



June 23, 2021

(Via electronic mail)

To:  
City of Richmond  
Joe Leach, P.E.  
Director of Public Works  
450 Civic Center Plaza  
City of Richmond, CA 94804

Subject: May - 2021 Monthly Operations Report

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

Dear Mr. Leach,

The following Monthly Operations Report is being submitted pursuant to 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 WATER WEST OPERATING SERVICES, INC.

- I. Summary of work activities during the reporting month May - 2021
  - 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 project:
          - i. PCO #7 (segment repair at 23<sup>rd</sup> and Garvin) was approved by the City on June 29, 2020; PCO #34 (segment repair at Barrett/34<sup>th</sup> Street) was approved by the City on July 22, 2020.

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- ii. All work is complete; a Task Authorization (TA) was submitted to the City for Change Order 1 on 6/24/20; a second TA for Change Order 2 for the above change order work was submitted on 12/7/20 for the City's review along with Change Order 1. CO2 was approved, but Veolia is still waiting for the TA for CO1 to be approved and returned.
2. Capacity-related sewer projects
- a. Cutting/Carlson & Hoffman
    - i. The project was substantially complete by the revised completion date of March 15, 2020.
    - ii. All work is complete; a Task Authorization (CO6) for Plan Line Q was submitted for the City's review on September 25, 2020. The work consisted of approximately 383 lf of pipe in Plan Lines Q, R and T, which was initially not done due to easement issues in 2019 but then subsequently reassessed as a full line replacement from the originally bid point repair; it was approved by the City in April 2020 and constructed. What remains is for the City to approve Change Order 6 TA so the contractor can be paid for this work.
    - iii. All CCTV and project as-builts were transmitted to the City on February 16, 2021. The only outstanding item is for the City to approve Change Order 6 TA which was submitted on September 25, 2020, so the contractor can be paid for this work.
  - b. Macdonald & Virginia
    - i. By the end of December 2020, the contractor WR Forde had installed approximately 17,895 linear feet (13,230 lf Macdonald; 4,665 lf Virginia) of main pipe and laterals.
    - ii. Pavement restoration and striping were completed in April 2021.
    - iii. WR Forde staff identified a leaking MH during construction, not planned for repair which requires repair/lining. The City requested a cost proposal to repair/line the MH. Forde provided an estimate and Veolia submitted a TA for Change Order 2 to the City on 2/8/21. Change Order 2 was executed and returned to Veolia on 4/8/21.
    - iv. Veolia and VW Housen staff completed review of the post construction CCTV and as-built record drawings. Veolia transmitted review comments including corrective work required to the contractor, W.R. Forde.
    - v. The leaking manhole was patched and new epoxy lining applied 5/20/2021. The remaining corrective work is scheduled for completion prior to June 30, 2021. The repaired lines will be re-CCTV'd and approved and as-built drawings updated accordingly.

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- c. First Street Design
  - i. V. W. Housen & Associates delivered its 100% design drawings of the First Street sewer relief in August. Veolia transmitted copies of the 100% submittal to the City for review on 8/19/20.
  - ii. Pursuant to City direction, two pipe segments have been identified as problematic due to operational concerns that they could contribute to SSOs (First and Bissell); these segments were separated out as a separate project in August.
  - iii. The First & Bissell project was posted for advertisement, bids were opened on October 5, 2020; the low bidder was W.R. Forde. This project was approved by Council on November 24, 2020. The project work was substantially complete in January 2021. As-built record drawings were transmitted to the City on 2/19/21. The CO1 TA was approved 4/8/21.
  - iv. The First Street Relief Sewer and Pipeline Rehabilitation project Pre-bid meeting was conducted on December 4, 2020. Approximately 24 Contractors, subcontractors and suppliers attended the meeting.
    - 1. The City awarded this project to the low bid contractor, D'Arcy & Harty Construction, Inc. on 2/16/21.
    - 2. Veolia and V.W. Housen staff conducted a preconstruction conference on 3/29/21.
    - 3. In April 2021, D'Arcy & Harty submitted traffic control plans and started pre-CCTV inspections.
    - 4. Force Majeure conditions declaring shortage of C-900 PVC pipe after D'Arcy & Harty's bid was received were submitted as Change Order 1, which was approved by the City on May 24th.
    - 5. Notification to residents and sewer line replacement will commence in June 2021.
- d. Bush & Hayes Sag
  - i. The City authorized W.R. Forde to complete the work; all work was completed on July 17, 2020.
  - ii. A change order TA was submitted to the City on June 24, 2020; a signed TA is still pending and outstanding.
- e. Marina Bay Parkway Force Main Extension Project (aka Moody Underpass)
  - i. V.W. Housen completed design and delivered 100% design documents to Veolia for review on 2/22/21.
  - ii. Veolia and V.W. Housen staff conducted a mandatory pre-bid conference on 2/26/21. The City posted this project for advertisement for public bid on PlanetBids website on 3/15/21.

