaining	\$10,000.00
<b>Subtotal</b>	<b>\$212,086.25</b>
<b>Estimated Total Project Cost</b>	<b>\$255,946.25</b>

## **PROJECTS IN DESIGN AND PLANNING STAGES**

- **Supplemental Water Project**
  - SCOPE OF WORK – 2,600 lineal feet 24-inch diameter HDD bore, 4,800 lineal feet of 18-inch diameter waterline, 2,726 lineal feet of 24-inch waterline, 300 lineal feet levee crossing jack and bore, flow meter and flow control station, 400 gallon per minute pump station with back-up power, controls, and instrumentation systems, a pressure reducing station and chloramination systems at 4 existing District wells
  - STATUS
    - Project out to bid
    - Pre-bid meetings 3/8
    - Bids due week of March 26
- **Water and Sewer Master Plan Implementation**
  - Standpipe Tank Inlet Modification and Interior Rehabilitation
    - Design in progress

## **ENGINEERING AND OPERATIONS REORGANIZATION**

- **Personnel**
  - Assistant Engineer hired – April 1, 2013 start date
  - Wastewater Supervisor recruitment underway
- **Transition Plan**
  - Developing written transition plan
  - Coordinating with Utility Superintendent and Water Supervisor

## **OTHER PROJECTS AND PROGRAMS**

- **Safety Program**
  - Quarterly safety meeting for all District employees on February 14
  - Annual electrical safety, lock-out/tag-out and confined space refresher training for all Operations employees on February 22
  - Continued to coordinate on-line safety training for all District Employees
- **Development Oversight**
  - Maria Vista Estates – Sunwood and Rialto Capital
  - Tract 2650 – Via Concha - Greg Nester Construction
  - CO 05-0176 – Primrose – Coker Ellsworth

**MEETINGS**

- 2/4 – Supplemental Water Alternatives Evaluation Committee
- 2/7 – Personnel Committee
- 2/7 – Southland WWTF Phase 1 Improvement Project construction progress
- 2/8 – NMMA
- 2/12 – Supplemental Water Project Team meeting
- 2/12 – Blacklake Sewer Master Plan – BLMA meeting
- 2/14 – Southland WWTF Phase 1 Improvement Project construction progress
- 2/14 – Management coordination meeting
- 2/15 – Supplemental Water Alternatives Evaluation Committee
- 2/19 – Second round Assistant Engineer candidate interview
- 2/20 – Second round Assistant Engineer candidate interview
- 2/20 – Operations/Engineering Coordination meeting
- 2/21 – Southland WWTF Phase 1 Improvement Project construction progress
- 2/21 – Second round Assistant Engineer candidate interview
- 2/28 – Southland WWTF Phase 1 Improvement Project construction progress

**ATTACHMENT**

- February 2013 Southland WWTF Improvements Phase 1 Project Monthly Construction Progress Report

# **Nipomo Community Services District**



## **Southland WWTF Improvements Phase 1 Project Monthly Progress Report**



Prepared By:  
MNS Engineers, Inc.

## **February 2013**

# Schedule and Budget Summary

## Schedule Summary

Notice to Proceed	July 30, 2012
Original Contract Days	645
Contract Days Added	0
Revised Contract Days	645
Elapsed Time (Days)	(213)
Remaining Time (Days)	432
Contract Completion Date	May 6, 2014
Time Elapsed to Date	33%
Work Completed to Date	23%
Approved Change Orders (Days)	0 days

## Budget Summary

Original Contract Amount	\$10,224,900.00
Approved Change Orders (Cost)	\$20,854.00
Revised Contract Amount	\$10,245,754.00
Previous Payments	\$2,094,142.97
Current Month Pay Request	\$298,450.01
Total Work Completed	\$2,392,592.98
Work Remaining	\$7,853,161.02

