

# PMR Operational Report

|                             |                                  |                                               |          |
|-----------------------------|----------------------------------|-----------------------------------------------|----------|
| <b>Operation Number</b>     | CO-L1034                         | <b>Chief of Operations Validation Date</b>    | 09/27/17 |
| <b>Year- PMR Cycle</b>      | First period Jan-Jun 2017        | <b>Division Chief Validation Date</b>         |          |
| <b>Last Update</b>          | 09/26/17                         | <b>Country Representative Validation Date</b> |          |
| <b>PMR Validation Stage</b> | Validated by Chief of Operations |                                               |          |

## Basic Data

### Operation Profile

|                           |                                              |                                         |                                                                   |
|---------------------------|----------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| <b>Operation Name</b>     | Medellin River Sanitation Program - Phase II | <b>Loan Number</b>                      | 2120/OC-CO, 2120/OC-CO-1, 2120/OC-CO-2, 2120/OC-CO-3              |
| <b>Executing Agency</b>   | EMPRESAS PUBLICAS DE MEDELLIN                | <b>Sector/Subsector</b>                 | AS - WATER AND SANITATION                                         |
| <b>Team Leader</b>        | NAVARRETE JIMENEZ,MANUEL JOSE                | <b>Overall Stage</b>                    | Disbursing (From eligibility until all the Operations are closed) |
| <b>Operation Type</b>     | Loan Operation                               | <b>Country</b>                          | COLOMBIA                                                          |
| <b>Lending Instrument</b> | Investment Loan                              | <b>Convergence related Operation(s)</b> |                                                                   |
| <b>Borrower</b>           | EMPRESAS PUBLICAS DE MEDELLIN                |                                         |                                                                   |

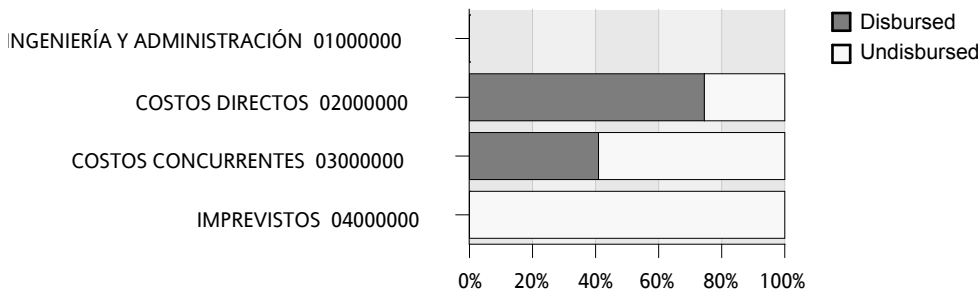
## Environmental and Social Safeguards

|                                                 |                                                                     |                                                                  |    |
|-------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------|----|
| <b>Impacts Category</b>                         | B                                                                   | <b>Was/Were the objective(s) of this operation reformulated?</b> | NO |
| <b>Safeguard Performance Rating</b>             | Satisfactory                                                        | <b>Date of approval</b>                                          |    |
| <b>Safeguard Performance Rating - Rationale</b> | Adequate project provisions for environmental and social management |                                                                  |    |

## Financial Data

| Item       | Total Cost and Source |             |                   |                        |                     | Available Funds (US\$) |                      |        |                    |
|------------|-----------------------|-------------|-------------------|------------------------|---------------------|------------------------|----------------------|--------|--------------------|
|            | Original IDB          | Current IDB | Local Counterpart | Co-Financing / Country | Total Original Cost | Current IDB            | Disb. Amount to Date | % Disb | Undisbursed Amount |
| CO-L1034   | 450,000,000           | 450,000,000 | 131,500,000       | 0                      | 581,500,000         | 450,000,000            | 329,823,920.05       | 73.29% | 120,176,079.95     |
| Aggregated | 450,000,000           | 450,000,000 | 131,500,000       | 0                      | 581,500,000         | 450,000,000            | 329,823,920.05       | 73.29% | 120,176,079.95     |

## Expense Categories by Loan Contract (cumulative values)



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. Please also note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

## PMR Operational Report

### RESULTS MATRIX

#### IMPACTS

**Impact Nbr. 1:** Áreas aledañas al cauce del Río Medellín entre el sitio de Moravia y aguas abajo de la PTAR de Bello, para actividades de recreación sin contacto, desarrollo urbanístico y paisajístico, recuperadas.

