

# PMR Operational Report

|                             |                             |                                               |          |
|-----------------------------|-----------------------------|-----------------------------------------------|----------|
| <b>Operation Number</b>     | NI-L1145                    | <b>Chief of Operations Validation Date</b>    | 03/30/20 |
| <b>Year- PMR Cycle</b>      | Second period Jan-Dec 2019  | <b>Division Chief Validation Date</b>         | 03/30/20 |
| <b>Last Update</b>          | 03/26/20                    | <b>Country Representative Validation Date</b> | 04/02/20 |
| <b>PMR Validation Stage</b> | Validated by Representative |                                               |          |

## Basic Data

### Operation Profile

|                           |                                                                                                                               |                                         |                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| <b>Operation Name</b>     | Project for the Improvement and Sustainable Management of Drinking Water and Sanitation Services in Urban and Periurban Areas | <b>Loan Number</b>                      | 4412/BL-NI                                                        |
| <b>Executing Agency</b>   | EMPRESA NICARAGUENSE DE ACUEDUCTOS Y ALCANTARILLADOS                                                                          | <b>Sector/Subsector</b>                 | AS-SAU - WATER AND SANITATION-<br>SANITATION URBAN                |
| <b>Team Leader</b>        | ESTRADA REGALADO, NELSON MAURICIO                                                                                             | <b>Overall Stage</b>                    | Disbursing (From eligibility until all the Operations are closed) |
| <b>Operation Type</b>     | Loan Operation                                                                                                                | <b>Country</b>                          | Nicaragua                                                         |
| <b>Lending Instrument</b> | Investment Loan                                                                                                               | <b>Convergence related Operation(s)</b> |                                                                   |
| <b>Borrower</b>           | REPUBLICA DE NICARAGUA                                                                                                        |                                         |                                                                   |

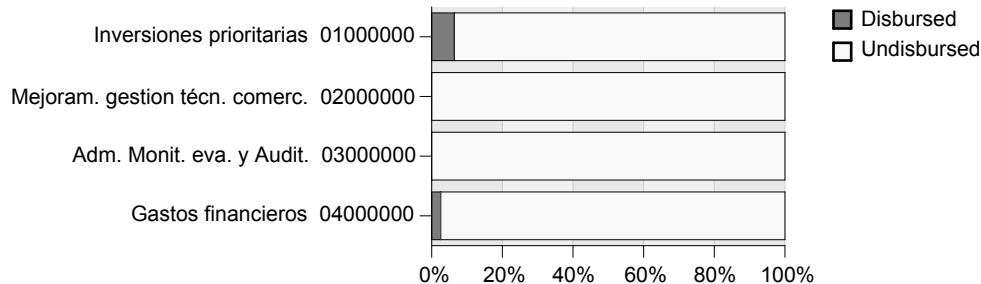
## Environmental and Social Safeguards

|                                                 |   |                                                                  |    |
|-------------------------------------------------|---|------------------------------------------------------------------|----|
| <b>Impacts Category</b>                         | B | <b>Was/Were the objective(s) of this operation reformulated?</b> | NO |
| <b>Safeguard Performance Rating</b>             |   | <b>Date of approval</b>                                          |    |
| <b>Safeguard Performance Rating - Rationale</b> |   |                                                                  |    |

## 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 |
| NI-L1145   | 72,000,000            | 72,000,000  | 1,100,000         | 0                      | 73,100,000          | 72,000,000             | 10,541,725           | 14.64% | 61,458,275         |
| Aggregated | 72,000,000            | 72,000,000  | 1,100,000         | 0                      | 73,100,000          | 72,000,000             | 10,541,725           | 14.64% | 61,458,275         |

## Expense Categories by Loan Contract (cumulative values)



## PMR Operational Report

### RESULTS MATRIX

### IMPACTS

No information available for this section

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

**Outcome Nbr. 0:** Incremento de la cobertura de saneamiento en las ciudades o barrios intervenidos

**Observation:**

| Indicator |                                                   | Unit of Measure | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021     | 2022     | 2023 | EOP 2023  |
|-----------|---------------------------------------------------|-----------------|----------|---------------|------|------|------|------|----------|----------|------|-----------|
| 0.0       | Hogares con acceso nuevo o mejorado a saneamiento | Hogares         | 3,986.00 | 2017          | P    | 0.00 | 0.00 | 0.00 | 8,776.00 | 3,314.00 | 0.00 | 12,090.00 |
|           |                                                   |                 |          |               | P(a) | 0.00 | 0.00 | 0.00 | 8,776.00 | 3,314.00 | 0.00 | 12,090.00 |
|           |                                                   |                 |          |               | A    | 0.00 | 0.00 |      |          |          |      |           |

#### Details

**Means of verification:** informes semestrales de proyecto - documentos ENACAL

**Observations:** línea base sera verificada el 1er año de ejecución

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

| Indicator |                                             | Unit of Measure | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021     | 2022     | 2023 | EOP 2023 |
|-----------|---------------------------------------------|-----------------|----------|---------------|------|------|------|------|----------|----------|------|----------|
| 0.1       | Hogares cuyas aguas residuales son tratadas | Hogares         | 2,500.00 | 2017          | P    | 0.00 | 0.00 | 0.00 | 4,388.00 | 3,471.00 | 0.00 | 7,859.00 |
|           |                                             |                 |          |               | P(a) | 0.00 | 0.00 | 0.00 | 4,388.00 | 3,471.00 | 0.00 | 7,859.00 |
|           |                                             |                 |          |               | A    | 0.00 | 0.00 |      |          |          |      |          |

#### Details

**Means of verification:** informes semestrales de proyecto - documentos ENACAL

**Observations:** línea base sera verificada el 1er año de ejecución

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

| Indicator |                                                       | Unit of Measure | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021  | 2022  | 2023  | EOP 2023 |
|-----------|-------------------------------------------------------|-----------------|----------|---------------|------|------|------|------|-------|-------|-------|----------|
| 0.2       | Tasa de conectividad a los sistemas de alcantarillado | %               | 0.00     | 2017          | P    | 0.00 | 0.00 | 0.00 | 50.00 | 65.00 | 65.00 | 65.00    |
|           |                                                       |                 |          |               | P(a) | 0.00 | 0.00 | 0.00 | 50.00 | 65.00 | 65.00 | 65.00    |
|           |                                                       |                 |          |               | A    | 0.00 | 0.00 |      |       |       |       |          |

#### Details

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

**Outcome Nbr. 1:** ENACAL mejora su desempeño en Altamira, Managua

**Observation:**

| Indicator |                                                 | Unit of Measure | Baseline | Baseline Year |   | 2018  | 2019  | 2020  | 2021  | 2022  | 2023  | EOP 2023 |
|-----------|-------------------------------------------------|-----------------|----------|---------------|---|-------|-------|-------|-------|-------|-------|----------|
| 1.0       | Proporción de agua producida que es monitoreada | %               | 30.00    | 2016          | P | 30.00 | 30.00 | 60.00 | 85.00 | 95.00 | 95.00 | 95.00    |

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

|            |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
|------------|---------------------------------------------------------------------------------|-----------------|----------|---------------|---------------|-------|-------|----------|----------|----------|----------|----------|
| 1.0        | Proporción de agua producida que es monitoreada                                 | %               | 30.00    | 2016          | P(a)          | 30.00 | 30.00 | 60.00    | 85.00    | 95.00    | 95.00    | 95.00    |
|            |                                                                                 |                 |          |               | A             | 0.00  | 41.00 |          |          |          |          |          |
| Details    |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
| Pro-Gender |                                                                                 | No              |          |               | Pro-Ethnicity |       | No    |          |          |          |          |          |
| Indicator  |                                                                                 | Unit of Measure | Baseline | Baseline Year |               | 2018  | 2019  | 2020     | 2021     | 2022     | 2023     | EOP 2023 |
| 1.1        | Agua no facturada en la Delegación de Altamira                                  | %               | 54.90    | 2016          | P             | 0.00  | 54.00 | 50.00    | 48.00    | 40.00    | 40.00    | 40.00    |
|            |                                                                                 |                 |          |               | P(a)          | 0.00  | 54.00 | 50.00    | 48.00    | 40.00    | 40.00    | 40.00    |
|            |                                                                                 |                 |          |               | A             | 0.00  | 54.00 |          |          |          |          |          |
| Details    |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
| Pro-Gender |                                                                                 | No              |          |               | Pro-Ethnicity |       | No    |          |          |          |          |          |
| Indicator  |                                                                                 | Unit of Measure | Baseline | Baseline Year |               | 2018  | 2019  | 2020     | 2021     | 2022     | 2023     | EOP 2023 |
| 1.2        | Eficacia de recaudación en la Delegación de Altamira                            | %               | 85.50    | 2016          | P             | 0.00  | 0.00  | 86.50    | 88.00    | 90.00    | 90.00    | 90.00    |
|            |                                                                                 |                 |          |               | P(a)          | 0.00  | 0.00  | 86.50    | 88.00    | 90.00    | 90.00    | 90.00    |
|            |                                                                                 |                 |          |               | A             | 0.00  | 0.00  |          |          |          |          |          |
| Details    |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
| Pro-Gender |                                                                                 | No              |          |               | Pro-Ethnicity |       | No    |          |          |          |          |          |
| Indicator  |                                                                                 | Unit of Measure | Baseline | Baseline Year |               | 2018  | 2019  | 2020     | 2021     | 2022     | 2023     | EOP 2023 |
| 1.3        | Reducción de número de roturas en red y acometidas en la Delegación de Altamira | Rotura          | 3,185.00 | 2016          | P             | 0.00  | 0.00  | 2,800.00 | 2,600.00 | 1,900.00 | 1,900.00 | 1,900.00 |
|            |                                                                                 |                 |          |               | P(a)          | 0.00  | 0.00  | 2,800.00 | 2,600.00 | 1,900.00 | 1,900.00 | 1,900.00 |
|            |                                                                                 |                 |          |               | A             | 0.00  | 0.00  |          |          |          |          |          |
| Details    |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
| Pro-Gender |                                                                                 | No              |          |               | Pro-Ethnicity |       | No    |          |          |          |          |          |
| Indicator  |                                                                                 | Unit of Measure | Baseline | Baseline Year |               | 2018  | 2019  | 2020     | 2021     | 2022     | 2023     | EOP 2023 |
| 1.4        | Micro medición efectiva en la Delegación de Altamira                            | %               | 65.00    | 2016          | P             | 0.00  | 70.00 | 80.00    | 85.00    | 90.00    | 90.00    | 90.00    |
|            |                                                                                 |                 |          |               | P(a)          | 0.00  | 70.00 | 80.00    | 85.00    | 90.00    | 90.00    | 90.00    |
|            |                                                                                 |                 |          |               | A             | 0.00  | 70.00 |          |          |          |          |          |
| Details    |                                                                                 |                 |          |               |               |       |       |          |          |          |          |          |
| Pro-Gender |                                                                                 | No              |          |               | Pro-Ethnicity |       | No    |          |          |          |          |          |

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

| Indicator | Unit of Measure                                                                          | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021  | 2022  | 2023  | EOP 2023 |
|-----------|------------------------------------------------------------------------------------------|----------|---------------|------|------|------|------|-------|-------|-------|----------|
| 1.5       | Viviendas con continuidad del servicio de agua 24 horas/día en la Delegación de Altamira | %        | 83.00         | 2016 | P    | 0.00 | 0.00 | 85.00 | 88.00 | 90.00 | 90.00    |
|           |                                                                                          |          |               |      | P(a) | 0.00 | 0.00 | 85.00 | 88.00 | 90.00 | 90.00    |
|           |                                                                                          |          |               |      | A    | 0.00 | 0.00 |       |       |       |          |

#### Details

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

**Outcome Nbr. 2:** ENACAL mejora su desempeño en otras ciudades

**Observation:**

| Indicator | Unit of Measure                                                              | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | EOP 2023 |
|-----------|------------------------------------------------------------------------------|----------|---------------|------|------|------|------|------|------|------|----------|
| 2.0       | Sistema de agua operado por ENACAL con menos de 42% de agua no contabilizada | %        | 0.00          | 2016 | P    | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 8.00     |
|           |                                                                              |          |               |      | P(a) | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 8.00     |
|           |                                                                              |          |               |      | A    | 0.00 | 0.00 |      |      |      |          |

#### Details

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

| Indicator | Unit of Measure                                                                    | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | EOP 2023 |
|-----------|------------------------------------------------------------------------------------|----------|---------------|------|------|------|------|------|------|------|----------|
| 2.1       | Sistema de agua operado por una alcaldía con menos de 45% de agua no contabilizada | %        | 0.00          | 2016 | P    | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00     |
|           |                                                                                    |          |               |      | P(a) | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00     |
|           |                                                                                    |          |               |      | A    | 0.00 | 0.00 |      |      |      |          |

#### Details

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

| Indicator | Unit of Measure                                                | Baseline | Baseline Year |      | 2018 | 2019 | 2020 | 2021  | 2022  | 2023  | EOP 2023 |
|-----------|----------------------------------------------------------------|----------|---------------|------|------|------|------|-------|-------|-------|----------|
| 2.5       | Continuidad del servicio de agua en sistema operado por ENACAL | %        | 2016          | P    | 0.00 | 0.00 | 0.00 | 20.00 | 23.00 | 23.00 | 23.00    |
|           |                                                                |          |               | P(a) | 0.00 | 0.00 | 0.00 | 20.00 | 23.00 | 23.00 | 23.00    |
|           |                                                                |          |               | A    | 0.00 | 0.00 |      |       |       |       |          |

#### Details

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

| Indicator | Unit of Measure | Baseline | Baseline Year |  | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | EOP 2023 |
|-----------|-----------------|----------|---------------|--|------|------|------|------|------|------|----------|
|-----------|-----------------|----------|---------------|--|------|------|------|------|------|------|----------|

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

|            |                                                                      |           |  |      |               |      |      |      |       |       |       |       |
|------------|----------------------------------------------------------------------|-----------|--|------|---------------|------|------|------|-------|-------|-------|-------|
| 2.6        | Continuidad del servicio de agua en sistema operado por una alcaldía | Horas?Día |  | 2016 | P             | 0.00 | 0.00 | 0.00 | 15.00 | 18.00 | 18.00 | 18.00 |
|            |                                                                      |           |  |      | P(a)          | 0.00 | 0.00 | 0.00 | 15.00 | 18.00 | 18.00 | 18.00 |
|            |                                                                      |           |  |      | A             | 0.00 | 0.00 |      |       |       |       |       |
| Details    |                                                                      |           |  |      |               |      |      |      |       |       |       |       |
| Pro-Gender |                                                                      | No        |  |      | Pro-Ethnicity |      | No   |      |       |       |       |       |

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Inversiones prioritarias en saneamiento urbano y periurbano

|     | Output                                                                                                                 | Unit of Measure |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |               |
|-----|------------------------------------------------------------------------------------------------------------------------|-----------------|------|-------------------|----------|--------------------|---------------|
|     |                                                                                                                        |                 |      | 2019              | EOP 2023 | 2019               | EOP 2023      |
| 1.1 | Sistemas de alcantarillado construidos                                                                                 | Sistemas        | P    | 0                 | 9        | 848,431            | 22,622,046.73 |
|     |                                                                                                                        |                 | P(a) | 0                 | 9        | 2,184,717.18       | 17,532,859    |
|     |                                                                                                                        |                 | A    | 0                 | 0        | 2,219,621          | 2,219,621     |
| 1.2 | Plantas de tratamiento de aguas residuales construidas y operadas                                                      | Plantas         | P    | 0                 | 8        | 335,712            | 7,420,727.85  |
|     |                                                                                                                        |                 | P(a) | 0                 | 8        | 990,768.49         | 6,784,215     |
|     |                                                                                                                        |                 | A    | 0                 | 0        | 1,204,916          | 1,204,916     |
| 1.3 | Planta de tratamiento de aguas residuales rehabilitadas                                                                | Planta          | P    | 0                 | 1        | 0                  | 490,000       |
|     |                                                                                                                        |                 | P(a) | 0                 | 1        | 0                  | 757,292       |
|     |                                                                                                                        |                 | A    | 0                 | 0        | 0                  | 0             |
| 1.4 | Sistemas de agua rehabilitados                                                                                         | Sistema         | P    | 0                 | 11       | 2,781,889.07       | 23,438,125.22 |
|     |                                                                                                                        |                 | P(a) | 0                 | 11       | 2,896,258.61       | 32,292,022    |
|     |                                                                                                                        |                 | A    | 0                 | 0        | 1,787,298          | 1,787,298     |
| 1.5 | Estrategia de intervención social y de cambio de comportamiento para el uso del sistema de alcantarillado validada     | Estrategia      | P    | 1                 | 1        | 1,000              | 1,000         |
|     |                                                                                                                        |                 | P(a) | 1                 | 1        | 1,000              | 1,000         |
|     |                                                                                                                        |                 | A    | 1                 | 1        | 0                  | 0             |
| 1.6 | Estrategia de intervención social y de cambio de comportamiento para el uso del sistema de alcantarillado implementada | Estrategia      | P    | 1                 | 4        | 31,000             | 198,000       |
|     |                                                                                                                        |                 | P(a) | 0                 | 4        | 31,000             | 198,000       |
|     |                                                                                                                        |                 | A    | 0                 | 0        | 0                  | 0             |

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 2 Mejoramiento de la gestión técnica y comercial y obras de rápido impacto

|      | Output                                                                                                                | Unit of Measure      |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |            |
|------|-----------------------------------------------------------------------------------------------------------------------|----------------------|------|-------------------|----------|--------------------|------------|
|      |                                                                                                                       |                      |      | 2019              | EOP 2023 | 2019               | EOP 2023   |
| 2.1  | Macromedidores instalados en los centros de producción de agua de Managua                                             | Macromedidor         | P    | 0                 | 85       | 146,707.52         | 189,207.52 |
|      |                                                                                                                       |                      | P(a) | 0                 | 85       | 106,445.26         | 469,112.05 |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.2  | Equipos de medición de presión instalados en los centros de producción de agua de Managua                             | Medidor de presión   | P    | 0                 | 85       | 84,600             | 120,600    |
|      |                                                                                                                       |                      | P(a) | 0                 | 85       | 153,300            | 206,300    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.3  | Equipos de monitoreo de niveles del acuífero instalados para Managua                                                  | Sonda de nivel       | P    | 0                 | 40       | 143,885            | 185,885    |
|      |                                                                                                                       |                      | P(a) | 0                 | 40       | 43,305.5           | 161,100    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.4  | Centros de producción de agua en Altamira conectados a Scada en Managua                                               | Centro de producción | P    | 0                 | 25       | 547,600            | 608,000    |
|      |                                                                                                                       |                      | P(a) | 0                 | 25       | 547,600            | 608,000    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.5  | Infraestructuras de los centros de producción de agua de Altamira, Managua rehabilitados                              | infraestructura      | P    | 0                 | 45       | 152,500            | 320,000    |
|      |                                                                                                                       |                      | P(a) | 0                 | 45       | 95,700             | 323,000    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.6  | Instalaciones electromecánicas rehabilitadas en los centros de producción de agua de Altamira, Managua                | Centro de producción | P    | 0                 | 45       | 427,500            | 475,000    |
|      |                                                                                                                       |                      | P(a) | 0                 | 45       | 47,500             | 475,000    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.7  | Bombas sustituidas en los centros de producción de agua de Altamira, Managua                                          | Bombas               | P    | 0                 | 10       | 635,289            | 1,072,815  |
|      |                                                                                                                       |                      | P(a) | 0                 | 10       | 318,394.5          | 1,115,413  |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.8  | Equipos instalados para control de niveles en los tanques de almacenamiento de agua en Altamira, Managua              | Tanque               | P    | 0                 | 8        | 21,500             | 22,000     |
|      |                                                                                                                       |                      | P(a) | 0                 | 8        | 54,500             | 61,000     |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.9  | Infraestructura de los predios de almacenamiento de agua en Altamira, Managua rehabilitados                           | Predio               | P    | 0                 | 8        | 39,000             | 79,000     |
|      |                                                                                                                       |                      | P(a) | 0                 | 8        | 23,700             | 79,000     |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.10 | Red agua de Altamira, Managua sectorizada                                                                             | Sector               | P    | 0                 | 1        | 44,500             | 2,723,500  |
|      |                                                                                                                       |                      | P(a) | 0                 | 1        | 44,500             | 2,721,553  |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.11 | Puntos de suministro geolocalizados, datos de clientes y de puntos medición de agua actualizados de Altamira, Managua | Conexión             | P    | 0                 | 42,000   |                    | 98,000     |
|      |                                                                                                                       |                      | P(a) | 0                 | 42,000   |                    | 98,000     |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.12 | Rutas de lectura de Altamira rediseñadas e implementadas, Managua                                                     | Conjunto de rutas    | P    | 0                 | 1        |                    | 40,000     |
|      |                                                                                                                       |                      | P(a) | 0                 | 1        |                    | 40,000     |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.13 | Base de datos del catastro de redes de Altamira, Managua actualizada                                                  | Base de datos CAD    | P    | 0                 | 1        | 27,400             | 50,000     |
|      |                                                                                                                       |                      | P(a) | 0                 | 1        | 22,600             | 45,200     |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.14 | Acometidas rehabilitadas en Altamira, Managua                                                                         | Acometida            | P    | 0                 | 3,000    |                    | 1,200,000  |
|      |                                                                                                                       |                      | P(a) | 0                 | 3,000    |                    | 800,000    |
|      |                                                                                                                       |                      | A    | 0                 | 0        | 0                  | 0          |
| 2.15 | Micromedidores instalados en Altamira, Managua                                                                        | Micromedidor         | P    | 0                 | 2,500    | 116,387.78         | 116,387.78 |
|      |                                                                                                                       |                      | P(a) | 0                 | 2,500    | 81,471.45          | 126,716    |



## RESULTS MATRIX

### OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

|      | Output                                                                                                                                                                                                                                                                                                                                | Unit of Measure |      | PHYSICAL PROGRESS |          | FINANCIAL PROGRESS |              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|-------------------|----------|--------------------|--------------|
|      |                                                                                                                                                                                                                                                                                                                                       |                 |      | 2019              | EOP 2023 | 2019               | EOP 2023     |
| 2.15 | Micromedidores instalados en Altamira, Managua                                                                                                                                                                                                                                                                                        | Micromedidor    | A    | 0                 | 0        | 0                  | 0            |
| 2.16 | Grandes consumidores en Altamira con un punto de medición normalizado                                                                                                                                                                                                                                                                 | Unidades        | P    | 0                 | 400      | 101,770.01         | 101,770.01   |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | P(a) | 0                 | 400      | 71,239.01          | 262,171      |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | A    | 0                 | 0        | 0                  | 0            |
| 2.17 | Delegación de Altamira creada y dotada de infraestructuras y equipos                                                                                                                                                                                                                                                                  | Dotación        | P    | 0                 | 1        | 20,000             | 1,454,200    |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | P(a) | 0                 | 1        | 20,000             | 2,518,634    |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | A    | 0                 | 0        | 5,500              | 5,500        |
| 2.18 | La Delegación Altamira dispone de un stock de materiales de reparación                                                                                                                                                                                                                                                                | Stock           | P    | 0                 | 1        |                    | 500,000      |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | P(a) | 0                 | 1        |                    | 500,000      |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | A    | 0                 | 0        | 0                  | 0            |
| 2.19 | Actualización realizada de catastro de redes de agua potable y usuarios de Altagracia, Moyogalpa, Catarina+San Juan de Oriente+Ninjonohomo,Tola, San Juan del Sur, Corinto                                                                                                                                                            | Base de datos   | P    | 1                 | 8        | 38,400             | 128,000      |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | P(a) | 1                 | 8        | 38,400             | 128,000      |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | A    | 1                 | 1        | 0                  | 0            |
| 2.20 | La Delegación de Altamira desarrolla procedimientos nuevos y es gestionada con un organigrama; con fichas de funciones; con un sistema de evaluación y desempeño; con una gestión al día de inventario; con un diagnóstico y plan de acción de micromedición; con una gestión de las intervenciones y con procesos comerciales nuevos | Auditoria       | P    | 0                 | 1        | 494,834.69         | 1,259,834.69 |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | P(a) | 0                 | 1        | 0                  | 6,000        |
|      |                                                                                                                                                                                                                                                                                                                                       |                 | A    | 0                 | 0        | 0                  | 0            |

