



August 30, 2020

(Via electronic mail)

To:
City of Richmond
Yader A. Bermudez
Director of Public Works
450 Civic Center Plaza
City of Richmond, CA 94804

Subject: July-2020 Monthly Operations Report

From:
Brian K. Bruce
General Manager, Veolia-Richmond
Municipal & Commercial
VEOLIA NORTH AMERICA
601 Canal Boulevard, Richmond, CA 94804

Mr. Bermudez,

Section 5.11 of the 2002 CITY OF RICHMOND WASTEWATER TREATMENT FACILITY CAPITAL IMPROVEMENTS, OPERATIONS, MAINTENANCE AND MANAGEMENT AGREEMENT BY AND BETWEEN THE CITY OF RICHMOND, CALIFORNIA AND VEOLIA NORTH AMERICA (as amended, the Agreement) states (in part), *"The Company shall submit to the City a monthly progress report detailing work accomplished and an updated schedule. The monthly progress report shall include a summary of work activities during the reporting month, a listing of upcoming work activities, a listing of submittals delivered during the reporting month, a listing of submittals scheduled for delivery the following month, a listing of any permit violations, and an updated schedule which reflects critical path activities. The updated schedule shall set forth major activities and reflect any change in the Company's estimated construction progress schedule from the schedule submitted the prior month."*

Therefore, the following Monthly Operations Report is being submitted pursuant to Section 5.11 of the Agreement.

Monthly Operations Report: July-2020

- I. Summary of work activities during the reporting month July 2020
 - a. Safety
 - i. There were no OSHA Recordable Incidents or Lost Time Accidents
 - b. Capital Projects Management
 - i. Baykeeper Settlement Agreement Projects
 1. Year-2 Sewer Pipe Rehabilitation project – Risk Assessment Analysis (RAA) project
 - a. The City decided to stop construction work on this project and utilize O&M emergency pipe segment repairs to fulfill the remaining mileage required under the Baykeeper Order. All initial work authorized by the City under the 2019 RAA project was completed by June 30, 2020.
 - b. Status of complete as of 6/30/2020
 - i. Miles completed under the 2019 RAA project: 1.08 miles
 - ii. Miles pending approval of bid item Substitutes and/or Proposed Change Order to bid items: 0.72 miles (as of the end of June)
 - iii. Miles removed from project: 0.23 miles
 - iv. PCO #7 (segment repair at 23rd and Garvin) was approved by the City on June 29, 2020.
 - v. PCO #34 (segment repair at Barrett/34th Street) was approved by the City on July 22, 2020.
 2. Capacity-related sewer projects
 - a. Cutting/Carlson & Hoffman
 - i. The project was substantially complete by the revised completion date of March 15, 2020 provided to Baykeeper.
 - ii. Updated CCTV indicated Plan Line Q required complete replacement and additional work on Plan Lines R&T; Line Q work was completed and work is commencing on Plan Lines R&T; Staff is awaiting completion and acceptance of final post-construction CCTV.
 - iii. CCTV work was completed on July 24, 2020; video files were delivered to Veolia for review.
 - iv. A TA Change Order will follow.
 - b. Macdonald & Virginia
 - i. By the end of July 2020, the Contractor had installed approximately 15,780 (13,230 If Macdonald; 2,550 If Virginia) of linear feet of main pipe and laterals.
 - ii. Change Order No. 1 TA for a replacement manhole was approved by the City on May 7, 2020.
 - iii. The Project is on schedule and is anticipated to be complete by January or February 2021, well before the June 30, 2021 Baykeeper deadline.

Monthly Operations Report: July-2020

c. First Street Design

- i. Vivian W. Housen & Associates continued its design of the First Street sewer relief in July.
- ii. Design work is proceeding; 60% design drawings were received the week of May 4, 2020.
 1. Pursuant to City direction, two pipe segments have been identified as problematic due to operational concerns that they could contribute to SSOs;
 2. Bid documents for this project are anticipated in August; preliminary construction documents are anticipated to address the two pipe segments prior to the entire original project bidding and award.

d. Bush & Hayes Sag

- i. During construction of the 13th and 23rd Street pipe replacement project, it was discovered that the existing concrete duct bank at Bush and 23rd was constructed around an existing sewer line within Bush Avenue. In order to replace the sewer line, the contractor crossed under the AT&T duct bank creating a low point in the system that collects debris. In an effort to improve this situation, the City and Veolia tasked Vivian Housen & Associates (original 23rd designer) to design a solution.
- ii. Vivian Housen & Associates identified reconfiguration of the existing utilities to a more shallow installation that will enable the City to move the sewer line back to its original vertical elevation; that design work was completed earlier this year.
- iii. AT&T completed its work of moving the duct bank.
- iv. The City directed Veolia to solicit competitive bids for the 40-ft long sewer line realignment
- v. The City authorized W.R. Forde to complete the work.
- vi. Forde received the encroachment permit in July and completed the necessary construction change order work on July 17, 2020. What remains is the City to approve the TA authorizing the change order; invoicing to follow.

ii. Manhole Rehabilitation Program

1. The FY19/20 Manhole Rehabilitation Project opened bids on January 30, 2020; the project was awarded to W.R. Forde.
2. A Task Authorization was prepared and submitted to the City in early March. The project was approved at the May 19, 2020 Council Meeting.
3. Veolia received the executed TA from the City on June 22, 2020
4. Subcontracting was completed on July 16, 2020, and the Notice to Proceed was issued July 21, 2020 effective July 27, 2020.

