



Operation Number: **SU-L1018**
Year- PMR Cycle: **First period Jan-Jun 2016**
Last Update: **10/6/2016**
PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/17/2016**
Division Chief validation date:
Country Representative validation date:

Inter-American Development Bank - IDB
Office of Strategic Planning and Development Effectiveness

Operation Profile

Basic Data

| | | | |
|------------------------|--|-------------------|---|
| Operation name: | Water Supply Infrastructure Rehabilitation | Loan Number: | 2451/OC-SU |
| Executing Agency (EA): | Surinaamsche Waterleiding Maatschapij | | |
| Team Leader: | Mellinger, Yvon | Sector/Subsector: | AS |
| Operation Type: | Loan Operation | Overall Stage: | Disbursing (From eligibility until all the Operations are closed) |
| Lending Instrument: | Investment Loan | Country: | SURINAME |
| Borrower: | REPUBLIC OF SURINAME | | Convergence related Operation(s): |

Total Cost and Source

| | Original IDB | Current Active IDB | Local Counterpart | Co-Financing/Country | Total operation cost - Original Estimate |
|----------|-----------------|--------------------|-------------------|----------------------|--|
| SU-L1018 | \$12,000,000.00 | \$12,000,000.00 | \$500,000.00 | | \$12,500,000.00 |

Available Funds (US\$)

| | Current IDB | Disb. Amount to Date | % Disbursed | Undisbursed Balance |
|----------|-----------------|----------------------|-------------|---------------------|
| SU-L1018 | \$12,000,000.00 | \$9,780,116.44 | 81.50% | \$2,219,883.56 |

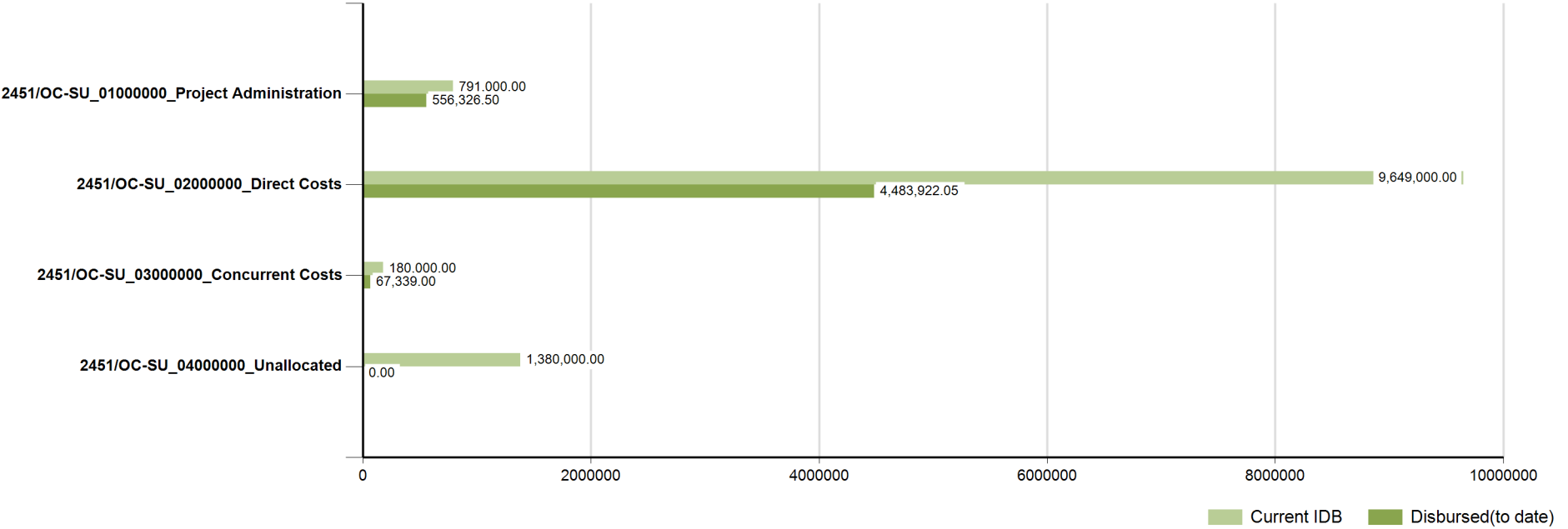
Environmental and Social Safeguards

| | |
|---|---|
| Main Operation | |
| Impacts Category: | B |
| Safeguard Performance Rating: | |
| Safeguard Performance Rating - Rationale: | |

Reformulation Information

| | |
|---|----|
| Main Operation | |
| Was/Were the objective(s) of this operation reformulated? | NO |
| Date of approval: | |

Expense Categories by Loan Contract (cumulative values)




Results Matrix

Impacts

No information related to this operation.

