

## San Francisco Public Utilities Commission

### PROGRAMMATIC POST-ISSUANCE VERIFICATION LETTER

### WATER INFRASTRUCTURE CRITERIA OF THE CLIMATE BONDS STANDARD

**Type of engagement:** Assurance Engagement

**Period engagement was carried out:** September 2019

**Approved verifier:** Sustainalytics

**Contact address for engagement:** 125 Maiden Lane, Suite 602, New York NY 10038, U.S.A.

**Post-Issuance Engagement Leader:** Ankita Shukla, [ankita.shukla@sustianalytics.com](mailto:ankita.shukla@sustianalytics.com), + 1 (617) 603 3329

**Post-Issuance Engagement Support:** Tina Ghaemmaghami, [tina.ghaemmaghami@sustainalytics.com](mailto:tina.ghaemmaghami@sustainalytics.com), + 1 (647) 264 6680

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### Scope and Objectives

In 2016 and 2017, San Francisco Public Utilities Commission ("SFPUC") issued green bonds aimed at financing or refinancing projects within the Water System Improvement Program (WSIP). In September 2019, SFPUC engaged Sustainalytics to review the projects funded through the issued green bonds and provide an assessment as to whether the projects met the Post-Issuance Requirements (Part A, Part B and Part C) of the Climate Bonds Standard.<sup>1</sup>

Green bonds include:<sup>2</sup>

- Water Revenue Bond 2016 Series C (Green Bonds)
- Water Revenue Bonds 2017 Series A (Green Bonds)
- Water Revenue Bonds (Refunding) (Green Bonds) 2017 Series D
- Water Revenue Bonds (Refunding) (Green Bonds) 2017 Series G

Schedule 1 provides details of the green bond projects and Disbursement of Proceeds.

### Compliance Evaluation Criteria

Post-issuance requirements under Climate Bonds Standards Version 2.1:

- Part A: General Requirements - All the requirements in Part A shall be met to be eligible for post-issuance certification.
- Part B: Eligible Projects & Assets - Part B requirements shall be met based on the projects & assets associated with the bond and the specified eligibility criteria.
- Part C: Requirements for Specific Bond Types - Part C requirements shall be met to be eligible for post-issuance certification and are used selectively, depending on the type of bond in question.

### Issuing Entity's Responsibility

SFPUC is responsible for providing accurate information and documentation relating to the details of the projects that have been funded, including description of projects, total development cost of each projects, and disbursed amounts.

### Independence and Quality Control

Sustainalytics, a leading provider of ESG and corporate governance research and ratings to investors, conducted the verification of SFPUC's green bond, issued to finance eligible projects, and provided an

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<sup>1</sup> Pre-Issuance Verification Letter available here:

[https://www.climatebonds.net/files/files/Verification%20Letter\\_SFPUC\\_WSIP.pdf](https://www.climatebonds.net/files/files/Verification%20Letter_SFPUC_WSIP.pdf)

<sup>2</sup> Water Enterprise Green Bonds Annual Report available here:

<https://www.sfwater.org/modules/showdocument.aspx?documentid=13671>

independent opinion informing SFPUC as to the conformance of the green bond with the Post-Issuance requirements and Water Infrastructure criteria of the Climate Bonds Standard.

Sustainalytics has relied on the information and the facts presented by SFPUC with respect to the Nominated Projects. Sustainalytics is not responsible nor shall it be held liable if any of the opinions, findings, or conclusions it has set forth herein are not correct due to incorrect or incomplete data provided by SFPUC.

Sustainalytics makes all efforts to ensure the highest quality and rigor during its assessment process and enlisted its Sustainability Bonds Review Committee to provide oversight over the assessment of the bond.

### Verifier's Responsibility

Sustainalytics conducted the verification in accordance with the Climate Bonds Standard Version 2.1 and with International Standard on Assurance Engagements 3000 (ISAE 3000) – Assurance Engagements other than Audits or Reviews of Historical Information.

The work undertaken as part of this engagement included conversations with relevant SFPUC employees and review of relevant documentation to confirm the conformance of SFPUC's green bonds with the Programmatic Post-Issuance Requirements (Part A, Part B and Part C) of the Climate Bonds Standard Version 2.1.

### Exceptions

No exceptions were identified.

All projects aligned with the Post-Issuance requirements of the Climate Bonds Standard and were in conformance to the Water Infrastructure criteria.