### Other Cost

|  |                                 |      |  |  |           |              |
|--|---------------------------------|------|--|--|-----------|--------------|
|  | Aministración                   | P    |  |  | 200,500   | 940,000      |
|  |                                 | P(a) |  |  | 200,500   | 713,913.39   |
|  |                                 | A    |  |  | 1,189.46  | 1,189.46     |
|  | Evaluación y monitoreo          | P    |  |  | 30,000    | 376,500      |
|  |                                 | P(a) |  |  | 30,000    | 376,500      |
|  |                                 | A    |  |  | 0         | 0            |
|  | Imprevistos y escalamiento      | P    |  |  |           | 3,169,400.2  |
|  |                                 | P(a) |  |  |           | 0            |
|  |                                 | A    |  |  | 0         | 0            |
|  | Gastos financieros del prestamo | P    |  |  | 239,318   | 3,700,000    |
|  |                                 | P(a) |  |  | 239,318   | 3,699,999.56 |
|  |                                 | A    |  |  | 95,267.25 | 95,267.25    |

### Total Cost

|  |            |      |  |  |              |              |
|--|------------|------|--|--|--------------|--------------|
|  | Total Cost | P    |  |  | 7,509,724.07 | 73,100,000   |
|  |            | P(a) |  |  | 8,242,218    | 73,100,000   |
|  |            | A    |  |  | 5,313,791.71 | 5,313,791.71 |

## CHANGES TO THE MATRIX

| Section | Name                                                                                                                                                                                                                                                                                                                                  | Reasons                                                                                                                                      | Type of Change | Subtype                                                                     | Modified By | Entered in the System |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|-------------|-----------------------|
| Output  | Acometidas rehabilitadas en Altamira, Managua                                                                                                                                                                                                                                                                                         | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Bombas sustituidas en los centros de producción de agua de Altamira, Managua                                                                                                                                                                                                                                                          | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Delegación de Altamira creada y dotada de infraestructuras y equipos                                                                                                                                                                                                                                                                  | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Equipos de monitoreo de niveles del acuífero instalados para Managua                                                                                                                                                                                                                                                                  | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Grandes consumidores en Altamira con un punto de medición normalizado                                                                                                                                                                                                                                                                 | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | La Delegación de Altamira desarrolla procedimientos nuevos y es gestionada con un organigrama; con fichas de funciones; con un sistema de evaluación y desempeño; con una gestión al día de inventario; con un diagnóstico y plan de acción de micromedición; con una gestión de las intervenciones y con procesos comerciales nuevos | A solicitud del OE y producto de la actualización de los costos reales de contratos firmados, se modifica la planificación anual.            | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Macromedidores instalados en los centros de producción de agua de Managua                                                                                                                                                                                                                                                             | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/11/2020            |
|         | Micromedidores instalados en Altamira, Managua                                                                                                                                                                                                                                                                                        | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Planta de tratamiento de aguas residuales rehabilitadas                                                                                                                                                                                                                                                                               | A solicitud del OE y producto de la actualización de los costos reales de contratos firmados, se modifica la planificación anual.            | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Plantas de tratamiento de aguas residuales construidas y operadas                                                                                                                                                                                                                                                                     | A solicitud del OE y producto de la actualización de los costos reales de contratos firmados, se modifica la planificación financiera anual. | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Red agua de Altamira, Managua sectorizada                                                                                                                                                                                                                                                                                             | A solicitud del OE se modifica la planificación anual.                                                                                       | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Sistemas de agua rehabilitados                                                                                                                                                                                                                                                                                                        | A solicitud del OE y producto de la actualización de los costos reales de contratos firmados, se modifica la planificación anual.            | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the Financial P(a). | RSIRIAS     | 03/03/2020            |
|         | Sistemas de alcantarillado construidos                                                                                                                                                                                                                                                                                                | A solicitud del OE y producto de la actualización de los costos reales de contratos firmados, se modifica la                                 | Modify Output  | Modify Financial EOP P(a) value - caused by a change in the                 | RSIRIAS     | 03/03/2020            |

## PMR Operational Report

### CHANGES TO THE MATRIX

| Section | Name | Reasons              | Type of Change | Subtype         | Modified By | Entered in the System |
|---------|------|----------------------|----------------|-----------------|-------------|-----------------------|
| Output  |      | planificación anual. |                | Financial P(a). |             |                       |

# PMR Operational Report

## IMPLEMENTATION STATUS AND LEARNING

| Lesson Learned - Categories                             |
|---------------------------------------------------------|
| Acquisitions and Procurement - Bidding Stage            |
| Environmental and Social Factors                        |
| Others - Dimensions Related to Public Processes/ Actors |
| Stakeholder Priorities                                  |