Outcomes

| Outcome: | 1 Water supply network in Greater Paramaribo improved | | | | | | | | | | | | |
|--|---|-----------------|----------|---------------|--|--|------|------|------|----------|----------|----------|-----------|
| Observation: | | | | | | | | | | | | | |
| Indicators | Flags* | Unit of Measure | Baseline | Baseline Year | Means of verification | Observations | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | EOP |
| 1.1 Households connected to an upgraded water supply network |  | Households (#) | 0.00 | 2010 | SWM statistics; Project Progress Reports | | P | | | 6,560.00 | 3,560.00 | 1,480.00 | 11,600.00 |
| | | | | | | | P(a) | | | 5,000.00 | | 5,000.00 | 10,000.00 |
| | | | | | | | A | | | 5,000.00 | 0.00 | 5,500.00 | |
| | | | | | | | | | | | | | |
| Outcome: | 2 Level of Non Revenue Water (NRW) decreased | | | | | | | | | | | | |
| Observation: | | | | | | | | | | | | | |
| Indicators | Flags* | Unit of Measure | Baseline | Baseline Year | Means of verification | Observations | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | EOP |
| 2.1 Volume of potable water billed | | mill m3/year | 16.70 | 2010 | SWM financial data; Project Monitoring and Evaluation System | The baseline is based on assumptions that needs to be validated during the NRW program to be financed through the proposed operation. An accurate water balance analysis will allow to obtain a reliable baseline, this is expected to be available in 2015. | P | | | | 18.45 | | 18.45 |
| | | | | | | | P(a) | | | | 18.45 | | 18.45 |
| | | | | | | | A | | | 0.00 | 24.40 | | |
| | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|--|-------------------|-------|------|---|--|------|--|--|-------|-------|-------|--|-------|
| 2.2 Level of Non Revenue Water (NRW) in areas targeted by the project through the Non Revenue Water (NRW) program | | percentage points | 45.00 | 2010 | Consultant report; SWM measurements; Project Monitoring and Evaluation System | The baseline is based on assumptions that needs to be validated during the NRW program to be financed through the proposed operation. An accurate water balance analysis will allow to obtain a reliable baseline. This is expected to be available in 2015. | P | | | 41.00 | 38.00 | 35.00 | | 35.00 |
| | | | | | | | P(a) | | | 45.00 | 42.00 | 35.00 | | 35.00 |
| | | | | | | | A | | | 45.00 | 44.00 | 39.80 | | |
| | | | | | | | | | | | | | | |

Outcome: 3 Energy use in SWM improved

Observation:

| Indicators | Flags* | Unit of Measure | Baseline | Baseline Year | Means of verification | Observations | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | EOP | |
|--|--------|-----------------|-----------|---------------|---|--------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | | | | | | | |
| 3.1 Energy Consumption in the 8 pilot facilities | | MWh/year | 13,000.00 | 2009 | Evaluation Report on the Analysis of operating Electrical Costs of the works financed through the Project | | P | | 12,500.00 | 12,000.00 | 11,000.00 | 10,000.00 | | 10,000.00 |
| | P(a) | | | | | | | 12,500.00 | 12,500.00 | 12,000.00 | 12,600.00 | 12,200.00 | 12,200.00 | |
| | A | | | | | | | 13,000.00 | 12,965.00 | 12,965.00 | 12,965.00 | | | |
| | | | | | | | | | | | | | | |

Outcome: 4 Water supply agencies capacity (in O&M and water quality monitoring) improved