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- iii. Four (4) bids were received 4/23/21 ranging from \$357,200 to \$589,000. Veolia has recommended the City award the contract to the low bidder W.R. Forde. A TA was sent to the City on May 6, 2021. This item is on the June 15, 2021 agenda for City Council consideration and action.
- 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 submitted to the City in early March. The project was approved at the May 19, 2020 Council Meeting. Veolia received the executed TA from the City on June 22, 2020.
  3. Subcontracting was completed on July 16, 2020, and the Notice to Proceed was issued July 21, 2020 effective July 27, 2020.
  4. On August 5, 2020, the Contractor was given a notification of suspension of work.
  5. On August 28, 2020, the W.R. Forde notified Veolia that its listed subcontractor, Nor-Cal Pipeline, refused to enter into a contract with W.R. Forde and that W.R. Forde would like to substitute H&R Plumbing for Nor-Cal Pipeline.
  6. On October 21, 2020, the City informed Veolia that it deemed the TA for this project to be null and void.
  7. The City directly awarded this manhole rehabilitation work directly to Bay Hawk Inc., over the objections of Veolia. Veolia will bear no responsibility for the work directly let to Bay Hawk, Inc.
- iii. Wastewater Treatment Plant Projects
  1. The Grit/Screening and Aeration Upgrade Projects (as part of the Critical Improvements High Priority Project) was advertised for bidding on PlanetBids on September 15, 2020.
    - a. Veolia recommended the City award the project to the low bid contractor, Shimmick Construction.
    - b. The City deferred award of this project to the low bid contractor, Shimmick Construction Co. from 3/2/21 to 3/16/21. The City awarded this project to Shimmick Construction Company, Inc. on 3/16/21.
    - c. Veolia submitted a Task Authorization to the City for construction approval on 3/2/21. Veolia submitted a Task Authorization to the City on 3/12/21 for Carollo to perform Engineering Services during Construction (ESDC) and for Engineering Solutions Services (ESS) to perform SRF Support Services for approval.
    - d. The TA for Construction was approved and returned to Veolia on 4/2/21; the TA for ESDC and SRF Support Services was approved and returned to Veolia on 4/27/21.
    - e. Carollo conducted EADOC project document control introduction and protocol training for the City, Veolia, Carollo, ESS and Shimmick staff in April.

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- f. Shimmick began mobilizing to the worksite in May, submitting RFI's and submittals through the EADOC document management system and scheduling contract work, including AC grinding, clearing and grubbing in advance of hazardous materials remediation and building demolition.
2. Cogen Project
  - a. Veolia and Overaa signed a new Agreement early this year to complete Phase I work.
  - b. Veolia approved the revised Phase I schedule update to complete work by July 2021. Veolia submitted the schedule to the City for their information.
  - c. Overaa/HSE progressed the Cogen system design to a 75% milestone in March 2021.
  - d. Veolia provided the DBE team 75% design review comments in April.
  - e. Veolia submitted a TA for BAAQMD permit revisions for this project on 4/5/21 and then resubmitted a revised TA with additional proposals on 4/27/21; the TA is under review and expected to go to City Council
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. Veolia and Calcon designed, ordered, took delivery and programmed SCADA Managed Network System (approximately 21 Industrial Grade, High Performance SCADA network switches) equipment for installation at the WWTP.
  - b. Calcon began installation and commissioning of the Managed Network System (Cisco) switches throughout WWTP facilities. This work is ongoing. Calcon completed the Managed Network System installation, connection and testing in March 2021.
  - c. Calcon continued to work on SCADA alarms and P&ID drawings in May
4. Seismic Evaluation – The City selected ZFA Structural Engineers. The project kicked off on June 30, 2020. The next month was spent gathering documentation for the project (i.e., past Plant project documentation, record drawings, etc.);
  - a. ZFA submitted a proposal at the request of the City of Richmond and Veolia, to expand their scope of work for the remaining facilities at the WWTP, not included in their original scope of work.
  - b. The City approved ZFA to submit a proposal from Carollo Engineering, for engineering services required to assist ZFA to complete analysis of seismic retrofit options of the primary sedimentation tanks and aeration basins.
  - c. Carollo submitted the proposal in late February and a Change Order TA was prepared and routed for signature; it was delivered to the City on 3/1/21.

