



ACUERDO CONSEJO DIRECTIVO No. 19

**"POR MEDIO DEL CUAL SE DEFINE LA META GLOBAL, METAS INDIVIDUALES Y GRUPALES DE CARGA CONTAMINANTE PARA LOS PARÁMETROS DBO<sub>5</sub> Y SST, EN LOS CUERPOS DE AGUA O TRAMOS DE LOS MISMOS EN LA JURISDICCIÓN DE LA CORPORACIÓN AUTÓNOMA REGIONAL DEL MAGDALENA, PERÍODO 2018-2022"**

El Consejo Directivo de la Corporación Autónoma Regional del Magdalena – CORPAMAG, en uso de sus facultades legales y estatutarias, en especial las que le confiere la Ley 99 de 1993 y

**CONSIDERANDO**

1. Que la Constitución Política, con relación a la protección del medio ambiente, contiene entre otras disposiciones, que es obligación del Estado y de las personas, proteger las riquezas culturales y naturales de la Nación (Art. 8°); corresponde al Estado organizar, dirigir y reglamentar la prestación de servicios de saneamiento ambiental conforme a los principios de eficiencia, universalidad y solidaridad (Art. 49).
2. Que de la misma manera el Artículo 79 de la Constitución Política establece, que todas las personas tienen derecho a gozar de un ambiente sano, y que es deber del Estado proteger la diversidad e integridad del ambiente, conservar las áreas de especial importancia ecológica y fomentar la educación para el logro de estos fines.
3. Que el artículo 80 de la misma carta magna, determino: *El estado planificara, el manejo y aprovechamiento de los recursos naturales para garantizar su desarrollo sostenible su conservación, restauración o sustitución. Además, deberá prevenir y controlar los factores de deterioro ambiental, imponer las sanciones legales y exigir la reparación de los daños causados (...).*
4. Que la Ley 99 de 1993, Artículo 31, numeral 12 establece que es función de las Corporaciones Autónomas Regionales efectuar la "...evaluación, control y seguimiento ambiental de los usos del agua, el suelo, el aire y los demás recursos naturales renovables, lo cual comprenderá el vertimiento, emisión o incorporación de sustancias o residuos líquidos, sólidos y gaseosos, a las aguas en cualquiera de sus formas, al aire o a los suelos, así como los vertimientos o emisiones que puedan causar daño o poner en peligro el normal desarrollo sostenible de los recursos naturales renovables o impedir u obstaculizar su empleo para otros usos, estas funciones comprenden expedición de las respectivas licencias ambientales, permisos concesiones, Autorizaciones y salvoconductos".
5. Que de conformidad con el artículo, 134 del Código Nacional de Recursos Naturales Renovables y de protección al Medio Ambiente, Decreto ley 2811 de 1974, dispone: *Corresponde al estado garantizar la calidad del agua para consumo humano, y en general, para las demás actividades en que su uso es necesario.*
6. Que el Decreto 1076 del 26 de mayo de 2012, reglamentó las tasas retributivas como un

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instrumento económico con el que cuentan las Corporaciones Autónomas Regionales, para Incentivar el cambio de comportamiento de los usuarios y reducir la carga contaminante que de manera directa e indirecta se vierte al recurso hídrico.

7. Que en virtud del artículo 2.2.9.7.3.1 del Decreto 1076 de 2015, la Corporación Autónoma Regional en su jurisdicción “(...) establecerá cada cinco años una meta Global de carga contaminante para cada cuerpo de agua o tramo del mismo de conformidad con el procedimiento establecido en el artículo 2.2.9.7.3.5 (...), la cual será igual a la suma de las metas quinquenales individuales y grupales establecidas en el artículo 2.2.9.7.3.2. (...)”
8. Que conforme a la disposición citada, para la determinación de la meta se considerará “la línea base de cargas de DBO<sub>5</sub> Y SST, las proyecciones de carga de los usuarios y los objetivos de calidad vigentes al final del quinquenio, así como la capacidad de carga del tramo o cuerpo de agua y la ejecución de obras previstas en el Plan de Saneamiento y Manejo de Vertimientos – PSMV, el Permiso de Vertimientos y el Plan de Reconversión a Tecnología Limpia en Gestión de Vertimientos de conformidad con lo dispuesto en el Decreto 1076 de 2015.”
9. Que El Ministerio de Ambiente y Desarrollo Sostenible MADS, expidió La nueva norma de vertimientos Resolución 0631 de 2015, que reglamentó el artículo 28 del Decreto 3930 de 2010, así mismo actualiza el Decreto 1594 de 1984 compilado hoy en el Decreto 1076 de 2015, lo anterior respondiendo a la nueva realidad urbana, industrial y ambiental del país, la cual permitirá el control de las sustancias contaminantes que llegan a los cuerpos de agua vertidas por 73 actividades productivas presentes en ocho sectores económicos del país.
10. Que la Resolución 0631 de 2015, es de obligatorio cumplimiento para todas aquellas personas que desarrollen actividades industriales, comerciales o de servicios y que en el desarrollo de las mismas generen aguas residuales, que serán vertidas en un cuerpo de agua superficial o al alcantarillado público.
11. Que el control y seguimiento de la autoridad ambiental, a los vertimientos a fuentes hídricas superficiales se realizará a partir de la medición de la cantidad de sustancias descargadas, que es lo que impacta en la calidad del agua, y no el proceso de tratamiento. Ahora esta medición se realizará en mg/L y no en kg día, como se venía realizando. Este es tal vez uno de los cambios más importantes presentes en la Norma de Vertimientos Puntuales y es la revisión de los valores a partir de la concentración, lo que va a permitir tener un parámetro fijo a cumplir según la actividad productiva.



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12. Que CORPAMAG, durante el régimen de transición de la nueva norma de vertimiento deberá revisar y ajustar las metas individuales y grupales de los usuarios, considerando para ello los parámetros y los valores límites máximos permisibles definidos para la diferentes actividades industriales, comerciales y de servicios contempladas en la resolución 0631 de 2015, para lo cual se debe dar cumplimiento al procedimiento definido para el establecimiento de la meta global e individual de carga contaminante y que se encuentra detallado en el artículo 2.2.9.7.3.5 del Decreto 1076 de 2015.
13. Que en virtud a los diferentes cambios normativos las corporaciones autónomas regionales del país han solicitado al Ministerio de Ambiente y Desarrollo Sostenible, conceptos y aclaraciones, sobre los ajustes que deben proceder en este sentido, el citado emitió concepto con radicado OAJ 81-40- E2 -2016 de 23 de septiembre de 2016, el cual expone textualmente.
14. Que CORPAMAG, atendiendo lo solicitado por el Ministerio de Ambiente y Desarrollo Sostenible y dando cumplimiento a la normatividad ambiental vigente, suscribió los contratos de prestación de servicios profesionales No. 230 y 231 de diciembre de 2017 suscritos entre CORPAMAG y GEMA PROYECTOS Y CONSULTORÍAS S.A.S, cuyos objetos son los siguientes respectivamente:
  - a) Realizar ajuste de metas de cargas contaminantes con los sectores Bananeros, Domésticos, Avícola y Palmicultoras y realizar el ajuste a los objetivos de calidad de las cuencas de Los Ríos Aracataca, Córdoba, Buritaca, Don Diego, Frio, Fundación, Gaira, Guachaca, Manzanares, Mendihuaca, Palomino, Sevilla, Toribio y Tucurínca.
  - b) Identificar los usuarios del sector cafetero que realizan vertimientos en los cuerpos de agua que cuentan con objetivos de calidad en la jurisdicción de CORPAMAG, a través del reconocimiento de predios, construcción de línea base de sector cafetero y el establecimiento de metas de cargas contaminantes con el sector cafetero.
15. Que en el marco de la implementación del Decreto 1076 de 2015 , la Corporación Autónoma Regional del Magdalena CORPAMAG, dando cumplimiento a lo establecido en el numeral I del artículo 2.2.9.7.3.5 del Decreto en mención, mediante la Resolución No. 071 de 2018, abre convocatoria y regula el proceso de desarrollo de las mesas de trabajo para fijación de metas de cargas contaminantes por Demanda Bioquímica de Oxígeno (DBO<sub>5</sub>) y sólidos suspendidos totales (SST) para vertimientos puntuales a los cuerpos de agua superficiales



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que se encuentran dentro de la jurisdicción de la Corporación para el periodo 2018-2022.

16. Que en virtud del artículo 2.2.9.7.3.4 del Decreto 1076 de 2015, para el establecimiento del ajuste de metas de carga contaminante, la Corporación documentó el estado del cuerpo o tramo de agua en términos de calidad y cantidad; ha identificado los usuarios que realizan vertimientos en cada cuerpo o tramo de agua; ha conocido para cada uno de ellos la concentración de cada elemento contaminante presente en los vertimientos de agua y el caudal del efluente para la determinación de la carga total vertida objeto del cobro de la tasa; ha identificado si los usuarios cuentan o no con Plan de Saneamiento y Manejo de Vertimientos, Permiso de Vertimientos vigente, Plan de Reconversión a Tecnología Limpia en Gestión de Vertimientos, de conformidad con el Decreto 1076 de 2015; además ha calculado la línea base y el total de carga contaminante de cada elemento contaminante vertido objeto de cobro durante un año por dichos usuarios.
17. Que igualmente la Corporación con el ánimo de lograr la transparencia y divulgación masiva del proceso de consulta para el establecimiento del ajuste metas de cargas contaminantes, realizó la convocatoria con la difusión y la publicación del cronograma del proceso de consulta en la Página Web de la entidad, disponiéndose la totalidad de la información relacionada en la página Web: [www.corpamag.gov.co](http://www.corpamag.gov.co) . De igual manera realizó invitaciones individuales a todos los usuarios pasivos de tasa retributiva.
18. Que durante la consulta se realizaron, talleres o mesas de trabajo celebrados con los sujetos pasivos de tasa retributiva como a continuación se detalla:

Taller 1, Cuya finalidad fue iniciar el proceso participativo dentro del cronograma de consulta para el establecimiento de metas de cargas contaminantes de Demanda Bioquímica de Oxígeno (DBO<sub>5</sub>) y Sólidos Suspendidos Totales (SST), por la utilización directa e indirecta del agua como cuerpo receptor de vertimientos puntuales, en la Jurisdicción de CORPAMAG para el periodo 2018-2022. Durante este taller se desarrolló la siguiente temática:

- a) Razones de la revisión y ajuste de metas globales e individuales de cargas contaminantes para el periodo 2018-2022, en la jurisdicción de CORPAMAG.
- b) Decreto único de ambiente y desarrollo sostenible 1076 de 2015.
- c) Resolución 0631 de 2015. Antecedentes y conceptos claves.
- d) Pasos - conceptos de la revisión y ajuste de metas de cargas contaminantes y objetivos de calidad.
- e) Factor regional y tasa retributiva



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- f) Ajuste de los objetivos de calidad en la cuenca de los ríos Aracataca, Córdoba, Buritaca, Don Diego, Frio, Fundación, Gaira, Guachaca, Manzanares, Mendihuaca, Palomino, Sevilla, Toribio y Tucurínca.

El taller No. 1 se realizó por sectores en las siguientes fechas y lugares.

| Lugar reunión         | Sectores convocados                        | Hora y fecha                                |
|-----------------------|--|---|
| Auditorio -CORPAMAG,  | Banadero, Palmicultor, Domestico y Avícola | 18 de enero de 2018 de 9:00 am a 1:00 p.m.  |
| San Pedro             | Cafetero                                   | 19 de febrero de 2018 de 9:00 am a 1:00p.m. |
| Palmor                | Cafetero                                   | 20 de febrero de 2018 de 9:00 am a 1:00p.m. |
| Minca                 | Cafetero                                   | 22 de febrero de 2018 de 9:00 am a 1:00p.m. |
| Vereda el 50          | Cafetero                                   | 23 de marzo de 2018 de 9:00 am a 1:00 p.m.  |
| Vereda las Margaritas | Cafetero                                   | 22 de marzo de 2018 de 9:00 am a 1:00 p.m.  |

Taller 2, el objetivo de este taller o mesa de trabajo fue presentar los escenarios de metas de cargas contaminantes, línea base de usuarios, estado actual del recurso hídrico y metodología de sustentación de la propuesta.

El taller No. 2. Se realizó por sectores en las siguientes fechas y lugares.

| Lugar reunión         | Sectores convocados                        | Hora y fecha                                |
|-----------------------|--|---|
| Auditorio -CORPAMAG,  | Banadero, Palmicultor, Domestico y Avícola | 16 de febrero de 2018 de 9:00 am a 1:00p.m. |
| San Pedro             | Cafetero                                   | 24 de marzo de 2018 de 9:00 am a 1:00 p.m.  |
| Palmor                | Cafetero                                   | 07 de abril de 2018 de 9:00 am a 1:00 p.m.  |
| Minca                 | Cafetero                                   | 05 de abril de 2018 de 9:00 am a 1:00 p.m.  |
| Vereda el 50          | Cafetero                                   | 28 de abril de 2018 de 9:00 am a 1:00 p.m.  |
| Vereda las Margaritas | Cafetero                                   | 26 de abril de 2018 de 9:00 am a 1:00 p.m.  |

19. Que durante el proceso de consulta de metas y en cumplimiento a lo establecido en el Decreto 1076 de 2015 y dentro de los términos proferidos en la Resolución No. 071 del 22 de Enero de 2018, CORPMAG, fijo como fecha límite para entrega de propuestas de cargas contaminantes, periodo 2018-2023, para los sectores (Banaderos, Palmicultor, avícola y Domestico) el día el día 9 de marzo de 2018 a las 5:00 pm y para el sector cafetero el día 23 de mayo de 2018 a las 5:00 pm.

20. La Corporación Autónoma Regional del Magdalena, organizo las propuestas recibidas en la recepción de la Corporación y se obtuvo la siguiente relación

| Nº | USUARIO                                    | No DE RADICADO | REPRESENTANTE LEGAL           |
|----|--|----------------|-------------------------------|
| 1  | EXTRACTORA FRUPALMA S.A                    | 1928           | GABRIEL EDUA RDO BARRAGAN.    |
| 2  | C.I. COMPRAS AMERICAS S.A.S (CAMPO ALEGRE) | 1926           | CAMILO SERRANO D.             |
| 3  | CANALI S.A.S (DON FUAD 1)                  | 1829           | JAVIER ERNESTO POMARES MEDINA |



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| Nº | USUARIO                                      | No DE RADICADO | REPRESENTANTE LEGAL           |
|----|--|----------------|-------------------------------|
| 4  | GRANJA AVICOLA ALTAIR (ORION)                | 1678           | IRMA JURADO RAMOS.            |
| 5  | AGRICOLA MARGARITA S.A.S (FINCA DON SAID)    | 1830           | JAVIER ERNESTO POMARES MEDINA |
| 6  | INVERSIONES RPD S.A.S                        | 1519           | CALOS FRANCISCO PEREZ.        |
| 7  | AGRICOLA EUFEMIA.(FINCA EUFEMIA)             | 1825           | JAVIER ERNESTO POMARES MEDINA |
| 8  | BANANERA EL ENANO S.A.S (FINCA ENANO)        | 1826           | JAVIER ERNESTO POMARES MEDINA |
| 9  | BANAEVA S.A.S (SAN ALFREDO)                  | 1828           | JAVIER ERNESTO POMARES MEDINA |
| 10 | AGROPECUARIA SAN GABRIEL S.A.S (SAN ANTONIO) | 1827           | JAVIER ERNESTO POMARES MEDINA |
| 11 | EXTRACTORA EL ROBLE S.A.S                    | 1593           | JAIME VIVES PINEDO            |
| 12 | INVERSINES NASARA S.A.S                      | 1848           | AHMED FAKIN HACHEEMM          |
| 13 | LA FRANCISCA S.A.S                           | 1835           | JAVIER ERNESTO POMARES MEDINA |
| 14 | INVERSINES MRS S.A.S                         | 1833           | JAVIER ERNESTO POMARES MEDINA |
| 15 | INVERSINES TIN S.A.S (DIVA 1)                | 1834           | JAVIER ERNESTO POMARES MEDINA |
| 16 | BANAVEGA S.A.S                               | 1832           | JAVIER ERNESTO POMARES MEDINA |
| 17 | INVERSINES LA LOLITA S.A.S.                  | 1831           | JAVIER ERNESTO POMARES MEDINA |
| 18 | PROCESADORA DE POLLOS HUCANA                 | 1904           | HUGO CANTILLO NAVARRO         |
| 19 | C.I. COMPRAS AMERICAS S.A.S (LA GRANJA)      | 1926           | CAMILO ERNESTO SERRANO.       |
| 20 | C.I. COMPRAS AMERICAS S.A.S (JOSEFINA)       | 1926           | CAMILO ERNESTO SERRANO.       |
| 21 | CANALI S.A.S (DON FUAD 2)                    | 1829           | JAVIER ERNESTO POMARES MEDINA |
| 22 | AGRICOLA EUFEMIA.(OLGA)                      | 1825           | JAVIER ERNESTO POMARES MEDINA |
| 23 | AGRICOLA EUFEMIA.(FINCA TERESA)              | 1825           | JAVIER ERNESTO POMARES MEDINA |
| 24 | BANANERA EL ENANO S.A.S (SAMY)               | 1826           | JAVIER ERNESTO POMARES MEDINA |
| 25 | BANANERA EL ENANO S.A.S (ASUNCION)           | 1826           | JAVIER ERNESTO POMARES MEDINA |
| 26 | BANAEVA S.A.S (EVA)                          | 1828           | JAVIER ERNESTO POMARES MEDINA |
| 27 | BANAEVA S.A.S (CIENAGA)                      | 1828           | JAVIER ERNESTO POMARES MEDINA |
| 28 | BANAEVA S.A.S (PALMIRA)                      | 1828           | JAVIER ERNESTO POMARES MEDINA |
| 29 | BANAEVA S.A.S (LA VICTORIA)                  | 1828           | JAVIER ERNESTO POMARES MEDINA |
| 30 | AGROPECUARIA SAN GABRIEL S.A.S (NEERLANDIA)  | 1827           | JAVIER ERNESTO POMARES MEDINA |
| 31 | INVERSINES TIN S.A.S (DIVA 2)                | 1834           | JAVIER ERNESTO POMARES MEDINA |
| 32 | INVERSINES TIN S.A.S (DIVA 3)                | 1834           | JAVIER ERNESTO POMARES MEDINA |
| 33 | FINCA MIRAMAR II                             | 3465           | JOSÉ EMEL ORTIZ SILVA         |



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21. Continuando con el proceso establecido en el artículo 2.2.9.7.3.5 del Decreto 1076 de 2015, esta Autoridad Ambiental, una vez evaluadas las propuestas de ajuste de metas de cargas de DBO<sub>5</sub> y SST, presentadas por los usuarios, somete a consulta de los interesados y de la comunidad en general, el proyecto con la propuesta de ajuste de metas de cargas contaminantes para el periodo 2018 -2022, durante un periodo de 15 días calendario a partir de la fecha de publicación, con el fin de que los usuarios presenten observaciones y comentarios.
22. Que Durante el periodo antes mencionado, se recibió una observación realizada por el usuario EXTRACTORA FRUPALMA S.A.
23. Que teniendo en cuenta la observación presentada, se realizaron ajustes a la propuesta de metas de cargas contaminante publicada previamente por la entidad.
24. Que una vez sometida a consulta pública y comentarios la propuesta de meta de carga contaminantes para las Cuencas de los ríos Aracataca, Córdoba, Buritaca, Don Diego, Frio, Fundación, Gaira, Guachaca, Manzanares, Mendihuaca, Palomino, Sevilla, Toribio y Tucurínca de la jurisdicción de la Corporación Autónoma Regional del Magdalena - CORPAMAG; y una vez recibidas las observaciones y/o comentarios por parte de los sujetos PASIVOS de la tasa retributiva y; en Cumplimiento de lo consagrado en el Decreto 1076 de 2015; esta Entidad elaboró la Propuesta Definitiva de meta global y metas individuales de carga contaminantes para los parámetros DBO<sub>5</sub> y SST, por la utilización directa e indirecta del agua como receptor de vertimientos puntuales directos e indirectos a los cuerpos de agua en su jurisdicción, para el periodo 2018-2022.
25. Que el Director General de la Corporación Autónoma Regional del Magdalena CORPAMAG, en ejercicio de Sus Facultades legales y en cumplimiento de la normatividad ambiental, Decreto 1076 de 2015, presentó al Consejo Directivo de la Corporación la propuesta definitiva de meta global y las meta individuales de carga contaminante para los parámetros DBO<sub>5</sub> y SST, en los cuerpos de aguas o en los tramos de los mismos en su jurisdicción para el periodo 2018-2022.
26. Que en la construcción de la propuesta de metas de carga contaminante se realizó teniendo en cuenta el estado de los Cuerpos de agua que tienen objetivos de Calidad.
27. Qué asimismo, la Corporación tuvo en cuenta los factores de crecimiento de cada sector



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identificados durante el proceso como se detalla a continuación:

El sector Agroindustrial se trabajó con base en promedios fundamentados en la información registrada desde el 2011 en los anales y registros de Planeación Nacional estableciendo, a juicio propio como lo permite el Decreto 1076 de 2015, un factor de incremento para este sector del 2 al 3.5% y considerando que las cargas contaminantes de estas empresas se incrementan de manera proporcional a dicho factor. Se incluye en este factor el crecimiento.

Para el sector de actividad cafetera, se tuvo en cuenta las siguientes consideraciones:

- a) incremento del 2% anual.
- b) Hectáreas sembradas de café
- c) las concentraciones máximas permitidas establecidas en la resolución No. 0631 de 2015
- d) Información captada en campo a través del contrato No. 231, mencionado en el ítem catorce (14) del presente acto administrativo.

Para las actividades relacionadas con el manejo y sacrificio de animales se adopta un incremento de acuerdo al crecimiento vegetativo de la población acorde con el municipio donde éste se encuentra asentado y conforme a la información oficial reportada en las bases de datos del DANE.

Para el sector doméstico y turístico se asume como incremento en la población el respectivo dato de proyección conforme a la información reportada para el DANE, considerando que las cargas contaminantes de estas localidades y sistemas públicos de alcantarillado, se incrementan de manera proporcional a dicho factor.

Para los municipios de la región, el cálculo de la carga contaminante de DBO<sub>5</sub> y SST con sus respectivas proyecciones para el establecimiento de las metas, se utilizaron datos presuntivos del RAS y el número de usuarios sin alcantarillado reportado por el PSMV en caso de estar aprobado, o de información existente en las autodeclaraciones de cargas como lo establece el Decreto 1076 de 2015, incluyendo la zona rural definida en el respectivo POT.

Que el Consejo Directivo de la Corporación Autónoma Regional del Magdalena - CORPAMAG, dentro del término consagrado en el artículo 2.2.9.7.3.5 del Decreto 1076 de 2015, en uso de la competencia otorgada por el mencionado Decreto y, una vez verificado el desarrollo de cada una de las etapas requeridas en el proceso de definición de la meta de





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carga contaminante y presentada por el Director General, la propuesta definitiva de meta de carga contaminante, procede en la parte decisoria del presente Acuerdo a definir las metas de carga contaminante y el respectivo cronograma de cumplimiento para el periodo 2018-2022.

Que en mérito de lo anteriormente expuesto, el Consejo Directivo

**ACUERDA:**

**ARTÍCULO PRIMERO:** Objeto. Definir la meta global, metas individuales de carga contaminante para los parámetros DBO<sub>5</sub> y SST, por la utilización del recurso hídrico como receptor de vertimientos puntuales directos e indirectos a los cuerpos de aguas o tramos de los mismos en la jurisdicción de la Corporación Autónoma Regional del Magdalena –CORPAMAG, para el periodo 2018- 2022; así como, establecer el número de vertimientos puntuales a eliminar anualmente durante el quinquenio, por los Prestadores de Servicios Públicos de Alcantarillado.

**PARÁGRAFO:** La definición de las metas de que trata el presente Acuerdo, se construyeron a partir de línea base de carga contaminante actual, el estado del recurso hídrico. las propuestas y observaciones remitidas por los usuarios sujetos al pago de la tasa retributiva durante el proceso de consulta de metas y el informe con la propuesta definitiva de meta de carga contaminante cuya base documental hace parte sustancial y soporte de este Acuerdo.

**ARTÍCULO SEGUNDO:** El factor regional a aplicar a los usuarios corresponderá al descrito en los artículos 2.2.9.7.4.3. y 2.2.9.7.4.4. del Decreto 1076 de 2015, considerando los resultados de la evaluación de cumplimiento de la meta anual de carga para el quinquenio 2018 - 2022. Los valores de las cargas contaminantes discriminados por cuencas y usuarios, serán evaluados anualmente a partir de finalizar el primer año y acorde al cronograma de cumplimiento descrito en el Artículo 4 del presente, de acuerdo a los resultados obtenidos se determinará el ajuste del factor regional.

**ARTÍCULO TERCERO:** La tasa retributiva se causará anualmente por la carga contaminante vertida y CORPAMAG la cobrará mediante factura.

**ARTÍCULO CUARTO:** Adóptese las siguientes como las metas globales y/o individuales de cargas de DBO<sub>5</sub> y SST para la totalidad de los cuerpos de agua o tramos afectados por descargas líquidas puntuales en jurisdicción de CORPAMAG para el quinquenio 2018 – 2022:



**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

NIT. 800.099.287-4

| CUENCA | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO/INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |         |              |             |             |             |             |             |             |             |             |             |      |             |      |             |      |             |      |             |      |             |  |  |
|--------|---------|---|--|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|--|--|
|        |         |   | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         |   | DBO5   | SST     | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5 | SST         | DBO5 | SST         | DBO5 | SST         | DBO5 | SST         | DBO5 | SST         |  |  |
|        |         |   | CC   | Kg/año  | DBO5         | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST  | META kg/año | DBO5 | META kg/año | SST  | META kg/año | DBO5 | META kg/año | SST  | META kg/año |  |  |
|        |         | DAMASCO (WILMER CORONEL TORO)                               | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | BELLAVISTA (YASMAN JOSE ALMANZA GUERRERO)                   | 112,320                                      | 224,640 | 114,566      | 229,133     | 116,858     | 233,715     | 119,165     | 238,390     | 114,284     | 223,568     | 108,410     | 216,820     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | EL DIVISO 2 (YEIFER DAVID NIZ BARBOSA)                      | 112,320                                      | 224,640 | 114,566      | 229,133     | 116,858     | 233,715     | 119,165     | 238,390     | 114,284     | 223,568     | 108,410     | 216,820     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | EL JARDIN (YINFREY GUILLIN GUILLIN)                         | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | ALGARROBO (YOLANDA PAEZ RIZO)                               | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | EL DIVISO (OLGA MERIS BARBOSA SUAREZ)                       | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        | TRAMO 1 | HONDONADITA (ORFELINA SANGUINO TORRES)                      | 112,320                                      | 224,640 | 114,566      | 229,133     | 116,858     | 233,715     | 119,165     | 238,390     | 114,284     | 223,568     | 108,410     | 216,820     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | BUENA VISTA (PABLO EMILIO GUEVARA BARRETO)                  | 112,320                                      | 224,640 | 114,566      | 229,133     | 116,858     | 233,715     | 119,165     | 238,390     | 114,284     | 223,568     | 108,410     | 216,820     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | EL BRILLANTE (ROSA ELIDA BARBOSA SUAREZ)                    | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | (ROY DIDI CONTRERAS BORRERO)                                | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |
|        |         | LA CIMA DEL CIELO (RUT MERY GUEVARA SANCHEZ)                | 224,640                                      | 449,280 | 229,133      | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |      |             |      |             |      |             |      |             |      |             |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA        | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |              |             |              |             |              |             |              |             |              |             |             |
|---------------|---------|--|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|
|               |         |  | LINEA BASE                                   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |
|               |         |  | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |
| Kg/año        | Kg/año  | CC   | Kg/año                                       | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |
| RIO FUNDACION | TRAMO 1 | LOS CORAZONES (SAMUEL GUERRERO)                              | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | ALTO PLANO (TUBAL ANTONIO DE LA HOZ GUTIERREZ)               | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | EL CONTENTO 2 (MARIA MAGDALENA OSPINA VALLEJO)               | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | (MARLENE GUTIERREZ LIZCANO)                                  | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | LAS AGUILAS ( MARTHA ELENA GUILLIN RUEDAS)                   | 112,320                                      | 224,640     | CC           | 114,566     | 229,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 223,568      | 108,410     | 216,820     |
|               |         | EL PRINCIPIO (NEFTALI TORO GUTIERREZ)                        | 112,320                                      | 224,640     | CC           | 114,566     | 229,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 223,568      | 108,410     | 216,820     |
|               |         | PUERTO PIEDRA ( NEIDA LUZ GUARIN MANRIQUE)                   | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | LOS CORAZONES (NEIL CADENA RANGEL)                           | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | BUENAVISTA (NEPTALI GUEVARA SANCHEZ)                         | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | EL SOTANO (NOREIDIS CORONEL QUINTERO)                        | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |
|               |         | LA MANO DE DIOS (NORELLA LOPEZ DE GONZALEZ)                  | 224,640                                      | 449,280     | CC           | 229,133     | 458,266      | 233,715     | 467,431      | 238,350     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794     |

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|--------|----------|--|--|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|---------|-------------|------|-------------|-----|-------------|--|
|        |          |  | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |         |             |      |             |     |             |  |
|        |          |  | DBO5   | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |         |             |      |             |     |             |  |
|        |          |  | CC   | Kg/año  | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST     | META kg/año | DBO5 | META kg/año | SST | META kg/año |  |
|        |          | BETEL (LUZ MERY CASTRO BECERRA)                              |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 369,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        |          | VILLA ENITH (LUZ ENITH GUEVARA SANCHEZ)                      |  | 112,320 | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 223,568     | 108,410      | 108,410     | 216,820 |             |      |             |     |             |  |
|        |          | EL RECREO (LUZ MARINA QUINTERO DURAN)                        |  | 112,320 | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 223,568     | 108,410      | 108,410     | 216,820 |             |      |             |     |             |  |
|        |          | LA HERENCIA (MALLERLYS VALLEJO DE LA HOZ)                    |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 389,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        |          | LA PRADERA (MARIA DEL CARMEN ALMANZA)                        |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 389,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        |          | LOS GUYABOS 2 (MARIA ANTONIA OSPINA VALLEJO)                 |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 389,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        | TRAMIO 1 | LOS MANDARINOS (MARIA IDENIS BARBOSA SUAREZ)                 |  | 112,320 | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 223,568     | 108,410      | 108,410     | 216,820 |             |      |             |     |             |  |
|        |          | LA NEVERA (KAREN DE LA CRUZ GUTIERREZ)                       |  | 112,320 | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 223,568     | 108,410      | 108,410     | 216,820 |             |      |             |     |             |  |
|        |          | VILLA SHARIETH (LAUDIT ARENGAS DONADO)                       |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 389,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        |          | EL TESORO (LEONARDO TORO GUTIERREZ)                          |  | 224,640 | 229,133      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 218,842      | 389,052     | 200,897      | 200,897     | 357,150 |             |      |             |     |             |  |
|        |          | DAMASCO EL RECREO (LUIS ENRIQUE CORONEL ALVAREZ)             |  | 539,136 | 1078,272     | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 525,220      | 933,725     | 482,152      | 482,152     | 857,160 |             |      |             |     |             |  |

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NIT. 800.099.287-4

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |             |             |             |             |             |             |             |             |     |             |      |             |     |             |
|--------|-------|--|--|----------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-------------|------|-------------|-----|-------------|
|        |       |  | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |     |             |      |             |     |             |
|        |       |  | DBO5   | SST      | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |     |             |      |             |     |             |
|        |       |  | CC   | Kg/año   | DBO5         | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST | META kg/año | DBO5 | META kg/año | SST | META kg/año |
|        |       | LA NUEVA ESPERANZA (LUIS FERNANDO CAMPO ROJAS)               | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | MONTE VERDE (LUIS MANUEL DE LA HOZ)                          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | PARATE BIEN (JULIETH PAOLA SUMALAVE SOZA)                    | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | SANTA CLARA (JOSE NAVARRO ANGARITA)                          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | LOS ALAMOS 2 (JOSE FABIAN SANTANA GARCIA)                    | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | BUENA VISTA (JOSE MARIA GONZALEZ ALMANZA)                    | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | MI FUTURO (JOSE WALTER TORO GUTIERREZ)                       | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | EL LIBANO (JUAN CARLOS TORO GUTIERREZ)                       | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 228,568     | 457,136     | 216,820     | 433,639     |     |             |      |             |     |             |
|        |       | LA ESPERANZA (JOSE DE LA ROSA NIZ)                           | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834    | 572,135     | 1144,271    | 525,220     | 933,725     | 482,152     | 857,160     |     |             |      |             |     |             |
|        |       | ALTAMIRA (JOSE ANGEL FRANCO RAMIREZ)                         | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |     |             |      |             |     |             |
|        |       | EL TESORO ESCONDIDO (JOSE ANTONIO ALMANZA GONZALEZ)          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794     |     |             |      |             |     |             |

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|--------|---------|---|--|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-------------|------|-------------|-----|-------------|--|
|        |         |   | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |         |             |      |             |     |             |  |
|        |         |   | DBO5   | SST     | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |         |             |      |             |     |             |  |
|        |         |   | CC   | Kg/año  | DBO5         | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST     | META kg/año | DBO5 | META kg/año | SST | META kg/año |  |
|        |         | LA ESPERANZA 2 (JOSE DAVID NIZ LEON)                          |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | EL SINAI (JENNY GUEVARA SANCHEZ)                              |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | EL TESORO ESCONDIDO 2 (JHON JAIRO ALMANZA GUERRERO)           |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | EL CAFETALITO (JORGE ISACC CONTRERAS BORRERO)                 |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | LA NUEVA ESPERANZA (ISAIA'S CORONEL TORO)                     |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        | TRAMO 1 | LOS MANGOS (JAIME JAMITH MARIN NAVARRO)                       |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | LA FORTALEZA (JAIME LEON MARIN GIRALDO)                       |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | NUEVO JARDIN (JAIRO ALEXANDER FANDINO MARTINEZ)               |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | LA ESMERALDA (HERMELINDA ALMANZA GONZALEZ)                    |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |
|        |         | MI FUTURO (IMELDA ESTHER DE LA HOZ CUEVAS)                    |  | 224,640 | 449,280      | 229,133     | 458,266     | 233,715     | 467,431     | 238,350     | 476,780     | 194,526     | 437,684     | 178,575     | 401,794 |             |      |             |     |             |  |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUENCA | TRAMO  | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |              |             |              |             |              |             |              |             |              |             |             |             |             |  |  |  |
|--------|--------|--|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|--|--|--|
|        |        |  | LINEA BASE                                   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |             |  |  |  |
|        |        |  | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST         |             |  |  |  |
| CC     | Kg/año | CC   | Kg/año                                       | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año |  |  |  |
|        |        | LOS PALOMITOS (ISAAC ELIAS CONTRERAS CANTILLO)               | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | LA ESMERALDA 2 (GERLEIN ALMANZA GONZALEZ)                    | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | EL MILAGRO (GILBERTO ALMANZA GONZALEZ)                       | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | LA CULEBRERA (GREGORIO NIETO TELLEZ)                         | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | LAS FLORES (GUILLERMO ALMANZA MUÑOZ)                         | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | ALGARROBO (EDWIN FERNANDO BELTRAN PAEZ)                      | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | BUENA VISTA 2 (ENITH GUEVARA SANCHEZ)                        | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | EL ESTAÑO (ENOTH GUEVARA SANCHEZ)                            | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | EL CARACOLI (EZEQUIEL CORONEL QUINTERO)                      | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | LOS MANGUITOS (AIDA NAVARRO ARENGAS)                         | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |
|        |        | LA ESPERANZA (CARLOS JULIO GUARIN FLOREZ)                    | 224,640                                      | 449,280     | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |             |             |  |  |  |

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| CUENCA | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | LINEA BASE  |             | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |              |             |              |             |              |             |              |             |             |     |
|--------|---------|--|-------------|-------------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-----|
|        |         |  | DBO5        | SST         | AÑO 1 - 2018                                 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |     |
|        |         |  |             |             | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST |
| CC     | CC      | Kg/año   | META kg/año | META kg/año | META kg/año                                  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |     |
|        |         | LA HONDONADA 2 (CIRO ALFONSO RINCON PEÑARANDA)               | 539,136     | 1073,272    | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 466,863      | 1050,441    | 428,580      | 964,305     |             |     |
|        |         | LA ESPERANZA (DAVID MARTINEZ QUIROZ)                         | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |     |
|        |         | EL DIVISO 1 (DIOSEMEL SUAREZ VERGEL)                         | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |     |
|        |         | CUATRO VIENTOS (EDUAR GUEVARA SANCHEZ)                       | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |     |
|        |         | EL SINAI (JOSE WALTER TORO P)                                | 988,416     | 1976,832    | 1008,184                                     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2097,830    | 855,915      | 1925,808    | 785,730      | 1767,892    |             |     |
|        | TRAMO 1 | LA ESPERANZA (JOSE WALTER TORO P)                            | 539,136     | 1073,272    | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 466,863      | 1050,441    | 428,580      | 964,305     |             |     |
|        |         | LOS ALAMOS (JOSE ANTONIO SANTANA)                            | 988,416     | 1976,832    | 1008,184                                     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2097,830    | 855,915      | 1925,808    | 785,730      | 1767,892    |             |     |
|        |         | LA ESPERANZA (ISAÍ NIZ LEÓN)                                 | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |     |
|        |         | LA UNION (JULIO C LUBEO)                                     | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |     |
|        |         | EL TESORO (ELISABETH GUEVARA)                                | 988,416     | 1976,832    | 1008,184                                     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2097,830    | 1005,700     | 2011,399    | 954,007      | 1908,013    |             |     |
|        |         | NUEVA ESPERANZA (ROBINSON CASTRO B)                          | 224,640     | 449,280     | 229,133                                      | 458,266     | 233,715      | 467,431     | 238,360      | 476,780     | 228,568      | 457,136     | 216,820      | 433,639     |             |     |
|        |         | MORIAT Y BETEL ( JORGE CASADIEGO TÉLLEZ)                     | 539,136     | 1073,272    | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |             |     |