Observation:

| Indicators | Flags* | Unit of Measure | Baseline | Baseline Year | Means of verification | Observations | 2012 | | 2013 | 2014 | 2015 | 2016 | 2017 | EOP |
|--------------------------------|--------|-----------------|----------|---------------|--|---|------|--|------|------|------|------|------|------|
| 4.1 Time response to complains | | Days | 10.00 | 2010 | SWM statistics; Project Monitoring and Evaluation System | This indicator will be refined at project inception | P | | | 8.00 | 7.00 | 5.00 | | 5.00 |
| | | | | | | | P(a) | | | 8.00 | 7.00 | 5.00 | | 5.00 |
| | | | | | | | A | | | 8.00 | 7.00 | 5.00 | | |
| | | | | | | | | | | | | | | |

-  RF - Contribution
-  RF - Alignment
-  RF - Strategic Alignment
-  RF - Strategic Alignment during Execution
-  SI - Sector Indicator
-  CI - Country Indicator
-  PG - Pro-Gender
-  PE - Pro-Ethnicity

Outputs: Annual Physical and Financial Progress

| Water Supply System Rehabilitation | | Physical Progress | | | Financial Progress | | |
|--|------------------|-------------------|-------|----------|--------------------|--------------|--------------|
| Outputs | Unit of Measure | 2016 | | EOP | 2016 | | EOP |
| Asbestos pipes replaced | Km | P | | 16.00 | P | | 2,200,000.00 |
| | | P(a) | 15.00 | 24.00 | P(a) | 1,365,700.00 | 2,153,425.00 |
| | | A | 13.10 | 17.50 | A | 107,535.00 | 895,260.00 |
| Secondary distribution network pipes replaced | Km | P | | 35.00 | P | | 987,000.00 |
| | | P(a) | 0.40 | 12.50 | P(a) | 52,913.00 | 987,000.00 |
| | | A | 0.30 | 12.40 | A | 35,172.00 | 969,259.00 |
| Secondary distribution network pipes re-laid | Km | P | | 70.00 | P | | 1,435,114.70 |
| | | P(a) | 0.00 | 11.00 | P(a) | 1,247,945.00 | 1,435,114.70 |
| | | A | 0.00 | 11.00 | A | 52,008.00 | 239,177.70 |
| Micro meters installed in Wanica and Para | Micro Meters | P | | 3,000.00 | P | | 240,000.00 |
| | | P(a) | | 0.00 | P(a) | | 192,000.00 |
| | | A | | 0.00 | A | | 0.00 |
| Household Connections (including micro meters) in Leidingen replaced | Connections | P | | 5,000.00 | P | | 487,000.00 |
| | | P(a) | | 5,000.00 | P(a) | | 697,355.20 |
| | | A | | 5,000.00 | A | | 697,355.20 |
| Cast-Iron pipe replaced with Polyvinyl chloride (PVC) pipe | Km | P | | 7.00 | P | | 651,000.00 |
| | | P(a) | 7.00 | 7.00 | P(a) | 32,828.18 | 651,000.18 |
| | | A | 6.30 | 6.30 | A | 215,268.00 | 833,440.00 |
| Non Revenue Water Program | | Physical Progress | | | Financial Progress | | |
| Outputs | Unit of Measure | 2016 | | EOP | 2016 | | EOP |
| Flow and pressure meters installed | Meters | P | | 80.00 | P | | 1,000,000.00 |
| | | P(a) | 41.00 | 94.00 | P(a) | 203,165.00 | 999,999.86 |
| | | A | 19.00 | 72.00 | A | 23,819.00 | 442,585.00 |
| Suriname Water Company (SWM) Staff trained on Non Revenue Water (NRW) | People | P | | 10.00 | P | | 50,000.00 |
| | | P(a) | | 15.00 | P(a) | 50,000.00 | 66,514.00 |
| | | A | | 30.00 | A | 0.00 | 16,514.00 |
| Final designs for civil works (on network rehabilitation and interventions related to Non Revenue Water reduction) completed | Designs | P | | 1.00 | P | | 641,000.00 |
| | | P(a) | 1.00 | 1.00 | P(a) | 564,500.00 | 641,000.00 |
| | | A | 0.00 | 0.00 | A | 49,117.00 | 125,617.00 |
| Non Revenue Water (NRW) program implemented by the Suriname Water Company (SWM) | Program | P | | 1.00 | P | | 500,000.00 |
| | | P(a) | 1.00 | 1.00 | P(a) | 345,448.46 | 500,000.46 |
| | | A | 0.30 | 0.30 | A | 0.00 | 154,552.00 |
| Energy efficiency pilot project | | Physical Progress | | | Financial Progress | | |
| Outputs | Unit of Measure | 2016 | | EOP | 2016 | | EOP |
| Portable measuring equipment purchased | Equipment | P | | 12.00 | P | | 42,111.74 |
| | | P(a) | | 12.00 | P(a) | | 42,000.00 |
| | | A | | 12.00 | A | | 42,029.74 |
| Pumping stations optimized (rehabilitated, calibrated, etc.) | Pumping stations | P | | 8.00 | P | | 460,000.00 |
| | | P(a) | 3.00 | 8.00 | P(a) | 334,893.98 | 460,243.98 |
| | | A | 1.00 | 4.00 | A | 0.00 | 125,350.00 |
| Institutional strengthening | | Physical Progress | | | Financial Progress | | |
| Outputs | Unit of Measure | 2016 | | EOP | 2016 | | EOP |
| Suriname Water Company (SWM) Staff trained on energy efficiency | People | P | | 21.00 | P | | 12,000.00 |
| | | P(a) | | 21.00 | P(a) | | 12,000.00 |
| | | A | | 41.00 | A | | 11,951.00 |