# Progress Summary

## Process 40 & 80 Aeration & Emergency Basins

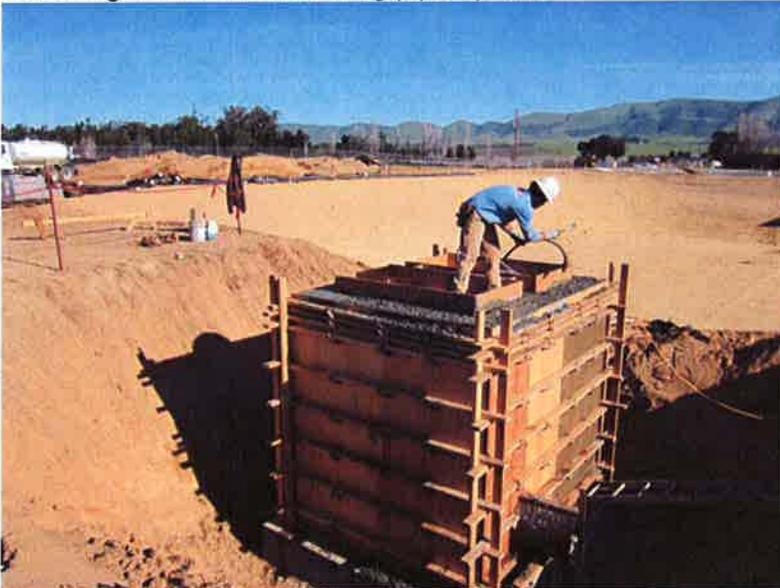
### Summary of Work:

Cushman completed forms, reinforcement and installation of the pipe penetrations for the two effluent weir boxes, then poured both. After forms were removed, tie holes were patched, and when the concrete reached full strength, the weir boxes were water leak tested. Next the 18" ML pipe between the basins was installed and the pipe and weir boxes were pressure tested to 10 psi per the specifications. Cushman excavated for the effluent pipe concrete aprons and the catch basins at the bottom of both the Aeration Basin and the Emergency Holding Basin, then installed the 6" SD piping to the catch basins and poured the effluent aprons and the catch basins together.

### Pictures:



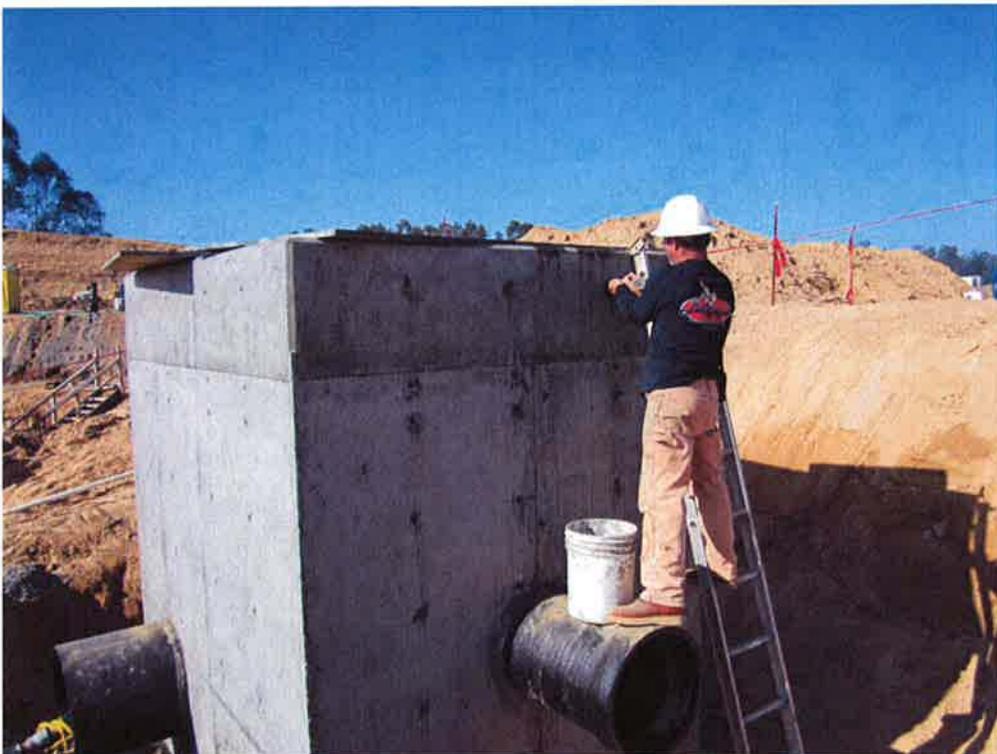
Finishing forms and installing pipe spoils for the effluent weir boxes.