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| CUENCA | TRAMO  | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTALES<br>(MUNICIPIO /<br>INDUSTRIA) | LINEA BASE     |                | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |                |                |                |                |                |                |                |                |                |      |     |
|--------|--------|---|----------------|----------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|-----|
|        |        |   | DBO5           | SST            | AÑO 1 - 2018                                 |                | AÑO 2 - 2019   |                | AÑO 3 - 2020   |                | AÑO 4 - 2021   |                | AÑO 5 - 2022   |                |      |     |
|        |        |   |                |                | DBO5   | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5 | SST |
| Kg/año | Kg/año | Kg/año  | META<br>kg/año | META<br>kg/año | META<br>kg/año                               | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año |      |     |
|        |        | TESORO<br>ESCONDIDO<br>(JOSE A<br>ALMANZA)                                  | 224,640        | 448,280        | 228,133                                      | 458,266        | 233,715        | 467,431        | 238,360        | 476,780        | 228,568        | 457,136        | 216,820        | 433,639        |      |     |
|        |        | LOS<br>GUAYABOS<br>(ALBEIRO<br>NARANJO<br>BEDOLLA)                          | 539,136        | 1078,272       | 549,919                                      | 1098,837       | 560,917        | 1121,834       | 572,135        | 1144,271       | 548,563        | 1097,127       | 520,367        | 1040,735       |      |     |
|        |        | LA LEJANIA<br>(GREGORIO<br>NIETO PEREZ)                                     | 224,640        | 448,280        | 228,133                                      | 458,266        | 233,715        | 467,431        | 238,360        | 476,780        | 228,568        | 457,136        | 216,820        | 433,639        |      |     |
|        |        | LOS DESEO<br>(LUIS ALFONSO<br>MOZO R)                                       | 224,640        | 448,280        | 228,133                                      | 458,266        | 233,715        | 467,431        | 238,360        | 476,780        | 228,568        | 457,136        | 216,820        | 433,639        |      |     |
|        |        | MONTE VERDE<br>(LUIS MANUEL<br>DE LA HOZ)                                   | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | LA ESPERANZA<br>(JOSE M<br>MARTINEZ)  | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | LA ESPERANZA<br>(ALBEIRO<br>RESTREPO)                                       | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | EL CONTENTO<br>(LUIS EBERTO<br>OSPINA)                                      | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | EL SILENCIO<br>(DAVID<br>SERRANO)   | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | EL RETIRO<br>(JOSE GUILLIN)   | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | VAYAN VIENDO<br>(LEDYS<br>ARENGAS)  | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | BUENA VISTA 2<br>(HECTOR<br>ALMANZA)  | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | LA ESPERANZA<br>DEL BOLSILLO<br>(LUZ<br>NORBERTA<br>MARQUEZ)                | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |
|        |        | EL SILENCIO<br>(NOLBERTO<br>RODRIGUEZ)                                      | 381,888        | 763,776        | 389,526                                      | 779,052        | 397,316        | 794,633        | 405,263        | 810,525        | 388,566        | 777,132        | 368,594        | 737,187        |      |     |

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| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |     |             |      |             |     |             |
|--------|-------|---|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-----|-------------|------|-------------|-----|-------------|
|        |       |   | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |     |             |      |             |     |             |
|        |       |   | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |     |             |      |             |     |             |
|        |       |   | CC   | CC       | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST | META kg/año | DBO5 | META kg/año | SST | META kg/año |
|        |       |   | Kg/año                                       | Kg/año   |              |             |              |             |              |             |              |             |              |             |     |             |      |             |     |             |
|        |       | SUERTE BELLA (FERNANDO GONZALEZ)                              | 381,888                                      | 763,776  | 389,528      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |     |             |      |             |     |             |
|        |       | EL ORIENTE (LUIS A ARDILA S)                                  | 381,888                                      | 763,776  | 389,528      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |     |             |      |             |     |             |
|        |       | LA NEVERA (WILMAR ECHEVERRIA)                                 | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |     |             |      |             |     |             |
|        |       | BUENA VISTA (PABLO GUEVARA)                                   | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |     |             |      |             |     |             |
|        |       | LOS ALPES (JOSE NAVARRO ANGARITA)                             | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 228,568      | 457,136     | 216,820      | 433,639     |     |             |      |             |     |             |
|        |       | EL PARAISO (ANDRES URIBE RANGEL)                              | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 228,568      | 457,136     | 216,820      | 433,639     |     |             |      |             |     |             |
|        |       | LOS ESTUDIOS (ALDINEVER TORREZ)                               | 988,416                                      | 1976,832 | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2087,830    | 1005,700     | 2011,399    | 954,007      | 1908,013    |     |             |      |             |     |             |
|        |       | BUENOS AIRES (JOSE MONTENEGRO)                                | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |     |             |      |             |     |             |
|        |       | MI FUTURO (AIDALI AFANADOR ARGOTA)                            | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 228,568      | 457,136     | 216,820      | 433,639     |     |             |      |             |     |             |
|        |       | LOS OLIVOS (LUZ MARIA QUINTERO)                               | 988,416                                      | 1976,832 | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2087,830    | 1005,700     | 2011,399    | 954,007      | 1908,013    |     |             |      |             |     |             |
|        |       | LA CARAGUALA (MERY NELSY SOLANO)                              | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |     |             |      |             |     |             |
|        |       | EL RETORNO (JOSE DE JESUS GUERRA)                             | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |     |             |      |             |     |             |
|        |       | LA ESPERANZA (SAUL SUAREZ DE LA HOZ)                          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,350      | 476,780     | 228,568      | 457,136     | 216,820      | 433,639     |     |             |      |             |     |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA | TRAMO | USUARIO<br>APORTANTE<br>DE CARGAS<br>(MUNICIPIO /<br>INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |                |              |                |              |                |              |                |              |                |     |                |      |                |     |                |  |
|--------|-------|---|--|----------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|-----|----------------|------|----------------|-----|----------------|--|
|        |       |   | LINEA BASE                                   |          | AÑO 1 - 2018 |                | AÑO 2 - 2019 |                | AÑO 3 - 2020 |                | AÑO 4 - 2021 |                | AÑO 5 - 2022 |                |     |                |      |                |     |                |  |
|        |       |   | DBO5   | SST      | DBO5         | SST            | DBO5         | SST            | DBO5         | SST            | DBO5         | SST            | DBO5         | SST            |     |                |      |                |     |                |  |
|        |       |   | CC   | Kg/año   | DBO5         | META<br>kg/año | SST          | META<br>kg/año | DBO5         | META<br>kg/año | SST          | META<br>kg/año | DBO5         | META<br>kg/año | SST | META<br>kg/año | DBO5 | META<br>kg/año | SST | META<br>kg/año |  |
|        |       | NO HAY COMO<br>DIOS<br>(VIRGINITH<br>QUINTERO Q)                |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | EL FIN DE MI<br>GUAYABO<br>(ANDRES<br>URIBE CLARO)              |  | 1078,272 | 549,919      | 1096,837       | 560,917      | 1121,834       | 572,135      | 1144,271       | 548,563      | 1097,127       | 520,367      | 1040,735       |     |                |      |                |     |                |  |
|        |       | MI REGALO<br>(WILLIAM<br>CONTRERAS)                             |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | LAS NUBES<br>(LUIS ALFONSO<br>BAYONA)                           |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | MIS<br>ESFUERZOS<br>(MANUEL<br>MARTINEZ<br>CARRERA)             |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | REPOSO<br>(ANIBAL<br>CORONEL)                                   |  | 1078,272 | 549,919      | 1096,837       | 560,917      | 1121,834       | 572,135      | 1144,271       | 548,563      | 1097,127       | 520,367      | 1040,735       |     |                |      |                |     |                |  |
|        |       | VILLA JUANITA<br>(ORFA LUZ<br>GUERRA F)                         |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | EL ORIENTE<br>(WILDER<br>CARVAJAL)                              |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | LA ESPERANZA<br>(ANTONIO<br>SUAREZ RITO)                        |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | CARAGUALA<br>(CELIAR<br>BARBOSA)                                |  | 449,280  | 226,133      | 458,266        | 233,715      | 467,431        | 238,360      | 476,780        | 228,568      | 457,136        | 216,820      | 433,639        |     |                |      |                |     |                |  |
|        |       | NO HAY COMO<br>DIOS (JESÚS<br>MARRA<br>ALVAREZ)                 |  | 1078,272 | 549,919      | 1096,837       | 560,917      | 1121,834       | 572,135      | 1144,271       | 548,563      | 1097,127       | 520,367      | 1040,735       |     |                |      |                |     |                |  |
|        |       | PORVENIR<br>(RAMON DAVID<br>QUINTERO)                           |  | 1078,272 | 549,919      | 1096,837       | 560,917      | 1121,834       | 572,135      | 1144,271       | 548,563      | 1097,127       | 520,367      | 1040,735       |     |                |      |                |     |                |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |
|--------|-------|---|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
|        |       |   | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |             |             |
|        |       |   | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |             |             |             |
|        |       |   | CC   | CC       | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         |
|        |       |   | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
|        |       | EL LABRADOR 2 (JAIRO ALBERTO BONILLA)                         | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 548,563      | 1097,127    | 520,367      | 1040,735    |             |             |             |             |
|        |       | LA GUACA (PEDRO JULIO CIRO HERNANDEZ)                         | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | LOS LAURELES (ALIX MARIA RODRIGUEZ QUIROGA)                   | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | EL PARAISO (ANDRES URIBE RANGEL)                              | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |             |             |             |             |
|        |       | VILLA LUCIA (ANGELICA LUCIA GUERRA FONSECA)                   | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | EL REPOSO (ANIBAL CORONEL ALVAREZ)                            | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |             |             |             |             |
|        |       | MARGARITA (DALIA GUERRA FONSECA)                              | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | EL RETORNO 2 (DARIO DIMAS GUERRA FONSECA)                     | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | EL REFUGIO (DELIANA YASMIN ARDILA LEYDA)                      | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | LANUEVA LUZ (DINAEL BARBOSA SOLANO)                           | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |
|        |       | EL PRINCIPIO (DIOFRAN ALVAREZ AMAYA)                          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |             |             |             |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |         |              |             |              |             |              |             |              |             |              |             |         |             |      |             |     |             |  |
|--------|-------|--|--|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|---------|-------------|------|-------------|-----|-------------|--|
|        |       |  | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |         |             |      |             |     |             |  |
|        |       |  | DBO5   | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |         |             |      |             |     |             |  |
|        |       |  | CC   | Kg/año  | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST     | META kg/año | DBO5 | META kg/año | SST | META kg/año |  |
|        |       | EL MANANTIAL (ELIECER URIBE RODRIGUEZ)                       |  | 224,640 | 449,280      | 229,133     | 458,266      | 233,715     | 467,431      | 214,551     | 429,102      | 186,016     | 372,031      | 161,275     | 322,551 |             |      |             |     |             |  |
|        |       | VILLA ELMA (ELMA ROSIRIS GUERRA FONSECA)                     |  | 224,640 | 449,280      | 229,133     | 458,266      | 233,715     | 467,431      | 214,551     | 429,102      | 186,016     | 372,031      | 161,275     | 322,551 |             |      |             |     |             |  |
|        |       | EL CARÑO (EVELIO JOSE CIRO HERNANDEZ)                        |  | 224,640 | 449,280      | 229,133     | 458,266      | 233,715     | 467,431      | 214,551     | 429,102      | 186,016     | 372,031      | 161,275     | 322,551 |             |      |             |     |             |  |
|        |       | ALTAMIRA (FRANKLIN CLARO FIGUEROA)                           |  | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 446,437     | 892,875      | 387,061     | 774,122 |             |      |             |     |             |  |
|        |       | EL CAMPANO (IBER URIBE RODRIGUEZ)                            |  | 224,640 | 449,280      | 229,133     | 458,266      | 233,715     | 467,431      | 214,551     | 429,102      | 186,016     | 372,031      | 161,275     | 322,551 |             |      |             |     |             |  |
|        |       | EL LABRADOR 2 (JAIRO ALBERTO BONILLA)                        |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | LA ESPERANZA (JAIRO ALEXANDER FANDIÑO)                       |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | LAS PENAS (JAIRO JESUS ALVAREZ QUINTERO)                     |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | EL DIVISO 2 (JESUS A ALVAREZ CONTRERAS)                      |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | EL DIVISO (JESUS MARIA ALVAREZ)                              |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | LOMA FRESCA (JORGE JULIO CIRO ZULUAGA)                       |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |
|        |       | LA PRIMAVERA (JOSE BERNARDO MIRA BRAVO)                      |  | 381,888 | 763,776      | 389,526     | 779,052      | 397,316     | 794,633      | 405,263     | 810,525      | 388,566     | 777,132      | 368,594     | 737,187 |             |      |             |     |             |  |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUENCA | TRAMO | LINEA BASE |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |         |              |         |      |        |      |        |      |        |  |
|--------|-------|------------|----------|--|----------|--------------|----------|--------------|----------|--------------|---------|--------------|---------|------|--------|------|--------|------|--------|--|
|        |       | DBO5       | SST      | AÑO 1 - 2018                                 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |      |        |      |        |      |        |  |
|        |       | CC         | Kg/año   | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST     | DBO5         | SST     | DBO5 | SST    | DBO5 | SST    | META | META   |  |
|        |       |            |          | META   | kg/año   | META         | kg/año   | META         | kg/año   | META         | kg/año  | META         | kg/año  | META | kg/año | META | kg/año | META | kg/año |  |
|        |       | 381,888    | 763,776  | 389,526                                      | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132 | 368,584      | 737,187 |      |        |      |        |      |        |  |
|        |       | 381,898    | 763,776  | 389,526                                      | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132 | 368,584      | 737,187 |      |        |      |        |      |        |  |
|        |       | 539,136    | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 446,437      | 892,875 | 387,061      | 774,122 |      |        |      |        |      |        |  |
|        |       | 224,640    | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031 | 161,275      | 322,551 |      |        |      |        |      |        |  |
|        |       | 224,640    | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031 | 161,275      | 322,551 |      |        |      |        |      |        |  |
|        |       | 224,640    | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031 | 161,275      | 322,551 |      |        |      |        |      |        |  |
|        |       | 539,136    | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 446,437      | 892,875 | 387,061      | 774,122 |      |        |      |        |      |        |  |
|        |       | 539,136    | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 446,437      | 892,875 | 387,061      | 774,122 |      |        |      |        |      |        |  |
|        |       | 224,640    | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031 | 161,275      | 322,551 |      |        |      |        |      |        |  |
|        |       | 224,640    | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031 | 161,275      | 322,551 |      |        |      |        |      |        |  |

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 Santa Marta D.T.C.H., Magdalena, Colombia  
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## CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

|        |       |            | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |              |             |              |             |              |             |              |             |              |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|-------|------------|--|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CUENCA | TRAMO | LINEA BASE |  | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | DBO5       | SST  | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | CC         | Kg/año                                       | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 539,136    | 1078,272                                     | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 539,136    | 1078,272                                     | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 539,136    | 1078,272                                     | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 539,136    | 1078,272                                     | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 539,136    | 1078,272                                     | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |       | 224,640    | 449,280                                      | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |  |  |  |  |  |  |  |  |  |  |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA | TRAMO | LINEA BASE   |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |          |         |          |      |        |      |        |
|--------|-------|--------------|----------|--|----------|--------------|----------|--------------|----------|--------------|----------|---------|----------|------|--------|------|--------|
|        |       | AÑO 1 - 2018 |          | AÑO 2 - 2019                                 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |         |          |      |        |      |        |
|        |       | DBO5         | SST      | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5    | SST      |      |        |      |        |
|        |       | CC           | Kg/año   | META   | kg/año   | META         | kg/año   | META         | kg/año   | META         | kg/año   | META    | kg/año   | META | kg/año | META | kg/año |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275 | 322,551  |      |        |      |        |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275 | 322,551  |      |        |      |        |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275 | 322,551  |      |        |      |        |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275 | 322,551  |      |        |      |        |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275 | 322,551  |      |        |      |        |
|        |       | 539,136      | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 446,437      | 892,875  | 387,061 | 774,122  |      |        |      |        |
|        |       | 539,136      | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 572,135      | 1144,271 | 525,220      | 933,725  | 482,152 | 857,160  |      |        |      |        |
|        |       | 539,136      | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 572,135      | 1144,271 | 525,220      | 933,725  | 482,152 | 857,160  |      |        |      |        |
|        |       | 224,640      | 449,280  | 229,133                                      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 218,842      | 389,052  | 200,897 | 357,150  |      |        |      |        |
|        |       | 539,136      | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834 | 572,135      | 1144,271 | 525,220      | 933,725  | 482,152 | 857,160  |      |        |      |        |
|        |       | 718,848      | 1437,696 | 739,225                                      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823 | 1387,846 |      |        |      |        |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA                                | TRAMO    | LINEA BASE                              |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |             |             |             |             |             |             |             |             |             |  |
|---------------------------------------|----------|---|----------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|                                       |          | DBO5                                    | SST      | AÑO 1 - 2018                                 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |             |  |
|                                       |          |   |          | DBO5   | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |             |  |
|                                       |          | Kg/año                                  | Kg/año   | META kg/año                                  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |  |
| RIO FUNDACION                         | TRAMO 1  | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | LA ESPERANZA (SOL MARINA VILLANUEVA)    |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | EVEN-EZER (YAMIDES BECERRA QUINTERO)    |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | EL NOGAL (LUIS A. GULLOSO)              |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | BRISA DEL CESAR (JOSE CUADRADO JIMENEZ) |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | VILLA TRANQUILA (GENARO FARELO TELLE)   |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | VILLA MARIA (ANA DUARTE FLOREZ)         |          |  |             |             |             |             |             |             |             |             |             |             |  |
|                                       |          | 718,848                                 | 1437,696 | 733,225                                      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |  |
|                                       |          | LA ESTRELLA (ESAUD BECERRA)             |          |  |             |             |             |             |             |             |             |             |             |             |  |
| 718,848                               | 1437,696 | 733,225                                 | 1466,450 | 747,889                                      | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |             |             |  |
| VILLA CARINA (NOHEMI BECERRA)         |          |   |          |  |             |             |             |             |             |             |             |             |             |             |  |
| 718,848                               | 1437,696 | 733,225                                 | 1466,450 | 747,889                                      | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |             |             |  |
| NO HAY COMO DIOS (DIOCADIRE QUINTERO) |          |   |          |  |             |             |             |             |             |             |             |             |             |             |  |
| 718,848                               | 1437,696 | 733,225                                 | 1466,450 | 747,889                                      | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |             |             |  |
| BUENOS AIRES (DIOCADIRE QUINTERO)     |          |   |          |  |             |             |             |             |             |             |             |             |             |             |  |
| 718,848                               | 1437,696 | 733,225                                 | 1466,450 | 747,889                                      | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |             |             |  |
| LA MANO DE DIOS (NUBER LOPEZ)         |          |   |          |  |             |             |             |             |             |             |             |             |             |             |  |
| 718,848                               | 1437,696 | 733,225                                 | 1466,450 | 747,889                                      | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |             |             |             |  |
| LUIS COTES                            |          |   |          |  |             |             |             |             |             |             |             |             |             |             |  |



# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

|               |         | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022      |         |              |             |              |             |              |             |              |             |              |             |          |
|---------------|---------|---|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|----------|
| CUENCA        | TRAMO   | LINEA BASE  |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |          |
|               |         | DBO5  | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |          |
|               |         | Kg/año  | Kg/año  | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |          |
| RIO FUNDACION | TRAMO 1 | VILLA CAROLINA (VICTOR QUINTERO)                  | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | EL DIVISO (JORGE E. FLOREZ)                       | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | LUCITANIA (MIRIAM CASTRO)                         | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | LAS HERMOSAS (ANA ZAPATA)                         | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | NO HAY COMO DIOS (MANUEL VEGA MATUTE)             | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | GERISIN (AURA EMIRA GARAY NAVARRO)                | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | NO HAY COMO DIOS (BELSAIN BARBOSA SOLANO)         | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | EL PARAISO 2 (BLANCA CECILIA CHARRY ZAPATA)       | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | LOS GUAYABOS (CRISTO HUMBERTO DE LA HOZ PARRA)    | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |
|               |         | VISTA HERMOSA UNO (DAMARIS EUNICE GONZALEZ YANCE) | 718,848 | 1437,696     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 731,418     | 1462,836     | 693,823     | 1387,646 |

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Santa Marta D.T.C.H., Magdalena, Colombia

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
 NIT. 800.099.287-4

**CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022**

| CUENCA        | TRAMO   | LINEA BASE                                     |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
|---------------|---------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|               |         | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |
|               |         | CC   | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |
| RIO FUNDACION | TRAMO 1 | EL JARDIN DIOMAR BELTRAN VERGEL)               | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | LA MANO DE DIOS 3 (EDUARDO ZAPATA BARBOSA)     | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL PROGRESO (ELIECER RAFAEL TAPIAS CARRANZA)   | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | LA ILUSION (FLOR CONSUELO ESPITIA RATIVA)      | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL GIRASOL (GIOVANI CARRILLO QUINTERO)         | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL NOGAL (JAMES DAVID ALVAREZ ESPITIA)         | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL DIVISO (JORGE ELIECER FLOREZ PEREZ)         | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL SOL 2 (JORGE ENRIQUE CARRILLO QUINTERO)     | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |
|               |         | EL NUEVO AMANECER (JOSE MARIA ALVAREZ MANZANO) | 1437,696 | 1437,696     | 733,225     | 1466,450     | 747,889     | 762,847      | 1525,694    | 731,418      | 1462,836    | 693,823      | 1387,646    |





**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
 NIT. 800.099.287-4

| CUENCA                             | TRAMO    | LINEA BASE                           |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|------------------------------------|----------|--------------------------------------|----------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
|                                    |          | DBO5                                 | SST      | AÑO 1 - 2018                                 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | CC                                   | Kg/año   | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST         |         |          |         |          |         |          |         |          |         |          |
|                                    |          |                                      |          | META kg/año                                  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |         |          |         |          |         |          |         |          |         |          |
| RIO FUNDACION                      | TRAMO 1  | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | ORQUIDEAS (SIRLEIDIS PALLARES GARAY) |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | MI FUTURO (WILLIAM ALVAREZ ESPITIA)  |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | LA NEVERA (WILMAR ECHAVARRIA GOMEZ)  |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | LA NEVERA (YEIMY GUILLIN GUILLIN)    |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | NO HAY COMO DIOS (BERNARDO ZAPATA)   |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | EL PALMAR (RAMON CELIAR LINAN)       |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | MI CAFETAL (JOSE ALVAREZ SAN JUAN)   |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | SUERTE BELLA (LUZ MARIA RAMIREZ)     |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | LA FORTUNA (BENJAMIN DURAN QUINTERO) |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | VIDA (TRANQUILA DEYANIRA GALVAN)     |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
|                                    |          | DOS AMIGOS (JACOB RODRIGUEZ)         |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
|                                    |          | 718,848                              | 1437,696 | 733,225                                      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848     | 1437,696    | 733,225 | 1466,450 | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |
| TIERRA NUEVA (LACIDES A. VARGAS B) |          |                                      |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |
| 718,848                            | 1437,696 | 733,225                              | 1466,450 | 747,889                                      | 1495,779    | 762,847      | 1525,664    | 731,418      | 1462,836    | 693,823      | 1387,646    | 718,848      | 1437,696    | 733,225     | 1466,450    | 747,889 | 1495,779 | 762,847 | 1525,664 | 731,418 | 1462,836 | 693,823 | 1387,646 |         |          |
| GUINEOS (ALBEIRO GALBAN)           |          |                                      |          |  |             |              |             |              |             |              |             |              |             |             |             |         |          |         |          |         |          |         |          |         |          |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |          |              |          |              |          |
|--------|-------|--|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|        |       |  | LINEA BASE                                   |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |
|        |       |  | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |
|        |       |  | Kg/año                                       | Kg/año   | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | EL SILENCIO (ELUBIN LOPEZ)                                   | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | BUENOA AIRES (JESID BARBOSA)                                 | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | BUENA VISTA (RAMON BARBOSA)                                  | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | LA FORTUNA (JOHN CASADIEGO)                                  | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | LA ESTRELLA (MELQUIS MONSALVA)                               | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | LA ESMERALDA (JUAN DE DIOS PAVA)                             | 1437,696                                     | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,846 |
|        |       | LA DESCONOCIDA (NEILA GUERRERO BALLONA)                      | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | EL CIELO (EUIDES ARIAS VILLAZON)                             | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | MI REFUGIO (GOZALO CASTRO TORO)                              | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | VILLA CHARIEITH (JOHN JAIRO NAVARRO CALDERON)                | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | LAS FLORES (MARCELINE AVILA)                                 | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | EL RESPALDO (SERAFIN NARVAES)                                | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |
|        |       | LOS GUAYABOS (SARAY TELLEY)                                  | 449,280                                      | 449,280  | 229,133      | 458,266  | 233,715      | 467,431  | 238,350      | 476,780  | 194,526      | 437,684  | 178,575      | 401,794  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

NIT. 800.099.287-4

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |            |              |             |  |             |              |             |   |             |              |             |  |             |      |             |                          |             |
|--------|-------|--|--|------------|--------------|-------------|--|-------------|--------------|-------------|---|-------------|--------------|-------------|--|-------------|------|-------------|--------------------------|-------------|
|        |       |  | LINEA BASE                                   |            | AÑO 1 - 2018 |             | AÑO 2 - 2019   |             | AÑO 3 - 2020 |             | AÑO 4 - 2021  |             | AÑO 5 - 2022 |             |  |             |      |             |                          |             |
|        |       |  | DBO5   | SST        | DBO5         | SST         | DBO5   | SST         | DBO5         | SST         | DBO5  | SST         | DBO5         | SST         |  |             |      |             |                          |             |
|        |       |  | Kg/año                                       | CC         | Kg/año       | META kg/año | SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td></td> | META kg/año | DBO5         | META kg/año | SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td> | META kg/año | DBO5         | META kg/año | SST <td>META kg/año</td> <td>DBO5</td> <td>META kg/año</td> <td>SST <td>META kg/año</td> </td> | META kg/año | DBO5 | META kg/año | SST <td>META kg/año</td> | META kg/año |
|        |       | LOS GIRASOLES (NALLIVE RAMIREZ)                              | 224,640                                      | 449,280    | 228,133      | 458,266     | 233,715  | 467,431     | 238,360      | 476,780     | 194,526   | 437,684     | 178,575      | 401,794     |  |             |      |             |                          |             |
|        |       | LA ESPIGA (DANIEL SORACÁ MADERA)                             | 224,640                                      | 449,280    | 228,133      | 458,266     | 233,715  | 467,431     | 238,360      | 476,780     | 194,526   | 437,684     | 178,575      | 401,794     |  |             |      |             |                          |             |
|        |       | MUNICIPIO DE FUNDACION VERTIMIENTO PTAP                      | 2239,000                                     | 431101,000 | 2283,780     | 219861,734  | 2329,456   | 153903,211  | 2376,045     | 111960,403  | 2423,566  | 111960,403  | 2472,037     | 111960,403  |  |             |      |             |                          |             |
|        |       | <b>TOTAL CARGA TRAMO 1 RIO FUNDACION</b>                     | 101956,696                                   | 630636,392 | 103995,830   | 423285,834  | 106075,747   | 361395,793  | 106828,304   | 320866,122  | 99024,472   | 307428,444  | 92713,671    | 294534,069  |  |             |      |             |                          |             |

| CUENCA | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA)                        | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |         |              |             |  |             |  |             |   |             |   |             |  |             |  |             |                          |             |
|--------|---------|---|--|---------|--------------|-------------|--|-------------|--|-------------|---|-------------|---|-------------|--|-------------|--|-------------|--------------------------|-------------|
|        |         |   | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2 - 2019   |             | AÑO 3 - 2020   |             | AÑO 4 - 2021  |             | AÑO 5 - 2022  |             |  |             |  |             |                          |             |
|        |         |   | DBO5   | SST     | DBO5         | SST         | DBO5   | SST         | DBO5   | SST         | DBO5  | SST         | DBO5  | SST         |  |             |  |             |                          |             |
|        |         |   | Kg/año                                       | CC      | Kg/año       | META kg/año | SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td></td></td></td></td> | META kg/año | DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td></td></td></td> | META kg/año | SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td></td></td> | META kg/año | DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td></td> | META kg/año | SST <td>META kg/año</td> <td>DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td></td> | META kg/año | DBO5 <td>META kg/año</td> <td>SST <td>META kg/año</td> </td> | META kg/año | SST <td>META kg/año</td> | META kg/año |
|        | TRAMO 2 | MUNICIPIO DE FUNDACION VERTIMIENTO LAS TABLITAS                                     | 95,417                                       | 55,564  | 97,325,46    | 97,324,44   | 57,808,98  | 95,971,39   | 58,965,16  | 95,971,39   | 60,144,47   | 95,971,39   | 61,347,36   |             |  |             |  |             |                          |             |
|        |         | <b>TOTAL TRAMO 2 RIO FUNDACION</b>  | 95,417                                       | 55,564  | 97,325,46    | 90,439,92   | 57,808,98  | 92,020,63   | 58,965,16  | 93,149,70   | 60,144,47   | 95,972,39   | 61,347,36   |             |  |             |  |             |                          |             |
|        | TRAMO 4 | MUNICIPIO DE FUNDACION VERTIMIENTO CAÑO EL RIITO FINCA BUENAVISTA (AGROBANACAR IBE) | 269,954                                      | 193,740 | 275,353,08   | 280,860,14  | 201,567,10   | 286,477,34  | 205,598,44   | 292,206,89  | 209,710,41  | 298,051,03  | 213,904,61  |             |  |             |  |             |                          |             |
|        |         | <b>TOTAL TRAMO 4 RIO FUNDACION</b>  | 269,974                                      | 193,768 | 275,373,28   | 280,881,04  | 201,596,72   | 286,498,98  | 205,629,09   | 292,229,28  | 209,742,14  | 298,074,20  | 213,937,45  |             |  |             |  |             |                          |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| TRAMO                             | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |              |           |             |           |             |           |             |           |             |           |        |        |        |        |        |  |
|-----------------------------------|---|--|---------|--------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|--------|--------|--------|--------|--------|--|
|                                   |   | LINEA BASE                                   |         | AÑO 1 - 2018 |           | AÑO 2- 2019 |           | AÑO 3- 2020 |           | AÑO 4- 2021 |           | AÑO 5- 2022 |           |        |        |        |        |        |  |
|                                   |   | DBO5   | SST     | DBO5         | SST       | DBO5        | SST       | DBO5        | SST       | DBO5        | SST       | DBO5        | SST       | DBO5   | SST    |        |        |        |  |
|                                   |   | CC   | CC      | CC           | CC        | CC          | CC        | CC          | CC        | CC          | CC        | CC          | CC        | CC     | CC     | CC     | CC     | CC     |  |
|                                   |   | Kg/año                                       | Kg/año  | Kg/año       | Kg/año    | Kg/año      | Kg/año    | Kg/año      | Kg/año    | Kg/año      | Kg/año    | Kg/año      | Kg/año    | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año |  |
| TRAMO 1                           | FINCA LA ALEGRIA  | 228  | 345,06  | 235,98       | 357,14    | 244,24      | 369,64    | 252,79      | 382,57    | 261,64      | 395,96    | 270,79      | 409,82    |        |        |        |        |        |  |
| TOTAL CARGA TRAMO 1 RIO ARACATACA |   | 228  | 345,06  | 235,98       | 357,14    | 244,24      | 369,64    | 252,79      | 382,57    | 261,64      | 395,96    | 270,79      | 409,82    |        |        |        |        |        |  |
| TRAMO 2                           | STAR MUNICIPIO DE ARACATACA                                   | 34 395                                       | 42.994  | 35.598,62    | 44.498,27 | 36.844,57   | 46.055,71 | 38.134,13   | 47.667,66 | 39.468,82   | 49.336,03 | 40.850,23   | 51.062,79 |        |        |        |        |        |  |
| TOTAL CARGA TRAMO 2 RIO ARACATACA |   | 34.395                                       | 42.994  | 35.598,62    | 44.498,27 | 36.844,57   | 46.055,71 | 38.134,13   | 47.667,66 | 39.468,82   | 49.336,03 | 40.850,23   | 51.062,79 |        |        |        |        |        |  |
| TRAMO 3                           | CILEDCO CENTRO ACOPIO ARACATACA                               | 310  | 102     | 320,85       | 105,47    | 352,08      | 109,16    | 343,70      | 112,98    | 355,73      | 116,93    | 368,18      | 121,03    |        |        |        |        |        |  |
| TOTAL CARGA TRAMO 3 RIO ARACATACA |   | 310  | 102     | 321          | 105       | 332         | 109       | 344         | 113       | 356         | 117       | 368         | 121       |        |        |        |        |        |  |
| TRAMO 4                           | MUNICIPIO DEL RETEN   | 5 340  | 199,097 | 5,447        | 139,368   | 5,556       | 52,507    | 5,667       | 52,507    | 5,780       | 52,507    | 5,896       | 52,507    |        |        |        |        |        |  |
| TOTAL CARGA TRAMO 4 RIO ARACATACA |   | 5.340  | 199.097 | 5.447        | 139.368   | 5.556       | 52.507    | 5.667       | 52.507    | 5.780       | 52.507    | 5.896       | 52.507    |        |        |        |        |        |  |

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**NIT. 800.099.287-4**

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |     |             |      |             |     |             |  |
|--------|-------|---|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-----|-------------|------|-------------|-----|-------------|--|
|        |       |   | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |     |             |      |             |     |             |  |
|        |       |   | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |     |             |      |             |     |             |  |
|        |       |   | CC   | Kg/año   | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST | META kg/año | DBO5 | META kg/año | SST | META kg/año |  |
|        |       | BUENOS AIRES (LUIS ATANAEL BACCA)                             | 988,416                                      | 1976,832 | 1008,184     | 2016,369    | 2056,696     | 1048,915    | 2097,830     | 855,915     | 1925,808     | 785,730     | 1767,892     |             |     |             |      |             |     |             |  |
|        |       | LOS LLANOS (RUBIEL TRILLO PAVA)                               | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 1121,834     | 572,135     | 1144,271     | 486,863     | 1050,441     | 428,580     | 964,305      |             |     |             |      |             |     |             |  |
|        |       | EL ORIENTE (CALIXTO HERRERA)                                  | 988,416                                      | 1976,832 | 1008,184     | 2016,369    | 2056,696     | 1048,915    | 2097,830     | 855,915     | 1925,808     | 785,730     | 1767,892     |             |     |             |      |             |     |             |  |
|        |       | LA ESPERANZA (JORGE LAMBRANO)                                 | 224,640                                      | 449,280  | 229,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |
|        |       | EL REGRESO (MAURICIO TORRES T.)                               | 224,640                                      | 449,280  | 228,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |
|        |       | LAS PIEDRAS (DEIBIS GARCIA J.)                                | 224,640                                      | 449,280  | 229,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |
|        |       | TIERRA SANTA (IRIS PATERNINA)                                 | 224,640                                      | 449,280  | 228,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |
|        |       | LA BRASILEIRA (EIBAR IVAN DORADO)                             | 112,320                                      | 224,640  | 114,566      | 229,133     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820      |             |     |             |      |             |     |             |  |
|        |       | LA MURALLA (ISAC TRILLOS PAVA)                                | 224,640                                      | 449,280  | 229,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |
|        |       | MIRAMAR (MARCOS QUINTERO)                                     | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 1121,834     | 572,135     | 1144,271     | 486,863     | 1050,441     | 428,580     | 964,305      |             |     |             |      |             |     |             |  |
|        |       | EL REPOSO (GUSTAVO RODRIGUEZ)                                 | 224,640                                      | 449,280  | 229,133      | 458,266     | 467,431      | 238,390     | 476,780      | 194,526     | 437,684      | 178,575     | 401,794      |             |     |             |      |             |     |             |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUIENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |         |              |         |             |             |             |             |             |         |             |             |             |             |             |     |             |  |
|---------|-------|--|----------|---------|--------------|---------|-------------|-------------|-------------|-------------|-------------|---------|-------------|-------------|-------------|-------------|-------------|-----|-------------|--|
|         |       | LINEA BASE                                   |          |         | AÑO 1 - 2018 |         |             | AÑO 2- 2019 |             |             | AÑO 3- 2020 |         |             | AÑO 4- 2021 |             |             | AÑO 5- 2022 |     |             |  |
|         |       | DBO5   | SST      | CC      | DBO5         | SST     | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST     | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST | META kg/año |  |
|         |       | CC   | Kg/año   | DBO5    | META kg/año  | SST     | META kg/año | DBO5        | META kg/año | SST         | META kg/año | DBO5    | META kg/año | SST         | META kg/año | DBO5        | META kg/año | SST | META kg/año |  |
|         |       | 224,640                                      | 449,280  | 229,133 | 458,266      | 233,715 | 467,431     | 214,551     | 429,102     | 196,016     | 372,031     | 161,275 | 322,551     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 514,922     | 1029,844    | 446,437     | 892,875     | 387,061 | 774,122     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 514,922     | 1029,844    | 446,437     | 892,875     | 387,061 | 774,122     |             |             |             |             |     |             |  |
|         |       | 381,888                                      | 763,776  | 389,526 | 779,052      | 397,316 | 794,633     | 405,263     | 810,525     | 390,694     | 744,062     | 303,577 | 683,049     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 572,135     | 1144,271    | 466,863     | 1050,441    | 429,560 | 964,305     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 572,135     | 1144,271    | 466,863     | 1050,441    | 429,560 | 964,305     |             |             |             |             |     |             |  |
|         |       | 224,640                                      | 449,280  | 229,133 | 458,266      | 233,715 | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575 | 401,794     |             |             |             |             |     |             |  |
|         |       | 224,640                                      | 449,280  | 229,133 | 458,266      | 233,715 | 467,431     | 238,390     | 476,780     | 194,526     | 437,684     | 178,575 | 401,794     |             |             |             |             |     |             |  |
|         |       | 381,888                                      | 763,776  | 389,526 | 779,052      | 397,316 | 794,633     | 405,263     | 810,525     | 398,566     | 777,132     | 368,594 | 737,187     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 572,135     | 1144,271    | 466,863     | 1050,441    | 428,580 | 964,305     |             |             |             |             |     |             |  |
|         |       | 539,136                                      | 1078,272 | 549,919 | 1099,837     | 560,917 | 1121,834    | 572,135     | 1144,271    | 466,863     | 1050,441    | 428,580 | 964,305     |             |             |             |             |     |             |  |
|         |       | 718,848                                      | 1437,696 | 733,225 | 1466,450     | 747,889 | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,588    | 571,440 | 1285,739    |             |             |             |             |     |             |  |
|         |       | 718,848                                      | 1437,696 | 733,225 | 1466,450     | 747,889 | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,588    | 571,440 | 1285,739    |             |             |             |             |     |             |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

|            |         | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022                  |            |          |              |             |             |             |             |             |             |             |             |             |
|------------|---------|---|------------|----------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| CUENCA     | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | LINEA BASE |          | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |
|            |         |   | DBO5       | SST      | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |
|            |         |   | Kg/año     | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
| TUCURING A | TRAMO 1 | LA TORMENTA (ALEXANDER BACCA)                                 | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |
|            |         | EL RETIRO (ALEXANDER OVALLOS NAVARRO)                         | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |
|            |         | EL ENCANTO 1 (ANA CECILIA SANCHEZ)                            | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |
|            |         | EL CIELO (ANA ROMELIA HERRERA ORTIZ)                          | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |
|            |         | EL NUEVO ORIENTE (ANDY JAMID HERRERA GUERRERO)                | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |
|            |         | EL NUEVO ORIENTE 2 (ARACELY MENDOZA FONTALVO)                 | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |
|            |         | LAS PIEDRAS 2 (BLEYDIS RIOS OVALLOS)                          | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |
|            |         | LA DIVISA (DAVID VILLAFANA TORRES)                            | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |
|            |         | EL MILAGRO 2 (DIANA MILENA OVALLOS NAVARRO)                   | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |
|            |         | EL MILAGRO 2 (DIANA PATRICIA RAMIREZ JIMENEZ)                 | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |
|            |         | LA NEGRA (ELIDA MARIA GUERRERO ACEVEDO)                       | 718,848    | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,583    | 571,440     | 1285,739    |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