| | | | | | | | |
|---|---------|------|-------|-------|------|------------|------------|
| Department for Water Supply under the Ministry of Natural Resources (NH/DWC) Staff trained on water quality | People | P | | 5.00 | P | | 30,000.00 |
| | | P(a) | | 20.00 | P(a) | | 42,000.00 |
| | | A | | 21.00 | A | | 42,127.00 |
| Management Information System integration completed | Systems | P | | 1.00 | P | | 220,000.00 |
| | | P(a) | 1.00 | 1.00 | P(a) | 200,950.96 | 219,999.96 |
| | | A | 0.00 | 0.00 | A | 0.00 | 19,049.00 |
| Information and Communication Technology (ICT) Servers upgraded | Servers | P | | 2.00 | P | | 300,000.00 |
| | | P(a) | 2.00 | 2.00 | P(a) | 300,000.00 | 300,000.00 |
| | | A | 0.00 | 0.00 | A | 0.00 | 0.00 |
| Suriname Water Company (SWM) Staff trained on Operation and Maintenance (O&M) | people | P | | 20.00 | P | | 103,000.00 |
| | | P(a) | 10.00 | 20.00 | P(a) | 84,532.65 | 86,486.00 |
| | | A | 0.00 | 10.00 | A | 0.00 | 1,953.35 |
| Management, contingencies and others | | | | | | | |

| Other Cost | | 2016 | Cost |
|---------------------------------------|------|----------------|-----------------|
| Project administration | P | \$189,000.00 | \$791,387.00 |
| | P(a) | \$71,600.00 | \$791,386.77 |
| | A | \$48,750.00 | \$583,601.80 |
| Auditing | P | \$40,000.00 | \$120,000.00 |
| | P(a) | \$31,662.00 | \$119,999.69 |
| | A | \$7,095.00 | \$50,408.00 |
| Work supervision | P | | \$250,000.00 |
| | P(a) | \$200,000.00 | \$250,000.00 |
| | A | \$0.00 | \$0.00 |
| Monitoring and Evaluation | P | \$30,000.00 | \$60,000.00 |
| | P(a) | \$14,781.00 | \$60,000.00 |
| | A | \$0.00 | \$16,931.00 |
| Contingencies | P | | \$1,700,050.00 |
| | P(a) | | \$1,700,050.00 |
| | A | \$0.00 | \$50.00 |
| Financial charges | P | \$45,000.00 | \$180,000.00 |
| | P(a) | \$172,829.20 | \$180,000.00 |
| | A | \$0.00 | \$7,170.80 |
| Project standard information campaign | P | | \$54,000.00 |
| | P(a) | \$54,000.00 | \$54,000.00 |
| | A | \$0.00 | \$0.00 |
| Total Cost | | 2016 | Total Cost |
| | P | \$304,000.00 | \$12,513,663.44 |
| | P(a) | \$5,327,749.43 | \$12,449,683.54 |
| | A | \$538,764.00 | \$5,274,381.59 |

Changes to the Matrix

No information related to this operation.

Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains.