



June 22, 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: May-2020 Monthly Operations Report

From:  
Brian 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 ( 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 2002 services agreement.

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- I. Summary of work activities during the reporting month May-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. Notice to Proceed was issued March 6, 2020; W.R. Forde Associates continued work on replacement segments.
        - b. The project must be completed by June 30, 2020, in order to comply with a Baykeeper deadline.
        - c. Status of complete as of 5/31/2020
          - i. Miles completed: 1.37-miles
          - ii. Miles pending approval of bid item Substitutes and/or Proposed Change Order to bid items: 0.32-miles
          - iii. Miles removed from project: 0.13-miles
      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. Punch-list work continued through May (i.e., re-striping damaged street markings, final elements of CCTV work, etc.) – Curb repairs and street crosswalk restriping have been completed; underground work is complete; awaiting completion and acceptance of post-construction CCTV and submittal of as-builts
          - iii. 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
          - iv. A TA Change Order will follow
        - b. Macdonald & Virginia
          - i. By the end of May 2020, the Contractor had installed approximately 13,002 (11,637 If Macdonald; 1,365 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.
        - c. First Street Design

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- i. Vivian W. Housen & Associates continued its design of the First Street sewer relief in May.
  - ii. Design work is proceeding; 60% design drawings were received the week of May 4, 2020.
    - 1. Pursuant to City direction, two pipe segments will be put out to bid ahead of time to the pre-approved list of contractors due to operational concerns that they could contribute to SSOs; Task Authorization to follow.
- 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 23<sup>rd</sup> designer) to design the best 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. Full repair is anticipated in June 2020.
- 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.
- 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.
  - 2. The Cogen Project Phase I was ongoing in May, with remote meetings continuing due to the COVID-19 constraints. The issue of whether a heat capture system is necessary is being analyzed.

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3. The SCADA (Supervisory Control and Data Acquisition) Phase I Project, which replaces the existing SCADA system and maintains the upgrade, was ongoing in May. The Phase I portion is expected to be complete by December 2021.
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 are in process
5. Sludge Thickener Project (Design/Build) – RFQs were received on January 10, 2020, and evaluated on January 21, 2020. Veolia staff submitted a draft RFP, which the City had questions about. Veolia responded to those questions. Carollo Engineers provided a cost estimate which was given to the City in May; Veolia is working on design build contract language.

#### iv. Storm Water Projects

##### 1. Trash Capture Device –

- a. A new Trash Capture Device project is being planned for a Bayview location. This item was presented to the City Council for review and approved in May. City and Veolia Staff are working together for a new project to develop.

#### 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. 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. Inclusive to Veolia's submission of the 2020 RAA to the City of Richmond, 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 reporting 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; though it has not been determined at this time if whether or not the entire list of pipe inaccessible pipe segments are to be repaired under a single project

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- b. Veolia's 2020 February submittal of the Hotspot Cleaning List which doubles as the 2020 Annual Hotspot Cleaning List was submitted to the City on March 25<sup>th</sup>.
- 2. 4-year out wastewater system cleaning progress
  - a. Actual miles of system cleaned in 2020 = 56.01
    - i. 2020 miles planned for cleaning = 50.8
    - ii. 2004 Service Agreement annual cleaning miles objective = 49.8
- 3. 10-year Out wastewater system CCTV condition assessment progress
  - a. Actual miles of system CCTV'd in 2020 = 24.47
    - i. 2020 miles planned for cleaning = 19.7
    - ii. 2004 Service Agreement annual CCTV miles objective = 19.7
  - b. Total gravity pipe segments in system reporting in InfoNet = 3658
    - i. Pipe segments with CCTV < 10-years = 3516
    - ii. Pipe segments with CCTV > 10-years = 142
      - 1. (120) pipe segments CCTV pending
      - 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. (22) are Baykeeper exempt from CCTV-Keller Beach
      - 4. Total numbers changed in this category from last month's report due to relief lines being included in the numbers.
      - 5. 20 new segments imported into InfoNet with GIS update
- 4. Sanitary Sewer Overflows
  - a. Actual SSO's in 2020 = 4
    - i. Permissible by Baykeeper Settlement Agreement = 24 (for 2020)
- 5. Customer Service Calls = 7
- 6. Emergency & Miscellaneous Repairs
  - a. (9) wastewater point repairs
  - b. (1) manhole cover repair
  - c. (1) storm water point repairs
- 7. Storm water collection system progress
  - a. Customer service calls = 2
  - b. City service calls = 0
  - c. Catch basins cleaned = 2
  - d. Trash capture devices cleaned = 0
  - e. Pipe segment cleaned = 0
  - f. V-ditched cleaned = 0-Ft
- ii. Wastewater Treatment Plant Operations
  - 1. Permit Violations – None
    - a. Average daily flow = 4.99 MGD

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- b. Peak daily flow = 8.74 MGD
      - c. Effluent BOD/TSS mg/L = 16.29/15.36
        - i. Permit Limits for Effluent BOD/TSS mg/L = 30/30
      - d. Plant Odor complaints = (0)
    - 2. Non-standard operating conditions
      - a. Heavy Grease in Primary Clarifiers
      - b. High Scum Levels in Secondary Clarifiers
    - 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 = 188
    - 2. Total corrective maintenance work orders completed = 10
    - 3. All wastewater treatment plant mission-critical and redundant systems and equipment were observed and/or maintained and/or repaired as scheduled and/or 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. Semi-Annual Dystor Inspection Completed
      - b. Ferric Chloride Bulk Chemical Tank Drained, Cleaned and Inspected Back in Service.
- 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 during the month
  - a. CPM
    - i. Revised FY19/20 Manhole Rehabilitation REV 1 TA – sent 3/23/20; was approved by Council 5/19/20
    - ii. On-Call Engineering Services on City Development Projects – sent 3/27/20 (in legal review)
  - b. O&M
    - i. RAA/SECAP/Master Plan TA – Submitted March 27<sup>th</sup>, COR responded It is with the Attorney's
    - ii. Boiler Burner #2 TA – Submitted May 20<sup>th</sup>, COR responded June 3<sup>rd</sup>, It is with the Attorney's
    - iii. NASSCO upgrade from 6.0 to 7 TA – Submitted May 19<sup>th</sup>
    - iv. Collection Camera Cable Replacement TA – Submitted May 22<sup>nd</sup>
- IV. List of submittal scheduled for the following month

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- a. To be determined
- V. Listing of permit violations
  - a. None for May
- VI. Updated critical path schedule
  - a. There are no current projects operating under a critical path method of delivery
- VII. Other Project Discussion
  - a. CPM
    - i. None
  - b. O&M
    - i. None