Pouring effluent weir box at the Aeration Basin.



Removing forms from effluent weir box at the Aeration Basin.



Patching form tie holes on the weir boxes.



Couplings installed and wrapped with wax tape at the Aeration Basin weir box.



Installing 18" ML pipe between weir boxes.



Backfilling over 18" ML pipe between weir boxes and placing warning tape.



Water testing the weir box at the Aeration Basin.



Installing the 6" SD pipe to the catch basin at bottom of the Aeration Basin.



Installation of the 6" SD pipe and forming of the catch basin at the bottom of the Aeration Basin.



Pouring the effluent pipe concrete apron and the catch basin at the Emergency Holding Basin.



Applying curing compound to the concrete apron for the effluent pipe in the Aeration Basin.

## **Process 45 Electrical/Blower Building**

### **Summary of Work:**

Bergelectric, the electrical subcontractor for Cushman, completed installation of various sizes of under-slab conduits on the motor control center (MCC) side of the Electrical/Blower Building and then poured 20 yards of one-sack slurry over the conduit to make a stable base for backfill and construction of the building, without damage to the conduit.

### **Pictures:**



Conduit installation below the foundation on the MCC side of the Electrical/Blower Building.



Pouring slurry for backfill around the conduits under the Electrical/Blower Building foundation.



Working slurry into spaces between conduits.



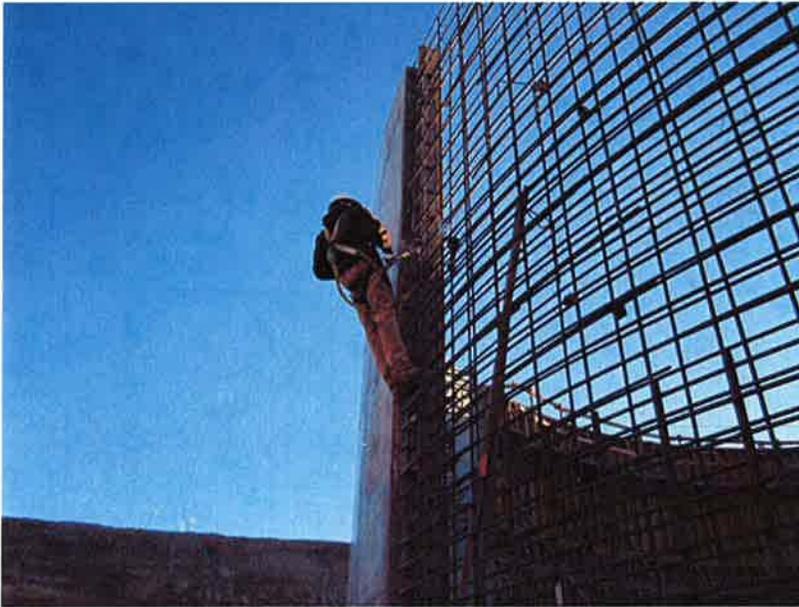
Completed slurry placement at Electrical/Blower Building.