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- d. ZFA continued the seismic analysis of WWTP facilities and began cost estimating retrofit options for the Influent Pump Station (IPS) Headworks, Digesters and Pipe Chase facilities.
  - e. The TA for ZFA to begin design work with Carollo was approved by the City on May 4, 2021. ZFA and Carollo started design review work for the primary sedimentation tanks and aeration basins.
  - f. A second TA for ZFA to perform analysis of adding a two-leaf door in the Chlorine Building was also approved by the City on May 4, 2021.
5. Sludge Thickener Project (Design/Build) – RFQs were received on January 10, 2020, and evaluated on January 21, 2020.
- a. On October 30, 2020, Veolia was notified by Carollo Engineers Project Manager that additional WAS piping and pumps scope of work was required to be added to the RFP. The RFP submittal process was halted until the WAS scope of work is determined and can be included in the RFP through an Addendum.
  - b. Veolia issued Addendum 2, including the WAS scope of work developed by Carollo Engineers, Richmond Workforce Stabilization Agreement and revised project (timeline) schedule to the two shortlisted DB firms on December 22, 2020 (Myers & Sons, Inc. and Overaa Construction).
  - c. Veolia conducted pre-proposal meetings in January 2021 with both of the short listed firms to discuss the project, answer any questions and review the WWTP site conditions. The RFP is due 3/5/21. The two short listed DB firms submitted Proposals to Veolia on 3/5/21.
  - d. The two DB firms presented their proposals and answered questions submitted by the City, Veolia and Carollo on 3/29/21. The City, Veolia and Carollo scored the proposals and decided on a recommendation to award the Phase I design.
  - e. The City selected Myers & Sons/Lee & Ro for Phase I design. A TA was submitted to the City on May 17, 2021.
6. Critical Plant Projects - SBS (Chemical Building) Facility
- a. West County is proceeding with design utilizing Carollo Engineers. Construction will be done by Veolia.
  - b. Carollo conducted a Design Camp in September 2020 with WCS, COR and Veolia staff in attendance, focusing on SBS Facility design preferences, allowing the designer to proceed to the 50% design stage.
  - c. Carollo submitted the 50% design on 10/23/20.
  - d. Discussion on the possibility of upgrading the old and troublesome CL2 system as part of the City's portion. Brian communicated with Aaron Winer at West

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County; Aaron is in agreement with this approach if the legal team is OK with the approach.

- e. WCA and the City approved in a 1/4/21 conference call meeting for Carollo to submit a Proposal for design services including an SBS emergency generator and a Chlorine Building Chlorine System upgrade;
- f. Veolia submitted a TA to the City on 2/1/21 for the SHC Design by Carollo.
- g. WCA, the City, Veolia and Carollo met to confirm advertising/bidding requirements for the SBS/SHC project.
- h. WCA has requested this project be advertised and awarded for construction as soon as possible. Veolia will work with the COR to accomplish the advertisement/award process.
- i. The project was posted to advertise on PlanetBids on 4/30/21.
- j. Addendum 1 was issued by Veolia and posted to PlanetBids on 5/10/21.
- k. Veolia conducted a mandatory prebid site walk on 5/18/21.
- l. Addendum 2 was issued by Veolia and posted to PlanetBids on 5/18/21.

#### iv. Storm Water Projects

##### 1. Trash Capture Device –

- a. Beneficial use was achieved on 4/20/21, and the Trash Capture device was placed into service on 4/20/21. On 4/21/21, the precast lid section was set with a crane.
- b. On 4/19/21, subcontractor United Storm Water, Inc. started installation of catch basin cleaning staff gauges and completed that work on 4/24/21.
- c. Paving was completed and the street re-opened on 4/27/21.
- d. All required project activities finished and documentation needed for complete reimbursement by Caltrans were provided to the City by Veolia ahead of the May 1, 2021 deadline.
- e. Other locations are currently being considered by the City and CalTrans for additional Trash Capture Device Installations.

#### 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. The City is planning to have the City Council adopt a report once Baykeeper comments have been submitted.
- c. A meeting to discuss Baykeeper comments with Nicole Granquist of Downey Brand and City staff was held on July 27, 2020. No update for May.