#### Observation:

| Indicator |                                                                                                                                                  | Unit of Measure | Baseline | Baseline Year |      | EOP 2018 |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|---------------|------|----------|
| 1.1       | Valor de los predios entre el sitio de Moravia y el kilómetro 100 del río, en una franja de 500 metros a cada lado del eje del río, incrementado | \$miles/m2      | 133.0    | 2007          | P    | 147.00   |
|           |                                                                                                                                                  |                 |          |               | P(a) | 147.00   |
|           |                                                                                                                                                  |                 |          |               | A    |          |

#### Details

**Means of verification:** Proyecto Doble Calzada Niquía Hatillo. Oficinas de Catastro de los municipios involucrados. Archivo técnico Empresas Públicas de Medellín (EPM)-Aguas, piso 7.

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator |                                                                                                                            | Unit of Measure                | Baseline | Baseline Year |      | EOP 2018  |
|-----------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|---------------|------|-----------|
| 1.2       | Senderos peatonales a 120 metros de cada lado de la ribera del río Medellín, aguas abajo del sitio de Moravia, construidos | metros lineales de sendero (m) | 22097.0  | 2007          | P    | 31,607.00 |
|           |                                                                                                                            |                                |          |               | P(a) | 31,607.00 |
|           |                                                                                                                            |                                |          |               | A    |           |

#### Details

**Means of verification:** Secretarías de Planeación de los municipios involucrados. Archivo técnico Empresas Públicas de Medellín (EPM)- Aguas, piso 7.

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

**Outcome Nbr. 1:** Calidad del agua del Río Medellín, entre el sitio de Moravia y aguas abajo de la Planta de Tratamiento de Aguas Residuales de Bello (PTAR de Bello), mejorada

**Observation:** Para corte a Diciembre de 2013, respecto del indicador de Caudal Medio Río Medellín (Estación Copacabana) se dejó el dato reportado por el ejecutor a Junio de 2013; para el indicador de Caudal Río Medellín (Estación Puente Gabino) se dejó el dato de 2010 por no haber mediciones intermedias

| Indicator | Unit of Measure                                                                            | Baseline | Baseline Year |      | 2010 | 2013  | 2014   | 2015   | 2016   | 2017   | 2018  | EOP 2018 |
|-----------|--------------------------------------------------------------------------------------------|----------|---------------|------|------|-------|--------|--------|--------|--------|-------|----------|
| 1.2       | Demanda Bioquímica de Oxígeno, aguas arriba de la PTAR de Bello. (Estación Puente Machado) | mg/l     | 82.0          | 2007 | P    | 68.79 |        |        | 24.04  |        |       | 24.56    |
|           |                                                                                            |          |               |      | P(a) | 68.79 | 0.00   |        |        |        | 24.04 | 24.56    |
|           |                                                                                            |          |               |      | A    | 69.70 | 132.00 | 102.23 | 129.50 | 161.00 | 93.00 | 24.56    |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Puente Machado -

**Pro-Gender** No **Pro-Ethnicity** No

| Indicator | Unit of Measure                                                                         | Baseline | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|-----------|-----------------------------------------------------------------------------------------|----------|---------------|------|------|------|------|------|------|------|------|----------|
| 1.3       | Oxígeno Disuelto en el río, aguas arriba de la PTAR de Bello. (Estación Puente Machado) | mg/l     | 2.8           | 2007 | P    | 2.94 |      |      | 6.14 |      |      | 6.11     |
|           |                                                                                         |          |               |      | P(a) | 2.94 | 0.00 |      |      |      | 6.14 | 6.11     |
|           |                                                                                         |          |               |      | A    | 2.17 | 0.80 | 1.50 | 1.50 | 1.00 | 1.60 | 6.11     |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Puente Machado -

**Pro-Gender** No **Pro-Ethnicity** No

| Indicator | Unit of Measure                                                                       | Baseline | Baseline Year |      | 2010 | 2013  | 2014   | 2015  | 2016   | 2017  | 2018  | EOP 2018 |
|-----------|---------------------------------------------------------------------------------------|----------|---------------|------|------|-------|--------|-------|--------|-------|-------|----------|
| 1.5       | Demanda Bioquímica de Oxígeno, aguas abajo de la PTAR de Bello. (Estación Copacabana) | mg/l     | 74.0          | 2007 | P    | 65.74 |        |       | 29.58  |       |       | 30.53    |
|           |                                                                                       |          |               |      | P(a) | 65.74 | 0.00   |       |        |       | 29.58 | 30.53    |
|           |                                                                                       |          |               |      | A    | 80.70 | 139.00 | 90.83 | 110.50 | 99.00 | 93.50 | 30.53    |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Copacabana -