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| CUENCA  | TRAJEO | CROMIOGRAMA DE CARGAS CONTAMINANTES: 2018-2022 |          |              |          |         |          |             |          |         |          |             |          |      |     |             |     |      |     |             |     |      |     |      |     |
|---|--------|--|----------|--------------|----------|---------|----------|-------------|----------|---------|----------|-------------|----------|------|-----|-------------|-----|------|-----|-------------|-----|------|-----|------|-----|
|   |        | LINEA BASE                                     |          | AÑO 1 - 2018 |          |         |          | AÑO 2- 2019 |          |         |          | AÑO 3- 2020 |          |      |     | AÑO 4- 2021 |     |      |     | AÑO 5- 2022 |     |      |     |      |     |
|   |        | DBO5   | SST      | DBO5         | SST      | DBO5    | SST      | DBO5        | SST      | DBO5    | SST      | DBO5        | SST      | DBO5 | SST | DBO5        | SST | DBO5 | SST | DBO5        | SST | DBO5 | SST |      |     |
| Kg/año  | Kg/año | CC   | CC       | CC           | CC       | CC      | CC       | CC          | CC       | CC      | CC       | CC          | CC       | CC   | CC  | CC          | CC  | CC   | CC  | CC          | CC  | CC   | CC  |      |     |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) |        | DBO5   | SST      | DBO5         | SST      | DBO5    | SST      | DBO5        | SST      | DBO5    | SST      | DBO5        | SST      | DBO5 | SST | DBO5        | SST | DBO5 | SST | DBO5        | SST | DBO5 | SST | DBO5 | SST |
| LA ESPERANZA (FLOR DE MARIA CASTRO LIZARAZO)                  |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| EL ORIENTAL (GABINO HERRERA HERRERA)                          |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| EL CARINO 2 (GLEIDIS PAOLA NAVARRO JIMENEZ)                   |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| EL MONTE DE SION 2 (HEYLIN PATRICIA JIMENEZ ROMERO)           |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| CHINCHINA (INES YOJANNA OVALLOS ROPERO)                       |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| LAS NIEVES (ISMAEL OVALLOS TRILLOS)                           |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| LOS DELIRIOS (JHON JAIRO NAVARRO JIMENEZ)                     |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| ALTAMIRA (JOSE RAUL TORRES VILLAFANE)                         |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| LAS NIEVES (JOSE RAUL TORRES VILLAFANE)                       |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |
| EL SINAI (LAURA CECILIA JIMENEZ HERNANDEZ)                    |        | 718,848  | 1437,696 | 733,225      | 1466,450 | 747,889 | 1495,779 | 762,847     | 1525,694 | 622,483 | 1400,583 | 571,440     | 1285,739 |      |     |             |     |      |     |             |     |      |     |      |     |

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Santa Marta D.T.C.H., Magdalena, Colombia

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**NIT. 800.099.287-4**

| CUENCA  | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |          |              |          |              |          |        |        |
|---|---------|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------|--------|
|   |         | LINEA BASE                                   |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |        |        |
|   |         | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |        |        |
|   |         | CC   | CC       | DBO5         | CC       | DBO5         | CC       | DBO5         | CC       | DBO5         | CC       | DBO5         | CC       | DBO5   | CC     |
|   |         | Kg/año                                       | Kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año | kg/año |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA)           |         |  |          |              |          |              |          |              |          |              |          |              |          |        |        |
| L A F E<br>(LIBARDO ROBAYO PULIDO)                                      |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| L A S F L O R E S<br>(LUIS ALBERTO NAVARRO GUERRERO)                    |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| E L R E T O R N O<br>(LUIS EDUARDO ORTIZ DE LA CRUZ)                    |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| E L C A R I Ñ O 2<br>(LUZ NELIS TORRES PERTUZ)                          |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| L O S A L P E S 1<br>(MARIA C. VILLAFANE M)                             |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| L A S B R I S A S<br>(OSCAR L. LEGUIA VARGAS)                           |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| E L M O N T E D E<br>S I O N (R O S A A.<br>R O M E R O<br>C A S T R O) | TRAMO 1 | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| E L E D E N<br>(SAITH ARTURO GARCIA JIMENEZ)                            |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| M I A L E G R I A<br>(SANDRA MILENA VACCA BACCA)                        |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| E L P A R A I S O<br>(STEPANHY MARIA NAVARRO J)                         |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |
| L A S B R I S A S<br>(TULIO OVALLO)                                     |         | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 731,418      | 1462,836 | 693,823      | 1387,646 |        |        |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA   | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|--|-------|--|----------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|
|  |       | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |  |  |  |  |
|  |       | DBO5   | SST      | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |  |  |  |  |
|  |       | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |  |  |  |  |
| USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| EL NUEVO PORVENIR 2 (YEISON DE JESUS JIMENEZ ROMERO)         |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| LA LUCHA (YILMER HERRERA GUERRERO)                           |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| LAS FLORES 2 (YULETH GARCIA JIMENEZ)                         |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| EL MILAGRO 3 (ZENAIDA ESTER ROPERO ANGARITA)                 |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| EL PORVENIR (ORLANDO BOSSA M)                                |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| JEMUKÉ (LUCELIYS IZQUIERDO)                                  |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| ALTOVER (ANTONIO CARRASCAL)                                  |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| BELLA PALMA (VICTOR SANGUINO)                                |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| SANTA TEREZA (LUIS E. NIÑO)                                  |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| LA ARGELIA (OTONNIEL MEJIA)                                  |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 731,418     | 1462,836    | 693,823     | 1387,646    |  |  |  |  |
| LAS NUEVES (LUIS AMILIO REALPE)                              |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,588    | 571,440     | 1285,739    |  |  |  |  |
| LA FÉ (PASTORA MARIÑO)                                       |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,588    | 571,440     | 1285,739    |  |  |  |  |
| LA VICTORIA (ORTENCIA LASCARRO)                              |       |  |          |              |             |             |             |             |             |             |             |             |             |  |  |  |  |
|  |       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889     | 1495,779    | 762,847     | 1525,694    | 622,483     | 1400,588    | 571,440     | 1285,739    |  |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |          |             |          |             |          |             |          |             |          |         |          |
|--------|-------|--|--|--------|--------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|---------|----------|
|        |       |  | LINEA BASE                                   |        | AÑO 1 - 2018 |          | AÑO 2- 2019 |          | AÑO 3- 2020 |          | AÑO 4- 2021 |          | AÑO 5- 2022 |          |         |          |
|        |       |  | DBO5   | SST    | DBO5         | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      |         |          |
|        |       |  | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | SAN ISIDRO (WILL ENRIQUE JULIO H.)                           | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LA ARGENTINA (LEWIS CASTRO)                                  | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LA BRASILEIRA (IVAN DORADO)                                  | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | JARDIN (ISLEN RODRIGUEZ SANTANA)                             | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LAS MINAS (JOSE LUINA)                                       | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LA FORTALEZA (LUIS E LORA VEGA)                              | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | EL PROGRESO (SAID JOSE GONZALEZ)                             | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | TIERRA NUEVA (PABLO ELI RODRIGUEZ)                           | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LOS ALMENDROS (DAGO ALMANZA)                                 | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | BUENOS AIRES (RICARDO AVENDAÑO C.)                           | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | JARDIN 2 (DEIBE ARENAS)                                      | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | JERUSALEM (ALBA MILENA GONZALEZ LIZCANO)                     | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 622,483     | 1400,588 | 571,440 | 1285,739 |
|        |       | LA DIVISA (ALBEIRO ROPERO PORTILLO)                          | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 731,418     | 1462,836 | 693,823 | 1387,646 |
|        |       | BERLIN (ANIBAL)  | CC   | Kg/año | 718,848      | 1437,696 | 733,225     | 1466,450 | 747,889     | 1495,779 | 762,847     | 1525,694 | 731,418     | 1462,836 | 693,823 | 1387,646 |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUIENCIA      | TRAMO      | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|---------------|------------|--|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|
|               |            | LINEA BASE                                   |             |             |             |             |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            | DBO5   | SST         | CC          | Kg/año      | DBO5        | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |  |  |  |  |  |
| CC            | CC         | Kg/año                                       | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |  |  |  |  |  |
| TUCURINC<br>A | TRAMO<br>1 |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |
|               |            |  |             |             |             |             |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |  |  |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA        | TRAMO      | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022                 |         |              |         |             |         |             |         |             |         |             |         |          |        |        |        |        |        |        |    |  |  |
|---------------|------------|--|---------|--------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|----------|--------|--------|--------|--------|--------|--------|----|--|--|
|               |            | LINEA BASE   |         | AÑO 1 - 2018 |         | AÑO 2- 2019 |         | AÑO 3- 2020 |         | AÑO 4- 2021 |         | AÑO 5- 2022 |         |          |        |        |        |        |        |        |    |  |  |
|               |            | DBO5   | SST     | DBO5         | SST     | DBO5        | SST     | DBO5        | SST     | DBO5        | SST     | DBO5        | SST     | DBO5     | SST    | DBO5   | SST    | DBO5   | SST    |        |    |  |  |
| Kg/año        | Kg/año     | kg/año   | kg/año  | kg/año       | kg/año  | kg/año      | kg/año  | kg/año      | kg/año  | kg/año      | kg/año  | kg/año      | kg/año  | kg/año   | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año |    |  |  |
| TUCURING<br>A | TRAMO<br>1 | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CC      | CC           | CC      | CC          | CC      | CC          | CC      | CC          | CC      | CC          | CC      | CC       | CC     | CC     | CC     | CC     | CC     | CC     | CC |  |  |
|               |            | CAMPO ALEGRE (GUSTAVO RODRIGUEZ MENDEZ)                      | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | LA PEDREGOSA (INULVIS ESTHER MEJIA ROJAS)                    | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | MI BELLA FLOR (IRENE TRILLOS PABA)                           | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | SIDIOS CUJERE (ISMAEL APONTE GONZALEZ)                       | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | EL JARDIN (ISSLEN RODRIGUEZ SANTANA)                         | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 731,418 | 1462,836    | 693,823 | 1387,646 |        |        |        |        |        |        |    |  |  |
|               |            | LA ESPERANZA (JESUS EMIRO BARBOSA ANGARITA)                  | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 731,418 | 1462,836    | 693,823 | 1387,646 |        |        |        |        |        |        |    |  |  |
|               |            | LA ESPERANZA (JORGE LAMBRANO NOVOA)                          | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 731,418 | 1462,836    | 693,823 | 1387,646 |        |        |        |        |        |        |    |  |  |
|               |            | EL PROGRESO (JORGE LUIS LORA DE LA CRUZ)                     | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | LOS ANGELES (JOSE CASTRO GRISMALDO)                          | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |
|               |            | BUENA VISTA 3 (JOSE ANTONIO DORADO MORA)                     | 718,848 | 1437,696     | 733,225 | 1466,450    | 747,889 | 1495,779    | 762,847 | 1525,694    | 622,483 | 1400,588    | 571,440 | 1285,739 |        |        |        |        |        |        |    |  |  |

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| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |             |
|--------|-------|--|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|
|        |       |  | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |
|        |       |  | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |
|        |       |  | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |
|        |       | BUENAVENTURA (JOSE DE JESUS SANTANA)                         | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|        |       | LOS ANGELES 3 (LILIANA GLORIELA BOSSA MARIÑO)                | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|        |       | EL SILENCIO (LUIS CARLOS SANCHEZ RIOS)                       | 718,848                                      | 1437,696 | 733,225      | 1466,450    | 747,889      | 1495,779    | 762,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|        |       | LA ARGENTINA (MARIA LUCIELA ACEVEDO DE CASTRO)               | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |
|        |       | EL PORVENIR (MARISELA DORADO MORA)                           | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |
|        |       | LA NUEVA ARGELIA (MAURICIO SANGUINIO SANCHEZ)                | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |
|        |       | LA ESPERANZA (MIRIAM SANTANA RODRIGUEZ)                      | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |
|        |       | SAN MARTIN (NELLIS MARCELA GORDILLO DURAN)                   | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 466,863      | 1050,441    | 428,580      | 964,305     |             |
|        |       | ARGENTINA (NUMAEL CASTRO ACEVEDO)                            | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 466,863      | 1050,441    | 428,580      | 964,305     |             |
|        |       | EL DESTINO (RICARDO BOSSA GUERRERO)                          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |             |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA       | TRAMO      | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022                 |         |              |         |              |         |              |         |              |         |              |         |         |        |        |        |        |        |        |        |  |
|---------------|------------|--|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
|               |            | LINEA BASE   |         | AÑO 1 - 2018 |         | AÑO 2 - 2019 |         | AÑO 3 - 2020 |         | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |         |        |        |        |        |        |        |        |  |
|               |            | DBO5   | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     |         |        |        |        |        |        |        |        |  |
| TUCURING<br>A | TRAMO<br>1 | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | DBO5    | CC           | DBO5    | CC           | DBO5    | CC           | DBO5    | CC           | DBO5    | CC           | DBO5    | CC      | DBO5   | CC     | DBO5   | CC     | DBO5   | CC     |        |  |
|               |            | Kg/año   | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año  | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año |  |
|               |            | BUENOS AIRES (SAMUEL BARBOSA BARBOSA)                        | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 572,135 | 1144,271     | 466,863 | 1050,441     | 428,580 | 964,305 |        |        |        |        |        |        |        |  |
|               |            | LA FE (WILIAN CALET JULIO SANTANA)                           | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 238,390 | 476,780      | 194,526 | 437,684      | 178,575 | 401,794 |        |        |        |        |        |        |        |  |
|               |            | EL PARAISO (YAMILIS ESTHER RIVERA GONZALEZ)                  | 112,320 | 224,640      | 114,566 | 229,133      | 116,858 | 233,715      | 119,195 | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |        |        |        |        |        |        |        |  |
|               |            | BELLA PALMA 2 (YONAIER SANGUINO SANCHEZ)                     | 112,320 | 224,640      | 114,566 | 229,133      | 116,858 | 233,715      | 119,195 | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |        |        |        |        |        |        |        |  |
|               |            | EL PARAISO 2 (YURGEN NAVARRO HERNANDEZ)                      | 112,320 | 224,640      | 114,566 | 229,133      | 116,858 | 233,715      | 119,195 | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |        |        |        |        |        |        |        |  |
|               |            | LA FLORIDA 2 (EDINSON DURAN ARAUJO)                          | 112,320 | 224,640      | 114,566 | 229,133      | 116,858 | 233,715      | 119,195 | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |        |        |        |        |        |        |        |  |
|               |            | LA FLORIDA (GERMAN DURAN ALVAREZ)                            | 112,320 | 224,640      | 114,566 | 229,133      | 116,858 | 233,715      | 119,195 | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |        |        |        |        |        |        |        |  |
|               |            | EL PORVENIR (HECTOR ELI DURAN RANGEL)                        | 381,888 | 763,776      | 389,526 | 779,052      | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187 |        |        |        |        |        |        |        |  |
|               |            | LAS DOS PALMAS (JAIR VELASQUEZ RANGEL)                       | 381,888 | 763,776      | 389,526 | 779,052      | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187 |        |        |        |        |        |        |        |  |
|               |            | EL MIRADOR (JAIR EMILIO DURAN RANGEL)                        | 381,888 | 763,776      | 389,526 | 779,052      | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187 |        |        |        |        |        |        |        |  |
|               |            | EL SANTANDER (JUAN DE DIOS CARDENAS)                         | 381,888 | 763,776      | 389,526 | 779,052      | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187 |        |        |        |        |        |        |        |  |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

|               |            | CROHOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |      |
|---------------|------------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|------|
| CUIENCA       | TRAIMO     | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |      |
|               |            | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |      |
|               |            | CC   | CC       | DBO5         | META kg/año | DBO5         | META kg/año | DBO5         | META kg/año | DBO5         | META kg/año | DBO5         | META kg/año | DBO5 |
|               |            | Kg/año                                       | Kg/año   |              |             |              |             |              |             |              |             |              |             |      |
|               |            | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |      |
|               |            | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |      |
|               |            | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |      |
|               |            | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |      |
|               |            | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 398,566      | 777,132     | 368,594      | 737,187     |      |
|               |            | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 572,135      | 1144,271    | 466,863      | 1050,441    | 428,580      | 964,305     |      |
| TUCURINC<br>A | TRAMO<br>1 | 224,640                                      | 449,280  | 228,133      | 458,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |      |
|               |            | 224,640                                      | 449,280  | 229,133      | 468,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |      |
|               |            | 224,640                                      | 449,280  | 229,133      | 468,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |      |
|               |            | 224,640                                      | 449,280  | 229,133      | 468,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |      |
|               |            | 224,640                                      | 449,280  | 229,133      | 468,266     | 233,715      | 467,431     | 238,390      | 476,780     | 194,526      | 437,684     | 178,575      | 401,794     |      |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUIENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2016-2022   |        |              |          |             |          |             |          |             |          |             |          |         |         |
|---------|-------|--|--------|--------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|---------|---------|
|         |       | LINEA BASE                                     |        | AÑO 1 - 2018 |          | AÑO 2- 2019 |          | AÑO 3- 2020 |          | AÑO 4- 2021 |          | AÑO 5- 2022 |          |         |         |
|         |       | DBO5   | SST    | DBO5         | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      |         |         |
|         |       | CC   | Kg/año | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | CC   | CC     |              |          |             |          |             |          |             |          |             |          |         |         |
|         |       | Kg/año   | Kg/año | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | EL FUTURO (HELI PICON ALVERNIA)                |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | LA FORTUNA (HIBER PICON ALVERNIA)              |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | EL ORIENTE (ISNARDO TELLEZ CARRASCAL)          |        | 539,136      | 1078,272 | 549,919     | 1099,837 | 560,917     | 1121,834 | 572,135     | 1144,271 | 466,863     | 1050,441 | 428,580 | 964,305 |
|         |       | LA FORTUNA (JAINETH ZULEMA QUINTERO SANJUAN)   |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | FORTUNA (JEINER SANCHEZ DURAN)                 |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | EL LIBANO 1 (JESUS HERIBERTO HERRERA URIBE)    |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | EL PORVENIR (JOSE DEL CARMEN DUARTE)           |        | 539,136      | 1078,272 | 549,919     | 1099,837 | 560,917     | 1121,834 | 572,135     | 1144,271 | 466,863     | 1050,441 | 428,580 | 964,305 |
|         |       | LA NUEVA ESPERANZA (LIBARDO QUINTERO OVALLES)  |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | EL LIBANO 5 (LILIAM CAROLINA HERRERA MARTINEZ) |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | LA ESMERALDITA (LUIS AURELIO REALPE)           |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |
|         |       | LA NUEVA ESPERANZA 2 (LUZ ELENA SANJUAN)       |        | 224,640      | 449,280  | 228,133     | 458,266  | 233,715     | 467,431  | 238,390     | 476,780  | 194,526     | 437,684  | 178,575 | 401,794 |

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NIT. 800.099.287-4

| CUIENCA |  | TRAIMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |          |              |             |             |              |             |             |              |             |             |              |             |             |              |             |             |
|---------|--|--|--|----------|----------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
|         |  |  | LINEA BASE                                   |          |          | AÑO 1 - 2018 |             |             | AÑO 2 - 2019 |             |             | AÑO 3 - 2020 |             |             | AÑO 4 - 2021 |             |             | AÑO 5 - 2022 |             |             |
|         |  |  | DBO5   | SST      | CC       | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año |
|         |  |  |  |          | SST      |              |             |             |              |             |             |              |             |             |              |             |             |              |             |             |
|         |  |  | DBO5   | CC       | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año |
|         |  |  |  |          |          |              |             |             |              |             |             |              |             |             |              |             |             |              |             |             |
|         |  | ROSAS)   |  |          |          |              |             |             |              |             |             |              |             |             |              |             |             |              |             |             |
|         |  | LA MISION 1<br>(LUZ MARINA PEREZ MUÑOS)                  | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LAS PIÑAS<br>(NEYL DUARTE LUNA)                          | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834     | 572,135     | 1144,271    | 466,863      | 1050,441    | 428,580     | 964,305      |             |             |              |             |             |
|         |  | EL PROGRESO<br>(RAMON DAVID PICON)                       | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LA NUEVA<br>ESPERANZA 2<br>(SANDRA QUINTERO<br>SAN JUAN) | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | VISTA BIELLA<br>(SOR CELINA DURAN RANGEL)                | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | EL PROGRESO<br>(WILMER DUARTE LUNA)                      | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834     | 572,135     | 1144,271    | 466,863      | 1050,441    | 428,580     | 964,305      |             |             |              |             |             |
|         |  | EL EDEN<br>(YOVANNI GUERRERO NAVARRO)                    | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LA<br>ESPERANZA 2<br>(YULIETH RODRIGUEZ<br>QUINTERO)     | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LAS PIÑAS 2<br>(ZENIT LORENA<br>PADILLA MOLINA)          | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LA<br>ESPERANZA<br>(ANGEL BALLESTAS)                     | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |
|         |  | LA REFORMA 2<br>(ARISOLINA DURAN)                        | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266     | 233,715     | 467,431      | 238,390     | 476,780     | 194,526      | 437,684     | 178,575     | 401,794      |             |             |              |             |             |

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 Santa Marta D.T.C.H., Magdalena, Colombia  
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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA   | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |                   |                  |                   |                  |                   |                  |                   |                  |                   |                  |                   |      |             |     |             |
|-----------|---------|---|--|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------|-------------|-----|-------------|
|           |         |   | LINEA BASE                                   |                   | AÑO 1 - 2018     |                   | AÑO 2 - 2019     |                   | AÑO 3 - 2020     |                   | AÑO 4 - 2021     |                   | AÑO 5 - 2022     |                   |      |             |     |             |
|           |         |   | DBO5   | SST               | DBO5             | SST               | DBO5             | SST               | DBO5             | SST               | DBO5             | SST               | DBO5             | SST               |      |             |     |             |
|           |         |   | CC   | CC                | DBO5             | META kg/año       | DBO5             | META kg/año       | DBO5             | META kg/año       | DBO5             | META kg/año       | DBO5             | META kg/año       | DBO5 | META kg/año | SST | META kg/año |
|           |         |   | Kg/año                                       | Kg/año            |                  |                   |                  |                   |                  |                   |                  |                   |                  |                   |      |             |     |             |
|           |         | CLARO)  |  |                   |                  |                   |                  |                   |                  |                   |                  |                   |                  |                   |      |             |     |             |
|           |         | LA ARGENTINA (ELDA ROLON SANCHEZ)                             | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 194,526          | 437,684           | 178,575          | 401,794           |      |             |     |             |
|           |         | JERUSALEM (EMILDA LAZARO)                                     | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | SAN MARTIN (ERASMO PENARANDA CELI)                            | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | BUENAVENTURA 2 (ESDRAS ENOC SANTANA PABA)                     | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | LA ESPERANZA (GABRIEL BARBOSA)                                | 539,136                                      | 1078,272          | 549,919          | 1099,837          | 560,917          | 1121,834          | 572,135          | 1144,271          | 548,563          | 1097,127          | 520,367          | 1040,735          |      |             |     |             |
| TUCURINGA | TRAMO 1 | (JUAN SANCHEZ RIOS)   | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | LA REFORMA (LUIS EMIRO ORTEGA QUINTERO)                       | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | MIRA MAR (MARCOS ORTEGA QUINTERO)                             | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | BUENA VENTURA 3 (OSEAAS LEVY SANTANA PABA)                    | 224,640                                      | 449,280           | 229,133          | 458,266           | 233,715          | 467,431           | 238,390          | 476,780           | 228,568          | 457,136           | 216,820          | 433,639           |      |             |     |             |
|           |         | <b>TOTAL CARGA TRAMO 1 RIO TUCURINGA</b>                      | <b>87609,600</b>                             | <b>175219,200</b> | <b>89361,792</b> | <b>178723,584</b> | <b>91149,028</b> | <b>182298,056</b> | <b>92762,225</b> | <b>185524,451</b> | <b>81349,334</b> | <b>173295,475</b> | <b>75737,356</b> | <b>161202,579</b> |      |             |     |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA    | TRAMO                             | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |           |              |           |              |           |              |           |              |           |
|-----------|-----------------------------------|---|--|--------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
|           |                                   |   | LINEA BASE                                   |        | AÑO 1 - 2018 |           | AÑO 2 - 2019 |           | AÑO 3 - 2020 |           | AÑO 4 - 2021 |           | AÑO 5 - 2022 |           |
|           |                                   |   | DBO5   | SST    | DBO5         | SST       | DBO5         | SST       | DEO5         | SST       | DBO5         | SST       | DBO5         | SST       |
|           | TRAMO 2                           | BATALLON BITER 2  | 1.274  | 731    | 1.299,48     | 745,56    | 1.325,47     | 760,47    | 1.351,98     | 775,68    | 1.379,02     | 791,19    | 1.406,60     | 807,02    |
|           | TOTAL CARGA TRAMO 2 RIO TUCURINCA |   | 1.274  | 731,94 | 1.299,48     | 746,58    | 1.325,47     | 761,51    | 1.351,98     | 776,74    | 1.379,02     | 792,28    | 1.406,60     | 808,12    |
| TUCURINCA | TRAMO 3                           | FINCA LA ESMERALDA II   | 53,49  | 156    | 54,56        | 159,31    | 55,65        | 162,50    | 56,76        | 165,75    | 57,90        | 169,07    | 59,06        | 172,45    |
|           | TOTAL CARGA TRAMO 3 RIO TUCURINCA |   | 53,49  | 156    | 54,56        | 159,31    | 55,65        | 162,50    | 56,76        | 165,75    | 57,90        | 169,07    | 59,06        | 172,45    |
|           | TRAMO 4                           | EXTRACTORA EL ROBLE   | 24,796                                       | 29.355 | 24,796       | 29.355    | 35.956       | 29.355    | 35.956       | 29.355    | 35.956       | 29.355    | 35.956       | 29.355    |
|           | TOTAL CARGA TRAMO 4 RIO TUCURINCA |   | 12.311                                       | 12.583 | 13.215,00    | 13.507,00 | 14.194,00    | 14.508,00 | 15.173,00    | 15.508,00 | 16.152,00    | 16.509,00 | 17.130,00    | 17.509,00 |
|           |                                   |   | 37.107                                       | 41.938 | 38.011       | 42.862    | 50.150       | 43.883    | 51.129       | 44.863    | 52.108       | 45.864    | 53.086       | 46.864    |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUIENCA | TRAMO | CRONOCRAMA DE CARGAS CONTAMINANTES 2015-2022 |          |          |              |          |             |              |          |             |              |          |             |              |     |             |              |     |             |
|---------|-------|--|----------|----------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|-----|-------------|--------------|-----|-------------|
|         |       | LINEA BASE                                   |          |          | AÑO 1 - 2018 |          |             | AÑO 2 - 2019 |          |             | AÑO 3 - 2020 |          |             | AÑO 4 - 2021 |     |             | AÑO 5 - 2022 |     |             |
|         |       | DBO5   | SST      | Kg/año   | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST | META kg/año | DBO5         | SST | META kg/año |
|         |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1089,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|         |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1089,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 446,437      | 892,875  | 387,061     | 774,122      |     |             |              |     |             |
|         |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1089,837 | 560,917     | 1121,834     | 572,135  | 1144,271    | 548,563      | 1097,127 | 520,367     | 1040,735     |     |             |              |     |             |
|         |       | 1347,840                                     | 2695,660 | 2695,660 | 1374,797     | 2749,594 | 1402,293    | 2804,585     | 1430,339 | 2860,677    | 1167,156     | 2626,102 | 1071,449    | 2410,761     |     |             |              |     |             |
|         |       | 1347,840                                     | 2695,660 | 2695,660 | 1374,797     | 2749,594 | 1402,293    | 2804,585     | 1430,339 | 2860,677    | 1167,156     | 2626,102 | 1071,449    | 2410,761     |     |             |              |     |             |
|         |       | 1347,840                                     | 2695,660 | 2695,660 | 1374,797     | 2749,594 | 1402,293    | 2804,585     | 1430,339 | 2860,677    | 1167,156     | 2626,102 | 1071,449    | 2410,761     |     |             |              |     |             |
|         |       | 988,416                                      | 1976,832 | 1976,832 | 1008,184     | 2016,369 | 1028,348    | 2056,696     | 944,023  | 1888,047    | 818,468      | 1636,937 | 709,612     | 1419,224     |     |             |              |     |             |
|         |       | 1986,976                                     | 3773,952 | 3773,952 | 1924,716     | 3849,431 | 1963,210    | 3926,420     | 1802,227 | 3604,453    | 1562,530     | 3125,061 | 1354,714    | 2709,428     |     |             |              |     |             |
|         |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1089,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|         |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1089,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|         |       | 1986,976                                     | 3773,952 | 3773,952 | 1924,716     | 3849,431 | 1963,210    | 3926,420     | 1802,227 | 3604,453    | 1654,444     | 3308,888 | 1535,655    | 3071,310     |     |             |              |     |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

NIT. 800.099.287-4

| CUENCA      | TRAM<br>C | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022                 |          |          |              |             |             |              |             |             |              |             |             |              |             |             |              |             |             |             |             |          |          |          |          |
|-------------|-----------|--|----------|----------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|----------|----------|----------|----------|
|             |           | LINEA BASE   |          |          | AÑO 1 - 2018 |             |             | AÑO 2 - 2019 |             |             | AÑO 3 - 2020 |             |             | AÑO 4 - 2021 |             |             | AÑO 5 - 2022 |             |             |             |             |          |          |          |          |
|             |           | DBO5   | SST      | CC       | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año | DBO5         | SST         | META kg/año |             |             |          |          |          |          |
|             |           | Kg/año   | Kg/año   | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año |             |             |          |          |          |          |
| RIO SEVILLA | TRAMO 1   | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | DBO5     | SST      | CC           | DBO5        | SST         | META kg/año  | DBO5        | SST         | META kg/año  | DBO5        | SST         | META kg/año  | DBO5        | SST         | META kg/año  | DBO5        | SST         | META kg/año |             |          |          |          |          |
|             |           | Kg/año   | Kg/año   | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año |          |          |          |          |
|             |           | TIERRA GRATA (INVERSIONES DANGNO S.A.S.)                     | 1886,976 | 3773,952 | 3773,952     | 1924,716    | 3849,431    | 1963,210     | 3926,420    | 1802,227    | 3904,453     | 1654,444    | 3308,888    | 1535,655     | 3071,310    | 1535,655    | 3308,888     | 1654,444    | 3904,453    | 1802,227    | 3904,453    | 1654,444 | 3308,888 | 1535,655 | 3071,310 |
|             |           | LA ESPERANZA (ISMAEL SANGUINO AREVALO)                       | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | MANZANARES (JAIRO BARBOSA)                                   | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | LA PRADERA (JAIRO OSORIO DURAN)                              | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | ISABEL MARIA 2 (JHON OSPINA HINCAPIÉ)                        | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | LA INDIA (JORGE TRILLOS CAMACHO)                             | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | NUEVO MUNDO (JOSE PATIÑO SOTO)                               | 539,136  | 1078,272 | 1078,272     | 549,919     | 1099,837    | 560,917      | 1121,834    | 514,922     | 1029,844     | 472,698     | 945,397     | 438,759      | 877,517     | 438,759     | 945,397      | 472,698     | 1029,844    | 514,922     | 1029,844    | 472,698  | 945,397  | 438,759  | 877,517  |
|             |           | LA MILAGROSA (JOSE M. CAMPO S.A.S.)                          | 1886,976 | 3773,952 | 3773,952     | 1924,716    | 3849,431    | 1963,210     | 3926,420    | 1802,227    | 3904,453     | 1654,444    | 3308,888    | 1535,655     | 3071,310    | 1535,655    | 3308,888     | 1654,444    | 3904,453    | 1802,227    | 3904,453    | 1654,444 | 3308,888 | 1535,655 | 3071,310 |
|             |           | EL PRADO (KENLIO RENGIFO BARLUZA)                            | 718,848  | 1437,696 | 1437,696     | 733,225     | 1466,450    | 747,889      | 1495,779    | 762,847     | 1525,694     | 622,483     | 1400,588    | 571,440      | 1285,739    | 571,440     | 1400,588     | 622,483     | 1525,694    | 762,847     | 1495,779    | 622,483  | 1400,588 | 571,440  | 1285,739 |
|             |           | EL PORVENIR (LEONARDO SANDOVAL HERNANDEZ)                    | 718,848  | 1437,696 | 1437,696     | 733,225     | 1466,450    | 747,889      | 1495,779    | 762,847     | 1525,694     | 622,483     | 1400,588    | 571,440      | 1285,739    | 571,440     | 1400,588     | 622,483     | 1525,694    | 762,847     | 1495,779    | 622,483  | 1400,588 | 571,440  | 1285,739 |
|             |           | LA PRIMAVERA (SAN ISIDRO LIBARDO CALVO DIAZ)                 | 718,848  | 1437,696 | 1437,696     | 733,225     | 1466,450    | 747,889      | 1495,779    | 762,847     | 1525,694     | 622,483     | 1400,588    | 571,440      | 1285,739    | 571,440     | 1400,588     | 622,483     | 1525,694    | 762,847     | 1495,779    | 622,483  | 1400,588 | 571,440  | 1285,739 |
|             |           | EL PORVENIR (LIGIA M. CABALLERO CALDERON)                    | 718,848  | 1437,696 | 1437,696     | 733,225     | 1466,450    | 747,889      | 1495,779    | 762,847     | 1525,694     | 622,483     | 1400,588    | 571,440      | 1285,739    | 571,440     | 1400,588     | 622,483     | 1525,694    | 762,847     | 1495,779    | 622,483  | 1400,588 | 571,440  | 1285,739 |
|             |           | NAZARET 2 (LUIS MARINO)                                      | 718,848  | 1437,696 | 1437,696     | 733,225     | 1466,450    | 747,889      | 1495,779    | 762,847     | 1525,694     | 622,483     | 1400,588    | 571,440      | 1285,739    | 571,440     | 1400,588     | 622,483     | 1525,694    | 762,847     | 1495,779    | 622,483  | 1400,588 | 571,440  | 1285,739 |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA |        | TRAMO  | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022      |             |             |             |             |             |              |             |             |             |              |             |             |             |              |             |             |             |              |             |             |             |              |     |  |  |
|---------|--------|--------|---|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-----|--|--|
|         |        |        | LINEA BASE  |             |             |             |             |             | AÑO 1 - 2018 |             |             |             | AÑO 2 - 2019 |             |             |             | AÑO 3 - 2020 |             |             |             | AÑO 4 - 2021 |             |             |             | AÑO 5 - 2022 |     |  |  |
|         |        |        | DBO5  | SST         | CC          | Kg/año      | DBO5        | SST         | DBO5         | SST         | DBO5        | SST         | DBO5         | SST         | DBO5        | SST         | DBO5         | SST         | DBO5        | SST         | DBO5         | SST         | DBO5        | SST         | DBO5         | SST |  |  |
| Kg/año  | Kg/año | Kg/año | Kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |              |     |  |  |
|         |        |        | QUINTERO)   |             |             |             |             |             |              |             |             |             |              |             |             |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | VILLA ELENA<br>(LUIS E.<br>ANGUCHO<br>MENDEZ)     | 718,848     | 1437,866    | 733,225     | 1466,450    | 747,889     | 1495,779     | 762,847     | 1525,694    | 622,483     | 1400,588     | 571,440     | 1285,739    |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | NAZARETH<br>(LUIS MARIÑO<br>RIATIGA)              | 718,848     | 1437,866    | 733,225     | 1466,450    | 747,889     | 1495,779     | 762,847     | 1525,694    | 622,483     | 1400,588     | 571,440     | 1285,739    |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | PALESTINA<br>(LUIS HIDALGO<br>CARMARCO)           | 988,416     | 1976,832    | 1008,184    | 2016,369    | 1028,348    | 2056,696     | 944,023     | 1888,047    | 866,614     | 1733,227     | 804,391     | 1608,781    |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | EL CARMEN<br>(MARIA<br>L. NITOLA DE<br>CORREDOR)  | 988,416     | 1976,832    | 1008,184    | 2016,369    | 1028,348    | 2056,696     | 944,023     | 1888,047    | 866,614     | 1733,227     | 804,391     | 1608,781    |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | LA GRANADA 2<br>(MARIBEL<br>RINCÓN<br>RODRIGUEZ)  | 539,136     | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834     | 514,922     | 1029,844    | 472,698     | 945,397      | 438,759     | 877,517     |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | SANTA MARTA<br>MERCEDES<br>CORREA<br>RIVERA       | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633      | 405,263     | 810,525     | 388,566     | 777,132      | 368,594     | 737,187     |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | PATIO BONITO<br>(NELLY<br>ARANGO DE<br>CIFUENTES) | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633      | 405,263     | 810,525     | 388,566     | 777,132      | 368,594     | 737,187     |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | LA MARITZA 2<br>(NELSON<br>ALZATE MARIN)          | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633      | 405,263     | 810,525     | 388,566     | 777,132      | 368,594     | 737,187     |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | LA ISABEL<br>(OSVALDO E.<br>CUAO CORREA)          | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633      | 405,263     | 810,525     | 388,566     | 777,132      | 368,594     | 737,187     |             |              |             |             |             |              |             |             |             |              |     |  |  |
|         |        |        | LA ESPERANZA<br>(PABLO<br>DELGADO)                | 539,136     | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834     | 514,922     | 1029,844    | 472,698     | 945,397      | 438,759     | 877,517     |             |              |             |             |             |              |             |             |             |              |     |  |  |



**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA   |         | TRAMO    |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |              |             |              |             |              |             |              |             |              |             |             |
|--|---------|----------|----------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|
|  |         |          |          | LINEA BASE                                   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |
| USUARIO APORTANTE DE CARGAS PUNTAUALES (MUNICIPIO / INDUSTRIA)     | DBO5    | SST      | CC       | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |
|  | Kg/año  |          |          | Kg/año                                       |             |              | Kg/año      |              |             | Kg/año       |             |              | Kg/año      |              |             |             |
|  | CC      | Kg/año   | SST      | META kg/año                                  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |
| EL PROGRESO<br>SAN ISIDRO<br>(PEDRO<br>PACHECO<br>ORTEGA)          | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| TERCER CIELO<br>(JHON FREDDY<br>OSPINA)                            | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| KAREPALO<br>(OTONIEL<br>GIERALDO)                                  | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| EL PORVENIR<br>SAN ISIDRO<br>(RAFAEL<br>ANTONIO VILLA<br>REAL)     | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| EL REFUGIO<br>SAN ISIDRO<br>(RODRIGO<br>RAFAEL<br>RAMIREZ M.)      | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| NO HAY COMO<br>DIOS SAN<br>ISIDRO (ROSA<br>E. MARROQUIN<br>USECHE) | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| LA PRIMAVERA<br>(URIBE<br>MANTILLA<br>S.A.S.)                      | 588,416 | 1976,832 | 2016,369 | 1008,184                                     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 966,614      | 1733,227    | 804,361      | 1608,781    |              |             |             |
| SAN ISIDRO<br>(WILFRIDO<br>BERMUDEZ<br>LASCANO)                    | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| SANTA HELENA<br>(YOLANDA<br>GELVEZ<br>AGUDELO)                     | 588,416 | 1976,832 | 2016,369 | 1008,184                                     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 966,614      | 1733,227    | 804,361      | 1608,781    |              |             |             |
| EL DESQUITE<br>(CRUZ MARINA<br>MOSQUERA<br>GOMEZ)                  | 539,136 | 1078,272 | 1099,837 | 549,919                                      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |

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NIT. 800.099.287-4

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2019-2022                 |          |              |             |              |             |              |             |              |             |              |             |             |             |
|--------|-------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
|        |       | LINEA BASE   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |
|        |       | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |             |
|        |       | CC   | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |
|        |       | CC   | 1976,832 | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |             |             |
|        |       | Kg/año   | 588,416  | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |             |             |
|        |       | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | LA MARIA (GABRIEL A. NAVARRO RIVERA)                         |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | EL CONTENIDO (COMERCIAL TRANSCAFEGA N LTDA)                  |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | LA FLORESTA (EDITH HORTUA RESTREPO)                          |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | SANTA CRUZ (EDUARDO RINCÓN MENDOZA)                          |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | LA RESERVA (EDUARDO RINCÓN MENDOZA)                          |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | SANTUARIO (EDUARDO RINCÓN MENDOZA)                           |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | LAS CAMELIAS (EDUARDO RINCÓN MENDOZA)                        |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | LA TRINIDAD (GRACIELA RODRIGUEZ BRAVO)                       |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | NUEVO HORIZONTE (HONDURAS) (HERACLIO VARELA DIAZ)            |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | EL JORDAN (ISSABEL M. PEÑA DE FUENTES)                       |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | VILLA LUZ (JAIRO)  |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | TRAMO 1  |          |              |             |              |             |              |             |              |             |              |             |             |             |
|        |       | RIO SEVILLA  |          |              |             |              |             |              |             |              |             |              |             |             |             |

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| CUIENCA   |          | TRAM<br>C |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |             |              |             |              |             |              |             |              |             |              |             |
|---|----------|-----------|----------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|   |          |           |          | LINEA BASE                                   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
| DBO5  | SST      | DBO5      | CC       | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |
| Kg/año  | Kg/año   | Kg/año    | Kg/año   | META kg/año                                  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) |          |           |          | LINEA BASE                                   |             |              |             |              |             |              |             |              |             |              |             |
| SERRANO MALDONADO)  |          |           |          |  |             |              |             |              |             |              |             |              |             |              |             |
| 539,136   | 1078,272 | 549,919   | 1099,837 | 560,917                                      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |              |             |
| 888,416   | 1976,832 | 1008,184  | 2016,369 | 1028,348                                     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |              |             |              |             |
| 888,416   | 1976,832 | 1008,184  | 2016,369 | 1028,348                                     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |              |             |              |             |
| 539,136   | 1078,272 | 549,919   | 1099,837 | 560,917                                      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |              |             |
| 539,136   | 1078,272 | 549,919   | 1099,837 | 560,917                                      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |              |             |
| 588,416   | 1976,832 | 1008,184  | 2016,369 | 1028,348                                     | 2056,696    | 944,023      | 1888,047    | 818,468      | 1636,937    | 709,612      | 1419,224    |              |             |              |             |
| 588,416   | 1976,832 | 1008,184  | 2016,369 | 1028,348                                     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |              |             |              |             |
| 588,416   | 1976,832 | 1008,184  | 2016,369 | 1028,348                                     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    |              |             |              |             |
| 539,136   | 1078,272 | 549,919   | 1099,837 | 560,917                                      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |              |             |

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| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |
|--------|-------|--|----------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
|        |       | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |             |             |             |             |             |          |
|        |       | DBO5   | SST      | DBO5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |             |             |             |          |
|        |       | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |          |
|        |       | CC   | CC       |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |
|        |       | 588,416                                      | 1976,832 | 1008,184     | 2016,369    | 1028,343    | 2056,696    | 944,023     | 1888,047    | 866,614     | 1733,227    | 804,361     | 1608,781    | 588,416     | 1976,832    | 1008,184    | 2016,369    | 1028,343    | 2056,696 |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 381,888                                      | 763,776  | 389,526      | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     | 381,888     | 763,776     | 389,526     | 779,052     | 397,316     | 794,633  |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     | 539,136     | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834 |
|        |       | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 214,551     | 429,102     | 186,016     | 372,031     | 161,275     | 322,551     | 224,640     | 449,280     | 229,133     | 458,266     | 233,715     | 467,431  |
|        |       | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715     | 467,431     | 214,551     | 429,102     | 186,016     | 372,031     | 161,275     | 322,551     | 224,640     | 449,280     | 229,133     | 458,266     | 233,715     | 467,431  |
|        |       | 1886,976                                     | 3773,952 | 1924,716     | 3849,431    | 1963,210    | 3926,420    | 1802,227    | 3604,453    | 1654,444    | 3308,888    | 1535,655    | 3071,310    | 1886,976    | 3773,952    | 1924,716    | 3849,431    | 1963,210    | 3926,420 |
|        |       | 588,416                                      | 1976,832 | 1008,184     | 2016,369    | 1028,343    | 2056,696    | 1048,915    | 2097,830    | 1005,700    | 2011,399    | 954,007     | 1908,013    | 588,416     | 1976,832    | 1008,184    | 2016,369    | 1028,343    | 2056,696 |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 446,437     | 892,875     | 387,061     | 774,122     | 539,136     | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834 |

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|-------------|---------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|---|--|
|             |         | LINEA BASE                                   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |   |  |
|             |         | DBO5   | SST         | CC           | DBO5        | SST          | DBO5        | SST          | DBO5        | SST          | DBO5        | SST          | DBO5        | SST                                       |  |
| Kg/año      | Kg/año  | Kg/año                                       | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año                               |  |
| RIO SEVILLA | TRAMO 1 | 988,416                                      | 1976,832    | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 1048,915     | 2087,830    | 1005,700     | 2011,399    | 954,007      | 1908,013    | LA ESPERANZA (WILLIAM FLOREZ)             |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | LOS SAUCES (ALBEIRO MORA RODRIGUEZ)       |  |
|             |         | 988,416                                      | 1976,832    | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    | MONTE RUBIO (ALEIDA GORDILLO DE CORTEZ)   |  |
|             |         | 988,416                                      | 1976,832    | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    | LA PALMIRA (JAVIER FLOREZ)                |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | LA PALMIRA (JAVIER BERRIO IBANEZ)         |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | NAPOLES (ELICELIA RIVERA)                 |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | EL DESCANSO (JHAN CARLOS GUERRERO DUARTE) |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | LA MANO DE DIOS (JOAQUIN CASTRO NOVOA)    |  |
|             |         | 988,416                                      | 1976,832    | 1008,184     | 2016,369    | 1028,348     | 2056,696    | 944,023      | 1888,047    | 866,614      | 1733,227    | 804,391      | 1608,781    | LA HILDA (JORGE AUGUSTO DURAN AREVALO)    |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | PLAYA RICA (JOSE DEL CARMEN GOMEZ MORENO) |  |
|             |         | 539,136                                      | 1078,272    | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 446,437      | 892,875     | 387,061      | 774,122     | LA VICTORIA (LEVIS M. CASTRO CASTRO)      |  |

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Versión 13\_17/11/2017

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

**NIT. 800.099.287-4**

| CUIENCA   | TRAMO   | CRONOCRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |         |              |         |         |              |         |         |              |         |         |              |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|---|---------|--|---------|---------|--------------|---------|---------|--------------|---------|---------|--------------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |         | AÑO 1 - 2018                                 |         |         | AÑO 2 - 2019 |         |         | AÑO 3 - 2020 |         |         | AÑO 4 - 2021 |         |         | AÑO 5 - 2022 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|   |         | DBO5   | SST     | CC      | DBO5         | SST     | CC      | DBO5         | SST     | CC      | DBO5         | SST     | CC      | DBO5         | SST     | CC      | DBO5    | SST     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | Kg/año  | Kg/año                                       | CC      | DBO5    | SST          | DBO5    | SST     | SST          | DBO5    | SST     | DBO5         | SST     | SST     | DBO5         | SST     | DBO5    | SST     | DBO5    | SST     | CC      | DBO5    | SST     | DBO5    | SST     | CC      | DBO5    | SST     | DBO5    | SST     |         |         |         |
| LA ALTAMIRA (M. EUGENIA MIEZA B)                              | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| EL RECUERDO (REINALDO BEDOLLA)                                | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| SANTA MÓNICA (RINALDO BUENO)                                  | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LOS LAURELES (ARMANDO CASTILLA)                               | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LOS GUAYABOS (FELIZ M. BELTRAN ZEA)                           | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| SAGRADO CORAZON DE JESUS (GRACIELA VALERO CARMONA)            | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LA ESPERANZA (LEONARDO SILVA FLOREZ)                          | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| EL HORIZONTE (RAFAEL SANCHEZ)                                 | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LAS CAASCADAS (DIONAR LEON)                                   | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LA ALTAMIRA (WILMAN D. FLOREZ C)                              | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| NUEVO AMANEGER (LUIS CARLOS BEDOLLA)                          | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| LA BENDICION #1 (JOSE DEL CARMEN PRADA T)                     | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |
| SAN MARCOS (LUIS EDUARDO)                                     | 112,320 | 224,640                                      | 224,640 | 114,566 | 229,133      | 116,858 | 233,715 | 238,390      | 238,390 | 238,390 | 114,284      | 228,568 | 228,568 | 108,410      | 216,820 | 216,820 | 216,820 | 216,820 | 216,820 | 224,640 | 224,640 | 114,566 | 229,133 | 116,858 | 233,715 | 238,390 | 238,390 | 114,284 | 228,568 | 228,568 | 108,410 | 216,820 |



**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**

NIT. 800.099.287-4

| CUIENCIA                    | TRAMO   | CROMOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |              |             |              |             |              |             |              |             |              |             |             |  |  |  |
|-----------------------------|---------|--|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|--|--|--|
|                             |         | LINEA BASE                                   |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |  |  |  |
|                             |         | DBO5   | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |  |  |  |
| Kg/año                      | Kg/año  | Kg/año                                       | Kg/año  | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |  |  |  |
| RIO SEVILLA                 | TRAMO 1 | SANDOVAL)                                    |         |              |             |              |             |              |             |              |             |              |             |             |  |  |  |
|                             |         | LA FORTUNA (JESUS M. VILLANUEVA)             | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | EL EDEN (DANILO RUA VASQUES)                 | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | EL GOYITO (FELIX TEHERAN)                    | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | BUENA DICHIA (HORTENSIA RINCONES)            | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | BELLO HORIZONTE (ILBA AMPARO CAMACHO CALA)   | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | LAS DELICIAS (RAÚL DÁVILA JIMENEZ)           | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | EL RECUERDO (ROSALBA RINCONES DE ROSADO)     | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | LA COSTEÑA (JAIRO PINEDA JARAMILLO)          | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | MI CAFETAL (JAIRO PINEDA PEREZ)              | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | MI CAFETALITO (JAIRO PINEDA PEREZ)           | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
|                             |         | VILLA NUEVA (JOHON BALGUERA CAMACHO)         | 112,320 | 224,640      | 114,566     | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820     |  |  |  |
| EL REFUGIO (JOSE A. GARCES) | 112,320 | 224,640                                      | 114,566 | 228,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820      |             |             |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUIENCA     | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                  |         |         |         |         |             |              |         |             |         |              |             |         |         |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|-------------|---------|---|---------|---------|---------|---------|-------------|--------------|---------|-------------|---------|--------------|-------------|---------|---------|--------------|-----|------|-------------|--------------|------|-------------|-----|--------------|-------------|-----|------|-------------|--|--|--|--|--|--|--|
|             |         | LINEA BASE  |         |         |         |         |             | AÑO 1 - 2018 |         |             |         | AÑO 2 - 2019 |             |         |         | AÑO 3 - 2020 |     |      |             | AÑO 4 - 2021 |      |             |     | AÑO 5 - 2022 |             |     |      |             |  |  |  |  |  |  |  |
|             |         | DBO5  | SST     | CC      | CC      | Kg/año  | META kg/año | SST          | DBO5    | META kg/año | SST     | DBO5         | META kg/año | SST     | DBO5    | META kg/año  | SST | DBO5 | META kg/año | SST          | DBO5 | META kg/año | SST | DBO5         | META kg/año | SST | DBO5 | META kg/año |  |  |  |  |  |  |  |
| RIO SEVILLA | TRAMO 1 | USUARIO APOR/TANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) |         |         |         |         |             |              |         |             |         |              |             |         |         |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | QUINTERO)   |         |         |         |         |             |              |         |             |         |              |             |         |         |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | LA ESPERANZA (JUAN BAUTISTA GUERRA)                           | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | PIEDRA LINDA (JULIO JACINTO GAMEZ BARRERA)                    | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | MONTE CARMELO #1 (AYDEE GUERRERO QUINTERO)                    | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | MONTE CARMELO (BLANCA AVILA)                                  | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | SAN MARTIN (ISRAEL GUTIERREZ MANTILLA)                        | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | EL PEREJE (JAIME BARRIOS FORERO)                              | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | EL TOPACIO (MARGARITA GORDILLO)                               | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | EL DIAMANTE (MARGOTH CORTES CALDERON)                         | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | LA UNION (SAUDIC M. PEREZ PEREZ)                              | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |
|             |         | LA VICTORIA (ROSARIO ESMINDA MENDOZA P)                       | 112,320 | 224,640 | 224,640 | 114,566 | 228,133     | 116,858      | 233,715 | 119,195     | 238,390 | 114,284      | 228,568     | 108,410 | 216,820 |              |     |      |             |              |      |             |     |              |             |     |      |             |  |  |  |  |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
 NIT. 800.099.287-4

| CUIENCA     | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                  |          |              |          |              |          |              |          |              |         |              |         |         |      |     |
|-------------|---------|---|----------|--------------|----------|--------------|----------|--------------|----------|--------------|---------|--------------|---------|---------|------|-----|
|             |         | LINEA BASE  |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |         |      |     |
|             |         | DBO5  | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST     | DBO5         | SST     |         |      |     |
| Kg/año      | Kg/año  | Kg/año  | Kg/año   | Kg/año       | Kg/año   | Kg/año       | Kg/año   | Kg/año       | Kg/año   | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año  |      |     |
| RIO SEVILLA | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | SST      | CC           | DBO5     | SST          | DBO5     | SST          | DBO5     | SST          | DBO5    | SST          | DBO5    | SST     | DBO5 | SST |
|             |         | EL CRECERO (HERNANDO CAICEDO)                                 | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | MONTE CARMELO #1 (AIDE GUERRERO)                              | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | LA PAZ (COOAGROSAC LTDA)                                      | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | RINCONCITO (GONZALO SUAREZ MALAVER)                           | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | LA NEVERA (GUSTAVO SANABRIA ARIAS)                            | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | CANON ROJO (JORGE DELIO CASTAÑO BEDOYA)                       | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | LA MURALLA (JOSE QUINTERO)                                    | 224,640  | 224,640      | 114,566  | 229,133      | 116,858  | 233,715      | 119,195  | 238,390      | 114,284 | 228,568      | 108,410 | 216,820 |      |     |
|             |         | LA PALMIRA (OTONIEL TORO)                                     | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 457,431      | 1029,844 | 446,437      | 892,875 | 387,061      | 774,122 |         |      |     |
|             |         | LA MURALLA (JOSE QUINTERO)                                    | 449,280  | 229,133      | 458,266  | 233,715      | 429,102  | 186,016      | 322,561  |              |         |              |         |         |      |     |
|             |         | TIERRA PROMETIDA (LUIS E. RONCANCIO)                          | 448,280  | 229,133      | 458,266  | 233,715      | 476,780  | 228,568      | 457,136  | 433,639      |         |              |         |         |      |     |
|             |         | PLATANAL 1 (JOLIN MARTINEZ)                                   | 3773,952 | 1924,716     | 3849,431 | 1963,210     | 3626,420 | 1562,530     | 3125,061 | 2709,428     |         |              |         |         |      |     |
|             |         | PLATANAL 2 (JHON PASTRANA)                                    | 3773,952 | 1924,716     | 3849,431 | 1963,210     | 3626,420 | 1562,530     | 3125,061 | 2709,428     |         |              |         |         |      |     |
|             |         | EL PARAISO (CAMPO ELIAS)                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 472,698      | 945,397  | 438,759      | 877,517 |              |         |         |      |     |

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| CUIENCA | TRAMO  | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022         |         |          |         |          |         |              |         |              |         |              |         |              |        |              |        |  |  |
|---------|--------|--|---------|----------|---------|----------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|--------|--------------|--------|--|--|
|         |        | LINEA BASE   |         |          |         |          |         | AÑO 1 - 2018 |         | AÑO 2 - 2019 |         | AÑO 3 - 2020 |         | AÑO 4 - 2021 |        | AÑO 5 - 2022 |        |  |  |
|         |        | DBO5   | SST     | DBO5     | SST     | DBO5     | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST    | DBO5         | SST    |  |  |
| Kg/año  | Kg/año | Kg/año   | Kg/año  | Kg/año   | Kg/año  | Kg/año   | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año | Kg/año       | Kg/año |  |  |
|         |        |  |         |          |         |          |         |              |         |              |         |              |         |              |        |              |        |  |  |
|         |        | GRJUELA)   |         |          |         |          |         |              |         |              |         |              |         |              |        |              |        |  |  |
|         |        | EL TRIUNFO<br>(MANUEL LORENZANA)                     | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517      |        |              |        |  |  |
|         |        | LA NATALIA<br>(GILBERTO GUZMAN ARBOLEDA)             | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517      |        |              |        |  |  |
|         |        | TIERRA SANTA<br>(JOSE MANUEL ESCOBAR R.)             | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 514,922 | 1029,844     | 446,437 | 892,875      | 387,061 | 774,122      |        |              |        |  |  |
|         |        | MI CAFETAL<br>(JUAN BAUTISTA ARIAS)                  | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 572,135 | 1144,271     | 548,563 | 1097,127     | 520,367 | 1040,735     |        |              |        |  |  |
|         |        | EL VAIVEN<br>(ADALBERTO JOSE CUADRADO RODRIGUEZ)     | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517      |        |              |        |  |  |
|         |        | LA PRIMAVERA<br>(ALFREDO ANTONIO GONZALEZ SANGUINO)  | 539,136 | 1078,272 | 549,919 | 1099,837 | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517      |        |              |        |  |  |
|         |        | LAS MURALLAS<br>(CARLOS ENRIQUE GIRALDO)             | 381,888 | 763,776  | 389,526 | 779,052  | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187      |        |              |        |  |  |
|         |        | LOTE DE LA MONTANA<br>(CRESENCIANO RODRIGUEZ VERGEL) | 381,888 | 763,776  | 389,526 | 779,052  | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187      |        |              |        |  |  |
|         |        | LA ADELA<br>(FANNY MARIA VARELA DE FIERRO)           | 381,888 | 763,776  | 389,526 | 779,052  | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187      |        |              |        |  |  |
|         |        | LOS NARANJOS<br>(FREY JESUS RODRIGUEZ VERGEL)        | 381,888 | 763,776  | 389,526 | 779,052  | 397,316 | 794,633      | 405,263 | 810,525      | 388,566 | 777,132      | 368,594 | 737,187      |        |              |        |  |  |

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| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022     |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|--------|-------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|        |       | LINEA BASE                                       |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |             |             |             |  |
|        |       | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5        | SST         |             |             |             |  |
|        |       | Kg/año   | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |  |
|        |       | CC   | CC       |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | SST  | SST      |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | 381,888  | 763,776  | 389,526      | 779,052     | 397,316      | 794,633     | 405,263      | 810,525     | 388,566      | 777,132     | 368,594      | 737,187     |             |             |             |             |             |  |
|        |       | EL POTRERILLO (HECTOR ENRIQUE MORRON ACUÑA)      |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | EL MIRADOR (JOSE LEOPOLDO MUÑOZ RIAÑO)           |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | LA ESPERANZA (LUIS ALONSO MONCADA LONDOÑO)       |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | LAS MERCEDES (MIRIAM CECILIA CABALLERO CALDERON) |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | EL PORVENIR (NANCY OSPINA BOHORQUEZ)             |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | SAGRADO CORAZON (NELSON RODRIGUEZ VERGEL)        |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | LA ESMERALDA (ALVARO PINZON CUIROZ)              |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | NUEVO AMANECER (CESAR G. ROMERO RAMOS)           |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | LA BRILLANTE (ALONSO PEREA MOSQUERA)             |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | DIOS ES AMOR (ANGELICA SERRANO DE RAMIREZ)       |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | 539,136  | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |             |             |             |             |             |  |
|        |       | TRAMO 1  |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |
|        |       | RIO SEVILLA                                      |          |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |  |





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| CUIENCA     | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                  |             |              |             |              |             |              |             |              |             |              |             |             |  |
|-------------|---------|---|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|--|
|             |         | LINEA BASE  |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |  |
|             |         | DBO5  | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |  |
| Kg/año      | Kg/año  | META kg/año   | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |  |
| RIO SEVILLA | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | SST         | CC           |             |              |             |              |             |              |             |              |             |             |  |
|             |         | EL BOSQUE (CRISTOBAL BEDELIS SALAS RONDON)                    | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL JARDIN (DAVID SERRANO MALDONADO)                           | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL RECUERDO (EDUARDO ENRIQUE ROSADO GAVIRIA)                  | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL LUCERITO (HERMES BOTELLO RANGEL)                           | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | BUENA VISTA (ISAIAS HERNANDEZ)                                | 588,416     | 1976,832     | 1008,184    | 2016,369     | 1028,348    | 2056,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781    |  |
|             |         | EL JARDIN (ISIDORO SERRANO RAMIREZ)                           | 588,416     | 1976,832     | 1008,184    | 2016,369     | 1028,348    | 2056,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781    |  |
|             |         | LA MARIA (JOSE SERRANO MALDONADO)                             | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL PORVENIR (JOSE JOAQUIN CASTAÑEDA LOZADA)                   | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL TESOROM (MANUEL JOSE CQUENDO MENDOZA)                      | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | LA PRADERA (MARIA OLIVA MENDOZA ROJAS)                        | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |  |
|             |         | EL ROBLE (MARTA CECILIA CQUENDO MENDOZA)                      | 588,416     | 1976,832     | 1008,184    | 2016,369     | 1028,348    | 2056,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781    |  |

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|-------------|---------|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|             |         | LINEA BASE   |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |             |             |             |             |             |             |             |             |             |  |
|             |         | DBO5   | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |             |             |             |             |             |             |             |             |             |             |  |
| Kg/año      | Kg/año  | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |  |
| RIO SEVILLA | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) |             |              |             |              |             |              |             |              |             |              |             |             |             |             |             |             |             |             |             |             |             |             |  |
|             |         | LA ESPERANZA (ROLANDO CAICEDO MUÑOZ)                         | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | NUEVA ZELANDA (ORION G. CAMPO PEREZ)                         | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | EL RESPALDO (ANGEL GABRIEL PABA CLAVIJO)                     | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | LOS PIRINEOS (ANICETO PULIDO PULIDO)                         | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | NAPULES (JAJME PEREZ BERNAL)                                 | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | LA MANO DE DIOS (JAVIER ALBERTO ARENAS GOMEZ)                | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | BUENOS AIRES (JOSE ANGEL REATIGA BUELVAS)                    | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | LA CRISTALINA (LUIS JAMER GARZON CORTES)                     | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | EL PROGRESO (LUIS ALF CANSO COCA VALDERRAMA)                 | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |
|             |         | MONTE REY (MARIA MEDINA RAMOS)                               | 888,416     | 1976,832     | 1006,184    | 2016,369     | 1028,348    | 2056,696     | 944,023     | 1868,047     | 866,614     | 1733,227     | 804,391     | 1608,781    |             |             |             |             |             |             |             |             |             |             |  |
|             |         | EL BERLIN (MARIANO REATIGA BUELVAS)                          | 539,136     | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 877,517     |             |             |             |             |             |             |             |             |             |             |  |



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|---------|-------|---|----------|--------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|-------------|-------------|--|
|         |       | LINEA BASE  |          | AÑO 1 - 2018 |          | AÑO 2- 2019 |          | AÑO 3- 2020 |          | AÑO 4- 2021 |          | AÑO 5- 2022 |          |             |             |             |  |
|         |       | DBO5  | SST      | DBO5         | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      |             |             |             |  |
|         |       | Kg/año  | Kg/año   | 549,919      | 1099,837 | 560,917     | 1121,834 | 514,922     | 1029,844 | 472,698     | 945,397  | 438,759     | 877,517  | META kg/año | META kg/año | META kg/año |  |
|         |       | CC  | CC       | 549,919      | 1099,837 | 560,917     | 1121,834 | 514,922     | 1029,844 | 472,698     | 945,397  | 438,759     | 877,517  | META kg/año | META kg/año | META kg/año |  |
|         |       | SST   | SST      | 549,919      | 1099,837 | 560,917     | 1121,834 | 514,922     | 1029,844 | 472,698     | 945,397  | 438,759     | 877,517  | META kg/año | META kg/año | META kg/año |  |
|         |       | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) |          |              |          |             |          |             |          |             |          |             |          |             |             |             |  |
|         |       | LOS PLANES (MARIO A REATIGA B.)                               | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | LA SAMARIA (MAURICIO PULIDO RODRIGUEZ)                        | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | SAN VICENTE 1 (PABLO ALBERTO NUBEZ QUINTERO)                  | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | CHELOVE (REYNALDO ALVAREZ TINJACA)                            | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | EL VERGEL (ROMULO BERNAL HERNANDEZ)                           | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | MONTE BELLO (SILFREDO REATIGA BUELVAS)                        | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | SANTO DOMINGO (MARTIN A GARCIA BRITO)                         | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | BUENOS AIRES DOS (ADELINA FLOREZ ROMERO)                      | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | EL RECUERDO (ARGEMIRO ARIAS CORTES)                           | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | BUENOS AIRES (CARLOS ALBERTO NUNEZ MEDINA)                    | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | LA FLORIDA (DAVID MOYA CALA)                                  | 1078,272 | 1078,272     | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272 | 1078,272    | 1078,272    | 1078,272    |  |
|         |       | TRAMO 1   |          |              |          |             |          |             |          |             |          |             |          |             |             |             |  |
|         |       | RIO SEVILLA   |          |              |          |             |          |             |          |             |          |             |          |             |             |             |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                 |                             |          |          |              |          |          |          |             |          |          |          |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|--------|-------|--|-----------------------------|----------|----------|--------------|----------|----------|----------|-------------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        |       | LINEA BASE   |                             |          |          | AÑO 1 - 2018 |          |          |          | AÑO 2- 2019 |          |          |          | AÑO 3- 2020 |             |             |             | AÑO 4- 2021 |             |             |             | AÑO 5- 2022 |             |             |             |             |             |
|        |       | DBO5   | SST                         | CC       | Kg/año   | DBO5         | SST      | DBO5     | SST      | DBO5        | SST      | DBO5     | SST      | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |             |             |             |             |
|        | 1     | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO/ INDUSTRIA) | SANTA ROSA (EMILIA HERRERA) | 1078,272 | 549,919  | 1099,837     | 560,917  | 1121,834 | 572,135  | 1144,271    | 548,563  | 1097,127 | 520,367  | 1040,735    | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |             |             |
|        |       | EL SILENCIO  | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |             |             |
|        |       | LA ESPERANZA (HILARIO ENRIQUE FLOREZ CALA)                   | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |             |
|        |       | ALTO CIELO (JORGE FRANCISCO LAGUNA MARTINEZ)                 | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |             |
|        |       | LAS MARGARITAS (JUAN POLO CABARCAS)                          | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |             |
|        |       | EL PARAISO (LUIS ALBERTO CALVO HERRERA)                      | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |
|        |       | LA IDEA (LUIS ALFONSO TORRES CORREDOR)                       | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |
|        |       | LA CASCADA (LUIS ALFREDO NUÑEZ COCA)                         | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |
|        |       | SANTO DOMINGO (MARTIN ALEJANDRO GARCIA BRITO)                | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
|        |       | LA GLORIA (TERESA CASTRO NIÑO)                               | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
|        |       | LA SIERRITA (YAMITH GARCIA SANCHEZ)                          | 1078,272                    | 549,919  | 1099,837 | 560,917      | 1121,834 | 572,135  | 1144,271 | 548,563     | 1097,127 | 520,367  | 1040,735 | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUIENCA | TRAM<br>C | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTUALES<br>(MUNICIPIO /<br>INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |          |              |          |              |          |              |          |              |          |
|---------|-----------|--|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|         |           |  | LINEA BASE                                   |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |
|         |           |  | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |
|         |           |  | CC   | Kg/año   | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           |  | CC   | Kg/año   | 1078,272     | 1078,272 | 1078,272     | 1078,272 | 1078,272     | 1078,272 | 1078,272     | 1078,272 | 1078,272     | 1078,272 |
|         |           | TOPACIO<br>(SIERVO ARIAS)  | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | EL TESORO<br>(ALIRIO PEREZ<br>PABON)   | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | BELLA VISTA<br>(ANGEL<br>LEONARDO<br>GALINDO<br>AVILA)                       | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | BELLO<br>HORIZONTE<br>(ARGENEDA<br>SANTANA DE<br>PEDROZA)                    | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | MIRAMAR<br>(CARLOS<br>YAMITH LEON<br>URIBE)                                  | 224,640                                      | 449,280  | 229,133      | 458,266  | 233,715      | 457,431  | 214,551      | 429,102  | 196,958      | 393,915  | 182,816      | 365,632  |
|         |           | BELLO<br>HORIZONTE<br>(CENED<br>PEDROZA<br>SANTANA)                          | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | TRAMO<br>1   |  |          |              |          |              |          |              |          |              |          |              |          |
|         |           | TRAMO<br>1   |  |          |              |          |              |          |              |          |              |          |              |          |
|         |           | RIO<br>SEVILLA   |  |          |              |          |              |          |              |          |              |          |              |          |
|         |           | BETANIA<br>(EUCLIDES<br>FLOREZ<br>CORMANE)                                   | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | LA HONDURA<br>(GEOVANE<br>SERRANO<br>GOMEZ)                                  | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | MASALIA 2<br>(GUSTAVO<br>MALDONADO<br>ROJAS)                                 | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|         |           | EL CARMEN<br>(GUSTAVO<br>LITRIA<br>MENDOZA)                                  | 988,416                                      | 1976,832 | 1008,184     | 2016,369 | 1028,348     | 2056,696 | 944,023      | 1888,047 | 818,468      | 1638,937 | 709,612      | 1419,224 |
|         |           | LA LADERA<br>(JOSE ADONAI<br>ANGULO)   | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |

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NIT. 800.099.287-4

| CUIENCA | TRAMO  | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |          |              |          |              |          |              |          |              |          |        |  |
|---------|--------|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------|--|
|         |        | LINEA BASE                                   |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |        |  |
|         |        | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |        |  |
| Kg/año  | Kg/año | kg/año                                       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año       | kg/año   | kg/año |  |
|         |        |  |          |              |          |              |          |              |          |              |          |              |          |        |  |
|         |        | 224,640                                      | 449,280  | 229,133      | 458,266  | 233,715      | 457,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275      | 322,551  |        |  |
|         |        | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |        |  |
|         |        | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |        |  |
|         |        | 988,416                                      | 1976,832 | 1008,184     | 2016,369 | 1028,348     | 2056,666 | 944,023      | 1888,047 | 866,614      | 1733,227 | 804,391      | 1608,781 |        |  |
|         |        | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |        |  |
|         |        | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |        |  |
|         |        | 224,640                                      | 449,280  | 229,133      | 458,266  | 233,715      | 457,431  | 214,551      | 429,102  | 186,016      | 372,031  | 161,275      | 322,551  |        |  |
|         |        | 539,136                                      | 1078,272 | 549,919      | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |        |  |
|         |        | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 622,483      | 1400,588 | 571,440      | 1286,739 |        |  |
|         |        | 718,848                                      | 1437,696 | 733,225      | 1466,450 | 747,889      | 1495,779 | 762,847      | 1525,694 | 622,483      | 1400,588 | 571,440      | 1286,739 |        |  |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA        | TRAMO      | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                                 |         |             |              |             |              |             |              |             |              |             |              |             |          |             |  |
|----------------|------------|--|---------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|----------|-------------|--|
|                |            | LINEA BASE   |         |             | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |          |             |  |
|                |            | DBO5   | SST     | CC          | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |          |             |  |
|                |            | Kg/año   |         | META kg/año |              | META kg/año |              | META kg/año |              | META kg/año |              | META kg/año |              | META kg/año |          | META kg/año |  |
| RIO<br>SEVILLA | TRAMO<br>1 | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTUALES<br>(MUNICIPIO /<br>INDUSTRIA) |         |             |              |             |              |             |              |             |              |             |              |             |          |             |  |
|                |            | LAS BRISAS<br>(JOSE<br>EDGARDO<br>ROMERO<br>MARTINEZ)                        | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | LA PLATANERA<br>(JOSE IGNACIO<br>PENA RAMIREZ)                               | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | LA CUMBRE<br>(JOSE OMAR<br>PATINO<br>CASTAÑO)                                | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | LA GRANADA<br>(JOSE UBER<br>MARTINEZ<br>SANCHEZ)                             | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | EL REFLEJO<br>(JUAN<br>BAUTISTA<br>CARLOS<br>PEREZ)                          | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | LA RESERVA<br>(LUIS<br>IZQUIERDO<br>VALDERRAMA)                              | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | LA ESPERANZA<br>(LUZ ESTELLA<br>ENCINALES<br>ROSSO)                          | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | PARAISO<br>(MANUEL<br>CARRILLO<br>HERNANDEZ)                                 | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | SANTA MARTA<br>(MANUEL JOSE<br>PAREJA NOVA)                                  | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | EL JAPON<br>(MARCOS<br>ARIAS<br>SANCHEZ)                                     | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |
|                |            | NAPULES<br>(MARIA ELSA<br>CASAS DE<br>TOVAR)                                 | 718,848 | 1437,656    | 1437,656     | 733,225     | 1466,450     | 747,889     | 1495,779     | 762,847     | 1525,694     | 622,483     | 1400,588     | 571,440     | 1285,739 |             |  |





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| USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) |          | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |             |              |             |              |             |              |             |              |             |             |
|--|----------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|
|  |          | LÍNEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |
| CUIENCA  | TRAMO    | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |
|  |          | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |
| RIO SEVILLA  | TRAMO 1  | 718,848                                      | 1437,666 | 733,225      | 1466,450    | 747,889      | 1495,779    | 752,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|  |          | RINCON NEGRO (MARIA GILMA RAMIREZ DE PEÑA)   |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 718,848                                      | 1437,666 | 733,225      | 1466,450    | 747,889      | 1495,779    | 752,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|  |          | LA PRIMAVERA (NORALBA ROLON SANCHEZ)         |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 718,848                                      | 1437,666 | 733,225      | 1466,450    | 747,889      | 1495,779    | 752,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|  |          | CARRIZALES (OMAR CRUJUELA PULIDO)            |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 718,848                                      | 1437,666 | 733,225      | 1466,450    | 747,889      | 1495,779    | 752,847      | 1525,694    | 622,483      | 1400,588    | 571,440      | 1285,739    |             |
|  |          | ARGELIA (PABLO SANCHEZ BOTELLO)              |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |             |
|  |          | GLORIA 1 (ROSA SARMIENTO ALVAREZ)            |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |             |
|  |          | LA ESPERANZA (URIEL ALFREDO PEÑA PEREZ)      |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 224,640                                      | 449,280  | 229,133      | 458,266     | 233,715      | 467,431     | 214,551      | 429,102     | 186,016      | 372,031     | 161,275      | 322,551     |             |
|  |          | LAS GARDENIAS (VICTOR RESTREPO FORERO)       |          |              |             |              |             |              |             |              |             |              |             |             |
|  |          | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |             |
| LOS NARANJOS (YECID ZAMORA PRADO)                            |          |  |          |              |             |              |             |              |             |              |             |              |             |             |
| 539,136  | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| LA ORQUIDEA (YONEDY DIAZ PUENTES)                            |          |  |          |              |             |              |             |              |             |              |             |              |             |             |
| 539,136  | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| ALTO CIELO (RIGOBERTO MEZA ESCOBAR)                          |          |  |          |              |             |              |             |              |             |              |             |              |             |             |
| 539,136  | 1078,272 | 549,919                                      | 1099,837 | 560,917      | 1121,834    | 514,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |              |             |             |
| LA DIVISA (LUIS ANTONIO AYALA B.)                            |          |  |          |              |             |              |             |              |             |              |             |              |             |             |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA | TRAM<br>C | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |                |                |                |                |                |                |                |                |                |                |
|---------|-----------|--|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|         |           | LINEA BASE                                   |          | AÑO 1 - 2018   |                | AÑO 2 - 2019   |                | AÑO 3 - 2020   |                | AÑO 4 - 2021   |                | AÑO 5 - 2022   |                |
|         |           | DBO5   | SST      | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            |
|         |           | Kg/año                                       | Kg/año   | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año |
|         |           | CC   | CC       |                |                |                |                |                |                |                |                |                |                |
|         |           | SST  | SST      |                |                |                |                |                |                |                |                |                |                |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|         |           | 588,416                                      | 1976,832 | 1008,184       | 2016,369       | 1028,348       | 2056,696       | 944,023        | 1888,047       | 866,614        | 1733,227       | 804,391        | 1608,781       |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 819,659        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 819,659        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 819,659        |
|         |           | 1347,840                                     | 2695,660 | 1374,797       | 2749,594       | 1402,293       | 2804,585       | 1430,339       | 2860,677       | 1167,156       | 2626,102       | 1071,449       | 2410,761       |
|         |           | 1347,840                                     | 2695,660 | 1374,797       | 2749,594       | 1402,293       | 2804,585       | 1430,339       | 2860,677       | 1167,156       | 2626,102       | 1071,449       | 2410,761       |
|         |           | 224,640                                      | 449,280  | 229,133        | 458,266        | 233,715        | 467,431        | 214,551        | 429,102        | 196,958        | 393,915        | 182,816        | 365,632        |
|         |           | 224,640                                      | 449,280  | 229,133        | 458,266        | 233,715        | 467,431        | 214,551        | 429,102        | 196,958        | 393,915        | 182,816        | 365,632        |
|         |           | 539,136                                      | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

**CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022**

| CUENCA  | TRAMO   | LINEA BASE   |         |              |         |              |         |              |         |              |         |         |     |        |    |        |    |  |  |
|---|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|---------|-----|--------|----|--------|----|--|--|
|   |         | AÑO 1 - 2018 |         | AÑO 2 - 2019 |         | AÑO 3 - 2020 |         | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |         |     |        |    |        |    |  |  |
|   |         | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5    | SST |        |    |        |    |  |  |
| Kg/año  | CC      | Kg/año       | CC      | Kg/año       | CC      | Kg/año       | CC      | Kg/año       | CC      | Kg/año       | CC      | Kg/año  | CC  | Kg/año | CC | Kg/año | CC |  |  |
| USUARIO APORTANTE DE CARGAS DE PUNTALES (MUNICIPIO / INDUSTRIA) |         |              |         |              |         |              |         |              |         |              |         |         |     |        |    |        |    |  |  |
| EL PARAISO (ABELINO RODRIGUEZ)                                  | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| BUENA VISTA (JESUS NUÑEZ)                                       | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| VISTA BELLA (YESID RIOS)  | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| SAMARIA (CARLOS SABALATA)                                       | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| LA RIVIERA (ANGEL ALFONSO RIOS)                                 | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 214,551 | 429,102      | 196,956 | 393,915      | 182,816 | 365,632 |     |        |    |        |    |  |  |
| LA VINA (CARLOS IVAN ARIAS SANCHEZ)                             | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 214,551 | 429,102      | 196,956 | 393,915      | 182,816 | 365,632 |     |        |    |        |    |  |  |
| EL REFUGIO (DAYANIS GUEVARA HERNANDEZ)                          | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| LOS MANDARINOS (JOSE ALJEYRE ALVAREZ ANGARITA)                  | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| LUCITANIA (JOSE GREGORIO MARTINEZ CORRALES)                     | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| EL JARDIN (JUAN JOSE NIEVES NOLAVITA)                           | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |
| GALICIA (LUIS RUEDA HERNANDEZ)                                  | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 214,551 | 429,102      | 196,956 | 393,915      | 182,816 | 365,632 |     |        |    |        |    |  |  |
| EL NARANJAL (PEDRO MANUEL SERRANO AGUIRRE)                      | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 877,517 |     |        |    |        |    |  |  |

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NIT. 800.099.287-4

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022    |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|--------|-------|---|----------|--------------|----------|----------|----------|--------------|----------|---------|----------|--------------|----------|---------|----------|--------------|----------|----------|----------|--------------|----------|---------|----------|---------|----------|
|        |       | LINEA BASE                                      |          | AÑO 1 - 2018 |          |          |          | AÑO 2 - 2019 |          |         |          | AÑO 3 - 2020 |          |         |          | AÑO 4 - 2021 |          |          |          | AÑO 5 - 2022 |          |         |          |         |          |
|        |       | DBO5  | SST      | DBO5         | SST      | DBO5     | SST      | DBO5         | SST      | DBO5    | SST      | DBO5         | SST      | DBO5    | SST      | DBO5         | SST      | DBO5     | SST      | DBO5         | SST      | DBO5    | SST      |         |          |
|        |       | CC  | CC       | CC           | CC       | CC       | CC       | CC           | CC       | CC      | CC       | CC           | CC       | CC      | CC       | CC           | CC       | CC       | CC       | CC           | CC       | CC      | CC       | CC      |          |
|        |       | Kg/año  | Kg/año   | Kg/año       | Kg/año   | Kg/año   | Kg/año   | Kg/año       | Kg/año   | Kg/año  | Kg/año   | Kg/año       | Kg/año   | Kg/año  | Kg/año   | Kg/año       | Kg/año   | Kg/año   | Kg/año   | Kg/año       | Kg/año   | Kg/año  | Kg/año   | Kg/año  |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | MI FORTUNA 2<br>(RUBIEL ALFONSO HERRERA)        |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | BUENOS AIRES<br>(SAUL ALFONSO)                  |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | SINAÍ (JOSE MIGUEL CARDONA)                     |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | PAUSEDONIA<br>(RAFAEL AGUDELO FRANCO)           |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 588,416   | 1976,832 | 1008,184     | 2016,369 | 1028,349 | 2056,696 | 944,023      | 1888,047 | 866,614 | 1733,227 | 804,361      | 1608,781 | 588,416 | 1976,832 | 1008,184     | 2016,369 | 1028,349 | 2056,696 | 944,023      | 1888,047 | 866,614 | 1733,227 | 804,361 | 1608,781 |
|        |       | LA FLORIDA<br>(ALGEN ALBERTO PEREZ)             |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | LA SAMARIA<br>(CARLOS ALBERTO ZALABATA FUENTES) |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | EL REPOSO<br>(CLAUDIA CECILIA ARIAS PEREZ)      |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | BUENA VISTA<br>(CONSTANTINO ACERO BERNAL)       |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | SAN FRANCISCO<br>(DANIEL EDUARDO CLIVERA PEREZ) |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |
|        |       | EL PORVENIR<br>(DYSLAI CASAS CRUZ)              |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 588,416   | 1976,832 | 1008,184     | 2016,369 | 1028,349 | 2056,696 | 944,023      | 1888,047 | 866,614 | 1733,227 | 804,361      | 1608,781 | 588,416 | 1976,832 | 1008,184     | 2016,369 | 1028,349 | 2056,696 | 944,023      | 1888,047 | 866,614 | 1733,227 | 804,361 | 1608,781 |
|        |       | EL TROBOL<br>(EDUARDO FLOREZ PAREDES)           |          |              |          |          |          |              |          |         |          |              |          |         |          |              |          |          |          |              |          |         |          |         |          |
|        |       | 539,136   | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759      | 877,517  | 539,136 | 1078,272 | 549,919      | 1099,837 | 560,917  | 1121,834 | 514,922      | 1029,844 | 472,698 | 945,397  | 438,759 | 877,517  |

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*Ph*

Commutador: (57) (5) 4211395 – 4213089 – 4211680 – 4211344 Fax: ext. 117  
Santa Marta D.T.C.H., Magdalena, Colombia  
[www.corpamag.gov.co](http://www.corpamag.gov.co) – email: [contactenos@corpamag.gov.co](mailto:contactenos@corpamag.gov.co)



**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA      | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022  |         |          |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |         |
|-------------|---------|---|---------|----------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
|             |         | LINEA BASE                                    |         |          | AÑO 1 - 2018 |             |             | AÑO 2- 2019 |             |             | AÑO 3- 2020 |             |             | AÑO 4- 2021 |             |             | AÑO 5- 2022 |             |             |             |             |             |             |         |
|             |         | DBO5  | SST     | CC       | DBO5         | SST         | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST         | META kg/año |             |         |
|             |         | Kg/año  | Kg/año  | Kg/año   | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |         |
| RIO SEVILLA | TRAMO 1 | SUAN (ELIANA MARIA ARIAS SANCHEZ)             | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | EL MIRADOR (EULICES CARDONA RODRIGUEZ)        | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | EL JORDAN (EZEQUIEL VARELA ROCHA)             | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | PALMIRA (HECTOR AVENDAÑO)                     | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | EL DIAMANTE (HERNANDO VILLAMIL GARCIA)        | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | LAS FLORES (JHON FREDY SANGUINO MARQUEZ)      | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | LA PRIMAVERA (JOSE FRANCISCO NOLAVITA BOLAÑO) | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | LA PLAYA (JOSE GERMAN TOVAR RUEDA)            | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | EL SINA (JOSE MIGUEL CARDONA HERNANDEZ)       | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | LA FENICIA (JOSE MIGUEL CARDONA HERNANDEZ)    | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | EL DESCANSO (JOSE MIGUEL CARDONA HERNANDEZ)   | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |
|             |         | LA VISTOSA (LEONILDE                          | 539,136 | 1078,272 | 1078,272     | 549,919     | 1099,837    | 1099,837    | 560,917     | 1121,834    | 1121,834    | 514,922     | 1029,844    | 1029,844    | 472,698     | 945,397     | 945,397     | 438,759     | 877,517     | 438,759     | 877,517     | 438,759     | 877,517     | 877,517 |





# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCIA    | TRAM<br>O | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022                 |          |              |          |              |          |              |         |              |         |              |          |         |          |          |          |          |         |          |         |         |             |             |             |             |             |             |             |          |         |         |         |         |
|-------------|-----------|--|----------|--------------|----------|--------------|----------|--------------|---------|--------------|---------|--------------|----------|---------|----------|----------|----------|----------|---------|----------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|---------|---------|---------|---------|
|             |           | LINEA BASE   |          | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |         | AÑO 4 - 2021 |         | AÑO 5 - 2022 |          |         |          |          |          |          |         |          |         |         |             |             |             |             |             |             |             |          |         |         |         |         |
|             |           | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST     | DBO5         | SST     | DBO5         | SST      |         |          |          |          |          |         |          |         |         |             |             |             |             |             |             |             |          |         |         |         |         |
| Kg/año      | Kg/año    | 549,919  | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397 | 438,759      | 877,517 | 539,136      | 1078,272 | 560,917 | 1121,834 | 514,922  | 1029,844 | 472,698  | 945,397 | 438,759  | 877,517 |         |             |             |             |             |             |             |             |          |         |         |         |         |
| RIO SEVILLA | TRAMO 1   | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CC       | CC           | DBO5     | SST          | DBO5     | SST          | DBO5    | SST          | DBO5    | SST          | DBO5     | SST     | DBO5     | SST      | DBO5     | SST      | DBO5    | SST      | DBO5    | SST     | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |             |          |         |         |         |         |
|             |           | CC   | CC       | DBO5         | SST      | DBO5         | SST      | DBO5         | SST     | DBO5         | SST     | DBO5         | SST      | DBO5    | SST      | DBO5     | SST      | DBO5     | SST     | DBO5     | SST     | DBO5    | SST         | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |          |         |         |         |         |
|             |           | COSTA RICA (LIBARDO MATEUS LEON)                             | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | EL NARANJAL (LUIS ALFREDO CASTRO CASTRO)                     | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | EL PARAISO (LUIS EDUARDO HERRERA)                            | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | LA ESTRELLA (NEDIN GUERRERO PEÑARANDA)                       | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | BELLO HORIZONTE 2 (OMAIRA MATEUS LEON)                       | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | SAN RAFAEL (ESPEDITO JIMENEZ)                                | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | MIRAFLOREZ (GUILLERMO GOMEZ)                                 | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | EL RETIRO (JOSE PEREZ FONTALVO)                              | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | VILLA DEL CARMEN (AGUSTIN ORTEGA NIEBLES)                    | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | VILLA RICA (ALIRIO ALVERNIA RIOS)                            | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | EL ALTO DE LA VIRGEN (ANA CLAUDINA PULIDO)                   | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |
|             |           | LA MILAGROSA (ANA RUTH BETANCOURT)                           | 539,136  | 1078,272     | 549,919  | 1099,837     | 560,917  | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759  | 877,517 | 539,136  | 1078,272 | 560,917  | 1121,834 | 514,922 | 1029,844 | 472,698 | 945,397 | 438,759     | 877,517     | 539,136     | 1078,272    | 560,917     | 1121,834    | 514,922     | 1029,844 | 472,698 | 945,397 | 438,759 | 877,517 |

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Commutador: (57) (5) 4211395 – 4213089 – 4211680 – 4211344 Fax: ext. 117

Santa Marta D.T.C.H., Magdalena, Colombia

www.corpamag.gov.co – email: [contactenos@corpamag.gov.co](mailto:contactenos@corpamag.gov.co)

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| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022                 |         |              |             |              |             |              |             |              |             |              |             |          |
|--------|-------|--|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|----------|
|        |       | LINEA BASE   |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |          |
|        |       | DBO5   | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |          |
|        |       | Kg/año   | Kg/año  | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |          |
|        |       | CC   | CC      |              |             |              |             |              |             |              |             |              |             |          |
|        |       | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO/ INDUSTRIA) |         |              |             |              |             |              |             |              |             |              |             |          |
|        |       | HERNANDEZ)   |         |              |             |              |             |              |             |              |             |              |             |          |
|        |       | LOS CEDROS (ANDRES CARRASCAL CASTRO)                         | 224,640 | 448,280      | 229,133     | 458,266      | 233,715     | 457,431      | 214,551     | 429,102      | 196,958     | 393,915      | 182,816     | 365,632  |
|        |       | PALAMRITO 2 (BRICEIDA PACHECO FLORES)                        | 588,416 | 1976,832     | 1008,184    | 2016,369     | 1028,348    | 2058,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781 |
|        |       | MONSERRATE (CARLOS JULIO SANJUAN QUINTERO)                   | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659  |
|        |       | EL TRIUNFO (DORIS ACOSTA SANTOS)                             | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659  |
|        |       | CASA NUEVA (ELIBERTO ARIAS GARCIA)                           | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659  |
|        |       | VILLA RICA (EVELIO ALVERNIA RIOS)                            | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659  |
|        |       | SANTA GERTRUDES (FLOR ALBA RESTREPO FORERO)                  | 539,136 | 1078,272     | 549,919     | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659  |
|        |       | MIRAFLORES (GABRIEL SANJUAN QUINTERO)                        | 112,320 | 224,640      | 114,566     | 229,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820  |
|        |       | EL PROGRESO (GILDARDO HERNANDEZ CASTRILLON)                  | 112,320 | 224,640      | 114,566     | 229,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820  |
|        |       | MIRAFLORES II (JORGE EDIL ROMERO SOTELCO)                    | 112,320 | 224,640      | 114,566     | 229,133      | 116,858     | 233,715      | 119,195     | 238,390      | 114,284     | 228,568      | 108,410     | 216,820  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA  |         | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |              |         |              |         |              |         |              |         |              |         |         |         |
|---|---------|---|--|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|---------|---------|
|   |         |   | LÍNEA BASE                                   |         | AÑO 1 - 2018 |         | AÑO 2 - 2019 |         | AÑO 3 - 2020 |         | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |         |         |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) |         | DBO5  | SST  | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST     |         |
|   |         | Kg/año  | Kg/año                                       | kg/año  | kg/año       | kg/año  | kg/año       | kg/año  | kg/año       | kg/año  | kg/año       | kg/año  | kg/año       | kg/año  | kg/año  |         |
| RIO SEVILLA   | TRAMO 1 | EL CARMEN (JOSÉ DOLORES IBARRA SUAREZ)        | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | BABILONIA (JUSTINIANO FLOREZ)                 | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | LOS LIMONES (KENNIS ALEXI IBARRA LASARO)      | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | SAN ANTONIO (LUDY'S MARIA PEÑARANDA TARAZONA) | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | LAS PALMERAS (LUZ MARINA PEÑA RAMIREZ)        | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | LA LAGUNA (MARIA CRISTINA ORTIZ SANCHEZ)      | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | SAN RAFAEL 2 (MARIA LIDIA CRUZ DE JIMENEZ)    | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | SANTA CECILIA (OSCAR CRTEGA)                  | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | BELLA VISTA (PEDRO NEL GRISALES ALZATE)       | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | LOS NARANJOS (RUTH MARINA PEÑARANDA MONTERO)  | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |
|   |         | LA PRIMAVERA (TILCIA MARIA PEDROZA PEREZ)     | 112,320                                      | 224,640 | 114,566      | 229,133 | 116,858      | 233,715 | 119,195      | 238,390 | 114,284      | 228,568 | 108,410      | 216,820 | 108,410 | 216,820 |



# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

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| CUENCA      | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |              |         |             |         |             |         |             |         |             |         |         |         |         |
|-------------|---------|--|---------|--------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|---------|---------|---------|
|             |         | LINEA BASE                                   |         | AÑO 1 - 2018 |         | AÑO 2- 2019 |         | AÑO 3- 2020 |         | AÑO 4- 2021 |         | AÑO 5- 2022 |         |         |         |         |
|             |         | DBO5   | SST     | DBO5         | SST     | DBO5        | SST     | DBO5        | SST     | DBO5        | SST     | DBO5        | SST     |         |         |         |
| Kg/año      | Kg/año  | CC   | CC      | CC           | CC      | CC          | CC      | CC          | CC      | CC          | CC      | CC          | CC      | CC      | CC      |         |
| RIO SEVILLA | TRAMO 1 | EL RINCONCITO (WILLIAN CCAMPO PULIDO)        | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | PALMARITO (ELIESER PEÑARALDA)                | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LA CALMA (JOSE GALVIS BALLESTEROS)           | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LA SIRIA (ALIRIO ESCALANTE GRISALES)         | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LA FORTUNA (ARCANGEL GALVIS GALVIS)          | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LA REINA (DANIEL RODRIGUEZ CESPEDES)         | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | EL TRIUNFO (EDGAR LOPEZ BERMUDEZ)            | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LAS BRISAS (JAIDER DE JESUS ESCALANTE LOPEZ) | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | AGUAS LINDAS (JAIRO MAZZO GONZALEZ)          | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | MEXICO (JAVIER DIMAS DURAN)                  | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | LOS LAURELES (JOSE CASAS VALENCIA)           | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | MARTINEZ RAMIREZ                             | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |
|             |         | EL MIRASOL (LUIS ARIAS GARCIA)               | 112,320 | 224,640      | 224,640 | 229,133     | 114,566 | 229,133     | 116,858 | 233,715     | 119,195 | 238,390     | 114,284 | 228,568 | 108,410 | 216,820 |

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*Dr*



**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |             |              |             |              |             |              |             |              |             |     |             |      |             |     |             |
|--------|-------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-----|-------------|------|-------------|-----|-------------|
|        |       | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |     |             |      |             |     |             |
|        |       | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |     |             |      |             |     |             |
|        |       | CC   | Kg/año   | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST          | META kg/año | DBO5         | META kg/año | SST | META kg/año | DBO5 | META kg/año | SST | META kg/año |
|        |       |  |          |              |             |              |             |              |             |              |             |              |             |     |             |      |             |     |             |
|        |       | 112,320                                      | 224,640  | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 228,568     | 108,410      | 216,820     |     |             |      |             |     |             |
|        |       | 112,320                                      | 224,640  | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 228,568     | 108,410      | 216,820     |     |             |      |             |     |             |
|        |       | 112,320                                      | 224,640  | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 228,568     | 108,410      | 216,820     |     |             |      |             |     |             |
|        |       | 112,320                                      | 224,640  | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 228,568     | 108,410      | 216,820     |     |             |      |             |     |             |
|        |       | 112,320                                      | 224,640  | 114,566      | 229,133     | 116,858      | 233,715     | 119,195      | 238,390     | 114,284      | 228,568     | 108,410      | 216,820     |     |             |      |             |     |             |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 571,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |     |             |      |             |     |             |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 571,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |     |             |      |             |     |             |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 571,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |     |             |      |             |     |             |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 571,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |     |             |      |             |     |             |
|        |       | 1386,976                                     | 3773,952 | 1924,716     | 3849,431    | 1963,210     | 3926,420    | 1802,227     | 3604,453    | 1654,444     | 3306,888    | 1535,655     | 3071,310    |     |             |      |             |     |             |
|        |       | 539,136                                      | 1078,272 | 549,919      | 1099,837    | 560,917      | 1121,834    | 571,922      | 1029,844    | 472,698      | 945,397     | 438,759      | 877,517     |     |             |      |             |     |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA      | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022                  |         |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|---------|---|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             |         | LINEA BASE  |         | AÑO 1 - 2018 |             |             |             | AÑO 2- 2019 |             |             |             | AÑO 3- 2020 |             |             |             | AÑO 4- 2021 |             |             |             | AÑO 5- 2022 |             |             |
|             |         | DBO5  | SST     | DBO5         |             | SST         |             | DBO5        |             | SST         |             | DBO5        |             | SST         |             | DBO5        |             | SST         |             | DBO5        | SST         |             |
|             |         | Kg/año  | Kg/año  | META kg/año  | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
| RIO SEVILLA | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | DBO5    | SST          | CC          | Kg/año      | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
|             |         | LOS MANANTIALES (EMILCE CONTRERA BALLENA)                     | 224,640 | 448,280      |             | 448,280     | 229,133     | 458,266     | 233,715     | 457,431     | 214,551     | 429,102     | 196,958     | 393,915     | 182,816     | 365,632     |             |             |             |             |             |             |
|             |         | LA ISABEL (ENA CRISTINA VARGAS CARRILLO)                      | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | LA UNION (FRAYDALID CARDOZO VASCO)                            | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | EL MANANTIAL (ILMA MONTIEL)                                   | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | EL TRIUNFO (JAVIER CASTILLO AMESQUITA)                        | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | AÑO NUEVO (JESUS OCTAVIO GARCES GRAJALES)                     | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | LA CRISTALINA (JESUS OCTAVIO GARCES GRAJALES)                 | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | MENSAJERA (JOSE AYDEL SERRANO CARDENAS)                       | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |
|             |         | EL QUINDIO (JOSE FRANCISCO GALINDO LINARES)                   | 224,640 | 448,280      |             | 448,280     | 229,133     | 458,266     | 233,715     | 457,431     | 214,551     | 429,102     | 196,958     | 393,915     | 182,816     | 365,632     |             |             |             |             |             |             |
|             |         | BENDITO SEA DIOS (LACIDES MORENO RODRIGUEZ)                   | 539,136 | 1078,272     |             | 1078,272    | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |             |             |             |             |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUIENCA                                    | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                  |          |          |         |             |             |              |          |             |              |          |             |              |          |             |              |      |             |              |      |             |             |  |  |  |
|--|---------|---|----------|----------|---------|-------------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|------|-------------|--------------|------|-------------|-------------|--|--|--|
|  |         | LINEA BASE  |          |          |         |             |             | AÑO 1 - 2018 |          |             | AÑO 2 - 2019 |          |             | AÑO 3 - 2020 |          |             | AÑO 4 - 2021 |      |             | AÑO 5 - 2022 |      |             |             |  |  |  |
|  |         | DBO5  | SST      | CC       | Kg/año  | META kg/año | SST         | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST  | META kg/año | DBO5         | SST  | META kg/año |             |  |  |  |
| RIO SEVILLA                                | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | DBO5     | SST      | CC      | Kg/año      | META kg/año | SST          | DBO5     | SST         | META kg/año  | DBO5     | SST         | META kg/año  | DBO5     | SST         | META kg/año  | DBO5 | SST         | META kg/año  | DBO5 | SST         | META kg/año |  |  |  |
|  |         | VALLEJO JAIME)  |          |          |         |             |             |              |          |             |              |          |             |              |          |             |              |      |             |              |      |             |             |  |  |  |
|  |         | VERGELITO (MIRIBETH VALLEJO JAIME)                            | 224,640  | 449,280  |         | 449,280     | 228,133     | 458,266      | 233,715  | 457,431     | 214,551      | 429,102  | 196,958     | 393,915      | 182,816  | 365,632     |              |      |             |              |      |             |             |  |  |  |
|  |         | ALTAMIRA (DIOS MANUEL GARAY NAVARRO)                          | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | EL LAGO (GERMAN CARDONA RODRIGUEZ)                            | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | EL PORVENIR (LUIS GARCIA)                                     | 224,640  | 449,280  |         | 449,280     | 228,133     | 458,266      | 233,715  | 457,431     | 214,551      | 429,102  | 196,958     | 393,915      | 182,816  | 365,632     |              |      |             |              |      |             |             |  |  |  |
|  |         | LA ESPERANZA (MARIA CELINA ORTIZ TORRES)                      | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | LA VINA (ROSABEL URIBE RUEDA)                                 | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | LA RESERVA (YESID NUÑEZ LOZANO)                               | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | AGRO BERLIN (AGRO BERLIN)                                     | 1886,976 | 3773,952 |         | 3773,952    | 1924,716    | 3849,431     | 1963,210 | 3926,420    | 1802,227     | 3604,453 | 1654,444    | 3308,888     | 1535,655 | 3071,310    |              |      |             |              |      |             |             |  |  |  |
|  |         | CRUCERO (WALTER GUEVARA)                                      | 1886,976 | 3773,952 |         | 3773,952    | 1924,716    | 3849,431     | 1963,210 | 3926,420    | 1802,227     | 3604,453 | 1654,444    | 3308,888     | 1535,655 | 3071,310    |              |      |             |              |      |             |             |  |  |  |
|  |         | LA SILVIA (GABRIEL CASTAÑEDA)                                 | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
|  |         | LOS LAURELES (JOSE JESUS HENAO DUQUE)                         | 539,136  | 1078,272 |         | 1078,272    | 549,919     | 1099,837     | 560,917  | 1121,834    | 514,922      | 1029,844 | 472,698     | 945,397      | 438,759  | 877,517     |              |      |             |              |      |             |             |  |  |  |
| LOS LAURELES 2 (KARELIS ESTER HENAO DUQUE) | 539,136 | 1078,272  |          | 1078,272 | 549,919 | 1099,837    | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |          |             |              |      |             |              |      |             |             |  |  |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUIENCA     | TRAMO   | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022                  |         |              |         |              |         |              |         |              |         |              |         |         |        |        |        |        |        |        |        |        |        |        |      |     |
|-------------|---------|---|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|
|             |         | LINEA BASE  |         | AÑO 1 - 2018 |         | AÑO 2 - 2019 |         | AÑO 3 - 2020 |         | AÑO 4 - 2021 |         | AÑO 5 - 2022 |         |         |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | DBO5  | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5         | SST     | DBO5    | SST    | DBO5   | SST    | DBO5   | SST    | DBO5   | SST    | DBO5   | SST    |        |      |     |
| Kg/año      | Kg/año  | Kg/año  | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año       | Kg/año  | Kg/año  | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año | Kg/año |      |     |
| RIO SEVILLA | TRAMO 1 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST          | DBO5    | SST     | DBO5   | SST    | DBO5   | SST    | DBO5   | SST    | DBO5   | SST    | DBO5   | SST    | DBO5 | SST |
|             |         | LA CONQUISTA (LUIS OVALLE OQUENDO)                            | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 214,551 | 429,102      | 196,968 | 393,915      | 182,816 | 365,632 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA PALMA (LUIS E RUEDA HERNANDEZ)                             | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | PENSILVANIA (WALTER GUEVARA)                                  | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | BUENAVISTA (OTONIEL BARRETO L.)                               | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA GLORIA (RAMON ANTONIO HERRERA)                             | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA ALSACIA (DAMIN CONDE CUINTERO)                             | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LAS MELLAS (ESTER JULIA MARTINEZ RAMIREZ)                     | 224,640 | 449,280      | 229,133 | 458,266      | 233,715 | 467,431      | 214,551 | 429,102      | 196,968 | 393,915      | 182,816 | 365,632 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | CUBA (EVANGELISTA HERNANDEZ PERALTA)                          | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA ESMERALDA (JAIRO HERNANDEZ CASTRILLON)                     | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA ESPERANZA (JAMES AUGUSTO SOTO MUÑOZ)                       | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | LA ARGENTINA (JOSE ARGILIO MONROY CIFUENTES)                  | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |
|             |         | EL JARDIN 2 (JOSE ELIBARDO CASAS)                             | 539,136 | 1078,272     | 549,919 | 1099,837     | 560,917 | 1121,834     | 514,922 | 1029,844     | 472,698 | 945,397      | 438,759 | 819,659 |        |        |        |        |        |        |        |        |        |        |      |     |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| CUENCA                                      | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |             |              |             |              |             |              |             |              |             |             |             |
|---|-------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
|   |       | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |
|   |       | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |             |
|   |       | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |
| VALENCIA)                                   |       |  |          |              |             |              |             |              |             |              |             |              |             |             |             |
| LA CAROLINA (JOSE REINEL CIFUENTES MORENO)  |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| EL JARDIN (LUZ MILA CASAS AMAYA)            |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| BERLIN (LUZDARY DIMAS DURAN)                |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| LOS LAURELES (ROSA EVELIA MARTINEZ RAMIREZ) |       | 588,416                                      | 1976,852 | 2016,368     | 1028,348    | 2056,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781     |             |             |             |
| LA ESTRELLA (ROSANA CCAMPO SAENZ)           |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| LA ARGENTINA (EDUARDO HERNANDEZ)            |       | 588,416                                      | 1976,852 | 2016,368     | 1028,348    | 2056,696     | 944,023     | 1888,047     | 866,614     | 1733,227     | 804,391     | 1608,781     |             |             |             |
| JARDICITO 2 (JUAN GARCIA CRTIZ)             |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| PARAISO (ABELINO RODRIGUEZ VELOZA)          |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| EL DIAMANTE (ANDRES CUIROZ FLORIAN)         |       | 224,640                                      | 449,280  | 458,266      | 233,715     | 467,431      | 214,551     | 429,102      | 186,958     | 393,915      | 182,816     | 365,632      |             |             |             |
| LA SAMARIA (ARCESIO TORREZ)                 |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| BELLA VISTA (ARNULFO ANDRADES ARIAS)        |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |
| LA ISLITA (FRANCISCO SOTO)                  |       | 539,136                                      | 1078,272 | 1099,837     | 560,917     | 1121,834     | 514,922     | 1029,844     | 472,698     | 945,397      | 438,759     | 819,659      |             |             |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA      | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |          |              |          |             |             |         |             |            |          |             |             |     |             |             |     |             |
|-------------|---------|---|--|----------|----------|--------------|----------|-------------|-------------|---------|-------------|------------|----------|-------------|-------------|-----|-------------|-------------|-----|-------------|
|             |         |   | LINEA BASE                                   |          |          | AÑO 1 - 2018 |          |             | AÑO 2- 2019 |         |             | AÑO 3-2020 |          |             | AÑO 4- 2021 |     |             | AÑO 5- 2022 |     |             |
|             |         |   | DBO5   | SST      | CC       | DBO5         | SST      | META kg/año | DBO5        | SST     | META kg/año | DBO5       | SST      | META kg/año | DBO5        | SST | META kg/año | DBO5        | SST | META kg/año |
| RIO SEVILLA | TRAMO 1 | EL DIVISO (GONZALO ARIAS)                                     | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834    | 514,922 | 1029,844    | 472,698    | 945,397  | 438,759     | 819,659     |     |             |             |     |             |
|             |         | NOCHES DE AMOR (GRACIANO SANDOVAL PEREZ)                      | 112,320                                      | 224,640  | 224,640  | 114,566      | 229,133  | 116,858     | 233,715     | 119,195 | 238,390     | 114,284    | 228,568  | 108,410     | 216,820     |     |             |             |     |             |
|             |         | EL JARDINCITO (HENRY ISAAC CAMELO DIAZ)                       | 112,320                                      | 224,640  | 224,640  | 114,566      | 229,133  | 116,858     | 233,715     | 119,195 | 238,390     | 114,284    | 228,568  | 108,410     | 216,820     |     |             |             |     |             |
|             |         | EL TRIANGULO (HUGO ALFONSO ROJAS PULMA)                       | 112,320                                      | 224,640  | 224,640  | 114,566      | 229,133  | 116,858     | 233,715     | 119,195 | 238,390     | 114,284    | 228,568  | 108,410     | 216,820     |     |             |             |     |             |
|             |         | EL PORVENIR (HUMBERTO PATIÑO)                                 | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266  | 233,715     | 467,431     | 214,551 | 429,102     | 196,958    | 393,915  | 182,816     | 365,632     |     |             |             |     |             |
|             |         | EL TRIANGULO (INGRID CECILIA HEREIRA CHARRIS)                 | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834    | 514,922 | 1029,844    | 472,698    | 945,397  | 438,759     | 877,517     |     |             |             |     |             |
|             |         | LA FE (JAIME DE JESUS LONDOÑO)                                | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834    | 514,922 | 1029,844    | 472,698    | 945,397  | 438,759     | 877,517     |     |             |             |     |             |
|             |         | NO HAY COMO DIOS (JORGE ANTONIO URIBE RINCÓN)                 | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266  | 233,715     | 467,431     | 214,551 | 429,102     | 196,958    | 393,915  | 182,816     | 365,632     |     |             |             |     |             |
|             |         | NAVIDAD (JOSE ARNOBI HENAO)                                   | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834    | 514,922 | 1029,844    | 472,698    | 945,397  | 438,759     | 877,517     |     |             |             |     |             |
|             |         | DIOS VERA (JULIO ENRIQUE VARELA CRESPO)                       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834    | 514,922 | 1029,844    | 472,698    | 945,397  | 438,759     | 877,517     |     |             |             |     |             |
|             |         | EL GUADUAL (KATHERINE PAOLA ARIAS DIAZ)                       | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266  | 233,715     | 467,431     | 214,551 | 429,102     | 196,958    | 393,915  | 182,816     | 365,632     |     |             |             |     |             |
|             |         | EL DIAMANTE (MARCOS)  | 718,848                                      | 1437,696 | 1437,696 | 733,225      | 1466,450 | 747,889     | 1495,778    | 762,847 | 1525,694    | 622,483    | 1400,568 | 571,440     | 1285,799    |     |             |             |     |             |

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NIT. 800.099.287-4

| CUIENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |              |             |              |             |              |             |              |             |              |             |
|---------|-------|--|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|         |       | LINEA BASE                                   |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
|         |       | DBO5   | SST      | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |
|         |       | Kg/año                                       | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |
|         |       | CC   | CC       |              |             |              |             |              |             |              |             |              |             |
|         |       | 1437,656                                     | 1437,656 | 1437,656     | 1437,656    | 1437,656     | 1437,656    | 1437,656     | 1437,656    | 1437,656     | 1437,656    | 1437,656     | 1437,656    |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | ARIAS SANCHEZ)                               |          |              |             |              |             |              |             |              |             |              |             |
|         |       | BELLA VISTA (MARCOS ARIAS SANCHEZ)           |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LA PRIMAVERA (MARTHA MILENA ARIAS DIAZ)      |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | ANDA LUCIA (MIGUEL HERNANDEZ ALVAREZ)        |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LA REINA (ORLANDO DE JESUS RODRIGUEZ)        |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LA ESTRELLA (RAMIRO ANTONIO CARO ANAYA)      |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LAS FLORES (RAMIRO ULISES RAMIREZ)           |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LA ESPERANZA (WILSON CHONA CHONA)            |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | EL DIAMANTE 2 (ABELARDO JOSE YEPEZ MARTINEZ) |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | CALIFORNIA (CIANCI VEGA Y COMPAÑIA)          |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | LA RESERVA (ELBERTO QUINTERO)                |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |
|         |       | VILLA ELVES (ELVES QUINTERO FLOREZ)          |          |              |             |              |             |              |             |              |             |              |             |
|         |       | 718,848                                      | 718,848  | 733,225      | 733,225     | 747,889      | 747,889     | 762,847      | 762,847     | 1400,588     | 1400,588    | 1400,588     | 1400,588    |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |          |              |          |             |              |         |             |              |          |             |              |     |             |              |     |             |
|--------|-------|--|----------|----------|--------------|----------|-------------|--------------|---------|-------------|--------------|----------|-------------|--------------|-----|-------------|--------------|-----|-------------|
|        |       | LINEA BASE                                   |          |          | AÑO 1 - 2018 |          |             | AÑO 2 - 2019 |         |             | AÑO 3 - 2020 |          |             | AÑO 4 - 2021 |     |             | AÑO 5 - 2022 |     |             |
|        |       | DBO5   | SST      | Kg/año   | DBO5         | SST      | META kg/año | DBO5         | SST     | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST | META kg/año | DBO5         | SST | META kg/año |
|        |       | 718,848                                      | 1437,666 | 1437,666 | 733,225      | 1466,450 | 747,889     | 1495,779     | 762,847 | 1525,694    | 622,483      | 1400,568 | 571,440     | 1285,739     |     |             |              |     |             |
|        |       | 718,848                                      | 1437,666 | 1437,666 | 733,225      | 1466,450 | 747,889     | 1495,779     | 762,847 | 1525,694    | 622,483      | 1400,568 | 571,440     | 1285,739     |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 588,416                                      | 1976,852 | 1976,852 | 1008,184     | 2016,369 | 1028,348    | 2056,696     | 944,023 | 1888,047    | 866,614      | 1733,227 | 804,391     | 1608,781     |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 224,640                                      | 449,280  | 449,280  | 229,133      | 458,266  | 233,715     | 437,431      | 214,551 | 429,102     | 196,958      | 393,915  | 182,816     | 365,632      |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922 | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA | TRAMO | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |          |              |          |             |              |          |             |              |          |             |              |     |             |              |     |             |  |
|--------|-------|--|----------|----------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|-----|-------------|--------------|-----|-------------|--|
|        |       | LINEA BASE                                   |          |          | AÑO 1 - 2018 |          |             | AÑO 2 - 2019 |          |             | AÑO 3 - 2020 |          |             | AÑO 4 - 2021 |     |             | AÑO 5 - 2022 |     |             |  |
|        |       | DBO5   | SST      | Kg/año   | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST | META kg/año | DBO5         | SST | META kg/año |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 224,840                                      | 449,280  | 449,280  | 229,133      | 458,266  | 233,715     | 457,431      | 214,551  | 429,102     | 196,958      | 393,915  | 182,816     | 365,632      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 1886,976                                     | 3773,952 | 3773,952 | 1924,716     | 3849,431 | 1963,210    | 3926,420     | 1802,227 | 3604,453    | 1654,444     | 3308,888 | 1535,655    | 3071,310     |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |
|        |       | 539,136                                      | 1078,272 | 1078,272 | 549,919      | 1099,837 | 560,917     | 1121,834     | 514,922  | 1029,844    | 472,698      | 945,397  | 438,759     | 877,517      |     |             |              |     |             |  |