#### c. Collections Systems and Wastewater Treatment Plant Operations and Maintenance

##### i. Collection Systems Operations and Maintenance

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1. Baykeeper Settlement Agreement Projects
  - a. The 2020 RAA was re-submitted to Baykeeper on 5/28/20
    - i. Inclusive to Veolia's submission of the 2020 RAA to the City of Richmond, the City of Richmond, in its 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 inaccessible pipe segments are to be repaired under a single project
1. 4-year-out wastewater system cleaning progress
  - a. 2004 Service Agreement annual cleaning miles objective = 49.8
    - i. 2021 planned hotspot cleanings (altered by the BKSA) and pre-CCTV cleaning = 133.2 actual miles cleaned to date = 29.33
    - ii. Actual unplanned various cleanings, i.e., service calls, post construction, etc. = 4.38
2. 10-year-out wastewater system CCTV condition assessment progress
  - a. 2004 Service Agreement annual CCTV miles objective = 19.7
    - i. Grade 4 and 5 miles planned annual condition assessments (altered by BKSA) and 70% or less = 43.3; actual complete = 23.32
    - ii. Actual unplanned post construction completed CCTV = 1.04
  - b. Total gravity pipe segments in system reporting in InfoNet = 3,643
    - i. Pipe segments with CCTV < 10-years and > 70% complete = 3,511
    - ii. Pipe segments with CCTV > 10-years = 132
      1. (32) are greater than 10 years
        - a. (19) Pipe segments have been attempted but are currently inaccessible due to various reasons. (Cars parked on manholes, private property, etc.)
        - b. (13) are completed and pending data upload
      2. (78) have surveys within 10 years but are less < 70% complete
      3. (22) are Inaccessible due to submerged pipes - Keller Beach
4. Sanitary Sewer Overflows
  - a. Actual SSO's in May = 3
  - b. Actual SSO's YTD, 2021 = 5
    - i. Permissible by Baykeeper Settlement Agreement = 21 for 2021

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5. Customer Service Calls = 13
  6. Emergency & Miscellaneous Repairs
    - a. Wastewater point repairs = 9
    - b. Manhole cover repair = 1
    - c. Storm water point repairs = 0
  7. Storm water collection system progress
    - a. Customer service calls = 0
    - b. City service calls = 0
    - c. Catch basins cleaned = 0
    - 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 effluent daily flow = 4.56 MGD
    - b. Maximum effluent daily flow = 5.15 MGD
    - c. Peak influent daily flow = 23.38 MGD
    - d. Influent BOD/TSS mg/l = 384 mg/l / 401 mg/l
    - e. Effluent BOD/TSS mg/L = 13.2 mg/l / 11.7 mg/l
      - i. Permit Limits for Effluent BOD/TSS mg/L = 30/30
    - f. Effluent Coliform = (Monthly Median) 2.0 MPN / 100 ml
      - i. Permit Limits for Effluent Coliform = (Monthly Median) 240 MPN /100 ml
    - g. Plant Odor complaints = 0
  2. Non-standard operating conditions – Plant is struggling to maintain dissolved oxygen in the aeration basins because of the age and failure rate of the mechanical aerators. This in turn reduces ability to remove enough ammonia that is required by the plant permit.
  3. Aerator 2B is showing signs of imminent failure. Veolia presented a summary by email to the City, which included a TA, on 4/28/21 for a new Aerator. Because of the lead time to obtain the parts due to the old age of the equipment we have also provided an emergency TA for a separate purchase of a 25 hp floating interchangeable mixer that can be used in any of the 6 Aeration basins. Both pieces of equipment have been ordered.
  4. Having continuous issues with the Primary Clarifier Sludge Pumps because of the primary grit removal system being inactive. We are replacing the Lobes and mechanical seals on a much higher than normal frequency. Veolia will be sending invoices to the City for the needed replacement parts.
  5. Regulatory agency reporting – All standard monthly reports submitted in a timely manner with no exceptions reported back from the regulator