**Pro-Gender** No **Pro-Ethnicity** No

| Indicator | Unit of Measure                               | Baseline | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|-----------|-----------------------------------------------|----------|---------------|------|------|------|------|------|------|------|------|----------|
| 1.6       | Oxígeno Disuelto en el río, aguas abajo de la | mg/l     | 3.3           | 2007 | P    | 2.78 |      |      | 5.49 |      |      | 5.34     |

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

|     |                                      |      |     |      |      |      |      |      |      |      |      |      |      |
|-----|--------------------------------------|------|-----|------|------|------|------|------|------|------|------|------|------|
| 1.6 | PTAR de Bello. (Estación Copacabana) | mg/l | 3.3 | 2007 | P(a) | 2.78 |      |      |      |      |      | 5.49 | 5.34 |
|     |                                      |      |     |      | A    | 1.83 | 0.60 | 1.36 | 0.90 | 0.80 | 1.50 |      | 5.34 |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Copacabana -

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator |                                                    | Unit of Measure | Baseline | Baseline Year |      | 2010  | 2013   | 2014  | 2015  | 2016  | 2017  | 2018  | EOP 2018 |
|-----------|----------------------------------------------------|-----------------|----------|---------------|------|-------|--------|-------|-------|-------|-------|-------|----------|
| 1.8       | Demanda Bioquímica de Oxígeno (Estación Girardota) | mg/l            | 35.8     | 2007          | P    | 47.26 |        |       |       | 22.90 |       |       | 23.70    |
|           |                                                    |                 |          |               | P(a) | 47.26 | 0.00   |       |       |       |       | 22.90 | 23.70    |
|           |                                                    |                 |          |               | A    | 48.00 | 102.00 | 60.83 | 83.80 | 61.00 | 46.50 |       | 23.70    |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Girardota

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator |                                                 | Unit of Measure | Baseline | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|-----------|-------------------------------------------------|-----------------|----------|---------------|------|------|------|------|------|------|------|------|----------|
| 1.9       | Oxígeno disuelto en el río (Estación Girardota) | mg/l            | 2.8      | 2007          | P    | 3.51 |      |      |      | 5.04 |      |      | 4.92     |
|           |                                                 |                 |          |               | P(a) | 3.51 | 0.00 |      |      |      |      | 5.04 | 4.92     |
|           |                                                 |                 |          |               | A    | 3.72 | 1.60 | 2.84 | 2.40 | 3.20 | 5.40 |      | 4.92     |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Punto de muestreo: Estación Girardota

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator |                                                        | Unit of Measure | Baseline | Baseline Year |      | 2010  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | EOP 2018 |
|-----------|--------------------------------------------------------|-----------------|----------|---------------|------|-------|-------|-------|-------|-------|-------|-------|----------|
| 1.11      | Demanda Bioquímica de Oxígeno (Estación Puente Gabino) | mg/l            | 24.3     | 2007          | P    | 20.50 |       |       |       | 11.60 |       |       | 11.50    |
|           |                                                        |                 |          |               | P(a) | 20.50 | 0.00  |       |       |       |       | 11.60 | 11.50    |
|           |                                                        |                 |          |               | A    | 27.00 | 25.00 | 22.50 | 34.50 | 16.00 | 21.00 |       | 11.50    |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

**Observations:** Sitio de medición: Estación Puente Gabino.

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator | Unit of Measure                                      | Baseline | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|-----------|------------------------------------------------------|----------|---------------|------|------|------|------|------|------|------|------|----------|
| 1.12      | Oxígeno disuelto en el río. (Estación Puente Gabino) | mg/l     | 6.0           | 2007 | P    | 6.40 |      |      |      | 6.90 |      | 6.80     |
|           |                                                      |          |               |      | P(a) | 6.40 | 0.00 |      |      |      | 6.90 | 6.80     |
|           |                                                      |          |               |      | A    | 4.96 | 6.70 | 6.82 | 6.70 | 5.70 | 6.90 | 6.80     |

#### Details

**Means of verification:** EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7, Edificio EPM

**Observations:** Sitio de medición: Estación Puente Gabino.

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

| Indicator | Unit of Measure                             | Baseline       | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018       | EOP 2018   |
|-----------|---------------------------------------------|----------------|---------------|------|------|------|------|------|------|------|------------|------------|
| 1.13      | Hogares cuyas aguas residuales son tratadas | Households (#) | 0.0           | 2012 | P    |      |      |      |      |      |            |            |
|           |                                             |                |               |      | P(a) |      | 0.00 |      |      |      | 750,000.00 | 750,000.00 |
|           |                                             |                |               |      | A    |      | 0.00 | 0.00 | 0.00 |      |            | 750,000.00 |