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| CUENCA                                 | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCRAMA DE CARGAS CONTAMINANTES 2019-2022 |                   |                   |                   |                  |                  |                  |                   |                   |                   |                   |                   |                   |     |             |              |     |             |
|--|-------|---|--|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-------------|--------------|-----|-------------|
|  |       |   | LINEA BASE                                   |                   |                   | AÑO 1 - 2018      |                  |                  | AÑO 2 - 2019     |                   |                   | AÑO 3 - 2020      |                   |                   | AÑO 4 - 2021      |     |             | AÑO 5 - 2022 |     |             |
|  |       |   | DBO5   | SST               | Kg/año            | DBO5              | SST              | META kg/año      | DBO5             | SST               | META kg/año       | DBO5              | SST               | META kg/año       | DBO5              | SST | META kg/año | DBO5         | SST | META kg/año |
|  |       | LA GAVIOTA (SIEVCO DE DIOS ARIAS ROSAS)                       | 539,136                                      | 1078,272          | 1078,272          | 549,919           | 1099,837         | 560,917          | 1121,834         | 514,922           | 1029,844          | 472,698           | 945,397           | 438,759           | 877,517           |     |             |              |     |             |
|  |       | EL DANUBIO (SIEVCO DE DIOS ARIAS ROSAS)                       | 988,416                                      | 1976,832          | 1976,832          | 1008,184          | 2016,369         | 1028,343         | 2056,696         | 944,023           | 1888,047          | 866,614           | 1733,227          | 804,361           | 1608,781          |     |             |              |     |             |
| <b>TOTAL CARGA TRAMO 1 RIO SEVILLA</b> |       |   | <b>273611,520</b>                            | <b>547223,040</b> | <b>547223,040</b> | <b>279083,750</b> | <b>558167,50</b> | <b>284685,42</b> | <b>569330,85</b> | <b>266059,755</b> | <b>536119,511</b> | <b>242863,563</b> | <b>493099,703</b> | <b>224900,407</b> | <b>454948,771</b> |     |             |              |     |             |

| TRAMO | RIO SEVILLA TRAMO 2 | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |         |         |              |          |             |              |        |             |              |          |             |              |     |             |              |     |             |
|-------|---------------------|---|--|---------|---------|--------------|----------|-------------|--------------|--------|-------------|--------------|----------|-------------|--------------|-----|-------------|--------------|-----|-------------|
|       |                     |   | LINEA BASE                                   |         |         | AÑO 1 - 2018 |          |             | AÑO 2 - 2019 |        |             | AÑO 3 - 2020 |          |             | AÑO 4 - 2021 |     |             | AÑO 5 - 2022 |     |             |
|       |                     |   | DBO5   | SST     | Kg/año  | DBO5         | SST      | META kg/año | DBO5         | SST    | META kg/año | DBO5         | SST      | META kg/año | DBO5         | SST | META kg/año | DBO5         | SST | META kg/año |
|       |                     | FINCA MARTE (AGROBANACARIBE)                                  | 56   | 531     | 531     | 57,07        | 542,06   | 58,21       | 552,90       | 59,37  | 563,96      | 60,56        | 575,24   | 61,77       | 586,74       |     |             |              |     |             |
|       |                     | FINCA ANGELES (AGROBANACARIBE S.A.S)                          | 231  | 1.070   | 1.070   | 235,88       | 1.090,91 | 240,59      | 1.112,73     | 245,40 | 1.134,98    | 250,31       | 1.157,68 | 255,32      | 1.180,84     |     |             |              |     |             |
|       |                     | FINCA VILJAGUAL (AGROBANACARIBE S.A.S)                        | 38,91  | 96      | 96      | 39,69        | 97,92    | 40,48       | 99,88        | 41,29  | 101,88      | 42,12        | 103,91   | 42,96       | 105,99       |     |             |              |     |             |
|       |                     | FINCA LA JOYA (HENRIQUE VELASQUEZ S.A.)                       | 137,05                                       | 1210,19 | 1210,19 | 139,79       | 1.234,38 | 142,59      | 1.259,07     | 145,44 | 1.284,25    | 148,35       | 1.309,94 | 151,31      | 1.336,14     |     |             |              |     |             |
|       |                     | FINCA LA ALICIA (EMPRESA COOP)                                | 193,54                                       | 276,48  | 276,48  | 197,41       | 282,01   | 201,36      | 287,65       | 205,39 | 293,40      | 209,49       | 299,27   | 213,66      | 305,26       |     |             |              |     |             |
|       |                     | FINCA EL CRISOL (INVERSIONES)                                 | 75,01  | 360,56  | 360,56  | 76,51        | 367,77   | 78,04       | 375,13       | 79,60  | 382,63      | 81,19        | 390,28   | 82,82       | 398,09       |     |             |              |     |             |

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| TRAMO | CRONOCGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |          |              |        |             |             |             |             |             |        |             |             |             |             |             |     |             |
|-------|---|--------|----------|--------------|--------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-----|-------------|
|       | LINEA BASE                                    |        |          | AÑO 1 - 2018 |        |             | AÑO 2- 2019 |             |             | AÑO 3- 2020 |        |             | AÑO 4- 2021 |             |             | AÑO 5- 2022 |     |             |
|       | DBO5  | SST    | CC       | DBO5         | SST    | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST    | META kg/año | DBO5        | SST         | META kg/año | DBO5        | SST | META kg/año |
|       | CC  | Kg/año |          | META kg/año  |        | META kg/año |             | META kg/año |             | META kg/año |        | META kg/año |             | META kg/año |             | META kg/año |     | META kg/año |
|       | DBO5  | CC     | 77,41    | 110,59       | 78,96  | 112,80      | 80,54       | 115,06      | 82,15       | 117,36      | 83,79  | 119,71      | 85,47       | 122,10      |             |             |     |             |
|       | CC  | CC     | 45,95    | 156,23       | 46,87  | 159,35      | 47,81       | 162,54      | 48,76       | 165,79      | 49,74  | 169,11      | 50,73       | 172,49      |             |             |     |             |
|       | CC  | CC     | 77,41    | 110,59       | 78,96  | 112,80      | 80,54       | 115,06      | 82,15       | 117,36      | 83,79  | 119,71      | 85,47       | 122,10      |             |             |     |             |
|       | CC  | CC     | 44,24    | 150,41       | 45,12  | 153,42      | 46,03       | 156,49      | 46,95       | 159,62      | 47,89  | 162,81      | 48,84       | 166,06      |             |             |     |             |
|       | CC  | CC     | 98,79    | 197,57       | 100,77 | 201,52      | 102,78      | 205,55      | 104,84      | 209,66      | 106,93 | 213,86      | 109,07      | 218,13      |             |             |     |             |
|       | CC  | CC     | 44,24    | 150,41       | 45,12  | 153,42      | 46,03       | 156,49      | 46,95       | 159,62      | 47,89  | 162,81      | 48,84       | 166,06      |             |             |     |             |
|       | CC  | CC     | 48,11    | 24,88        | 49,07  | 25,38       | 50,05       | 25,89       | 51,05       | 26,40       | 52,08  | 26,93       | 53,12       | 27,47       |             |             |     |             |
|       | CC  | CC     | 203,2128 | 290,304      | 207,28 | 296,11      | 211,42      | 302,03      | 215,65      | 308,07      | 219,96 | 314,23      | 224,36      | 320,52      |             |             |     |             |
|       | CC  | CC     | 14,7     | 29,4         | 14,99  | 29,99       | 15,29       | 30,59       | 15,60       | 31,20       | 15,91  | 31,82       | 16,23       | 32,46       |             |             |     |             |
|       | CC  | CC     | 22,2     | 75,2         | 22,64  | 76,70       | 23,10       | 78,24       | 23,56       | 79,80       | 24,03  | 81,40       | 24,51       | 83,03       |             |             |     |             |
|       | CC  | CC     | 44,24    | 150,41       | 45,12  | 153,42      | 46,03       | 156,49      | 46,95       | 159,62      | 47,89  | 162,81      | 48,84       | 166,06      |             |             |     |             |
|       | CC  | CC     | 6,61     | 47,9         | 6,74   | 48,86       | 6,88        | 49,84       | 7,01        | 50,83       | 7,15   | 51,85       | 7,30        | 52,89       |             |             |     |             |
|       | CC  | CC     | 22,2     | 75,2         | 22,64  | 76,70       | 23,10       | 78,24       | 23,56       | 79,80       | 24,03  | 81,40       | 24,51       | 83,03       |             |             |     |             |
|       | CC  | CC     | 22,12    | 75           | 22,56  | 76,50       | 23,01       | 78,03       | 23,47       | 79,59       | 23,94  | 81,18       | 24,42       | 82,81       |             |             |     |             |
|       | CC  | CC     | 4,69     | 28           | 4,78   | 28,21       | 4,88        | 28,78       | 4,98        | 29,35       | 5,08   | 29,94       | 5,18        | 30,54       |             |             |     |             |
|       | CC  | CC     | 22,2     | 75,2         | 22,64  | 76,70       | 23,10       | 78,24       | 23,56       | 79,80       | 24,03  | 81,40       | 24,51       | 83,03       |             |             |     |             |
|       | CC  | CC     | 15,93    | 69,25        | 16,15  | 70,64       | 16,47       | 72,05       | 16,80       | 73,49       | 17,13  | 74,96       | 17,48       | 76,46       |             |             |     |             |
|       | CC  | CC     | 44,24    | 150,41       | 45,12  | 153,42      | 46,03       | 156,49      | 46,95       | 159,62      | 47,89  | 162,81      | 48,84       | 166,06      |             |             |     |             |
|       | CC  | CC     | 302,46   | 972,93       | 308,51 | 992,39      | 314,68      | 1.012,24    | 320,97      | 1.032,48    | 327,39 | 1.053,13    | 333,94      | 1.074,19    |             |             |     |             |

**RIO SEVILLA TRAMO 2**

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO / INDUSTRIA) | CRONOCGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |             |              |             |              |             |              |             |              |             |             |             |
|-------|--|---|--------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
|       |  | LINEA BASE                                    |        | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |             |
|       |  | DBO5  | SST    | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |             |             |
|       |  | CC  | Kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |
|       | FINCA BELLA ESPERANZA (EMPRESANCOOP)                         | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA SAN JUDAS Y MARIA PAULA (EMPRESANCOOP)                 | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA LA TAL 1   | 38  | 64     | 39,02        | 64,83       | 39,80        | 66,13       | 40,59        | 67,45       | 41,40        | 68,80       | 42,23        | 70,18       | 42,23       | 70,18       |
|       | FINCA BELLEZA NORTE 1 Y 2 (EMPRESANCOOP)                     | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA GOLONDRINA NUEVA (BANEX S.A.)                          | 49  | 70     | 49,98        | 71,04       | 50,98        | 72,46       | 52,00        | 73,91       | 53,04        | 75,39       | 54,10        | 76,90       | 54,10       | 76,90       |
|       | FINCA RAQUELITA (AGROTAIRONA S.A.)                           | 8,49  | 21,22  | 8,66         | 21,64       | 8,83         | 22,08       | 9,01         | 22,52       | 9,19         | 22,97       | 9,37         | 23,43       | 9,37        | 23,43       |
|       | FINCA VICTORIA 3 (EMPRESANCOOP)                              | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA ESPERANZA N° 2 (EMPRESANCOOP)                          | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA SANTA ANA N° 2 (EMPRESANCOOP)                          | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA MIRADA (EMPRESANCOOP)                                  | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA LA ILUSION (EMPRESANCOOP)                              | 31,79   | 72,58  | 32,43        | 74,03       | 33,07        | 75,51       | 33,74        | 77,02       | 34,41        | 78,56       | 35,10        | 80,13       | 35,10       | 80,13       |
|       | FINCA LA JULIANA (COOPAFRIO)                                 | 3,78  | 16,96  | 3,86         | 17,30       | 3,93         | 17,65       | 4,01         | 18,00       | 4,09         | 18,36       | 4,17         | 18,73       | 4,17        | 18,73       |
|       | FINCA DIVINA DEL SOCORRO (EMPRESANCOOP)                      | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA OLGA (TECBACO)   | 124,36  | 568,16 | 48,00        | 108,00      | 48,00        | 108,00      | 48,00        | 108,00      | 48,00        | 108,00      | 48,00        | 108,00      | 48,00       | 108,00      |
|       | FINCA BELLA MARIA(EMPRESANCOOP)                              | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | FINCA SANTA ISABEL (COOPAFRIO)                               | 16,59   | 56,4   | 16,92        | 57,53       | 17,25        | 58,68       | 17,61        | 59,85       | 17,96        | 61,05       | 18,32        | 62,27       | 18,32       | 62,27       |
|       | FINCA VEGA CABALLERO   | 259   | 3.172  | 264,48       | 3.235,30    | 268,77       | 3.300,00    | 275,16       | 3.366,00    | 280,66       | 3.433,32    | 286,26       | 3.501,99    | 286,26      | 3.501,99    |
|       | FINCA CARMEN 100   | 22,2  | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       | 24,51       | 83,03       |
|       | DON MARCE SUR (TECBACO)                                      | 98,22   | 161    | 72,00        | 180,00      | 72,00        | 170,00      | 72,00        | 160,00      | 72,00        | 150,00      | 72,00        | 150,00      | 72,00       | 150,00      |

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NIT. 800.099.287-4

| TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |             |             |              |             |             |              |             |             |              |             |             |              |             |             |             |
|-------|---|--|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|
|       |   | AÑO 1 - 2018                                 |             |             | AÑO 2 - 2019 |             |             | AÑO 3 - 2020 |             |             | AÑO 4 - 2021 |             |             | AÑO 5 - 2022 |             |             |             |
|       |   | DBO5   | SST         | CC          | DBO5         | SST         | CC          | DBO5         | SST         | CC          | DBO5         | SST         | CC          | DBO5         | SST         | DBO5        | SST         |
|       |   | Kg/año                                       | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año  | META kg/año | META kg/año | META kg/año |
|       | FINCA GOLONDRINA VIEJA (EDUARDO DIAZGRANADOS)                 | 21,54  | 41,97       | 21,97       | 42,81        | 22,41       | 43,67       | 22,86        | 44,54       | 23,32       | 45,43        | 23,78       | 46,34       |              |             |             |             |
|       | FINCA ARACELIS 1 Y 2 (EMPRESANCCOOP)                          | 22,2   | 75,2        | 22,64       | 76,70        | 23,10       | 78,24       | 23,56        | 79,80       | 24,03       | 81,40        | 24,51       | 83,03       |              |             |             |             |
|       | FINCA CIENAGA (TECBACO)                                       | 42,92  | 3,739       | 36,00       | 96,00        | 36,00       | 96,00       | 36,00        | 96,00       | 36,00       | 96,00        | 36,00       | 96,00       |              |             |             |             |
|       | FINCA TERESA (TECBACO)  | 328,49                                       | 427,16      | 84          | 216          | 84          | 216         | 84           | 216         | 84          | 216          | 84          | 216         |              |             |             |             |
|       | FINCA PALMIRA (TECBACO)                                       | 122,33                                       | 71,54       | 24          | 48           | 24          | 48          | 24           | 48          | 24          | 48           | 24          | 48          |              |             |             |             |
|       | FINCA RECUERDO 1 (BANAPALMA)                                  | 5,36   | 13,41       | 5,47        | 13,68        | 5,56        | 13,95       | 5,69         | 14,23       | 5,80        | 14,52        | 5,92        | 14,81       |              |             |             |             |
|       | FINCA BONANZA (JOMACAVI S.A.S)                                | 32,19  | 43,66       | 32,83       | 44,55        | 33,49       | 45,44       | 34,16        | 46,35       | 34,84       | 47,28        | 35,54       | 48,23       |              |             |             |             |
|       | FINCA MARIA TERESA (BANAPALMA)                                | 117,94                                       | 646,33      | 120,30      | 659,26       | 122,70      | 672,44      | 125,16       | 685,89      | 127,66      | 699,61       | 130,22      | 713,60      |              |             |             |             |
|       | FINCA CECILIA (BANAPALMA)                                     | 36,93  | 100,82      | 37,67       | 102,84       | 38,42       | 104,89      | 39,19        | 106,99      | 39,97       | 109,13       | 40,77       | 111,31      |              |             |             |             |
|       | FINCA BETHEL (EMPRESANCCOOP)                                  | 22,2   | 75,2        | 22,64       | 76,70        | 23,10       | 78,24       | 23,56        | 79,80       | 24,03       | 81,40        | 24,51       | 83,03       |              |             |             |             |
|       | FINCA NUEVO MACONDO (BANAFRUCOOP)                             | 22,2   | 75,2        | 22,64       | 76,70        | 23,10       | 78,24       | 23,56        | 79,80       | 24,03       | 81,40        | 24,51       | 83,03       |              |             |             |             |
|       | EXTRACTORA LA BELLA SAS                                       | 2082,931 <sup>2</sup>                        | 1881,4      | 2.124,59    | 1.919,03     | 2.167,08    | 1.957,41    | 2.210,42     | 1.996,56    | 2.254,63    | 2.036,48     | 2.299,72    | 2.077,22    |              |             |             |             |
|       | FINCA LA ENVIDIA (BANAFRUCOOP)                                | 22,2   | 75,2        | 22,64       | 76,70        | 23,10       | 78,24       | 23,56        | 79,80       | 24,03       | 81,40        | 24,51       | 83,03       |              |             |             |             |
|       | FINCA MAYE MARIA (EMPRESANCCOOP)                              | 22,2   | 75,2        | 22,64       | 76,70        | 23,10       | 78,24       | 23,56        | 79,80       | 24,03       | 81,40        | 24,51       | 83,03       |              |             |             |             |
|       | FINCA PUERTO RICO (COBANA S.A.)                               | 111,4  | 177         | 113,63      | 180,94       | 115,90      | 184,56      | 118,22       | 188,25      | 120,58      | 192,01       | 122,96      | 195,85      |              |             |             |             |
|       | FINCA COSTANERA (AGROMAYOR)                                   | 5,48   | 13,72       | 5,60        | 13,99        | 5,71        | 14,27       | 5,83         | 14,56       | 5,94        | 14,85        | 6,06        | 15,15       |              |             |             |             |
|       | FINCA TROPICANA (AGROMAYOR S.A.)                              | 9,38   | 116,11      | 9,57        | 118,43       | 9,76        | 120,80      | 9,95         | 123,22      | 10,15       | 125,68       | 10,36       | 128,19      |              |             |             |             |
|       | FINCA LA MARIA (AGROMAYOR)                                    | 9,39   | 18,26       | 9,58        | 18,63        | 9,77        | 19,00       | 9,96         | 19,38       | 10,16       | 19,77        | 10,37       | 20,16       |              |             |             |             |
|       | FINCA LA TAL 2 (INVERSIONES PEGASO)                           | 140  | 288         | 143,07      | 293,97       | 145,93      | 299,85      | 148,85       | 305,85      | 151,82      | 311,97       | 154,86      | 318,21      |              |             |             |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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|---|--|--------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--|--|
|   | LINEA BASE                                   |        | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |  |  |
|   | DBO5   | SST    | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |  |  |
|   | CC   | CC     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |  |  |
|   | Kg/año                                       | Kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |  |  |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) |  |        |              |             |              |             |              |             |              |             |              |             |  |  |
| FINCA LA YAMILE ( EMPREBANCCOOP)                              | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA EUFEMIA DOLORES (TECBACO)                               | 189.21                                       | 423    | 84.00        | 204.00      | 84.00        | 204.00      | 84.00        | 204.00      | 84.00        | 204.00      | 84.00        | 204.00      |  |  |
| FINCA PRINCIPIO ( EMPREBANCCOOP)                              | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA SINAI (COBANA S.A.)                                     | 57.74  | 167.24 | 58.89        | 170.59      | 60.07        | 174.00      | 61.27        | 177.48      | 62.50        | 181.03      | 63.75        | 184.65      |  |  |
| FINCA PORVENIR 3 Y 4 ( EMPREBANCCOOP)                         | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA DILIA ESTHER (BANEX S.A.)                               | 282.18                                       | 707    | 287.82       | 720.81      | 293.58       | 735.23      | 299.45       | 749.93      | 305.44       | 764.93      | 311.55       | 780.23      |  |  |
| FINCA TAMACARA (BANEX S.A.)                                   | 48.09  | 569    | 49.05        | 580.43      | 50.03        | 592.04      | 51.03        | 603.88      | 52.05        | 615.96      | 53.10        | 628.28      |  |  |
| FINCA MARYURIS ( EMPREBANCCOOP)                               | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA VICTORIA 2 (BANAFRUCOOP)                                | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA LA MATILDE (BANAFRUCOOP)                                | 48.11  | 60     | 49.07        | 61.20       | 50.05        | 62.42       | 51.05        | 63.67       | 52.08        | 64.95       | 53.12        | 66.24       |  |  |
| FINCA VILLA MERCEDES (BANAFRUCOOP)                            | 49.77  | 60     | 50.77        | 61.20       | 51.78        | 62.42       | 52.82        | 63.67       | 53.87        | 64.95       | 54.95        | 66.24       |  |  |
| FINCA MIS ESFUERZOS (BANAFRUCOOP)                             | 12.54  | 39.89  | 12.79        | 40.69       | 13.05        | 41.50       | 13.31        | 42.33       | 13.57        | 43.18       | 13.85        | 44.04       |  |  |
| FINCA FLORIDA SAN PEDRO (BANEX S.A.)                          | 167.96                                       | 574    | 171.32       | 585.08      | 174.75       | 596.76      | 178.24       | 608.70      | 181.81       | 620.87      | 185.44       | 633.29      |  |  |
| FINCA LORENA ( EMPREBANCCOOP)                                 | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA ELIZABETH CRISTINA(OLMES DE JESUS)                      | 129.06                                       | 1.117  | 131.64       | 1.138.58    | 134.27       | 1.161.76    | 136.96       | 1.185.00    | 139.70       | 1.208.70    | 142.46       | 1.232.87    |  |  |
| FINCA LA VICTORIA (COBAMAG)                                   | 4.95   | 422.78 | 5.05         | 431.24      | 5.15         | 439.86      | 5.25         | 448.66      | 5.36         | 457.63      | 5.47         | 466.78      |  |  |
| FINCA DON SAID 2 (TECBACO)                                    | 922  | 814    | 940.61       | 829.95      | 959.43       | 846.55      | 978.61       | 863.48      | 898.19       | 880.75      | 1.018.15     | 898.37      |  |  |
| FINCA ROSIRIS (EMPREBANCCOOP)                                 | 22.2   | 75.2   | 22.64        | 76.70       | 23.10        | 78.24       | 23.56        | 79.80       | 24.03        | 81.40       | 24.51        | 83.03       |  |  |
| FINCA UNION 2 (PRUDENCIA NUÑEZ)                               | 34.47  | 82.08  | 35.16        | 83.72       | 35.85        | 85.40       | 36.58        | 87.10       | 37.31        | 88.85       | 38.06        | 90.62       |  |  |

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| TRAMO   | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |        |                  |             |                  |             |                  |             |                  |             |                  |             |
|---|--|--------|--------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
|   | LINEA BASE                                   |        |        | AÑO 1 - 2018     |             | AÑO 2 - 2019     |             | AÑO 3 - 2020     |             | AÑO 4 - 2021     |             | AÑO 5 - 2022     |             |
|   | DBO <sub>5</sub>                             | SST    | Kg/año | DBO <sub>5</sub> | SST         | DBO <sub>5</sub> | SST         | DBO <sub>5</sub> | SST         | DBO <sub>5</sub> | SST         | DBO <sub>5</sub> | SST         |
| USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CC   | CC     | Kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año |
| FINCA SANTA MARTA 3 (EMPRESANCOOP)                            | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA DENYS ESTHER  | 1,76   | 42,32  | 1,80   | 43,17            | 1,83        | 44,03            | 1,87        | 44,91            | 1,91        | 45,81            | 1,94        | 46,72            | 46,72       |
| FINCA DELICIAS (EMPRESANCOOP)                                 | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA PARATE BIEN (COOBAMAG)                                  | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA LA FE (COOBAMAG)  | 1,17   | 5,85   | 1,19   | 5,97             | 1,22        | 6,09             | 1,24        | 6,21             | 1,27        | 6,33             | 1,29        | 6,46             | 6,46        |
| FINCA LOLITA (COOBAMAG)                                       | 111,97                                       | 87,09  | 114,21 | 88,83            | 116,49      | 90,61            | 118,82      | 92,42            | 121,20      | 94,27            | 123,62      | 96,15            | 96,15       |
| FINCA LOLA (COOBAMAG)   | 10,44  | 35,41  | 10,65  | 36,12            | 10,86       | 36,84            | 11,08       | 37,58            | 11,30       | 38,33            | 11,53       | 39,10            | 39,10       |
| FINCA ELVIRA N°2 (COOBAMAG)                                   | 7,58   | 37,88  | 7,73   | 38,64            | 7,89        | 39,41            | 8,04        | 40,20            | 8,20        | 41,00            | 8,37        | 41,82            | 41,82       |
| FINCA CARMENCITA (COOBAMAG)                                   | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA LA LOLA N°2 (COOBAMAG)                                  | 2,44   | 11,39  | 2,49   | 11,62            | 2,54        | 11,85            | 2,59        | 12,09            | 2,64        | 12,33            | 2,69        | 12,58            | 12,58       |
| FINCA LA FORTALEZA (COOBAMAG)                                 | 25,79  | 128,94 | 26,31  | 131,52           | 26,83       | 134,15           | 27,37       | 136,83           | 27,92       | 139,57           | 28,47       | 142,36           | 142,36      |
| FINCA PILOTO (CLS S.A.S)                                      | 20,82  | 50,76  | 21,24  | 51,80            | 21,66       | 52,83            | 22,09       | 53,89            | 22,54       | 54,97            | 22,99       | 56,07            | 56,07       |
| FINCA LA YINA (EMPRESANCOOP)                                  | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA HERMANOS GUERRA (COOBAMAG)                              | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA SANTA MARTA 6 Y 7 (EMPRESANCOOP)                        | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |
| FINCA LA FE DE DIOS (COOBAMAG)                                | 7,53   | 17,28  | 7,68   | 17,63            | 7,83        | 17,98            | 7,99        | 18,34            | 8,15        | 18,70            | 8,31        | 19,08            | 19,08       |
| FINCA SAN VICENTE (COOBAMAG)                                  | 8,52   | 42,56  | 8,69   | 43,43            | 8,86        | 44,30            | 9,04        | 45,19            | 9,22        | 46,09            | 9,41        | 47,01            | 47,01       |
| FINCA LA MUÑE (COOBAMAG)                                      | 9,46   | 23,71  | 9,65   | 24,18            | 9,84        | 24,67            | 10,04       | 25,16            | 10,24       | 25,66            | 10,44       | 26,16            | 26,16       |
| FINCA LA FRANCISCA (TECBACO)                                  | 102  | 290    | 60,00  | 144,00           | 60,00       | 144,00           | 60,00       | 144,00           | 60,00       | 144,00           | 60,00       | 144,00           | 144,00      |
| FINCA VIRGINIA GRANDE Y VIRGINIA NUEVA                        | 22,2   | 75,2   | 22,64  | 76,70            | 23,10       | 78,24            | 23,56       | 79,80            | 24,03       | 81,40            | 24,51       | 83,03            | 83,03       |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
**NIT. 800.099.287-4**

| TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOCGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |             |              |             |              |             |              |             |              |             |             |
|-------|---|---|----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|
|       |   | LINEA BASE                                    |          | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |             |
|       |   | DBO5  | SST      | CC           | DBO5        | SST          | DBO5        | SST          | DBO5        | SST          | DBO5        | SST          | DBO5        | SST         |
|       |   | Kg/año  | Kg/año   | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año |
|       | (EMPRESANCOOP)  |   |          |              |             |              |             |              |             |              |             |              |             |             |
|       | FINCA EL COMIENZO (COOBAMAG)                                  | 1,92  | 19,75    | 1,96         | 20,15       | 2,00         | 20,55       | 2,04         | 20,96       | 2,08         | 21,38       | 2,12         | 21,81       |             |
|       | FINCA LA SUCITADA (COOBAMAG)                                  | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | FINCA LA SUERTE N° 2 (COOBAMAG)                               | 2,53  | 12,85    | 2,58         | 13,11       | 2,63         | 13,37       | 2,68         | 13,64       | 2,74         | 13,91       | 2,79         | 14,19       |             |
|       | JUAN MIGUEL DE VENGOCHEA MENDEZ MIGUEL (SANTA MARIA)          | 111,06  | 58,31    | 113,28       | 59,48       | 115,55       | 60,67       | 117,86       | 61,88       | 120,21       | 63,12       | 122,62       | 64,38       |             |
|       | EL MAMON (BANAFRUCOOP)  | 185,94  | 527,4    | 169,26       | 537,95      | 172,84       | 548,71      | 176,10       | 559,68      | 179,62       | 570,87      | 183,21       | 582,29      |             |
|       | MARGARITA DE HERRERA (MERCEDES 1)                             | 62,208  | 46,1     | 63,45        | 47,02       | 64,72        | 47,96       | 66,02        | 48,92       | 67,34        | 49,90       | 68,68        | 50,90       |             |
|       | FINCA LA YUDIS (EMPRESANCOOP)                                 | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | FINCA PARAISO N° 3 (COOBAMAG)                                 | 9,25  | 76,66    | 9,44         | 78,19       | 9,62         | 79,76       | 9,82         | 81,35       | 10,01        | 82,98       | 10,21        | 84,64       |             |
|       | FINCA EL CARMEN (COOBAMAG)                                    | 25,24   | 9,06     | 25,74        | 9,24        | 26,26        | 9,43        | 26,78        | 9,61        | 27,32        | 9,81        | 27,87        | 10,00       |             |
|       | FINCA LA SUERTE (COOBAMAG)                                    | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | FINCA HERMANOS MORILLO  | 3,02  | 6,35     | 3,08         | 6,48        | 3,14         | 6,61        | 3,20         | 6,74        | 3,27         | 6,87        | 3,33         | 7,01        |             |
|       | INVERSIONES INTERNACIONALES INVERTEL LTDA (LA MARGOTH)        | 301,0176                                      | 1338,854 | 307,04       | 1.365,63    | 313,18       | 1.392,94    | 319,44       | 1.420,80    | 325,83       | 1.449,22    | 332,35       | 1.478,20    |             |
|       | FINCA LA JOSEFA #4,2 Y LA GLORIA DE DIOS (COOBAMAG)           | 2,55  | 13,05    | 2,60         | 13,31       | 2,65         | 13,58       | 2,71         | 13,85       | 2,76         | 14,13       | 2,82         | 14,41       |             |
|       | FINCA LA AMADA (EMPRESANCOOP)                                 | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | FINCA LA LUCHA (SANTIAGO VIVES)                               | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | FINCA ELENA (EMPRESANCOOP)                                    | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |
|       | INVERSIONES NASARA S.A.S. (DOÑA ZAINÉ)                        | 19,7  | 107,47   | 19,7         | 107,47      | 19,7         | 107,47      | 19,7         | 107,47      | 19,7         | 107,47      | 19,7         | 107,47      |             |
|       | FINCA NABUSIMAKE (SANTIAGO VIVES)                             | 22,2  | 75,2     | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |             |

**RIO SEVILLA TRAMO 2**

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|-------|---|--|--------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
|       |   | LINEA BASE                                   |        | AÑO 1 - 2018 |           | AÑO 2 - 2019 |           | AÑO 3 - 2020 |           | AÑO 4 - 2021 |           | AÑO 5 - 2022 |           |
|       |   | DBO5   | SST    | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       |
|       |   | 10,13  | 54,83  | 10,33        | 55,93     | 10,54        | 57,05     | 10,75        | 58,19     | 10,97        | 59,35     | 11,18        | 60,54     |
|       | FINCA DIOS PARA TODOS (COOBAMAG)                              |  |        |              |           |              |           |              |           |              |           |              |           |
|       |   | 11,908                                       | 36,006 | 10,891,78    | 31,086,11 | 10,895,38    | 31,671,92 | 11,103,05    | 32,269,65 | 11,314,88    | 32,879,53 | 11,530,94    | 33,511,82 |
|       | <b>TOTAL CARGA TRAMO 2 RIO SEVILLA</b>                        |  |        |              |           |              |           |              |           |              |           |              |           |

| TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |       |              |       |              |       |              |       |              |       |              |       |
|-------|---|--|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
|       |   | LINEA BASE                                   |       | AÑO 1 - 2018 |       | AÑO 2 - 2019 |       | AÑO 3 - 2020 |       | AÑO 4 - 2021 |       | AÑO 5 - 2022 |       |
|       |   | DBO5   | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   |
|       |   | 10,12  | 8,1   | 10,32        | 8,26  | 10,53        | 8,43  | 10,74        | 8,60  | 10,95        | 8,77  | 11,17        | 8,94  |
|       | FINCA HERMANOS ROMERO (COOBAMAG)                              |  |       |              |       |              |       |              |       |              |       |              |       |
|       | FINCA CARTAGENA (ASOBANARCOOP)                                | 49,77  | 41,47 | 50,77        | 42,30 | 51,78        | 43,15 | 52,82        | 44,01 | 53,87        | 44,89 | 54,95        | 45,79 |
|       | FINCA SAN JOSE (BANAFRUCOOP)                                  | 22,2   | 75,2  | 22,64        | 76,70 | 23,10        | 78,24 | 23,56        | 79,80 | 24,03        | 81,40 | 24,51        | 83,03 |
|       | FINCA ESPAÑOLA N°1 (EMPREBANCOOP)                             | 22,2   | 75,2  | 22,64        | 76,70 | 23,10        | 78,24 | 23,56        | 79,80 | 24,03        | 81,40 | 24,51        | 83,03 |
|       | <b>RIO SEVILLA TRAMO 3</b>                                    |  |       |              |       |              |       |              |       |              |       |              |       |

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CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022

| TRAMO                                  | USUARIO APORTANTE DE CARGAS VIRTUALES (MUNICIPIO/ INDUSTRIAL) | LINEA BASE |        | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
|--|---|------------|--------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|  |   | DBOS       | SST    | DBOs         | SST         | DBOs         | SST         | DBOs         | SST         | DBOs         | SST         | DBOs         | SST         |
|  |   | Kg/año     | Kg/año | META Kg/año  | META Kg/año | META Kg/año  | META Kg/año | META Kg/año  | META Kg/año | META Kg/año  | META Kg/año | META Kg/año  | META Kg/año |
| RIO SEVILLA TRAMO 3                    | FINCA SAN JOSE (EMPREBANCOOP)                                 | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA LA FRANCIA (BANAFRUCOOP)                                | 48,11      | 17,54  | 49,07        | 17,89       | 50,05        | 18,25       | 51,05        | 18,61       | 52,08        | 18,99       | 53,12        | 19,37       |
|  | FINCA NO HAY COMO DIOS (EMPREBANCOOP)                         | 6,72       | 37,65  | 6,85         | 38,40       | 6,99         | 39,17       | 7,13         | 39,95       | 7,27         | 40,75       | 7,42         | 41,57       |
|  | FINCA MINERVA (COOBAFRIO)                                     | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA ROSA MARGARITA (BANAFRUCOOP)                            | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA EL JORDAN (BANAFRUCOOP)                                 | 88,36      | 120,42 | 90,13        | 122,93      | 91,93        | 125,28      | 93,77        | 127,79      | 95,64        | 130,35      | 97,56        | 132,95      |
|  | FINCA MILAGROSA 2 (LEONIDAS JIMENEZ)                          | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA FELICIANA (ASOBANARCOOP)                                | 23,27      | 19,23  | 23,74        | 19,61       | 24,21        | 20,01       | 24,69        | 20,41       | 25,19        | 20,82       | 25,69        | 21,23       |
|  | FINCA VILLA CAROLINA (COOBAMAG)                               | 6,52       | 32,62  | 6,65         | 33,27       | 6,78         | 33,94       | 6,92         | 34,62       | 7,06         | 35,31       | 7,20         | 36,02       |
|  | FINCA LA KELLY (EMPREBANCOOP)                                 | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA NUEVA IDEA (COOBAMAG)                                   | 8,9        | 44,52  | 9,08         | 45,41       | 9,26         | 46,32       | 9,44         | 47,24       | 9,63         | 48,19       | 9,83         | 49,15       |
|  | FINCA LA YOLI (EMPREBANCOOP)                                  | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA VILLA MONICA (COOBAMAG)                                 | 4,83       | 22,55  | 4,93         | 23,00       | 5,03         | 23,46       | 5,13         | 23,93       | 5,23         | 24,41       | 5,33         | 24,90       |
|  | FINCA MONICA (EMPREBANCOOP)                                   | 22,2       | 75,2   | 22,64        | 76,70       | 23,10        | 78,24       | 23,56        | 79,80       | 24,03        | 81,40       | 24,51        | 83,03       |
|  | FINCA LA INESITA (COOBAMAG)                                   | 1,61       | 34,39  | 1,64         | 35,08       | 1,68         | 35,78       | 1,71         | 36,49       | 1,74         | 37,22       | 1,78         | 37,97       |
| FINCA MILONGA Y LA MAVE (EMPREBANCOOP) | 1,61  | 34,39      | 1,64   | 35,08        | 1,68        | 35,78        | 1,71        | 36,49        | 1,74        | 37,22        | 1,78        | 37,97        |             |

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|---------------------|---|---|--------|--------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|
|                     |   | LINEA BASE                                    |        | AÑO 1 - 2018 |             | AÑO 2 - 2019     |             | AÑO 3 - 2020     |             | AÑO 4 - 2021     |             | AÑO 5 - 2022     |             |                  |
|                     |   | DBO <sub>s</sub>                              | SST    | CC           | CC          | DBC <sub>s</sub> | SST         | DBO <sub>s</sub> | SST         | DBO <sub>s</sub> | SST         | DBO <sub>s</sub> | SST         | DBO <sub>s</sub> |
|                     |   | Kg/año  | Kg/año | META kg/año  | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      | META kg/año | META kg/año      |
| RIO SEVILLA TRAMO 3 | FINCA VILLA ARIZONA (COOBAMAG)                                  | 5,18  | 25,83  | 5,28         | 26,40       | 5,39             | 26,93       | 5,50             | 27,46       | 5,61             | 28,01       | 5,72             | 28,57       |                  |
|                     | FINCA LA COQUETA (COOBAMAG)                                     | 8,98  | 193,38 | 9,16         | 197,25      | 9,34             | 201,19      | 9,53             | 205,22      | 9,72             | 209,32      | 9,91             | 213,51      |                  |
|                     | FINCA SANTA MONICA (COOBAMAG)                                   | 16,67   | 34,96  | 17,00        | 35,66       | 17,34            | 36,37       | 17,69            | 37,10       | 18,04            | 37,84       | 18,41            | 38,60       |                  |
|                     | FINCA AURA MARIA (COOBAMAG)                                     | 3,17  | 59,94  | 3,23         | 61,14       | 3,30             | 62,36       | 3,36             | 63,61       | 3,43             | 64,88       | 3,50             | 66,18       |                  |
|                     | FINCA LO QUE ME QUEDO (COOBAMAG)                                | 3,88  | 19,4   | 3,96         | 19,79       | 4,04             | 20,18       | 4,12             | 20,59       | 4,20             | 21,00       | 4,28             | 21,42       |                  |
|                     | FINCA LA ANGELINA (COOBAMAG)                                    | 3,02  | 15,12  | 3,08         | 15,42       | 3,14             | 15,73       | 3,20             | 16,05       | 3,27             | 16,37       | 3,33             | 16,69       |                  |
|                     | FINCA MI CONSUELO (COOBAMAG)                                    | 0,98  | 4,89   | 1,00         | 4,99        | 1,02             | 5,09        | 1,04             | 5,19        | 1,06             | 5,29        | 1,08             | 5,40        |                  |
|                     | FINCA EL ENCANTO (COOBAMAG)                                     | 2,03  | 10,16  | 2,07         | 10,36       | 2,11             | 10,57       | 2,15             | 10,78       | 2,20             | 11,00       | 2,24             | 11,22       |                  |
|                     | FINCA CARTAGENA DE INDIAS (EMPREBANCOOP)                        | 11,9  | 56,03  | 12,14        | 56,18       | 12,38            | 57,31       | 12,63            | 58,45       | 12,88            | 59,62       | 13,14            | 60,81       |                  |
|                     | FINCA LING DEL CARMEN (COOMULBANANO)                            | 6,83  | 17,07  | 6,97         | 17,41       | 7,11             | 17,76       | 7,25             | 18,11       | 7,39             | 18,48       | 7,54             | 18,85       |                  |
|                     | FINCA PELOTERA (COOMULBANANO)                                   | 6,83  | 17,07  | 6,97         | 17,41       | 7,11             | 17,76       | 7,25             | 18,11       | 7,39             | 18,48       | 7,54             | 18,85       |                  |
|                     | FINCA SONRISA 2 (COOMULBANANO)                                  | 6,83  | 17,07  | 6,97         | 17,41       | 7,11             | 17,76       | 7,25             | 18,11       | 7,39             | 18,48       | 7,54             | 18,85       |                  |
|                     | FINCA BOMBILLO (COOMULBANANO)                                   | 6,83  | 17,07  | 6,97         | 17,41       | 7,11             | 17,76       | 7,25             | 18,11       | 7,39             | 18,48       | 7,54             | 18,85       |                  |
|                     | FINCA LA PROSPERIDAD (COOMULBANANO)                             | 6,83  | 17,07  | 6,97         | 17,41       | 7,11             | 17,76       | 7,25             | 18,11       | 7,39             | 18,48       | 7,54             | 18,85       |                  |
|                     | FINCA LA CIENAGA (COOMULBANANO)                                 | 77,83   | 95,39  | 79,39        | 97,30       | 80,97            | 99,24       | 82,59            | 101,23      | 84,25            | 103,25      | 86,93            | 105,32      |                  |