Monthly Operations Report: July-2020

iii. Wastewater Treatment Plant Projects

1. The bid documents for the Grit/Screening and Aeration Upgrade Projects (as part of the High Priority Project) continued to be reviewed for constructability. Three rounds of comments were submitted to Carollo (designer) by Veolia re project document preparation; Carollo responded to the constructability comments in late July; the responses are under review by Veolia. Bid documents were also forwarded to the City's Public Works Department in late May 2020 for review; no comments have been received to date.
2. The Cogen Project Phase I was ongoing in July, with remote meetings continuing due the COVID-19 constraints.
 - a. The Design Build Entity (DBE, C. Overaa Co.) is reviewing the subcontract
 - b. A draft Basis of Design Report (BODR) was submitted to the City in early June; the City provided initial comments, and Veolia continued its technical review in July.
 - c. Veolia provided the City with their review comments on July 14, 2020. Overaa (DBE) submitted draft BODR responses to Veolia's comments on July 27, 2020; those responses are under review.
3. The SCADA (Supervisory Control and Data Acquisition) Phase I Project, which replaces the existing SCADA system and maintains the upgrade, was ongoing in July. The Phase I portion is expected to be complete by December 2021.
 - a. A No Cost Change Order 1 TA was submitted to the City in June to switch out Task 5 (Remote telemetry network audit for Plant Ethernet audit); that TA is still pending.
 - b. Calcon (Subcontractor) continued server integration into the SCADA system, screen construction, rollout of the ignition system usage, functionality test, reports, charts, etc.
4. Seismic Evaluation – The City selected ZFA Structural Engineers. The project was approved by Council on March 3, 2020, and a TA was submitted to the City on March 30; the TA was approved on May 7, 2020, and contracting documents were completed in June. A kick off meeting was held on June 30, 2020. July was spent gathering documentation for the project (i.e., past Plant project documentation, record drawings, etc.)
5. Sludge Thickener Project (Design/Build) – RFQs were received on January 10, 2020, and evaluated on January 21, 2020.
 - a. A final RFP was submitted to the City in June with the updated sample design-build contract.
 - b. The City provided comments on June 24, 2020; Veolia is in the process of responding.

Monthly Operations Report: July-2020

- c. A general construction contract template is under review to add to the bid package; the City and Veolia are in discussions regarding method delivery for the project (i.e., progressive Design-Build vs. Design-Bid-Build)
 - iv. Storm Water Projects
 - 1. Trash Capture Device –
 - a. A new Trash Capture Device project was decided on for a Bayview location. This item was initially presented to the City Council for review and approved in May.
 - b. A Task Authorization (TA) for the new installation was submitted to the City by Veolia on July 14, 2020, and it was approved by the City Council on July 28, 2020. The fully executed TA was returned to Veolia by July 30, 2020.
 - c. A site visit with all participating entities (City, Veolia, designer, equipment manufacturer and Construction contractor) was completed on July 28, 2020
 - d. Targeted date for draft design is the week of 8/17 and final design is end of August.
 - e. Targeted start of construction is late November/mid December 2020
 - v. Other Projects
 - 1. Sewer Master Plan Update
 - a. The final System Evaluation and Capacity Assurance Plan (SECAP) was submitted to the City on November 15, 2019.
 - b. City planning to have City Council adopt report once Baykeeper comments have been submitted.
 - c. A meeting to discuss Baykeeper comments with Nicole Granquist of Downey Brand was held on July 27, 2020.
- c. Collections Systems and Wastewater Treatment Plant Operations and Maintenance
 - i. Collection Systems Operations and Maintenance
 - 1. Baykeeper Settlement Agreement Projects
 - a. The 2020 RAA was re-submitted to Baykeeper on 5/28/2020
 - i. The City of Richmond, in their submission of the 2020 RAA to Baykeeper, requested relief for one year in the requirement to repair an average of 2-miles/year of pipe segments having PACP Grade-5/4 defects such that the funds required for this work could be used instead to address the remaining inaccessible pipe segments reported in the 2020 RAA as requiring repairs, so that the CCTV condition assessment of the entire wastewater collection system can be completed. At present, Veolia-CPM is completing the preparations for a project to address the reported 2020 RAA inaccessible pipe segments; it has not been

Monthly Operations Report: July-2020

determined at this time whether or not the entire list of inaccessible pipe segments are to be repaired under a single project.

