



CITY OF STOCKTON

OFFICE OF THE CITY MANAGER

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August 24, 2016

Honorable Lesley D. Holland, Presiding Judge
San Joaquin County Superior Court
P. O. Box 201022
Stockton, CA 95201

FOLLOW-UP REPORT TO 2014-2015 GRAND JURY FINAL REPORT CASE NO. 1412 - STOCKTON MUNICIPAL UTILITIES DEPARTMENT

The following responses address the 2015-2016 findings and recommendations of the San Joaquin County Grand Jury investigation Case No. 1412.

Findings

F1.1 *The City said the IPS ground settling draft plan to help predict future conditions is in need of further development with anticipated completion in the summer of 2016. At that time, MUD will prepare a summary report of ground settling at the IPS and recommended associated repairs and costs for the City Council.*

HDR, Inc. was retained by the MUD to study the impacts of levee settlement on structural, electrical, drainage, and pipeline components of the IPS facility. In addition, the study prioritized a list of recommended improvements and estimated costs for the recommended improvements. The study (enclosed) was completed in July, 2016. A number of repairs have been completed and additional repairs are scheduled in the current fiscal year as specified below.

Recommendation

R1.1 *The 2015-2016 Grand Jury requests City Council direct (through the City Manager) the Director of MUD by October 1, 2016 follow-up on the draft plan recommendations to help predict future conditions, and the summary report of ground settling and recommended associated repairs and costs.*

Response: The July 2016 study identified a list of IPS improvements to driveways, doorways, masonry walls, site grading, electrical conduits, drainage, sewer system, 54-

inch and 16-inch pipelines, and water well necessary to correct the damage caused by the settlement. The list of improvements were ranked based on criticality. The highest priority and the most critical repairs are corrections to all issues that will prevent the pump station facility from functioning properly and providing raw water to the Delta Water Supply Treatment Plant. The next priority of repairs were those relating to safety, followed by security issues, future functional and non-functional issues, and finally, issues relating to aesthetics. Some of the improvements are as follows:

- Repairs to electrical conduits compromised because displacement (Criticality 1)
- Repair to non-potable well (Criticality 1)
- Repairs of driveways displaced (Criticality 2)
- Repairs to leaning masonry wall (Criticality 2)
- Repairs to uneven pavement (Criticality 2)

The cost of the listed improvements was estimated at \$590,000. IPS repair costs are programmed in the 2016-2021 Capital Improvement Program (CIP), with \$500,000 budgeted in the current fiscal year to address Criticality 1 repairs. Additional ongoing repairs will be budgeted in the five year CIP.

The improvements completed to-date at the IPS include: installation of flexible transitions to electrical conduits to mitigate for stress on electrical systems caused by settlement; replacement of expansion and offset joints on the 54-inch pipeline to ensure continuous and reliable raw water delivery to the treatment plant; and repair of well utilized to supply water for pump station operations.

Findings

F1.2 *Regarding the H₂S pilot study, MUD will prepare a pilot test report and an H₂S reduction summary for the City Council in the summer of 2016.*

MUD completed the H₂S pilot study (enclosed) in July, 2016.

Recommendation

R1.2 *The 2015-2016 Grand Jury requests City Council direct (through the City Manager) the Director of MUD by October 1, 2016 provide the 2016-2017 Grand Jury a copy of the pilot test report and H₂S reduction summary and the settlement design plan described in R1.1 in the 2014-2015 report scheduled to be completed by summer 2016 to be forwarded to the 2016-2017 Grand Jury.*

Response:

MUD completed the H₂S pilot study that documented the effective application rate of sodium hydroxide in Collection Systems 7 and 8 to control atmospheric H₂S. In short, the pilot study helped to determine the appropriate chemical treatment to effectively control corrosive gases in the collections system. The pilot study

commenced in June 2015 and was completed in December 2015 and concluded the following for Collection System 7 & 8 hydrogen sulfide control:

- A one-time 2,000 gallons dose of sodium hydroxide recommended by US Peroxide significantly increased the pH level of incoming sewage and impacted the treatment process;
- Chemical addition to Collection System 7 has been temporarily suspended and MUD staff is continuing to monitor hydrogen sulfide levels and chemical addition will be re-introduced if needed;
- Continue to apply sodium hydroxide to Collection System 8 but at a modified dosage and frequency. The new recommended dosage is 700 gallons of sodium hydroxide per day, three times per week.

Response to the settlement design plan described in R1.1 is provided in response to R1.1 above.

Findings

F1.3 *Of the original 29 safety program areas; 12 have been completed, three are in progress, six have yet to be started and eight are on hold pending additional funding or alternative training options. MUD will not complete the program until early 2017.*

MUD continues to make progress towards completing the development and training associated with all 29 safety program areas. Most notably, MUD hired a Safety Manager and an Occupational Health/Safety Specialist earlier this year to take over program development and implementation from NES, Inc.

Recommendation

R1.3 *The 2015-2016 Grand Jury requests City Council direct (through the City Manager) the Director of MUD by October 1, 2016 prepare a report describing the high priority repairs to be completed in 2016 be forwarded to the 2016-2017 Grand Jury.*

Response: Provided in response to R1.1 above.

R1.4 *The 2015-2016 Grand Jury requests City Council direct (through the City Manager) the Director of MUD by January 1, 2017 to assign and meet benchmarks for the Safety Programs being developed by NES, Inc. and report to the City Council annually on its progress.*

Response:

As stated above in response to Finding F1.3, MUD has hired a Safety Program Manager and an Occupational Health/Safety Specialist to assume management of MUD's Safety Program from NES, Inc. As of July 28, 2016, of the original 29 programs, 15 have been completed. Three are completed pending review and signature, which

include Industrial Hygiene, Chemical Hygiene and Fall Protection. Six are in progress including Confined Space (due August 30), Lock Out-Tag Out (due September 30), Injury, Illness and Prevention Plan (October 30), Respiratory Protection (due October 30), Excavation, Trenching, Shoring (due November 30) and Emergency Preparedness (due December 30). Five programs have not been started or have limited development.

For 2017, development of the safety programs will be completed by staff as reliance on the safety consultant is reduced and eventually discontinued. MUD staff have scheduled the completion of one program or program update every 90 days until the final five programs are completed and approved. Annual training will be facilitated for all current programs as well as any programs that have received updates through the Safety Division in 2017. We are currently conducting daily, weekly and monthly safety audits to determine the best use of resources and the inspections will be prioritized based upon our findings from current 2016 inspections and audits going forward. Updates to the Safety Program will be contained in the MUD Monthly Operations and Maintenance Reports beginning in September, 2016.

There are no budget issues as alternative training options have been completed to include the hiring of an OSHA Compliance Specialist and a Safety Manager to replace the consulting contractors from NES.

Please do not hesitate to contact me if you have any questions.

KURT O. WILSON
CITY MANAGER

KOW:

Attachment A - Item Nos. F2.1 and R2.1
Attachment B - Item Nos. F2.2 and R2.2

cc: Mayor and City Council
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