#### Details

**Means of verification:** Base comercial de EPM

**Observations:** Asume que la PTAR Bello entra en operación a Septiembre de 2015

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

**Outcome Nbr. 2:** Estados financieros de Empresas Públicas de Medellín (EPM), bajo las Normas Internacionales de Información Financiera (NIIF), expresados

**Observation:**

| Indicator | Unit of Measure                     | Baseline            | Baseline Year |      | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|-----------|-------------------------------------|---------------------|---------------|------|------|------|------|------|------|------|------|----------|
| 2.1       | Estados Financieros bajo norma NIIF | Estados Financieros | 2007          | P    | 0.00 |      |      | 1.00 |      |      |      | 1.00     |
|           |                                     |                     |               | P(a) | 0.00 | 0.00 |      | 1.00 |      |      |      | 1.00     |
|           |                                     |                     |               | A    |      |      | 0.00 | 1.00 |      |      |      | 1.00     |

#### Details

**Means of verification:** Informe de la Dirección de Finanzas, Empresas Públicas de Medellín (EPM)

|                   |    |                      |    |
|-------------------|----|----------------------|----|
| <b>Pro-Gender</b> | No | <b>Pro-Ethnicity</b> | No |
|-------------------|----|----------------------|----|

**Outcome Nbr. 3:** Caudal de aguas vertidas al río Medellín, entre el sitio de Moravia y PTAR de Bello interceptado

**Observation:**

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

| Indicator                                                                                                                                |                                                         | Unit of Measure | Baseline | Baseline Year |               | 2010 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | EOP 2018 |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|----------|---------------|---------------|------|------|------|------|------|------|------|----------|
| 3.1                                                                                                                                      | Caudal de aguas vertidas al río Medellín, interceptadas | m3/seg          | 0.0      | 2007          | P             | 0.00 |      |      |      | 4.51 |      |      | 4.57     |
|                                                                                                                                          |                                                         |                 |          |               | P(a)          | 0.00 | 0.00 |      | 0.00 |      | 4.50 | 4.50 |          |
|                                                                                                                                          |                                                         |                 |          |               | A             |      |      | 0.00 | 0.00 |      |      | 4.50 |          |
| Details                                                                                                                                  |                                                         |                 |          |               |               |      |      |      |      |      |      |      |          |
| Means of verification: EPM - Área Proyectos Aguas Residuales Archivo técnico Aguas, piso 7 edificio, Empresas Públicas de Medellín (EPM) |                                                         |                 |          |               |               |      |      |      |      |      |      |      |          |
| Pro-Gender                                                                                                                               |                                                         | No              |          |               | Pro-Ethnicity |      |      | No   |      |      |      |      |          |

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

## Component Nbr. 1 Planta de Tratamiento de Aguas Residuales de Bello

|     | Output                                                                      | Unit of Measure                           |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |                |
|-----|-----------------------------------------------------------------------------|-------------------------------------------|------|-------------------|----------|--------------------|----------------|
|     |                                                                             |                                           |      | 2017              | EOP 2018 | 2017               | EOP 2018       |
| 1.1 | Planta de Tratamiento de Aguas Residuales de Bello construida y funcionando | Planta de Tratamiento de Aguas Residuales | P    |                   | 1        |                    | 376,193,770.81 |
|     |                                                                             |                                           | P(a) |                   | 1        | 50,854,000         | 312,589,883.67 |
|     |                                                                             |                                           | A    |                   | 0        | 11,345,000         | 263,846,883.67 |
| 1.2 | Planta de Manejo de Biosólidos construida y funcionando                     | Planta Biosolidos                         | P    |                   | 1        |                    | 20,611,000     |
|     |                                                                             |                                           | P(a) | 0                 | 1        | 10,260,000         | 53,954,000     |
|     |                                                                             |                                           | A    |                   | 0        | 114,000            | 9,033,000      |