### Conclusion

Based on the limited assurance procedures conducted, nothing has come to Sustainalytics' attention that causes us to believe that, in all material respects, the allocation of the following SFPUC green bonds, issued to fund eligible green water enterprise projects, is not in conformance with the Post-Issuance requirements of the Climate Bonds Standard:

- USD 256,821,634 from 2016 Series C
- USD 125,500,000 from 2017 Series A
- USD 335,588,236 from 2017 Series D
- USD 26,744,612 from 2017 Series G

### Detailed Findings

| Eligibility Criteria                                        | Procedure Performed                                                                                                                                                                                                                                                              | Factual Findings                                                                                                                       | Error or Exceptions Identified |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Compliance to Part A: General Requirements</b>           | Verification of 87 projects by the 2016 Water Series C and 2017 Water Series A, D and G green bonds to determine if Part A: General Requirements were met (See Schedule 2A and 2B).                                                                                              | All 87 projects reviewed complied with the General Requirements.                                                                       | None                           |
| <b>Compliance to Part B: Eligible Projects &amp; Assets</b> | Verification of 87 projects funded by the green bond in 2016 Water Series C and 2017 Water Series A, D and G green bonds to determine if projects fall into (i) one of the investment areas of the Climate Bonds Taxonomy (ii) meet the Water Infrastructure technical criteria. | All 87 projects fall under the Water Infrastructure criteria and meet the requirements of the Water Infrastructure technical criteria. | None                           |

|                                                                   |                                             |                                                                                      |      |
|-------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|------|
| <b>Compliance to Part C: Requirements for Specific Bond Types</b> | Bond Type Applicable: Use of Proceeds Bond. | The requirements of Project Holding, Settlement Period and Earmarking have been met. | None |
|-------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|------|

## Schedule 1: Detailed Overview of Nominated Projects and Assets

| San Francisco Public Utilities Commission<br>Green Series Snapshot (as of June, 2018) |                      |
|---------------------------------------------------------------------------------------|----------------------|
| 2016 Series C Projects                                                                |                      |
| Project <sup>3</sup>                                                                  | Total Bond Amount    |
| 1. Groundwater Storage and Recovery                                                   | \$9,752,541          |
| 2. Upper Alameda Creek Filter Gallery                                                 | \$1,856,862          |
| 3. Seismic Upgrade of BDPL at Hayward Fault                                           | \$3,181,724          |
| 4. New Crystal Springs Bypass Tunnel                                                  | \$170                |
| 5. Adit Leak Repairs                                                                  | \$19,471,358         |
| 6. New Irvington Tunnel                                                               | \$3,534,658          |
| 7. Alameda Siphon #4                                                                  | \$74,987             |
| 8. Security System Upgrades                                                           | \$1,225,367          |
| 9. HTWTP Long Term Improvements                                                       | \$35,659,426         |
| 10. BDPL Reliability Upgrade-Trans Bay Tunnel                                         | \$83,385,032         |
| 11. BDPL Reliability Upgrade-Pipeline                                                 | \$42,522,804         |
| 12. Calaveras Dam Replacement                                                         | \$32,848,192         |
| 13. San Antonio Backup Pipeline                                                       | \$41,041             |
| 14. Program Environmental Impact Report                                               | \$66,883             |
| 15. Mitigation Planning                                                               | \$1,155,323          |
| 16. Vegetation Restoration WSIP Sites                                                 | \$32,940             |
| 17. Habitat Reserve Program                                                           | \$18,914,745         |
| 18. EBMUD Intertie                                                                    | \$173                |
| 19. Program Management Services                                                       | -                    |
| 20. Watershed Environmental Improvement Program                                       | -                    |
| 21. WSIP Financing Costs Project                                                      | \$3,084,618          |
| 22. Peninsula Pipeline Seismic Upgrade                                                | \$1,109              |
| 23. Crystal Springs/San Andreas Transmission Upgrade                                  | \$11,682             |
| <b>2016 Series C Total</b>                                                            | <b>\$256,821,634</b> |
| 2017 Series A Projects                                                                |                      |
| 24. Regional Groundwater Storage & Recovery                                           | \$11,831,464         |
| 25. Recycled Water Project - Eastside                                                 | \$19,703             |