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| TRAMO               | USUARIO APORTANTE DE CARGAS PUVITUALES (MUNICIPIO / INDUSTRIA) | LINEA BASE |        | AÑO 1 - 2018 |             | AÑO 2- 2019 |             | AÑO 3- 2020 |             | AÑO 4- 2021 |             | AÑO 5- 2022 |             |
|---------------------|--|------------|--------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                     |  | DBO5       | SST    | DBC5         | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         | DBO5        | SST         |
|                     |  | Kg/año     | Kg/año | META Kg/año  | META Kg/año | META Kg/año | META Kg/año | META Kg/año | META Kg/año | META Kg/año | META Kg/año | META Kg/año | META Kg/año |
|                     | FINCA LA SOFY (COOMULBANANO)                                   | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA BELLA NURIS (COOMULBANANO)                               | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA GUAIMARO (COOMULBANANO)                                  | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA VILLA LUDYS (COOMULBANANO)                               | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA LA BELLEZA (COOMULBANANO)                                | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA EDELMIRA (COOMULBANANO)                                  | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA EL TESORO (COOBAMAG)                                     | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
|                     | FINCA VICTORIA MARQUEZ (COOBAMAG)                              | 53,3       | 166,05 | 54,37        | 169,37      | 55,45       | 172,76      | 56,56       | 176,21      | 57,69       | 179,74      | 58,85       | 183,33      |
|                     | FINCA VIL LA ESPERANZA (COOBAMAG)                              | 14,4       | 43,93  | 14,69        | 44,23       | 14,98       | 45,11       | 15,28       | 46,01       | 15,59       | 46,93       | 15,90       | 47,87       |
|                     | FINCA ANA PAOLA (COOBAMAG)                                     | 3,36       | 6,18   | 3,43         | 6,30        | 3,50        | 6,43        | 3,57        | 6,56        | 3,64        | 6,69        | 3,71        | 6,82        |
|                     | FINCA ESPERANZA N°6 (COOBAMAG)                                 | 6,91       | 47,9   | 6,74         | 48,86       | 6,88        | 49,84       | 7,01        | 50,83       | 7,15        | 51,85       | 7,30        | 52,99       |
|                     | FINCA JOSEFINA MARIA TERESA (COMPANIA AGRICOLA GUERRERO LTDA)  | 50,6       | 101,27 | 51,61        | 103,30      | 52,64       | 105,36      | 53,70       | 107,47      | 54,77       | 109,62      | 55,87       | 111,81      |
|                     | FINCA SI DIOS QUIERE (ASOBANARCOOP)                            | 11,21      | 37,12  | 11,43        | 37,86       | 11,66       | 38,62       | 11,90       | 39,39       | 12,13       | 40,18       | 12,38       | 40,96       |
|                     | FINCA SAMIRA (COOBAFRI)  | 6,83       | 17,07  | 6,97         | 17,41       | 7,11        | 17,76       | 7,25        | 18,11       | 7,39        | 18,48       | 7,54        | 18,86       |
| RIO SEVILLA TRAMO 3 | FINCA PAOLA (ASOBANARCOOP)                                     | 55,3       | 41,47  | 56,41        | 42,30       | 57,53       | 43,15       | 58,68       | 44,01       | 59,86       | 44,89       | 61,06       | 45,79       |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

NIT. 800.099.287-4

| TRAMO                           | USUARIO APORTANTE DE CARGAS (MUNICIPIO / INDUSTRIAL) | LINEA BASE |         | AÑO 1 - 2018 |             | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
|---------------------------------|--|------------|---------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                                 |  | DBO5       | SST     | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |
|                                 |  | Kg/año     | Kg/año  | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año | META kg/año  | META kg/año |
| TOTAL CARGA TRAMO 3 RIO SEVILLA |  | 866,83     | 2269,14 | 884,17       | 2.314,52    | 901,95       | 2.360,81    | 919,89       | 2.408,03    | 936,28       | 2.456,19    | 957,05       | 2.505,31    |

| CUENCA                                       | TRAMO | USUARIO APORTANTE DE CARGAS (MUNICIPIO / INDUSTRIAL) | LINEA BASE |     | AÑO 1 - 2018 |     | AÑO 2 - 2019 |     | AÑO 3 - 2020 |     | AÑO 4 - 2021 |     | AÑO 5 - 2022 |     |
|--|-------|--|------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
|  |       |  | DBO5       | SST | DBO5         | SST | DBO5         | SST | DBO5         | SST | DBO5         | SST | DBO5         | SST |
|  |       |  | CC         | CC  | CC           | CC  | CC           | CC  | CC           | CC  | CC           | CC  | CC           | CC  |
| CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |       |  |            |     |              |     |              |     |              |     |              |     |              |     |

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| INDUSTRIA)                                      | Kg/año   | Kg/año   | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año | META kg/año |
|---|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| F. MAROMA (INVERSIONES MAROMA)                  | 988,416  | 1976,832 | 1008,184    | 2016,366    | 1028,348    | 2056,696    | 944,023     | 1888,047    | 818,468     | 1636,937    | 709,612     | 1419,224    |             |             |
| F. GUANDUSACA (INÉS M. VILLES LACOUTURE)        | 224,640  | 449,280  | 229,133     | 458,266     | 233,715     | 467,431     | 214,551     | 429,102     | 196,958     | 393,915     | 182,816     | 365,632     |             |             |
| P. EL TRIUNFO (JUAN DE LA CRUZ OSPINA)          | 1886,976 | 3773,952 | 1524,716    | 3849,431    | 1963,210    | 3926,420    | 2002,474    | 4004,948    | 1919,972    | 3839,944    | 1821,286    | 3642,571    |             |             |
| F. VILLA PAOLA (JOSE ALZATE)                    | 224,640  | 449,280  | 229,133     | 458,266     | 233,715     | 467,431     | 238,390     | 476,780     | 228,598     | 457,136     | 216,820     | 433,639     |             |             |
| VILLA NUEVA (RODRIGO TRASLARINA)                | 988,416  | 1976,832 | 1008,184    | 2016,366    | 1028,348    | 2056,696    | 944,023     | 1888,047    | 866,614     | 1733,227    | 804,391     | 1608,781    |             |             |
| BELLA VISTA (OTONIEL GIRALDO MEZA)              | 224,640  | 449,280  | 229,133     | 458,266     | 233,715     | 467,431     | 214,551     | 429,102     | 186,016     | 372,031     | 161,275     | 322,551     |             |             |
| SANTA ROSA (SIMON CABRALES)                     | 112,320  | 224,640  | 114,566     | 229,133     | 116,858     | 233,715     | 119,195     | 238,390     | 114,284     | 228,568     | 108,410     | 216,820     |             |             |
| F. LA REFORMA (IVAN PAVARES)                    | 112,320  | 224,640  | 114,566     | 229,133     | 116,858     | 233,715     | 119,195     | 238,390     | 114,284     | 228,568     | 108,410     | 216,820     |             |             |
| LOS LLRIOS (LUIS ERNESTO MOLLA CALA)            | 224,640  | 449,280  | 229,133     | 458,266     | 233,715     | 467,431     | 214,551     | 429,102     | 186,958     | 393,915     | 182,816     | 365,632     |             |             |
| BELLA VISTA (ARGEMIRO RUEBA VALDERRAMA)         | 539,136  | 1078,272 | 549,919     | 1099,837    | 560,917     | 1121,834    | 514,922     | 1029,844    | 472,698     | 945,397     | 438,759     | 877,517     |             |             |
| LA CRUZ UNO (ANTONIO DE JESUS DURAN RUIZ)       | 381,888  | 763,776  | 389,526     | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     |             |             |
| LA RIVERA (DALIDA RUIZ DE DURAN)                | 381,888  | 763,776  | 389,526     | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     |             |             |
| PORVENIR (ELADIO BARBOSA LOZANO)                | 381,888  | 763,776  | 389,526     | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     |             |             |
| BELLO HORIZONTE (JORGE ELECER RUEDA VALDERRAMA) | 381,888  | 763,776  | 389,526     | 779,052     | 397,316     | 794,633     | 405,263     | 810,525     | 388,566     | 777,132     | 368,594     | 737,187     |             |             |
| EL TESORO (JOSE MARIA EGUIS RODRIGUEZ)          | 718,848  | 1437,696 | 733,225     | 1466,450    | 747,889     | 1495,779    | 762,947     | 1525,694    | 622,483     | 1400,588    | 571,440     | 1285,739    |             |             |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO/ INDUSTRIA) | LINEA BASE |          | PROGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |          |              |          |
|--------|-------|--|------------|----------|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|        |       |  | DBOS       | SST      | AÑO 1 - 2018                               |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |
|        |       |  | CC         | CC       | DBOS                                       | SST      | DBOS         | SST      | DBOS         | SST      | DBOS         | SST      | DBOS         | SST      |
|        |       | EL ENCANTO   | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | (JOSE RESURRECCION SANCHEZ CANO)                             | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | EL JARDIN (OTONIEL DE JESUS GIRALDO MESA)                    | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | EL POTOSI (RAMIRO MARTINEZ BELTRAN)                          | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | EL PORVENIR (REINALDO PERILLA SUTACHA)                       | 381,888    | 763,776  | 389,526                                    | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132  | 368,594      | 737,187  |
|        |       | AMANEGER (CARLOS JULIO PEREZ ROA)                            | 381,888    | 763,776  | 389,526                                    | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132  | 368,594      | 737,187  |
|        |       | LA MILAGROSA (FELIX ANTONIO POLO AVILA)                      | 381,888    | 763,776  | 389,526                                    | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132  | 368,594      | 737,187  |
|        |       | LA ESPERANZAB (GUILERMO LEON VALENCIA RINCON)                | 381,888    | 763,776  | 389,526                                    | 779,052  | 397,316      | 794,633  | 405,263      | 810,525  | 388,566      | 777,132  | 368,594      | 737,187  |
|        |       | LA FORTUNA (HERMINDA GARCIA)                                 | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | LOTE EL ARENILLO (JOHANNA PADERNA CASTIBLANCO)               | 988,416    | 1976,832 | 1008,184                                   | 2016,368 | 1028,348     | 2056,696 | 944,023      | 1888,047 | 866,614      | 1733,227 | 904,391      | 1608,781 |
|        |       | TRAMO 01   | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |
|        |       | LA FLORIDA (LEONARDO)  | 539,136    | 1078,272 | 549,919                                    | 1099,837 | 560,917      | 1121,834 | 514,922      | 1029,844 | 472,698      | 945,397  | 438,759      | 877,517  |

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| CUEINCA  | TRAM<br>O | USUARIO<br>APORTANTE DE<br>CARGAS<br>(MUNICIPIO /<br>INDUSTRIA) | LÍNEA BASE |          | AÑO 1 - 2018   |                | AÑO 2- 2019    |                | AÑO 3- 2020    |                | AÑO 4- 2021    |                | AÑO 5- 2022    |                |
|----------|-----------|---|------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|          |           |   | DBO5       | SST      | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            |
|          |           |   | CC         | CC       | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año |
|          |           | JESUS GIRALDO   |            |          |                |                |                |                |                |                |                |                |                |                |
|          |           | EL PALMAR (LUIS FELIPE AVILA GOMEZ)                             | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|          |           | SAN ANTONIO (MARIA JOSEFINA CASTRO DE OSPINA)                   | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|          |           | LA MARINELA (MOISES DIAZ LEAL)                                  | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|          |           | LA PLATA (REINA RODRIGUEZ DE CASTIBLANCO)                       | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
|          |           | EL REFUGIO (RODRIGO TRASLAVINA SILVA)                           | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 448,437        | 892,875        | 387,061        | 774,122        |
|          |           | BUENOS AIRES (ROQUE JACINTO CAMPO DIAZ)                         | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 448,437        | 892,875        | 387,061        | 774,122        |
|          |           | LOS SAUCOS (SAMUEL ROJAS GARCIA)                                | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 448,437        | 892,875        | 387,061        | 774,122        |
|          |           | SANTA ROSA (SIMON CABRALES QUINTERO)                            | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 448,437        | 892,875        | 387,061        | 774,122        |
|          |           | LA ESPERANZA (WILSON MUÑOZ RODRIGUEZ)                           | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 448,437        | 892,875        | 387,061        | 774,122        |
|          |           | EL PARAISO (YANIRI PEREZ BERNAL)                                | 224,640    | 449,280  | 229,133        | 458,266        | 233,715        | 467,431        | 238,380        | 476,780        | 228,598        | 457,136        | 216,820        | 433,639        |
|          |           | LA LOMA (CARLO ALBERTO FAJARDO)                                 | 539,136    | 1078,272 | 549,919        | 1099,837       | 560,917        | 1121,834       | 514,922        | 1029,844       | 472,698        | 945,397        | 438,759        | 877,517        |
| RIO FRIO | TRAM O 1  | LA ESMERALDA (SANDRA)   | 224,640    | 449,280  | 19522,115      | 39044,229      | 19912,557      | 39825,114      | 18951,986      | 37903,973      | 17372,878      | 34901,377      | 19037,642      | 32218,143      |

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| CUENCA                       | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA / VASQUEZ) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |           |              |           |              |           |              |           |              |           |              |           |      |      |
|------------------------------|-------|---|--|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|------|------|
|                              |       |   | LINEA BASE                                   |           | AÑO 1 - 2018 |           | AÑO 2 - 2019 |           | AÑO 3 - 2020 |           | AÑO 4 - 2021 |           | AÑO 5 - 2022 |           |      |      |
|                              |       |   | DBO5   | SST       | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       | DBO5         | SST       |      |      |
|                              |       |   | Kg/año                                       | Kg/año    | META         | META      | META         | META      | META         | META      | META         | META      | META         | META      | META | META |
| TOTAL CARGA TRAMO 1 RIO FRIO |       |   | 19363,968                                    | 33727,936 | 39044,229    | 78088,458 | 39826,114    | 79650,227 | 37903,973    | 75807,945 | 34746,756    | 69802,755 | 32075,283    | 94436,287 |      |      |

| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |      |              |      |              |      |              |      |              |      |      |      |
|--------|-------|---|--|--------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|------|------|
|        |       |   | LINEA BASE                                   |        | AÑO 1 - 2018 |      | AÑO 2 - 2019 |      | AÑO 3 - 2020 |      | AÑO 4 - 2021 |      | AÑO 5 - 2022 |      |      |      |
|        |       |   | DBO5   | SST    | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  |      |      |
|        |       |   | Kg/año                                       | Kg/año | META         | META | META         | META | META         | META | META         | META | META         | META | META | META |

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|   |                                     | kg/año                         | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año | kg/año |
|---|-------------------------------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RIO FRIO  | FINCA ECCEHOMO (BANAFRUCOOP)        | 5,74                           | 28,98  | 5,85   | 29,25  | 5,97   | 29,84  | 6,09   | 30,44  | 6,21   | 31,04  | 6,34   | 31,87  |
|   | FINCA LA META (BANAFRUCOOP)         | 9,85                           | 82,78  | 10,05  | 94,44  | 10,25  | 86,12  | 10,45  | 87,85  | 10,66  | 89,60  | 10,89  | 91,40  |
|   | FINCA UNION BS (BANAFRUCOOP)        | 7,87                           | 15,75  | 8,03   | 16,07  | 8,19   | 16,39  | 8,35   | 16,71  | 8,52   | 17,05  | 8,66   | 17,39  |
|   | FINCA LA BETSY (BANAFRUCOOP)        | 6,83                           | 17,07  | 6,97   | 17,41  | 7,11   | 17,76  | 7,25   | 18,11  | 7,39   | 18,48  | 7,54   | 18,85  |
|   | FINCA MINA Y RECUERDO (BANAFRUCOOP) | 7,67                           | 36,36  | 7,82   | 39,12  | 7,98   | 39,90  | 8,14   | 40,70  | 8,30   | 41,51  | 8,47   | 42,34  |
|   | FINCA AURA ROSA (EMPRESANCOOP)      | 6,83                           | 17,07  | 6,97   | 17,41  | 7,11   | 17,76  | 7,25   | 18,11  | 7,39   | 18,48  | 7,54   | 18,85  |
|   | FINCA LA PALMIRA (BANAFRUCOOP)      | 6,83                           | 17,07  | 6,97   | 17,41  | 7,11   | 17,76  | 7,25   | 18,11  | 7,39   | 18,48  | 7,54   | 18,85  |
|   | FINCA MARIA CAMILA 1 (BANAFRUCOOP)  | 51,43                          | 60     | 52,46  | 61,20  | 53,51  | 62,42  | 54,58  | 63,67  | 55,67  | 64,95  | 56,78  | 66,24  |
|   | FINCA JARDIN (BANAFRUCOOP)          | 14,7                           | 73,51  | 14,99  | 74,98  | 15,29  | 76,48  | 15,60  | 78,01  | 15,91  | 79,57  | 16,23  | 81,16  |
|   | FINCA DON SALEH (TECBACO)           | 257,53                         | 292,68 | 48,00  | 108,00 | 48,00  | 108,00 | 48,00  | 108,00 | 48,00  | 108,00 | 48,00  | 108,00 |
|   | FINCA SAMARIA (MARTIZA CAMPO)       | 72,66                          | 99,04  | 74,11  | 101,02 | 75,60  | 103,04 | 77,11  | 105,10 | 78,65  | 107,23 | 80,22  | 109,35 |
|   | RIO FRIO                            | FINCA EL SOCORRO (BANAFRUCOOP) | 46,66  | 60     | 47,59  | 61,20  | 48,55  | 62,42  | 49,52  | 63,67  | 50,51  | 64,95  | 51,52  |
| FINCA RECUERDO DE KAREN (BANAFRUCOOP)           |                                     | 6,83                           | 17,07  | 6,97   | 17,41  | 7,11   | 17,76  | 7,25   | 18,11  | 7,39   | 18,48  | 7,54   | 18,85  |
| FINCA ASUNCION (TECBACO)                        |                                     | 61,33                          | 397,40 | 103,00 | 400,00 | 92,00  | 390,00 | 83,00  | 380,00 | 73,00  | 360,00 | 60,00  | 380,00 |
| FINCA EL LAUREL (BANAFRUCOOP)                   |                                     | 16,69                          | 178,62 | 17,02  | 182,19 | 17,36  | 185,84 | 17,71  | 189,56 | 18,07  | 193,34 | 18,43  | 197,21 |
| FINCA EL MAMÓN (BANAFRUCOOP)                    |                                     | 165,94                         | 527,74 | 169,26 | 538,29 | 172,64 | 549,06 | 176,10 | 560,04 | 179,62 | 571,24 | 183,21 | 582,67 |
| BOLANO ENNIS ALBERTO MARIO ENNIS (LAS MERCEDES) |                                     | 38,619                         | 219,52 | 39,39  | 223,91 | 40,18  | 228,39 | 40,98  | 232,96 | 41,80  | 237,62 | 42,64  | 242,37 |
| FINCA DIVINO NIÑO (BANAFRUCOOP)                 |                                     | 8,35                           | 34,56  | 8,52   | 35,24  | 8,69   | 35,95  | 8,86   | 36,66  | 9,04   | 37,40  | 9,22   | 38,15  |
| FINCA EVA LUNA Y EL AMPARO (BANAFRUCOOP)        |                                     | 18,41                          | 50,7   | 18,78  | 51,71  | 19,15  | 52,75  | 19,54  | 53,80  | 19,93  | 54,88  | 20,33  | 55,98  |
| FINCA SAN AGATON (BANAFRUCOOP)                  |                                     | 6,67                           | 77,35  | 6,80   | 78,90  | 6,94   | 80,47  | 7,08   | 82,08  | 7,22   | 83,73  | 7,36   | 85,40  |
| FINCA SILVIA ESMERALDA (BANAFRUCOOP)            |                                     | 6,83                           | 17,07  | 6,97   | 17,41  | 7,11   | 17,76  | 7,25   | 18,11  | 7,39   | 18,48  | 7,54   | 18,85  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA<br>A | TRAMO<br>O 2 | USUARIO A PORTANTE DE<br>CARGAS PUNTUALES<br>(MUNICIPIO / INDUSTRIA)   | LINEA BASE |                | CRONOCRAMA DE CARGAS CONTAMINANTES 2013-2022 |                |                |                |                |                |                |                |                |                |
|-------------|--------------|--|------------|----------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|             |              |  | DBO5       | SST            | AÑO 1 - 2018                                 |                | AÑO 2 - 2019   |                | AÑO 3 - 2020   |                | AÑO 4 - 2021   |                | AÑO 5 - 2022   |                |
|             |              |  | CC         | CC             | DBO5   | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            | DBO5           | SST            |
|             |              | Kg/año   | Kg/año     | META<br>kg/año | META<br>kg/año                               | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año | META<br>kg/año |
|             |              | FINCA AMPARO 1<br>(BANAFRUCCOP)  | 6,83       | 17,07          | 6,97   | 17,41          | 7,11           | 17,76          | 7,25           | 18,11          | 7,39           | 18,48          | 7,54           | 18,85          |
|             |              | FINCA DOLORES<br>(BANAFRUCCOP)   | 6,83       | 17,07          | 6,97   | 17,41          | 7,11           | 17,76          | 7,25           | 18,11          | 7,39           | 18,48          | 7,54           | 18,85          |
|             |              | FINCA MILAGROSA 3<br>(BANAFRUCCOP)                                     | 11,43      | 76,94          | 11,66  | 78,17          | 11,89          | 79,74          | 12,13          | 81,33          | 12,37          | 82,96          | 12,62          | 84,62          |
|             |              | FINCA LOS OLVIDADOS<br>(ASOBANARCCOP)                                  | 35,41      | 123,26         | 36,12  | 125,73         | 36,84          | 128,24         | 37,58          | 130,80         | 38,33          | 133,42         | 39,10          | 136,09         |
|             |              | FINCA ANTOLINA<br>(BANAFRUCCOP)  | 6,83       | 17,07          | 6,97   | 17,41          | 7,11           | 17,76          | 7,25           | 18,11          | 7,39           | 18,48          | 7,54           | 18,85          |
|             |              | FINCA LA PALMA 2<br>(BANAFRUCCOP)                                      | 6,83       | 17,07          | 6,97   | 17,41          | 7,11           | 17,76          | 7,25           | 18,11          | 7,39           | 18,48          | 7,54           | 18,85          |
|             |              | FINCA MIS TRABAJOS<br>(BANAFRUCCOP)                                    | 21,02      | 42,05          | 21,44  | 42,89          | 21,87          | 43,75          | 22,31          | 44,62          | 22,75          | 45,52          | 23,21          | 46,43          |
|             |              | FINCA CONCORDIA I  | 289,76     | 863,65         | 275,16                                       | 880,92         | 280,66         | 898,54         | 286,27         | 916,51         | 292,00         | 934,84         | 297,84         | 953,54         |
|             |              | COOPERATIVA BANANERA<br>DE RIO FRIO -<br>COBAFRIO(MARIA<br>CONCEPCION) | 10,38      | 421,8          | 10,59  | 430,24         | 10,80          | 438,84         | 11,02          | 447,62         | 11,24          | 456,57         | 11,46          | 465,70         |
|             |              | FINCA EL CORRAL<br>(BANAFRUCCOP)                                       | 37,78      | 91,14          | 38,54  | 92,93          | 39,31          | 94,79          | 40,09          | 96,69          | 40,89          | 98,62          | 41,71          | 100,59         |
|             |              | FINCA MERCEDES II  | 10,39      | 131,25         | 10,60  | 133,88         | 10,81          | 136,55         | 11,03          | 139,26         | 11,25          | 142,07         | 11,47          | 144,91         |
|             |              | FINCA EL MILAGRO<br>(ASOBANARCCOP)                                     | 53,91      | 49,77          | 54,99  | 50,77          | 56,09          | 51,78          | 57,21          | 52,82          | 58,35          | 53,87          | 59,52          | 54,95          |
|             |              | FINCA MARTINIANA I<br>(COBAFRIO)                                       | 13,84      | 27,98          | 14,12  | 28,23          | 14,40          | 28,80          | 14,69          | 29,37          | 14,98          | 29,96          | 15,28          | 30,55          |
|             |              | FINCA CASA GRANDE  | 74,05      | 283,45         | 75,53  | 289,12         | 77,04          | 294,90         | 78,58          | 300,80         | 80,15          | 306,82         | 81,76          | 312,95         |
|             |              | FINCA DIOS VERA<br>(ASOBANARCCOP)                                      | 51,84      | 60             | 52,88  | 51,20          | 53,93          | 62,42          | 55,01          | 63,67          | 56,11          | 64,95          | 57,24          | 66,24          |
|             |              | FINCA LOLITA<br>(ASOBANARCCOP)   | 111,97     | 87,09          | 114,21                                       | 98,83          | 116,49         | 90,61          | 118,82         | 92,42          | 121,20         | 94,27          | 123,62         | 96,15          |
|             |              | FINCA ARENAL<br>(AGROBANACARIBE S.A.S)                                 | 101,89     | 548            | 103,93                                       | 556,45         | 106,01         | 567,58         | 108,13         | 578,93         | 110,29         | 590,51         | 112,49         | 602,32         |

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| CUE/NC<br>A | TRAM<br>O | USUARIO APORTANTE DE<br>CARGAS PUNTUALES<br>(MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |                |                 |                 |                  |                 |                 |                 |                  |                 |                 |                 |                  |                |        |
|-------------|-----------|---|--|----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|----------------|--------|
|             |           |   | LINEA BASE                                   |                | AÑO 1 - 2018    |                 | AÑO 2 - 2019     |                 | AÑO 3 - 2020    |                 | AÑO 4 - 2021     |                 | AÑO 5 - 2022    |                 |                  |                |        |
|             |           |   | DBO5   | SST            | CC              | CC              | DBO <sub>5</sub> | META<br>kg/año  | SST             | META<br>kg/año  | DBO <sub>5</sub> | META<br>kg/año  | SST             | META<br>kg/año  | DBO <sub>5</sub> | META<br>kg/año | SST    |
|             |           | FINCA DON FUAD 1<br>(TECBACO)                                       | 83,22  | 194            | 194             | 84,00           | 204,00           | 80,00           | 197,00          | 80,00           | 190,00           | 80,00           | 190,00          | 80,00           | 190,00           | 80,00          | 190,00 |
|             |           | FINCA DON FUAD 2<br>(TECBACO)                                       | 75,2   | 138,24         | 84              | 204             | 80               | 187             | 75              | 170             | 75               | 153             | 75              | 136             |                  |                |        |
|             |           | FINCA TENACIDAD<br>(ASOBANARCOOP)                                   | 55,99  | 46,36          | 57,11           | 47,59           | 58,25            | 48,55           | 59,42           | 49,52           | 60,61            | 50,51           | 61,82           | 51,52           |                  |                |        |
|             |           | FINCA TERESITA<br>(ASOBANARCOOP)                                    | 49,77  | 41,47          | 50,77           | 42,30           | 51,78            | 43,15           | 52,82           | 44,01           | 53,87            | 44,89           | 54,95           | 45,79           |                  |                |        |
|             |           | FINCA LA YULIS<br>(ASOBANARCOOP)                                    | 49,77  | 41,47          | 50,77           | 42,30           | 51,78            | 43,15           | 52,82           | 44,01           | 53,87            | 44,89           | 54,95           | 45,79           |                  |                |        |
|             |           | FINCA LA VICTORIA<br>(COOPAFRIO)                                    | 2,91   | 14,57          | 2,97            | 14,86           | 3,03             | 15,16           | 3,09            | 15,46           | 3,15             | 15,77           | 3,21            | 16,09           |                  |                |        |
|             |           | FINCA TORINO<br>(INVERSIONES MARAIBA)                               | 8,49   | 15,7           | 8,66            | 16,01           | 8,83             | 16,33           | 9,01            | 16,66           | 9,19             | 16,99           | 9,37            | 17,33           |                  |                |        |
|             |           | FINCA VILLANIGIDA Y LA<br>LUCHA (ASOBANARCOOP)                      | 54,19  | 46,45          | 55,27           | 47,38           | 56,38            | 48,33           | 57,51           | 49,29           | 58,66            | 50,28           | 59,83           | 51,28           |                  |                |        |
|             |           | <b>TOTAL CARGA TRAMO 2 RIO FRIO</b>                                 | <b>2034,799</b>                              | <b>5731,69</b> | <b>1.907,67</b> | <b>5.720,03</b> | <b>1.920,44</b>  | <b>5.782,11</b> | <b>1.938,85</b> | <b>5.846,11</b> | <b>1.961,91</b>  | <b>5.929,07</b> | <b>1.982,63</b> | <b>6.014,03</b> |                  |                |        |

| CUE/NC<br>A | TRAM<br>O | USUARIO APORTANTE DE<br>CARGAS PUNTUALES<br>(MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |     |              |    |                  |                |              |                |                  |                |              |                |                  |                |     |                |
|-------------|-----------|---|--|-----|--------------|----|------------------|----------------|--------------|----------------|------------------|----------------|--------------|----------------|------------------|----------------|-----|----------------|
|             |           |   | LINEA BASE                                   |     | AÑO 1 - 2018 |    | AÑO 2 - 2019     |                | AÑO 3 - 2020 |                | AÑO 4 - 2021     |                | AÑO 5 - 2022 |                |                  |                |     |                |
|             |           |   | DBO5   | SST | CC           | CC | DBO <sub>5</sub> | META<br>kg/año | SST          | META<br>kg/año | DBO <sub>5</sub> | META<br>kg/año | SST          | META<br>kg/año | DBO <sub>5</sub> | META<br>kg/año | SST | META<br>kg/año |
|             |           |   |  |     |              |    |                  |                |              |                |                  |                |              |                |                  |                |     |                |

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**CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022**

| CUENCA                                 | TRAMO       | USUARIO<br>APORTANTE DE<br>CARGAS<br>PUNTUALES<br>(MUNICIPIO/<br>INDUSTRIA) | LINEA BASE |        |        |        |                  |                |             |                |                  |                |             |                |                  |                |
|--|-------------|---|------------|--------|--------|--------|------------------|----------------|-------------|----------------|------------------|----------------|-------------|----------------|------------------|----------------|
|  |             |   | DBO5       |        | SST    |        | AÑO 1 - 2018     |                | AÑO 2- 2019 |                | AÑO 3- 2020      |                | AÑO 4- 2021 |                | AÑO 5- 2022      |                |
|  |             |   | CC         | Kg/año | CC     | Kg/año | DBO <sub>5</sub> | META<br>kg/año | SST         | META<br>kg/año | DBO <sub>5</sub> | META<br>kg/año | SST         | META<br>kg/año | DBO <sub>5</sub> | META<br>kg/año |
| RIO<br>FRIO                            | TRAM<br>O 3 | FINCA SIEMPRE<br>VIVA<br>(ASOBANARCOOP)                                     | 9,59       | 47,95  | 9,78   | 48,91  | 9,98             | 49,89          | 10,18       | 50,88          | 10,38            | 51,90          | 10,59       | 52,94          |                  |                |
|  |             | FINCA LA VICTORIA<br>(TEBACO)   | 3,78       | 16,96  | 20     | 85     | 16               | 68             | 12          | 51             | 8                | 34             | 3,78        | 17             |                  |                |
|  |             | FINCA<br>SANTODOMINGO 1<br>(ASOBANARCOOP)                                   | 2,86       | 17,14  | 2,92   | 17,48  | 2,98             | 17,83          | 3,04        | 18,19          | 3,10             | 18,55          | 3,16        | 18,92          |                  |                |
|  |             | FINCA<br>SANTODOMINGO 2<br>(ASOBANARCOOP)                                   | 2,86       | 17,14  | 2,92   | 17,48  | 2,98             | 17,83          | 3,04        | 18,19          | 3,10             | 18,55          | 3,16        | 18,92          |                  |                |
|  |             | FINCA<br>GUAYABAL<br>(ASOBANARCOOP)   | 80,87      | 80     | 82,49  | 61,20  | 84,14            | 62,42          | 85,82       | 63,67          | 87,54            | 64,95          | 89,29       | 66,24          |                  |                |
|  |             | C.I. COMPRAS<br>AMERICAS<br>S.A S(JOSEFINA<br>SAN RAFAEL)                   | 43,28      | 60,58  | 336,23 | 171,69 | 326,14           | 166,54         | 326,14      | 196,54         | 300,04           | 153,21         | 300,04      | 153,21         |                  |                |
|  |             | FINCA EL RETIRO<br>(ASOBANARCOOP)   | 16,52      | 49,46  | 16,95  | 50,45  | 17,19            | 51,46          | 17,53       | 52,49          | 17,88            | 53,54          | 18,24       | 54,61          |                  |                |
|  |             | FINCA SAN<br>CARLOS<br>(ASOBANARCOOP)                                       | 6,33       | 12,23  | 6,46   | 12,47  | 6,59             | 12,72          | 6,72        | 12,98          | 6,85             | 13,24          | 6,99        | 13,50          |                  |                |
|  |             | FINCA<br>MONTECARLO<br>(ASOBANARCOOP)                                       | 7,6        | 37,98  | 7,75   | 38,74  | 7,91             | 39,51          | 8,07        | 40,30          | 8,23             | 41,11          | 8,39        | 41,93          |                  |                |
|  |             | FINCA VIRGINIA 3<br>(ASOBANARCOOP)  | 9,42       | 47,12  | 9,61   | 48,06  | 9,80             | 49,02          | 10,00       | 50,00          | 10,20            | 51,00          | 10,40       | 52,02          |                  |                |
|  |             | FINCA LA MARIA<br>(AGROMAYOR S.A.)  | 9,39       | 18,25  | 9,58   | 18,62  | 9,77             | 18,99          | 9,96        | 19,37          | 10,16            | 19,75          | 10,37       | 20,15          |                  |                |
|  |             | FINCA GRANADA 1<br>(ASOBANARCOOP)   | 2,39       | 11,96  | 2,44   | 12,20  | 2,49             | 12,44          | 2,54        | 12,69          | 2,59             | 12,95          | 2,64        | 13,20          |                  |                |
|  |             | FINCA AGRANADA<br>4 (ASOBANAR<br>COOP)                                      | 5,78       | 23,89  | 5,90   | 29,47  | 6,01             | 30,06          | 6,13        | 30,66          | 6,26             | 31,27          | 6,38        | 31,90          |                  |                |
|  |             | FINCA TODOS<br>PIENSAMOS<br>(ASOBANARCOOP)                                  | 6,83       | 17,07  | 6,97   | 17,41  | 7,11             | 17,76          | 7,25        | 18,11          | 7,39             | 18,48          | 7,54        | 18,85          |                  |                |
|  |             | FINCA LA GLORIA<br>(ASOBANARCOOP)   | 19,98      | 50,36  | 20,38  | 51,37  | 20,79            | 52,39          | 21,20       | 53,44          | 21,63            | 54,51          | 22,06       | 55,60          |                  |                |
| FINCA MI<br>DESCANSO<br>(ASOBANARCOOP) | 32,17       | 73,39   | 32,81      | 77,92  | 33,47  | 79,48  | 34,14            | 81,07          | 34,82       | 82,69          | 35,52            | 84,34          |             |                |                  |                |
| FINCA MARY                             | 36          | 24,88   | 36,72      | 25,33  | 37,45  | 25,89  | 38,20            | 26,40          | 38,97       | 26,93          | 39,75            | 27,47          |             |                |                  |                |