## Component Nbr. 2 Interceptor Norte de 7.7 Km, entre el sitio de Moravia y la PTAR de Bello

|     | Output                                                    | Unit of Measure |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |              |
|-----|-----------------------------------------------------------|-----------------|------|-------------------|----------|--------------------|--------------|
|     |                                                           |                 |      | 2017              | EOP 2018 | 2017               | EOP 2018     |
| 2.1 | Interceptor Norte construido                              | Kilometros      | P    |                   | 6.63     |                    | 72,287,862   |
|     |                                                           |                 | P(a) |                   | 7.7      | 1,312,000          | 70,601,436.9 |
|     |                                                           |                 | A    |                   | 7.7      | 127,000            | 69,416,436.9 |
| 2.2 | Longitud de colector con diseno aprobado por parte de EPM | Kilometros      | P    |                   | 8        |                    | 581,000      |
|     |                                                           |                 | P(a) |                   | 8        |                    | 499,473.71   |
|     |                                                           |                 | A    |                   | 8        |                    | 498,299.71   |
| 2.3 | Longitud de colector construido y en estado operativo     | Kilometros      | P    |                   | 8        |                    | 5,590,000    |
|     |                                                           |                 | P(a) | 3.4               | 7.2      | 6,932,000          | 10,433,000   |
|     |                                                           |                 | A    | 2.7               | 6.5      | 6,347,000          | 9,848,000    |

## Component Nbr. 3 Desarrollo Institucional

|     | Output                                                                                                                                        | Unit of Measure |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |            |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|-------------------|----------|--------------------|------------|
|     |                                                                                                                                               |                 |      | 2017              | EOP 2018 | 2017               | EOP 2018   |
| 3.1 | Plan de capacitación desarrollado                                                                                                             | plan            | P    |                   | 1        |                    | 622,025.95 |
|     |                                                                                                                                               |                 | P(a) |                   | 1        |                    | 513,962.56 |
|     |                                                                                                                                               |                 | A    |                   | 1        |                    | 522,962.56 |
| 3.2 | Plan para adoptar Normas Internacionales de Información Financiera en Empresas Públicas de Medellín (EPM), preparado, adoptado e implementado | Plan            | P    |                   | 1        |                    | 278,000    |
|     |                                                                                                                                               |                 | P(a) |                   | 1        |                    | 278,249.25 |
|     |                                                                                                                                               |                 | A    |                   | 1        |                    | 278,249.25 |

## Component Nbr. 5 Plan de Manejo Ambiental y Social

|     | Output                                                                                  | Unit of Measure |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |           |
|-----|-----------------------------------------------------------------------------------------|-----------------|------|-------------------|----------|--------------------|-----------|
|     |                                                                                         |                 |      | 2017              | EOP 2018 | 2017               | EOP 2018  |
| 5.1 | Diseños de la Plaza del Agua recibidos a satisfacción (incluyen costos de servidumbres) | Diseno          | P    |                   | 1        |                    | 275,000   |
|     |                                                                                         |                 | P(a) |                   | 1        |                    | 200,487   |
|     |                                                                                         |                 | A    |                   | 1        |                    | 200,487   |
| 5.2 | Plaza de Agua Construida                                                                | Plaza           | P    |                   | 1        |                    | 5,219,000 |
|     |                                                                                         |                 | P(a) | 0                 | 1        | 319,000            | 7,090,000 |
|     |                                                                                         |                 | A    | 0                 | 1        | 355,000            | 7,126,000 |

## Other Cost

|  |                                                |      |  |  |  |            |               |
|--|------------------------------------------------|------|--|--|--|------------|---------------|
|  | Gastos financieros                             | P    |  |  |  |            | 13,412,140    |
|  |                                                | P(a) |  |  |  | 17,118,000 | 47,405,918.44 |
|  |                                                | A    |  |  |  | 19,689,000 | 46,396,918.44 |
|  | Sin asignación específica, incluye imprevistos | P    |  |  |  |            | 49,606,600    |
|  |                                                | P(a) |  |  |  | 0          | 27,694,814.86 |

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

|  |                                                                   |      |  |  |           |               |
|--|-------------------------------------------------------------------|------|--|--|-----------|---------------|
|  | Sin asignación específica, incluye imprevistos                    | A    |  |  | 0         | 0             |
|  | Trabajos de Interventoría, Asesorías, Administración y Auditorías | P    |  |  |           | 36,824,060.06 |
|  |                                                                   | P(a) |  |  | 6,498,000 | 50,230,947.61 |
|  |                                                                   | A    |  |  | 3,498,000 | 46,010,947.61 |

Total Cost

|  |            |      |  |  |            |                |
|--|------------|------|--|--|------------|----------------|
|  | Total Cost | P    |  |  |            | 581,500,458.82 |
|  |            | P(a) |  |  | 93,293,000 | 581,492,174    |
|  |            | A    |  |  | 41,475,000 | 453,178,185.14 |



### CHANGES TO THE MATRIX

No information available for this section