<sup>3</sup> Eligible projects include all WSIP Projects, subset only listed

|                                               |                      |
|-----------------------------------------------|----------------------|
| 26. Lake Merced Pump Station Upgrade          | \$630,939            |
| 27. Sutro Res - Rehab/Seismic Upgrade         | \$23,855             |
| 28. Seismic BDPL @ Hayward Fault Ph 2         | \$4,345,357          |
| 29. New Irvington Tunnel 4,792,673            | \$4,792,673          |
| 30. Security Systems Upgrades                 | \$2,069,680          |
| 31. HTWTP Long Term Improvements              | \$18,158,415         |
| 32. Peninsula Pipeline Seismic Upgrade        | \$321,836            |
| 33. BDPL Reliability Upgrade - Tunnel         | \$1,282,153          |
| 34. BDPL Reliability - Pipeline               | \$259,886            |
| 35. Crystal Springs Ps & Cs-Sa PI             | \$51,297             |
| 36. San Joaquin Pipeline System               | 163,320              |
| 37. Calaveras Dam Replacement                 | 73,965,437           |
| 38. San Antonio Backup Pipeline               | 83,650               |
| 39. Habitat Reserve Program                   | 2,349,645            |
| 40. Vegetation Restoration WSIP Sites         | 21,163               |
| 41. Watershed Environmental Improve Program   | 532,628              |
| 42. Bay Division Pipeline Upgrade             | 1,589,685            |
| 43. Peninsula Water System Improvements       | 2,098,561            |
| 44. San Joaquin Water System Improve Projects | 490,141              |
| 45. Sunol Valley Water System Improvements    | 878,913              |
| 46. Alameda Creek Recapture Project           | -                    |
| 47. Other WSIP Projects <sup>4</sup>          | 8,177                |
| <b>2017 Series A Total</b>                    | <b>\$125,500,000</b> |
| <b>2017 Series D Projects (Refunding)</b>     |                      |
| WSIP Financing Costs Project                  | \$ 6,186,666         |
| Lake Merced Water Level Restoration           | \$76,065             |
| San Francisco Groundwater Supply              | \$5,861,124          |
| Regional Groundwater Storage & Recovery       | \$11,662,612         |
| Recycled Water Project                        | \$224,619            |
| Harding Park Recycled Water Project           | \$397,958            |
| Recycled Water Project - Eastside             | \$403,721            |
| Lake Merced Pump Station Upgrade              | \$2,337,855          |
| East/West Transmission Main                   | \$28,069             |
| Forest Hill Pump Station Upgrade              | \$1,112,242          |
| Forest Knolls Pump Station Upgrade            | \$7,470              |
| Mclaren Park Pump Station Upgrade             | \$5,353              |
| Sutro Res - Rehab/Seismic Upgrade             | \$11,590,033         |
| Le Grande Pump Station Upgrade                | \$45,522             |
| Upper Alameda Creek Filter Gallery            | \$1,142,093          |
| Seismic Bdpl @ Hayward Fault Ph 2             | \$17,176,100         |
| Lower Crystal Springs Dam Improvements        | \$815,302            |
| New Crystal Springs Bypass Tunnel             | \$20,647             |
| Sunset Res - Upgrade/Rehab North Basin        | \$17,096             |

<sup>4</sup> Other WSIP Projects include eligible projects with less than 1% of total net proceeds allocated from 2017 Series A

|                                           |                      |
|-------------------------------------------|----------------------|
| New Irvington Tunnel                      | \$57,937,418         |
| Alameda Siphon #4                         | \$631,907            |
| Structural Rehab (Roof) - Pulgas Phase 3  | \$181,583            |
| Existing Dechlor Mods - Pulgas Phase 5    | \$89,584             |
| Installation Of Scada System Ph II        | \$249,506            |
| Security Systems Upgrades                 | \$2,120,548          |
| Lawrence Livermore Water Quality Improve  | \$10,107             |
| HTWTP Long Term Improvements              | \$20,044,784         |
| Peninsula Pipeline Seismic Upgrade        | \$8,758,742          |
| BDPL Reliability Upgrade - Tunnel         | \$35,714,358         |
| BDPL Reliability - Pipeline               | \$7,502,792          |
| Crystal Springs Ps & Cs-Sa PI             | \$36,587,850         |
| U Mound Res - Upgrade (North Basin)       | \$147,093            |
| San Joaquin Pipeline System               | \$1,618,466          |
| Rehab Existing San Joaquin Pipelines      | \$96,453             |
| Calaveras Dam Replacement                 | \$48,044,405         |
| San Antonio Backup Pipeline               | \$14,976,671         |
| Crystal Springs PI #2 Replace (In City)   | \$6,524,771          |
| San Andreas #3 Pipeline Installation      | \$53,518             |
| BDPL No 3&4 Cross Connection              | \$1,330,315          |
| SVWTP Expansion/Treated Water Reservoir   | \$12,423,360         |
| Tesla Treatment Facility                  | \$2,208,334          |
| San Antonio Pump Station Upgrade          | \$14,076             |
| Habitat Reserve Program                   | \$17,745,619         |
| Vegetation Restoration WSIP Sites         | \$585,228            |
| SFPUC/EBMUD Intertie                      | \$80,161             |
| Baden And San Pedro Valve Lot             | \$86,134             |
| Watershed Environmental Improve Program   | \$687,129            |
| Other WSIP Projects <sup>5</sup>          | \$26,780             |
| <b>2017 Series D Total</b>                | <b>\$335,588,236</b> |
| <b>2017 Series G Projects (Refunding)</b> |                      |
| WSIP Financing Costs                      | \$495,370            |
| Lake Merced Water Level Restoration       | \$5,683              |
| San Francisco Groundwater Supply          | \$150,924            |
| Regional Groundwater Storage & Recovery   | \$394,643            |
| Recycled Water Project                    | \$27,564             |
| Harding Park Recycled Water Project       | \$48,825             |
| Recycled Water Project - Eastside         | \$47,845             |
| Lake Merced Pump Station Upgrade          | \$254,280            |
| Forest Hill Pump Station Upgrade          | \$135,593            |
| Sutro Res - Rehab/Seismic Upgrade         | \$1,010,822          |
| Le Grande Pump Station Upgrade            | \$5,586              |
| Upper Alameda Creek Filter Gallery        | \$37,483             |
| Seismic BDPL @ Hayward Fault Ph 2         | \$1,451,902          |
| Lower Crystal Springs Dam Improvements    | \$99,659             |
| New Irvington Tunnel                      | \$6,441,819          |