## **Process 50 – Secondary Clarifier No. 1 and 2.**

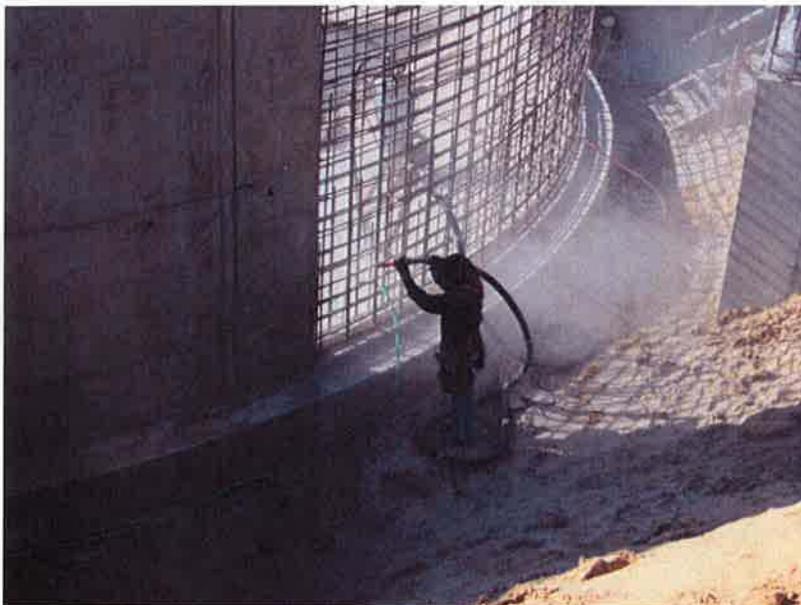
### **Summary of Work:**

Cushman completed construction of the remaining wall section on both clarifiers and began surface preparation for sealant – patching form tie holes, sand blasting construction joints, applying joint sealant in Clarifier #1, and general cleaning up and patching of concrete. Cushman also backfilled around the RAS/WAS pump stations and set rebar and forms in place to prepare for pouring the top half of the structures. Coatings sub-contractor, KNK is on site to coat clarifier mechanisms. They set up a large tent for a controlled work space environment, then blasted rust from the mechanism pieces before coating with a primer and a final coat.

### **Pictures:**



Removing forms from construction joints.



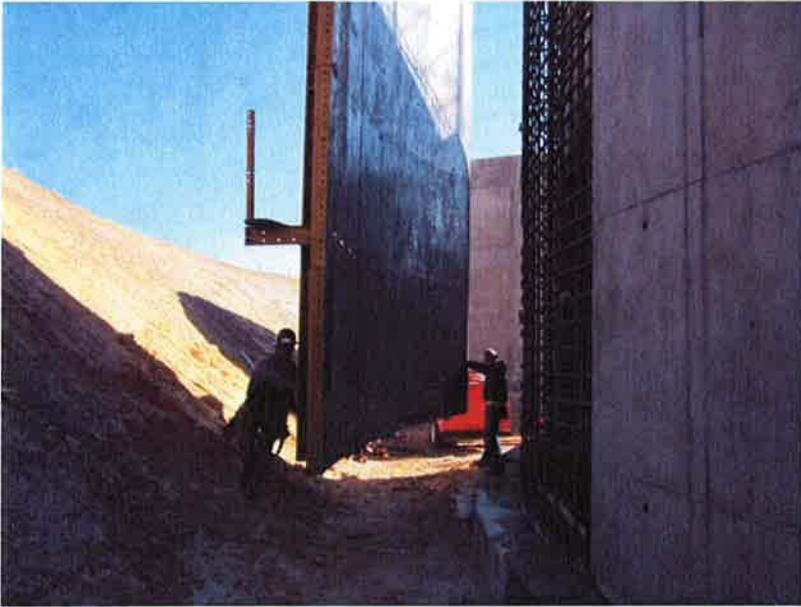
Sand blasting construction joints.



Swinging wall forms into place at Clarifier #2.



Setting inside forms at Clarifier #2.



Closing outside forms at Clarifier #2.



Finishing the top of the last wall section to be poured at Clarifier #2.



Pour completed at Clarifier #2 for the last wall section of the Clarifiers.