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- iii. Collection System Pump Station and Wastewater Treatment Plant Equipment/Facility Maintenance
    - 1. Total preventive maintenance work orders completed = 223
    - 2. Total corrective maintenance work orders completed = 29
    - 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. Maintenance projects
      - a. Removed, repaired and re-installed 3W pump
- 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
3. List of Task Authorizations (TAs) delivered to the City:
- a. CPM
    - ii. 2019-20 Sewer Segment Rehab Project, RAA Year Two Change Order 1 TA – submitted 6/24/20; still outstanding (Change Order 2 TA was approved but not CO1)
    - iii. Cutting, Carlson & Hoffman TA Change Order 6 – submitted on 9/25/20; still outstanding
    - iv. Sodium Hypochlorite SHC Design – submitted on 2/1/21; returned on 5/20/21
    - v. Seismic Retrofit Change Order 1 - submitted on 3/1/21; returned on 5/4/21
    - vi. Sludge Leachate Line Condition Assessment Update - submitted on 3/26/21; still outstanding
    - vii. 2021 RAA - V.W. Housen Response to Baykeeper - submitted on 3/29/21; returned on 5/21/21
    - viii. BAAQMD Permitting for ATC Extension - submitted on 4/5/21; resubmitted on 4/27/21
    - ix. Seismic Retrofit Change Order 2 for Chemical Door - returned on 5/4/21
    - x. Marina Bay Parkway FM Extension Project - submitted on 5/6/21
    - xi. Prioritized Replacement Sewer Segment Repair (Bishop & Western) - submitted on 5/7/21
    - xii. Sludge Thickener Project, Phase I Construction - submitted on 5/17/21
  - a. O&M
    - i. RAA/SECAP/Master Plan TA – Submitted March 27<sup>th</sup>, COR responded. Matter is under dispute
    - ii. Boiler Burner #2 TA – Submitted May 20<sup>th</sup>, COR responded June 3<sup>rd</sup>. Matter is under dispute.
    - iii. NASSCO upgrade from 6.0 to 7 TA – Submitted May 19<sup>th</sup>, Rejected by the COR on 9/23/20. Matter is under dispute.

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- iv. Collection Camera Cable Replacement TA – Submitted on 5/22, COR requested detail on 7/15, we provided on 7/21. Rejected by the City on 9/23/20. Matter is under dispute.
- 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, Rejected by the COR on 9/23/20. Matter is under dispute.
- vi. Portable Sludge Thickener TA – Submitted 8/25/20 – Received written approval by email from Yader on 8/25/20 to order the unit from Synagro while the TA is processed. Have submitted the monthly invoices to the city for the rental unit plus the chemical invoices. Haven't received the signed TA.
- vii. Emergency Sludge Leachate Vault Repair TA - Submitted 2/26/21 - Received written approval by email from Mary/Yader on 2/23/21 to proceed with the engineers design proposal. Work was completed. Haven't received the signed TA.
- viii. Emergency DAFT Sludge Line Repair TA - Submitted 2/26/21 - Received written approval by email from Mary/Yader on 2/23/21 to proceed with the repair proposal. Work was completed. Haven't received the signed TA.
- ix. Replacement Mechanical Aerator TA - Submitted 4/28/21, received City Council approval on 5/18/21 and fully executed TA on 5/20/21. Provided PO to the vendor to order.
- x. Emergency 25 HP Floating Mechanical Mixer TA - Submitted 4/28/21, received City Council approval on 5/18/21 and fully executed TA on 5/20/21. Provided PO to the vendor to order.
- xi. DAFT Gear Box Drive Unit TA - Submitted 5/12/21, received signed TA on 5/13/21, provided PO to vendor begin prelim work, on 6/15/21 City Council agenda for approval

IV. List of submittal scheduled for the following month

- a. To be determined

V. Listing of Permit Violations

- a. None

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. Rolling Stock Inventory

- a. Audit completed and provided to the City on May 19, 2020. Review and recommendations provided to the City on August 24, 2020

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- b. Veolia is renting and/or leasing any rolling stock inventory that is needed to perform the daily operations of the system and will continue to bill the City until the City can provide the necessary Vehicles as per the contract for Veolia to perform the work
- c. Veolia provided the new Vactor truck specs and quote on November 25, 2020 as requested. As per previous conversations, we have provided specs/quotes for a new push camera on Dec 10 and for the new Camera truck and Jetter truck on Dec 13
- d. The Veolia-owned 2010 Vactor Truck is out of service and because of the cost, age, mileage and DOT regulations, it is no longer feasible to maintain it, and Veolia plans to dispose of it. Due to the upcoming month of the June Baykeeper hotspot cleaning requirements, Veolia will have to rent another Vactor Truck to complete these requirements. We will send an invoice to the City as we do for the other Vactor Truck rental.