<sup>5</sup> Other WSIP Projects include eligible projects with less than 1% of total net proceeds allocated from 2017 Series D (Refunding)

|                                              |                      |
|----------------------------------------------|----------------------|
| Alameda Siphon #4                            | \$77,519             |
| Structural Rehab (Roof) - Pulgas Phase 3     | \$22,283             |
| Existing Dechlor Mods - Pulgas Phase 5       | \$10,993             |
| Installation Of Scada System Ph II           | \$30,618             |
| Security Systems Upgrades                    | \$183,153            |
| HTWTP Long Term Improvements                 | \$681,830            |
| Peninsula Pipeline Seismic Upgrade           | \$228,439            |
| BDPL Reliability Upgrade - Tunnel            | \$3,610,135          |
| BDPL Reliability - Pipeline                  | \$834,831            |
| Crystal Springs Ps & Cs-Sa PI                | \$3,364,069          |
| University Mound Res - Upgrade (North Basin) | \$18,050             |
| San Joaquin Pipeline System                  | \$99,222             |
| Rehab Existing San Joaquin Pipelines         | \$10,081             |
| Calaveras Dam Replacement                    | \$851,556            |
| San Antonio Backup Pipeline                  | \$1,391,486          |
| Crystal Springs PI #2 Replace (In City)      | \$788,021            |
| San Andreas #3 Pipeline Installation 6,567   | \$6,567              |
| BDPL No 3&4 Cross Connection 157,346         | \$157,346            |
| SVWTP Expansion/Treated Water Reservoir      | \$1,517,992          |
| Tesla Treatment Facility                     | \$244,012            |
| Habitat Reserve Program                      | \$1,865,984          |
| Vegetation Restoration WSIP Sites            | 32,319               |
| SFPUC/EBMUD Intertie                         | \$9,837              |
| Baden And San Pedro Valve Lot                | \$10,570             |
| Watershed Environmental Improve Program      | \$73,839             |
| Other WSIP Projects <sup>6</sup>             | \$15,865             |
| <b>2017 Series G Total</b>                   | <b>\$26,744,612</b>  |
| <b>Green Series Totals</b>                   | <b>\$744,654,482</b> |

<sup>6</sup> Other WSIP Projects include eligible projects with less than 1% of total net proceeds allocated from 2017 Series G (Refunding)