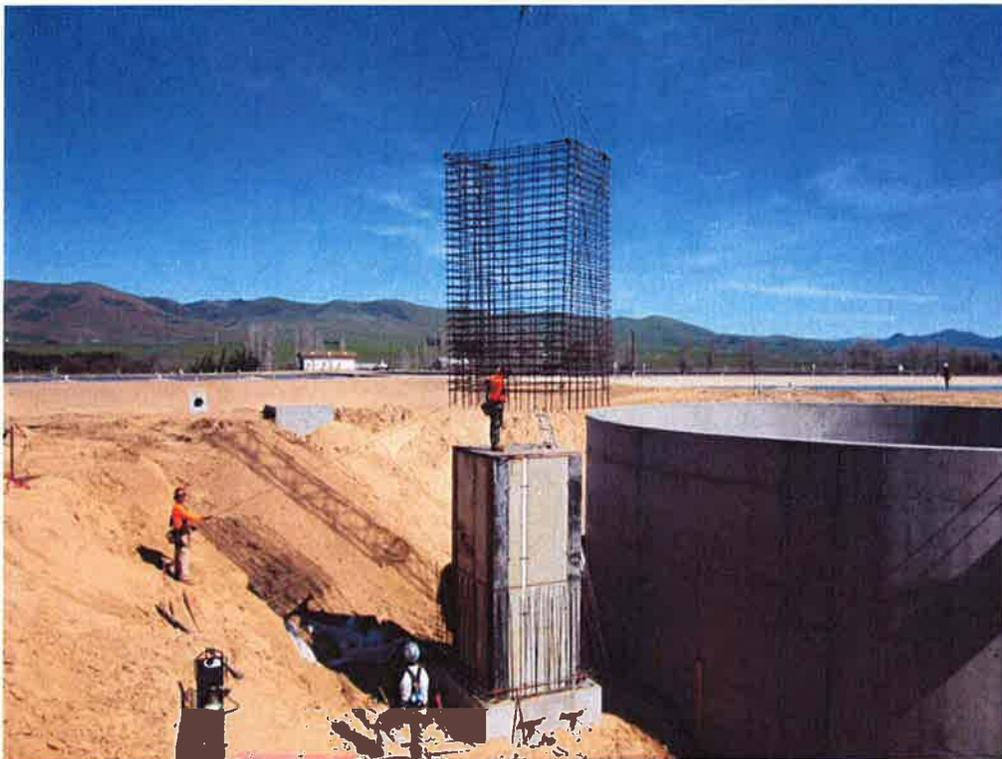
Cleaning up inside of clarifiers and patching form tie holes to prepare for sealant application.



Reinforcement steel for the top half of the RAS/WAS pump stations.



Setting inside forms for RAS/WAS Pump Station #2.



Lowering reinforcing steel into place over the inside forms of RAS/WAS Pump Station #2.



Setting reinforcing steel at RAS/WAS Pump Station #2.



Coating tent for clarifier mechanisms.



Blasting corrosion off clarifier mechanisms to prepare for primer.



Applying primer to clarifier mechanisms.



Clarifier mechanism parts after being primed.

## **Change Orders**

### **5. Extra Aggregate Under Clarifiers & RAS/WAS Pump Stations**

The Specifications required that 6-inches of aggregate base material be placed under the clarifiers and the RAS/WAS pump stations, and the Drawings called for 12-inches. Since the Specifications take precedence, and it was verified by AECOM that 12-inches, as shown on the drawings, was the actual required thickness, this change order is for the cost of the materials, equipment and labor to install the additional 6-inches of aggregate base.

**Final Cost: \$15,372.**

### **6. Tesco/SCADA Scope Changes**

When the District solicited bids for the Southland WWTF, they were also working on upgrades to the District's SCADA system with Tesco. The Contract Documents specified the District would provide the SCADA system work, allowing the District to have the same system at the WWTF as the rest of the District facility upgrades. When bids were opened, it was discovered Cushman Contracting was also using Tesco for other work at the WWTF project. This change order will shift all the work Tesco would have done for the District at the WWTF, to contract with Cushman, putting Tesco under the supervision of Cushman for ease of coordination and scheduling at the WWTF. This change order also includes some modifications to the SCADA specifications.

The final cost and time impacts for this change order are currently under negotiations, and are expected to come before the Board for approval within the next couple months.

### **7. Native Sand/Weir Box Testing**

This change order includes two separate changes, which combined, result in a no cost change order to the District.

The Contract Documents required the Contractor to import sand material for specific backfill areas. Cushman tested the native material and determined it met the same specifications required for import sand material. They submitted a formal request to use the native material instead of importing sand, which was accepted. Since import was required, a credit was due to the District for sand not imported.

The Contract Documents did not specify water leak testing for the weir boxes at the Aeration Basin and the Emergency Holding Basin. It was determined leak testing should be done at these structures, resulting in a cost to the District.

MNS Engineers evaluated the credit for the native sand and the cost for the testing and agreed with Cushman that these two items would be a fair exchange for one another, resulting in a single **No Cost** change order.