2. 4-year out wastewater system cleaning progress
 - a. Actual miles of system cleaned in 2020 = 99.92
 - i. 2020 miles planned for cleaning = 50.8
 - ii. 2004 Amendment #1 annual cleaning miles objective = 49.8
3. 10-year Out wastewater system CCTV condition assessment progress
 - a. Actual miles of system CCTVd in 2020 = 35.74
 - i. 2020 miles planned for cleaning = 19.7
 - ii. 2004 Amendment #1 annual CCTV miles objective = 19.7
 - b. Total gravity pipe segments in system reporting in InfoNet = 3654
 - i. Pipe segments with CCTV < 10-years = 3600
 - ii. Pipe segments with CCTV > 10-years = 54
 1. (34) pipe segments CCTV pending
 - a. (28) Pipe segments have been attempted but are currently inaccessible due to various reasons. (Cars parked on manholes, weather conditions, private property, etc.)
 2. (0) pipe segments needing point repairs before CCTV can be completed
 - a. To be determined, pending final determination from CPM and approval from the City
 3. (20) are Baykeeper exempt from CCTV-Keller Beach
 4. Total numbers varies in this category from last month due to changed status from active to abandoned
4. Sanitary Sewer Overflows
 - a. Actual SSO's in 2020 = 6
 - i. Permissible by Baykeeper Settlement Agreement = 24 (for 2020)
5. Customer Service Calls = 11
6. Emergency & Miscellaneous Repairs
 - a. Wastewater point repairs = 9
 - b. Manhole cover repair = 1
 - c. Storm water point repairs = 2
7. Storm water collection system progress
 - a. Customer service calls = 0
 - b. City service calls = 1
 - c. Catch basins cleaned = 0
 - d. Trash capture devices cleaned = 2
 - e. Pipe segment cleaned = 0
 - f. V-ditched cleaned = 0-Ft

Monthly Operations Report: July-2020

ii. Wastewater Treatment Plant Operations

1. Permit Violations – None

- a. Average daily flow = 4.74 MGD
- b. Peak daily flow = 9.91 MGD
- c. Effluent BOD/TSS mg/L = 18.47/23.97
 - i. Permit Limits for Effluent BOD/TSS mg/L = 30/30
- d. Plant Odor complaints = (3) 7/5, 7/25, 7/26
These were reported anonymously by email to BAAQMD.

2. Non-standard operating conditions

- a. Excessive grease accumulation reported at the primary clarifiers on multiple days
- b. Dense foam observed at Aeration and excessive scum accumulation at Secondary Clarifiers.
- c. Solids upwelling observed daily at Secondary Clarifiers starting 1130-1630 lasting until 0200-0330 the following day.
- d. Utility Plant Power failures on 7/7, 7/9

3. Regulatory agency reporting – All standard monthly reports submitted in a timely manner with no exceptions reported back from the regulator

iii. Collection System Pump Station and Wastewater Treatment Plant Equipment/Facility Maintenance

1. Total preventive maintenance work orders completed = 261

- a. Overhauled Digester Sludge Transport pump #2
- b. Overhauled RAS Pump #1
- c. Overhauled Keller Beach Flygt Submersible Pump

2. Total corrective maintenance work orders completed = 36

3. All wastewater treatment plant mission-critical and redundant systems and equipment were observed, maintained, and/or repaired as scheduled or as required

4. All Storm and wastewater collection system pump stations were routinely checked and maintained as scheduled

- a. Storm water pumps stations monitored = 8
- b. Wastewater pump stations monitored = 15

5. Special projects

- a. None

II. List of upcoming activities

- a. Continue discussions with City staff regarding prioritization and procurement delivery method for various maintenance and construction projects noted previously
- b. Continue planned CPM and O&M activities previously described in section I.b and I.c, respectively, above

III. List of submittals delivered recently.

Monthly Operations Report: July-2020

a. CPM

- i. On-Call Engineering Services on City Development Projects – sent 3/27/20 (in legal review).
- ii. SCADA Project No Cost Change Order TA – submitted to the City on June 22, 2020.
- iii. 2019-20 Sewer Segment Rehab Project, RAA Year Two Change Order 1 – submitted June 24, 2020.
- iv. Trash Capture Installation – Bayview – submitted on July 14, 2020; approved by the City on July 28, 2020; the fully executed TA was returned to Veolia on July 30, 2020.

b. O&M

- i. RAA/SECAP/Master Plan TA – Submitted March 27th, COR responded; it is with the attorneys
- ii. Boiler Burner #2 TA – Submitted May 20th, COR responded June 3rd; it is with the attorneys
- iii. NASSCO upgrade from 6.0 to 7 TA – Submitted May 19th
- iv. Collection Camera Cable Replacement TA – Submitted on 5/22, COR requested detail on 7/15, we provided on 7/21
- v. Collection Gas Detectors TA – Submitted 6/23/2020, COR asked further detail on 6/24, we provided requested detail on 6/26, COR asked further detail on 7/21, we provided on 8/10

IV. List of submittal scheduled for the following month

- a. To be determined

V. Listing of permit violations

- a. None for July

VI. Updated critical path schedule

- a. There are no current projects operating under a critical path method of delivery

VII. Other Project Discussion

- a. None