## Schedule 2A: Post-Issuance General Requirements of the Climate Bonds Standard

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominated Projects & Assets   | <p><b>4.1</b> Statement on the environmental objectives of the bond</p> <p><b>4.2</b> Nominated Projects meet the Climate Bonds criteria</p> <p><b>4.3</b> Confirmation that Nominated Projects and Assets will not be nominated to other Climate Bonds</p>                                                                                                                                                                                                                                                                                                                          |
| Use of Proceeds               | <p><b>5.1</b> Net Proceeds of the bond allocated to the Nominated Projects</p> <p><b>5.2</b> Funds allocated to Nominated Projects within 24 months of issuance of the bond</p> <p><b>5.3</b> Estimate of the share of the Net Proceeds used for financing and re-financing</p> <p><b>5.4</b> Net Proceeds of the bond shall be tracked by the Issuer following a formal internal process</p> <p><b>5.5</b> Net Proceeds of the bond shall be no greater than the total investment or the total Fair Market Value of the Nominated Projects &amp; Assets at the time of issuance</p> |
| Non-Contamination of Proceeds | <p><b>6.1</b> Tracking of proceeds</p> <p><b>6.2</b> Managing of unallocated proceeds</p> <p><b>6.3</b> In the case of a Force Majeure, the Issuer may apply to the Climate Bonds Standard Board for an extension to the asset allocation period</p>                                                                                                                                                                                                                                                                                                                                 |
| Confidentiality               | <p><b>7.1</b> Information about the Nominated Projects &amp; Assets provided to the Verifier and to the Climate Bonds Standard Board</p> <p><b>7.2</b> Issuer should disclose information about the bond and the Nominated Projects &amp; Assets to the market</p>                                                                                                                                                                                                                                                                                                                   |
| Reporting Post-Issuance       | <p><b>8.1</b> Report containing the list of Nominated Projects &amp; Assets to which proceeds of the bond have been allocated</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Schedule 2B: Conformance to the Post-Issuance Requirements of the Climate Bonds Standard

| Procedure Performed                                                        | Factual Findings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Error or Exceptions Identified |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Verification of Nominated Projects & Assets                                | <p><b>4.1</b> The objective of the bond is to primarily use proceeds to finance or refinance projects within the Water System Improvement Program (WSIP).</p> <p><b>4.2</b> SFPUC's management confirms that the nominated projects meet the Eligibility Criteria.</p> <p><b>4.3</b> SFPUC's management confirms that the projects shall not be nominated to other Climate Bonds.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | None                           |
| Verification of requirements specified under Use of Proceeds               | <p><b>5.1</b> Net Proceeds of the bond have been allocated to the 87 Nominated Projects.</p> <p><b>5.2</b> SFPUC's management has confirmed that funds have been allocated to Nominated Projects within 24 months of the issuance.</p> <p><b>5.3</b> The shares of the Net Proceeds used for financing and re-financing are:<br/>           USD 256,821,634 from 2016 Series C<br/> <i>(29,441,077 remain unallocated)</i><br/>           USD 125,500,000 from 2017 Series A<br/> <i>(fully allocated)</i><br/>           USD 335,588,236 from 2017 Series D<br/>           (Refunding)<br/>           USD 26,744,612 from 2017 Series G<br/>           (Refunding)</p> <p><b>5.4</b> SFPUC's management has confirmed that Net Proceeds of the bond has be tracked by the Issuer following a formal internal process.</p> <p><b>5.5</b> SFPUC's management has confirmed that the Net Proceeds of the bond is no greater than the total investment in the Nominated Projects or the Total Development Cost of the Nominated Projects.</p> | None                           |
| Verification of requirements specified under Non-Contamination of Proceeds | <p><b>6.1</b> SFPUC's management confirms that the proceeds have been segregated and tracked in a systematic manner and were exclusively used to finance Nominated Projects.</p> <p><b>6.2</b> SFPUC's management confirms that pending the investment of proceeds, they have be held in temporary investment instruments (i) that are cash, or cash equivalent instruments, within a Treasury function; or (ii) that do not include greenhouse gas intensive projects which are inconsistent with the delivery of a low carbon and climate resilient economy.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | None                           |



|                                                                      |                                                                                                                                                                                                                                                       |      |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Verification of requirements specified under Confidentiality         | <b>6.3</b> N/A                                                                                                                                                                                                                                        | None |
|                                                                      | <b>7.1</b> SFPUC's management confirms that all relevant information about the Nominated Projects has been provided to the Verifier and to the Climate Bonds Standard Board to support the assessment of conformance with the Climate Bonds Standard. |      |
| Verification of requirements specified under Reporting Post-Issuance | <b>7.2</b> SFPUC's management confirms that all relevant information about the bond and the Nominated Projects has been disclosed to the market.                                                                                                      | None |
|                                                                      | <b>8.1</b> SFPUC's management has provided a report containing the list of Nominated Projects to which proceeds of the bond have been allocated (See Schedule 1).                                                                                     |      |

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For more information, visit [www.sustainalytics.com](http://www.sustainalytics.com)

Or contact us [info@sustainalytics.com](mailto:info@sustainalytics.com)