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| CUENCA | TRAMO | USUARIO<br>APORTANTE DE<br>CARGAS<br>PUNTUALES<br>(MUNICIPIO/<br>INDUSTRIA)   | LINEA BASE |        | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |        |              |        |              |        |              |        |      |     |  |
|--------|-------|---|------------|--------|--|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|------|-----|--|
|        |       |   | DBOS       | SST    | AÑO 1 - 2018                                 |        | AÑO 2 - 2019 |        | AÑO 3 - 2020 |        | AÑO 4 - 2021 |        | AÑO 5 - 2022 |        |      |     |  |
|        |       |   | CC         | CC     | DBOS   | SST    | DBOS         | SST    | DBOS         | SST    | DBOS         | SST    | DBOS         | SST    |      |     |  |
| FRIO   | O 3   | CARMEN<br>(ASOBANARCOOP)<br>FINCA VICTORIA<br>(ASOBANARCOOP)<br>FINCA NUEVA<br>ESPERANZA<br>(RAFAEL PEREZ)<br>FINCA ESPERANZA<br>1<br>(ASOBANARCOOP)<br>FINCA LILIANA<br>(COOBAFRIO)<br>FINCA PRUDENCIA<br>(COOBAFRIO)<br>FINCA GRANADA 2<br>(COOBAFRIO)<br>FINCA PORVENIR 3<br>(COOBAFRIO)<br>FINCA<br>MONTE CARLO 2<br>(COOBAFRIO)<br>FINCA ROSALBA<br>(COOBAFRIO)<br>FINCA TATIANA<br>(COOBAFRIO)<br>SAN DIEGO S.A<br>(LA MAMI)<br>EMPRESANCOOP<br>(SANTA RITA)<br>FINCA LAS<br>MARGARITAS<br>(COOBAFRIO)<br>FINCA PORVENIR 1<br>(COOBAFRIO)<br>FINCA LA PAZ N°2<br>(COOBAFRIO)<br>FINCA ANA<br>MARTHA<br>(COOBAFRIO)<br>FINCA<br>AUXILIADORA<br>(COOBAFRIO)<br>FINCA ESPERANZA<br>ARAUJO<br>(COOBAFRIO) | Kg/año     | Kg/año | DBOS   | SST    | DBOS         | SST    | DBOS         | SST    | DBOS         | SST    | DBOS         | SST    | DBOS | SST |  |
|        |       |   |            |        |  |        |              |        |              |        |              |        |              |        |      |     |  |
|        |       |   | 98,3       | 31,2   | 90,07  | 31,82  | 91,87        | 32,46  | 93,70        | 33,11  | 95,56        | 33,77  | 97,49        | 34,45  |      |     |  |
|        |       |   | 6,83       | 17,07  | 34,12  | 80,08  | 34,12        | 80,08  | 33,09        | 77,67  | 33,09        | 77,67  | 30,44        | 71,45  |      |     |  |
|        |       |   | 22,12      | 75,2   | 22,56  | 76,70  | 23,01        | 78,24  | 23,47        | 79,80  | 23,94        | 81,40  | 24,42        | 83,03  |      |     |  |
|        |       |   | 1,59       | 7,95   | 1,62   | 8,11   | 1,65         | 8,27   | 1,69         | 8,44   | 1,72         | 8,61   | 1,76         | 8,78   |      |     |  |
|        |       |   | 6,83       | 17,07  | 6,97   | 17,41  | 7,11         | 17,76  | 7,25         | 18,11  | 7,39         | 18,48  | 7,54         | 18,85  |      |     |  |
|        |       |   | 9,11       | 182,85 | 9,29   | 186,51 | 9,48         | 190,24 | 9,67         | 194,04 | 9,86         | 197,92 | 10,06        | 201,68 |      |     |  |
|        |       |   | 6,83       | 17,07  | 6,97   | 17,41  | 7,11         | 17,76  | 7,25         | 18,11  | 7,39         | 18,48  | 7,54         | 18,85  |      |     |  |
|        |       |   | 5,07       | 25,33  | 5,17   | 25,84  | 5,27         | 26,35  | 5,38         | 26,88  | 5,49         | 27,42  | 5,60         | 27,97  |      |     |  |
|        |       |   | 6,83       | 17,07  | 6,97   | 17,41  | 7,11         | 17,76  | 7,25         | 18,11  | 7,39         | 18,48  | 7,54         | 18,85  |      |     |  |
|        |       |   | 6,88       | 23,56  | 6,81   | 24,03  | 6,95         | 24,51  | 7,09         | 25,00  | 7,23         | 25,50  | 7,38         | 26,01  |      |     |  |
|        |       |   | 29,85984   | 106,37 | 30,46  | 108,50 | 31,07        | 110,67 | 31,69        | 112,88 | 32,32        | 115,14 | 32,97        | 117,44 |      |     |  |
|        |       |   | 44,24      | 150,41 | 45,12  | 153,42 | 46,03        | 156,49 | 46,95        | 159,62 | 47,89        | 162,81 | 48,84        | 166,06 |      |     |  |
|        |       |   | 4,42       | 22,12  | 4,51   | 22,56  | 4,60         | 23,01  | 4,69         | 23,47  | 4,78         | 23,94  | 4,88         | 24,42  |      |     |  |
| 6,83   | 17,07 | 6,97  | 17,41      | 7,11   | 17,76  | 7,25   | 18,11        | 7,39   | 18,48        | 7,54   | 18,85        |        |              |        |      |     |  |
| 8,29   | 41,47 | 8,46  | 42,30      | 8,62   | 43,15  | 8,80   | 44,01        | 8,97   | 44,89        | 9,15   | 45,79        |        |              |        |      |     |  |
| 5,52   | 21,8  | 5,63  | 22,24      | 5,74   | 22,68  | 5,86   | 23,13        | 5,98   | 23,60        | 6,09   | 24,07        |        |              |        |      |     |  |
| 6,83   | 17,07 | 6,97  | 17,41      | 7,11   | 17,76  | 7,25   | 18,11        | 7,39   | 18,48        | 7,54   | 18,85        |        |              |        |      |     |  |
| 4,57   | 22,87 | 4,66  | 23,33      | 4,75   | 23,79  | 4,85   | 24,27        | 4,95   | 24,76        | 5,05   | 25,25        |        |              |        |      |     |  |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CUENCA                           | TRAMO  | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | LINEA BASE |        | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |          |              |          |              |          |              |          |
|----------------------------------|--------|---|------------|--------|--|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|                                  |        |   | DBO5       | SST    | AÑO 1 - 2018                                 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |
|                                  |        |   | CC         | CC     | DBO5   | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |
| RIO FRIO                         | TRAMOS | FINCA SAN JUAN 1 (RUFINO ALMANZA)                             | 5,77       | 44,99  | 5,89   | 45,89    | 6,00         | 46,81    | 6,12         | 47,74    | 6,25         | 48,70    | 6,37         | 49,67    |
|                                  |        | FINCA BEATRIZ MOZO(COOPAFRIO)                                 | 2,77       | 13,87  | 2,83   | 14,15    | 2,88         | 14,43    | 2,94         | 14,72    | 3,00         | 15,01    | 3,06         | 15,31    |
|                                  |        | FINCA MI FUTURO ELENA (COOPAFRIO)                             | 2,99       | 21,13  | 3,05   | 21,55    | 3,11         | 21,98    | 3,17         | 22,42    | 3,24         | 22,87    | 3,30         | 23,33    |
|                                  |        | FINCA REFORMA (COOPAFRIO)                                     | 5,82       | 23,29  | 5,94   | 23,76    | 6,06         | 24,23    | 6,18         | 24,72    | 6,30         | 25,21    | 6,43         | 25,71    |
|                                  |        | FINCA PORVENIR 4 Y NO HAY COMO DIOS (COOPAFRIO)               | 6,17       | 80,53  | 6,29   | 82,14    | 6,42         | 83,78    | 6,55         | 85,46    | 6,68         | 87,17    | 6,81         | 88,91    |
|                                  |        | FINCA CHAVELA   | 248        | 1.107  | 252,77                                       | 1.129,58 | 257,82       | 1.152,17 | 262,99       | 1.175,21 | 268,24       | 1.198,72 | 273,60       | 1.222,69 |
|                                  |        | FINCA FABLISKA (AGROBANCARIBE S.A.S.)                         | 151,34     | 761    | 154,37                                       | 776,58   | 157,45       | 792,11   | 160,60       | 807,95   | 163,82       | 824,11   | 167,09       | 840,59   |
|                                  |        | FINCA COLONIA (TECBACO)                                       | 585,17     | 776    | 596,87                                       | 791,04   | 608,81       | 806,86   | 620,99       | 823,00   | 633,41       | 839,46   | 646,07       | 856,25   |
|                                  |        | FINCA SAN ANTONIO (TECBACO)                                   | 122,09     | 191    | 101,76                                       | 254,35   | 101,76       | 236,35   | 101,76       | 222,35   | 101,76       | 206,35   | 101,76       | 190,35   |
|                                  |        | FINCA FEDERICA (FEDERICA S.A.S.)                              | 47,33      | 119,53 | 48,28  | 121,92   | 49,24        | 124,36   | 50,23        | 126,85   | 51,23        | 129,38   | 52,26        | 131,97   |
|                                  |        | FINCA LA SOLITA (AGRICOLA PALMABAN)                           | 10,64      | 87     | 10,85  | 89,21    | 11,07        | 90,99    | 11,29        | 92,81    | 11,52        | 94,67    | 11,75        | 96,56    |
|                                  |        | FINCA MI FE EN DIOS (ASOANARCOOP)                             | 33,18      | 24,88  | 33,84  | 25,38    | 34,52        | 25,89    | 35,21        | 26,40    | 35,92        | 26,93    | 36,63        | 27,47    |
|                                  |        | FINCA EL TREBOL (INVERSIONES GOMEZ JAMARILLO)                 | 806,85     | 367,64 | 822,99                                       | 374,99   | 839,45       | 382,49   | 856,24       | 390,14   | 873,36       | 397,95   | 890,83       | 405,90   |
|                                  |        | FINCA SUSANA (TECBACO)  | 1,861      | 4,680  | 1,897,80                                     | 4,773,45 | 1,935,76     | 4,868,92 | 1,974,47     | 4,966,29 | 2,013,96     | 5,065,62 | 2,054,24     | 5,166,93 |
|                                  |        | FINCA LA GRANJA (C.I. COMPRAS AMERICAS)                       | 15,58      | 169,02 | 57,23  | 68,17    | 55,51        | 64,18    | 55,51        | 64,18    | 51,06        | 59,04    | 51,06        | 59,04    |
| FINCA VILLA ELISA (DALMER PEREZ) | 9,83   | 17,07   | 6,97       | 17,41  | 7,11   | 17,76    | 7,25         | 18,11    | 7,39         | 18,48    | 7,54         | 18,85    |              |          |
| FINCA LA EVA (TECBACO)           | 44,24  | 150,41  | 84         | 192    | 74   | 182      | 64           | 172      | 54           | 162      | 44           | 150      |              |          |
| FINCA LA VEGA (TECBACO)          | 130,94 | 221,18  | 144        | 168    | 140,73                                       | 168      | 137,46       | 168      | 134,19       | 168      | 130,92       | 168      |              |          |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA | TRAMO | USUARIO APORTANTE DE CARGAS PUNTALES (MUNICIPIO/INDUSTRIA) | LINEA BASE        |                 | CRONOCRAMA DE CARGAS CONTAMINANTES 2018-2022 |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|--------|-------|--|-------------------|-----------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        |       |  | DBO6              | SST             | AÑO 1 - 2018                                 |                  | AÑO 2 - 2019     |                  | AÑO 3 - 2020     |                  | AÑO 4 - 2021     |                  | AÑO 5 - 2022     |                  |
|        |       |  | CC                | CC              | DBO <sub>6</sub>                             | SST              | DBO <sub>6</sub> | SST              | DBO <sub>6</sub> | SST              | DBO <sub>6</sub> | SST              | DBO <sub>6</sub> | SST              |
|        |       | FINCA ENANO (TECBACO)                                      | 289,74            | 800,41          | 144,00                                       | 204,00           | 144,00           | 204,00           | 144,00           | 204,00           | 144,00           | 204,00           | 144,00           | 204,00           |
|        |       | FINCA LA LUCY (SAN DIEGO S.A.)                             | 16,29             | 135             | 16,62  | 137,51           | 16,95            | 140,26           | 17,29            | 143,06           | 17,63            | 145,92           | 17,96            | 148,64           |
|        |       | FINCA LA PERLA (GINA DE LAS SALAS)                         | 6,83              | 17,07           | 6,97   | 17,41            | 7,11             | 17,76            | 7,25             | 18,11            | 7,39             | 18,48            | 7,54             | 18,85            |
|        |       | FINCA VILLA GRANDE   | 49,27             | 253,24          | 50,26  | 258,30           | 51,26            | 263,47           | 52,29            | 268,74           | 53,33            | 274,12           | 54,40            | 279,60           |
|        |       | FINCA NARANJITOS (AGROCEIBA S.A.S.)                        | 14,6              | 37              | 14,89  | 37,23            | 15,19            | 37,97            | 15,49            | 38,73            | 15,80            | 39,51            | 16,12            | 40,30            |
|        |       | FINCA CAMPO ALEGRE (C.I. COMPRAS AMERICAS S.A.S)           | 35,67             | 385,19          | 65,32  | 69,05            | 63,36            | 66,98            | 63,36            | 66,98            | 68,29            | 61,62            | 68,29            | 61,62            |
|        |       | FINCA MANDESA (AGROBANACARIBE S.A.S.)                      | 116,12            | 987             | 118,44                                       | 1.006,77         | 120,81           | 1.026,91         | 123,23           | 1.047,44         | 125,66           | 1.068,39         | 128,21           | 1.089,76         |
|        |       | FINCA JARDIN DE LAS MUJERES (JUDITH PEREZ)                 | 6,83              | 17,07           | 6,97   | 17,41            | 7,11             | 17,76            | 7,25             | 18,11            | 7,39             | 18,48            | 7,54             | 18,85            |
|        |       | <b>TOTAL CARGA TRAMO 3 RIO FRIO</b>                        | <b>5167,85984</b> | <b>12896,16</b> | <b>5.572,28</b>                              | <b>12.393,58</b> | <b>5.632,96</b>  | <b>12.561,40</b> | <b>5.708,20</b>  | <b>12.742,45</b> | <b>5.750,73</b>  | <b>12.906,62</b> | <b>5.827,92</b>  | <b>13.091,01</b> |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA<br>A                          | TRAM<br>O   | USUARIO APORTANTE DE<br>CARGAS PUNTUALES<br>(MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |        |                |                |              |        |                |                |              |        |                |                |              |        |                |                |              |        |        |        |
|--------------------------------------|-------------|---|--|----------|--------------|--------|----------------|----------------|--------------|--------|----------------|----------------|--------------|--------|----------------|----------------|--------------|--------|----------------|----------------|--------------|--------|--------|--------|
|                                      |             |   | LINEA BASE                                   |          | AÑO 1 - 2018 |        |                |                | AÑO 2 - 2019 |        |                |                | AÑO 3 - 2020 |        |                |                | AÑO 4 - 2021 |        |                |                | AÑO 5 - 2022 |        |        |        |
|                                      |             |   | DBOS   | SST      | DBOs         | SST    | META<br>kg/año | META<br>kg/año | DBOs         | SST    | META<br>kg/año | META<br>kg/año | DBOs         | SST    | META<br>kg/año | META<br>kg/año | DBOs         | SST    | META<br>kg/año | META<br>kg/año | DBOs         | SST    |        |        |
| RIO<br>FRIO                          | TRAM<br>O 4 | FINCA SAMI (TECBACO)  | 231,79                                       | 1.133    | 300,00       | 444,00 | 282,00         | 444,00         | 285,00       | 444,00 | 247,00         | 444,00         | 229,00       | 444,00 | 229,00         | 444,00         | 229,00       | 444,00 | 229,00         | 444,00         | 229,00       | 444,00 |        |        |
|                                      |             | FINCA VILLA MARIA (BANARICA)  | 152,26                                       | 589      | 155,31       | 600,59 | 158,41         | 612,60         | 161,58       | 624,86 | 164,81         | 637,35         | 168,11       | 650,09 | 168,11         | 650,09         | 168,11       | 650,09 | 168,11         | 650,09         | 168,11       | 650,09 | 168,11 | 650,09 |
|                                      |             | FINCA PANTOJA   | 12,21  | 45,4     | 12,45        | 46,31  | 12,70          | 47,23          | 12,96        | 48,18  | 13,22          | 49,14          | 13,48        | 50,13  | 13,48          | 50,13          | 13,48        | 50,13  | 13,48          | 50,13          | 13,48        | 50,13  | 13,48  | 50,13  |
|                                      |             | FINCA GLORIA MERCEDES (BANEX S.A.)                                  | 42,96  | 63,26    | 43,82        | 64,53  | 44,70          | 65,82          | 45,59        | 67,13  | 46,50          | 68,47          | 47,43        | 69,84  | 47,43          | 69,84          | 47,43        | 69,84  | 47,43          | 69,84          | 47,43        | 69,84  | 47,43  | 69,84  |
|                                      |             | FINCA MIS ESFUERZOS (ASOBANARCOOP)                                  | 87,09  | 60       | 88,83        | 91,20  | 90,61          | 92,42          | 92,42        | 93,67  | 94,27          | 94,95          | 96,15        | 96,24  | 96,15          | 96,24          | 96,15        | 96,24  | 96,15          | 96,24          | 96,15        | 96,24  | 96,15  | 96,24  |
|                                      |             | FINCA PLANTICA  | 10,84  | 26,42    | 11,06        | 26,95  | 11,28          | 27,49          | 11,50        | 28,04  | 11,73          | 28,60          | 11,97        | 29,17  | 11,97          | 29,17          | 11,97        | 29,17  | 11,97          | 29,17          | 11,97        | 29,17  | 11,97  | 29,17  |
|                                      |             | FINCA LOS MANGOS (BANANERA LOS MANGOS DEL MAGDALENA S.A.S)          | 70,98  | 87       | 72,40        | 88,83  | 73,85          | 90,61          | 75,32        | 92,42  | 76,83          | 94,27          | 78,37        | 96,15  | 78,37          | 96,15          | 78,37        | 96,15  | 78,37          | 96,15          | 78,37        | 96,15  | 78,37  | 96,15  |
|                                      |             | FINCA BEATRIZ VILLAMIL (COOBAFRIO)                                  | 6,83   | 17,07    | 6,97         | 17,41  | 7,11           | 17,76          | 7,25         | 18,11  | 7,39           | 18,48          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54   | 18,85  |
|                                      |             | FINCA VEGA RIASCO   | 130,94                                       | 221,18   | 133,56       | 225,60 | 136,23         | 230,12         | 138,95       | 234,72 | 141,73         | 239,41         | 144,57       | 244,20 | 144,57         | 244,20         | 144,57       | 244,20 | 144,57         | 244,20         | 144,57       | 244,20 | 144,57 | 244,20 |
|                                      |             | FINCA SIRIA 1   | 205,11                                       | 648      | 209,21       | 661,10 | 213,40         | 674,32         | 217,66       | 687,81 | 222,02         | 701,57         | 226,46       | 715,60 | 226,46         | 715,60         | 226,46       | 715,60 | 226,46         | 715,60         | 226,46       | 715,60 | 226,46 | 715,60 |
|                                      |             | FINCA GISELLE BEATRIZ(AGROBANACARIBE S.A.S                          | 16,31  | 40,78    | 16,64        | 41,60  | 16,97          | 42,43          | 17,31        | 43,28  | 17,65          | 44,14          | 18,01        | 45,02  | 18,01          | 45,02          | 18,01        | 45,02  | 18,01          | 45,02          | 18,01        | 45,02  | 18,01  | 45,02  |
|                                      |             | FINCA NEERLANDIA (TECBACO)  | 421,06                                       | 31178,25 | 217,2        | 542,4  | 217,2          | 542,4          | 217,2        | 542,4  | 217,2          | 542,4          | 217,2        | 542,4  | 217,2          | 542,4          | 217,2        | 542,4  | 217,2          | 542,4          | 217,2        | 542,4  | 217,2  | 542,4  |
|                                      |             | FINCA SAN RAFAEL II   | 42,87  | 306,55   | 43,73        | 312,68 | 44,60          | 318,93         | 45,49        | 325,31 | 46,40          | 331,82         | 47,33        | 338,46 | 47,33          | 338,46         | 47,33        | 338,46 | 47,33          | 338,46         | 47,33        | 338,46 | 47,33  | 338,46 |
|                                      |             | FINCA REFUGIO DE IKEBANA  | 34,5   | 141,83   | 35,19        | 144,67 | 35,89          | 147,56         | 36,61        | 150,51 | 37,34          | 153,52         | 38,09        | 156,59 | 38,09          | 156,59         | 38,09        | 156,59 | 38,09          | 156,59         | 38,09        | 156,59 | 38,09  | 156,59 |
|                                      |             | FINCA SIRIA 2   | 80,68  | 592,97   | 82,29        | 604,83 | 83,94          | 616,93         | 85,62        | 629,26 | 87,33          | 641,85         | 89,03        | 654,69 | 89,03          | 654,69         | 89,03        | 654,69 | 89,03          | 654,69         | 89,03        | 654,69 | 89,03  | 654,69 |
| FINCA MONTECRISTO 1 Y 2 (COOBAFRIO)  | 6,83        | 17,07   | 6,97   | 17,41    | 7,11         | 17,76  | 7,25           | 18,11          | 7,39         | 18,48  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  |        |        |
| FINCA SAN MARTIN (COOBAFRIO)         | 6,83        | 17,07   | 6,97   | 17,41    | 7,11         | 17,76  | 7,25           | 18,11          | 7,39         | 18,48  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  | 7,54           | 18,85          | 7,54         | 18,85  |        |        |
| FINCA NARANJOS (INVERSIONES MARAIBA) | 69,43       | 323,31  | 70,82  | 329,78   | 72,23        | 336,37 | 73,68          | 343,10         | 75,15        | 349,96 | 76,69          | 356,96         | 76,69        | 356,96 | 76,69          | 356,96         | 76,69        | 356,96 | 76,69          | 356,96         | 76,69        | 356,96 |        |        |

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| CUENCA  | TRAMO    | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |        |             |        |             |        |             |        |             |        |
|---|----------|---|--|--------|--------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|   |          |   | LINEA BASE                                   |        | AÑO 1 - 2018 |        | AÑO 2- 2019 |        | AÑO 3- 2020 |        | AÑO 4- 2021 |        | AÑO 5- 2022 |        |
|   |          |   | DBO5   | SST    | DBO5         | SST    | DBO5        | SST    | DBO5        | SST    | DBO5        | SST    | DBO5        | SST    |
| RIO FRIO  | TRAMO 04 | FINCA SAN ALFREDO (TECBACO)                                   | 37,6   | 94     | 48           | 96     | 45          | 95     | 42          | 94     | 39          | 94     | 36          | 94     |
|   |          | FINCA NUEVA ESPERANZA (BAN/PALMA)                             | 28,33  | 168    | 28,90        | 110,10 | 29,47       | 112,30 | 30,06       | 114,55 | 30,67       | 116,84 | 31,23       | 119,17 |
|   |          | FINCA EL CARIEMEN (ASOBANARCOOP)                              | 4,71   | 23,55  | 4,80         | 24,02  | 4,90        | 24,50  | 5,00        | 24,99  | 5,10        | 25,49  | 5,20        | 26,00  |
|   |          | FINCA SAN JUAN 2 (ASOBANARCOOP)                               | 55,3   | 41,47  | 56,41        | 42,30  | 57,53       | 43,15  | 58,68       | 44,01  | 59,86       | 44,89  | 61,06       | 45,79  |
|   |          | FINCA MARTINIANA 2  | 13,84  | 27,88  | 14,12        | 28,23  | 14,40       | 28,80  | 14,69       | 29,37  | 14,98       | 29,96  | 15,28       | 30,56  |
|   |          | FINCA SAN JUAN (ASOBANARCOOP)                                 | 2,16   | 16,87  | 2,20         | 17,21  | 2,25        | 17,55  | 2,29        | 17,90  | 2,34        | 18,26  | 2,38        | 18,63  |
|   |          | FINCA PAHOILA   | 14,14  | 63,14  | 14,42        | 64,40  | 14,71       | 65,69  | 15,01       | 67,00  | 15,31       | 68,34  | 15,61       | 69,71  |
|   |          | FINCA SAN JOSE (EDUARDO DIAZ GRANADOS)                        | 13,88  | 34,7   | 14,16        | 35,39  | 14,44       | 36,10  | 14,73       | 36,82  | 15,02       | 37,56  | 15,32       | 38,31  |
|   |          | FINCA RECUERDO 2 (ASOBANARCOOP)                               | 1,27   | 10,17  | 1,30         | 10,37  | 1,32        | 10,58  | 1,35        | 10,79  | 1,37        | 11,01  | 1,40        | 11,23  |
|   |          | FINCA SAN RAMON (ASOBANARCOOP)                                | 203,21                                       | 290,3  | 207,27       | 286,11 | 211,42      | 302,03 | 215,66      | 308,07 | 219,96      | 314,23 | 224,36      | 320,51 |
|   |          | FINCA SAN JOSE 2 (ASOBANARCOOP)                               | 8,91   | 14,33  | 9,09         | 14,62  | 9,27        | 14,91  | 9,46        | 15,21  | 9,64        | 15,51  | 9,84        | 15,82  |
|   |          | FINCA RECUERO 1 (ASOBANARCOOP)                                | 14,6   | 49,85  | 14,89        | 50,64  | 15,19       | 51,66  | 15,49       | 52,69  | 15,80       | 53,74  | 16,12       | 54,82  |
|   |          | FINCA ISABEL 4 (ASOBANARCOOP)                                 | 8,77   | 10,3   | 8,95         | 10,51  | 9,12        | 10,72  | 9,31        | 10,93  | 9,49        | 11,15  | 9,68        | 11,37  |
|   |          | FINCA SAN JOSE N° 2 (AGROINDUSTRIAL SAN JOSE LTDA)            | 13,15  | 39,34  | 13,41        | 40,13  | 13,68       | 40,93  | 13,95       | 41,75  | 14,23       | 42,58  | 14,52       | 43,43  |
| FINCA LA FORTUNA Y PALMITO (ASOBANARCOOP)         | 6,51     | 9,48  | 6,64   | 9,67   | 6,77         | 9,86   | 6,91        | 10,06  | 7,05        | 10,26  | 7,19        | 10,47  |             |        |
| FINCA JULIA CAROLINA (AGROINDUSTRIAL SAN GABRIEL) | 25,96    | 434   | 26,48  | 442,68 | 27,01        | 451,53 | 27,55       | 460,56 | 28,10       | 469,79 | 28,63       | 479,17 |             |        |
| FINCA LA EMILIA (TECBACO)                         | 6,83     | 17,07   | 6,97   | 17,41  | 7,11         | 17,76  | 7,25        | 18,11  | 7,39        | 18,48  | 7,54        | 18,85  |             |        |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| CUENCA                          | TRAMO    | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | LINEA BASE |        | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |                  |        |                  |        |                  |        |                  |        |
|---------------------------------|----------|---|------------|--------|--|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
|                                 |          |   | DBO5       | SST    | AÑO 1 - 2018                                 |        | AÑO 2-2019       |        | AÑO 3-2020       |        | AÑO 4-2021       |        | AÑO 5-2022       |        |
|                                 |          |   | CC         | CC     | DBO <sub>5</sub>                             | SST    | DBO <sub>5</sub> | SST    | DBO <sub>5</sub> | SST    | DBO <sub>5</sub> | SST    | DBO <sub>5</sub> | SST    |
| RIO FRIO                        | TRAMO 04 | LA LUCHA 3  | 6,83       | 17,07  | 6,97   | 17,41  | 7,11             | 17,76  | 7,25             | 18,11  | 7,39             | 18,48  | 7,54             | 18,85  |
|                                 |          | FINCA LOLA (COBAFRIO)   | 6,83       | 17,07  | 6,97   | 17,41  | 7,11             | 17,76  | 7,25             | 18,11  | 7,39             | 18,48  | 7,54             | 18,85  |
|                                 |          | FINCA PRETORIA  | 5,28       | 39,36  | 5,39   | 40,15  | 5,49             | 40,95  | 5,60             | 41,77  | 5,72             | 42,60  | 5,83             | 43,45  |
|                                 |          | FINCA CARMEN 2 (ASOBANARCCOOP)                                | 49,66      | 60     | 47,59  | 91,20  | 48,55            | 62,42  | 49,52            | 63,67  | 50,51            | 64,95  | 51,52            | 66,24  |
|                                 |          | FINCA LA LINDA (JOMACAVI S.A.S)                               | 82,55      | 131    | 84,20  | 133,93 | 85,89            | 136,60 | 87,60            | 139,34 | 89,35            | 142,12 | 91,14            | 144,97 |
|                                 |          | FINCA ISABEL 1 (ASOBANARCCOOP)                                | 8,77       | 10,3   | 8,95   | 10,51  | 9,12             | 10,72  | 9,31             | 10,93  | 9,49             | 11,15  | 9,68             | 11,37  |
|                                 |          | FINCA SERGINA (ASOBANARCCOOP)                                 | 34,67      | 61,14  | 35,36  | 62,36  | 36,07            | 63,61  | 36,79            | 64,88  | 37,53            | 66,18  | 38,28            | 67,50  |
|                                 |          | FINCA ENVIDIA (COBAFRIO)                                      | 13,07      | 235,22 | 13,33  | 239,92 | 13,60            | 244,72 | 13,87            | 249,62 | 14,15            | 254,61 | 14,43            | 259,70 |
|                                 |          | FINCA SANTA ROSA (COBAFRIO)                                   | 6,83       | 17,07  | 6,97   | 17,41  | 7,11             | 17,76  | 7,25             | 18,11  | 7,39             | 18,48  | 7,54             | 18,85  |
|                                 |          | FINCA ANA MARIA Y MERCEDES (COBAFRIO)                         | 5,28       | 26,38  | 5,39   | 26,91  | 5,49             | 27,45  | 5,60             | 27,99  | 5,72             | 28,55  | 5,83             | 29,13  |
|                                 |          | FINCA NUESTRA SEÑORA STA MARTA 2                              | 12,46      | 62,32  | 12,71  | 63,57  | 12,96            | 64,84  | 13,22            | 66,13  | 13,49            | 67,46  | 13,75            | 68,81  |
|                                 |          | FINCA LA MARIELA (COBAFRIO)                                   | 4,24       | 21,19  | 4,32   | 21,61  | 4,41             | 22,05  | 4,50             | 22,49  | 4,59             | 22,94  | 4,68             | 23,40  |
|                                 |          | FINCA JULIA ESTER (COBAFRIO)                                  | 3,53       | 17,53  | 3,60   | 17,98  | 3,67             | 18,34  | 3,75             | 18,71  | 3,82             | 19,08  | 3,90             | 19,46  |
|                                 |          | FINCA MARTA VANESSA (COBAFRIO)                                | 5,21       | 26,04  | 5,31   | 26,56  | 5,42             | 27,09  | 5,53             | 27,63  | 5,64             | 28,19  | 5,75             | 28,75  |
|                                 |          | FINCA ESMERALDITA (COBAFRIO)                                  | 5,52       | 27,92  | 5,63   | 28,17  | 5,74             | 28,74  | 5,86             | 29,31  | 5,98             | 29,90  | 6,09             | 30,49  |
| FINCA ESPERANZA RUIZ (COBAFRIO) | 2,25     | 11,24   | 2,30       | 11,46  | 2,34   | 11,69  | 2,39             | 11,93  | 2,44             | 12,17  | 2,48             | 12,41  |                  |        |
| FINCA EL POLO (COBAFRIO)        | 15,16    | 84,33   | 15,46      | 86,02  | 15,77  | 87,74  | 16,09            | 89,49  | 16,41            | 91,28  | 16,74            | 93,11  |                  |        |

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# CORPORACION AUTONOMA REGIONAL DEL MAGDALENA

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| CUENCA                       | TRAMO    | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |        |              |          |              |          |              |          |              |          |              |          |
|------------------------------|----------|---|--|--------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|                              |          |   | LINEA BASE                                   |        | AÑO 1 - 2018 |          | AÑO 2 - 2019 |          | AÑO 3 - 2020 |          | AÑO 4 - 2021 |          | AÑO 5 - 2022 |          |
|                              |          |   | DBO5   | SST    | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      | DBO5         | SST      |
| RIO FRIO                     | TRAMO 04 | FINCA LA PAZ N° 1 (COOBAFRIO)                                 | 7,46   | 54,48  | 7,61         | 55,57    | 7,76         | 56,68    | 7,92         | 57,81    | 8,07         | 58,97    | 8,24         | 60,15    |
|                              |          | FINCA ROSA ISABEL (COOBAFRIO)                                 | 6,83   | 17,07  | 6,97         | 17,41    | 7,11         | 17,76    | 7,25         | 18,11    | 7,39         | 18,48    | 7,54         | 18,85    |
| TOTAL CARGA TRAMO 4 RIO FRIO |          |   | 2368,12                                      | 37.779 | 2.276,42     | 6.512,65 | 2.289,65     | 6.620,25 | 2.304,59     | 6.730,03 | 2.319,16     | 6.843,02 | 2.334,48     | 6.958,27 |

| CUENCA      | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |       |              |       |              |       |              |       |              |       |              |       |
|-------------|---------|---|--|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
|             |         |   | LINEA BASE                                   |       | AÑO 1 - 2018 |       | AÑO 2 - 2019 |       | AÑO 3 - 2020 |       | AÑO 4 - 2021 |       | AÑO 5 - 2022 |       |
|             |         |   | DBO5   | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   | DBO5         | SST   |
| RIO CORDOBA | TRAMO 2 | FINCA REMATE (COOBAFRIO)                                      | 6,83   | 17,07 | 6,97         | 17,41 | 7,11         | 17,76 | 7,25         | 18,11 | 7,39         | 18,48 | 7,54         | 18,85 |
|             |         | TOTAL TRAMO 2 RIO CORDOBA                                     | 6,83   | 17,07 | 7,07         | 17,67 | 7,32         | 18,29 | 7,57         | 18,93 | 7,84         | 19,59 | 8,11         | 20,27 |

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| CUENCA                             | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA)     | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |          |              |            |              |             |              |             |              |             |              |             |
|------------------------------------|---------|---|--|----------|--------------|------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                                    |         |   | LINEA BASE                                   |          | AÑO 1 - 2018 |            | AÑO 2 - 2019 |             | AÑO 3 - 2020 |             | AÑO 4 - 2021 |             | AÑO 5 - 2022 |             |
|                                    |         |   | DBO5   | SST      | DBO5         | SST        | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         | DBO5         | SST         |
| RIO MANZANARES                     | TRAMO 1 | Manual Arrieta (Finca el Salmo)<br>Ciro Peña (Finca La Esmeralda) | 539,136                                      | 1078,272 | 549,91872    | 1099,83744 | 560,9170944  | 1121,834189 | 572,1354363  | 1144,270873 | 466,962516   | 933,725032  | 429,5797997  | 857,1595794 |
|                                    |         |   | 1886,976                                     | 3773,952 | 1924,71552   | 3849,43104 | 1963,20983   | 3926,419661 | 2002,474027  | 4004,948054 | 1634,018906  | 3268,037612 | 1500,029264  | 3000,059528 |
|                                    |         |   | 2426,112                                     | 4852,224 | 2474,63424   | 4949,26848 | 2624,126925  | 5048,25385  | 2574,609463  | 5149,218927 | 2100,881322  | 4201,762644 | 1928,809054  | 3857,218107 |
| TOTAL CARGA TRAMO 1 RIO MANZANARES |         |   |  |          |              |            |              |             |              |             |              |             |              |             |

| CUENCA                       | TRAMO   | USUARIO APORTANTE DE CARGAS PUNTUALES (MUNICIPIO / INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |         |              |      |              |      |              |      |              |      |              |      |
|------------------------------|---------|---|--|---------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
|                              |         |   | LINEA BASE                                   |         | AÑO 1 - 2018 |      | AÑO 2 - 2019 |      | AÑO 3 - 2020 |      | AÑO 4 - 2021 |      | AÑO 5 - 2022 |      |
|                              |         |   | DBO5   | SST     | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  | DBO5         | SST  |
| RIO MANZANARES               | TRAMO 2 | POLLÓS HUCANA<br>AVICOLA ALTAIR                               | 12700  | 4042,38 | 12834        | 4133 | 10347        | 3499 | 10705        | 3568 | 10972        | 3677 | 11249        | 3768 |
|                              |         |   | 1762   | 1244    | 1823         | 1297 | 1632         | 492  | 1672         | 504  | 1706         | 514  | 1740         | 524  |
|                              |         |   | 14462  | 5286,38 | 14657        | 5470 | 11979        | 3991 | 12377        | 4092 | 12878        | 4191 | 12989        | 4292 |
| TOTAL TRAMO 2 RIO MANZANARES |         |   |  |         |              |      |              |      |              |      |              |      |              |      |

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
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| TRAMO                               | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTALES<br>(MUNICIPIO /<br>INDUSTRIA) | LINEA BASE |       | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |       |             |       |             |       |             |       |             |       |
|-------------------------------------|---|------------|-------|--|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
|                                     |   | DBO5       | SST   | AÑO 1 - 2018                                 |       | AÑO 2- 2019 |       | AÑO 3- 2020 |       | AÑO 4- 2021 |       | AÑO 5- 2022 |       |
|                                     |   | CC         | CC    | DBO5   | SST   | DBO5        | SST   | DBO5        | SST   | DEO5        | SST   | DBO5        | SST   |
| TRAMO 2                             | FINCAN<br>CANCUIN   | 6,83       | 17,07 | 6,97   | 17,41 | 7,11        | 17,76 | 7,25        | 18,11 | 7,39        | 18,48 | 7,54        | 18,85 |
| TOTAL CARGA TRAMO 2<br>RIO BURITACA |   | 6,83       | 17,07 | 6,97   | 17,41 | 7,11        | 17,76 | 7,25        | 18,11 | 7,39        | 18,48 | 7,54        | 18,85 |

| CUENCA          | TRAMO      | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTALES<br>(MUNICIPIO /<br>INDUSTRIA) | LINEA BASE |        | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |          |             |          |             |          |             |          |             |          |
|-----------------|------------|---|------------|--------|--|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|
|                 |            |   | DBO5       | SST    | AÑO 1 - 2018                                 |          | AÑO 2- 2019 |          | AÑO 3- 2020 |          | AÑO 4- 2021 |          | AÑO 5- 2022 |          |
|                 |            |   | CC         | CC     | DBO5   | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      | DBO5        | SST      |
| RIO<br>GUACHACA | TRAMO<br>2 | FINCA<br>CABALLOS 1<br>(FRUTESA<br>S.A.)                                    | 25,16      | 155    | 25,66  | 158,02   | 26,18       | 161,18   | 26,70       | 164,40   | 27,23       | 167,69   | 27,78       | 171,04   |
|                 |            | FINCA<br>CABALLOS 2<br>(FRUTESA<br>S.A.)                                    | 25,53      | 205    | 26,04  | 209,03   | 26,56       | 213,21   | 27,09       | 217,47   | 27,63       | 221,82   | 28,19       | 226,23   |
|                 |            | FINCA<br>HAMBURGO<br>(TECBACO)  | 339,41     | 735,38 | 346,20                                       | 750,09   | 353,12      | 765,09   | 360,18      | 780,39   | 367,39      | 796,00   | 374,74      | 811,92   |
|                 |            | TOTAL CARGA<br>TRAMO 2 RIO<br>GUACHACA                                      | 390,1      | 1,095  | 397,50                                       | 1,117,13 | 405,96      | 1,139,48 | 413,98      | 1,162,27 | 422,26      | 1,185,51 | 430,70      | 1,209,22 |

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| CUENCA<br>A         | TRAMO                                | USUARIO APORTANTE<br>DE CARGAS<br>PUNTUALES /<br>(MUNICIPIO /<br>INDUSTRIA) | LINEA BASE |        |        |        |              |                |             |                |             |                |             |                |             |                |
|---------------------|--------------------------------------|---|------------|--------|--------|--------|--------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|
|                     |                                      |   | DBOS       |        | SST    |        | AÑO 1 - 2018 |                | AÑO 2- 2019 |                | AÑO 3- 2020 |                | AÑO 4- 2021 |                | AÑO 5- 2022 |                |
|                     |                                      |   | CC         | Kg/año | CC     | Kg/año | DBOS         | META<br>kg/año | SST         | META<br>kg/año | DBOS        | META<br>kg/año | SST         | META<br>kg/año | DBOS        | META<br>kg/año |
| RIO<br>DON<br>DIEGO | TRAMO 2                              | FINCA LAS DIVAS 1<br>(TECBACO)  | 324        | 395    | 72,00  | 192,00 | 72,00        | 192,00         | 72,00       | 192,00         | 72,00       | 192,00         | 72,00       | 192,00         | 72,00       | 192,00         |
|                     |                                      | FINCA LAS DIVAS 4<br>(TECBACO)  | 128        | 365    | 120,00 | 216,00 | 120,00       | 216,00         | 120,00      | 216,00         | 120,00      | 216,00         | 120,00      | 216,00         |             |                |
|                     |                                      | FINCA LAS DIVAS 3<br>(TECBACO)  | 128        | 365    | 72,00  | 192,00 | 72,00        | 192,00         | 72,00       | 192,00         | 72,00       | 192,00         | 72,00       | 192,00         |             |                |
|                     | TOTAL CARGA TRAMO 2 RIO DON<br>DIEGO | 581   | 1.116      | 264    | 600    | 264    | 600          | 264            | 600         | 264            | 600         | 264            | 600         |                |             |                |

CRONOGRAMA DE CARGAS CONTINUANTES 2013-2022

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| CUENCA                                   | TRAMO          | USUARIO<br>APORTANTE DE<br>CARGAS<br>PUNTUALES<br>(MUNICIPIO/<br>INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2018-2022 |                 |                                    |                       |                                    |                       |                                    |                       |                                    |                       |                                    |                       |
|--|----------------|---|--|-----------------|------------------------------------|-----------------------|------------------------------------|-----------------------|------------------------------------|-----------------------|------------------------------------|-----------------------|------------------------------------|-----------------------|
|  |                |   | LINEA BASE                                   |                 | AÑO 1 - 2018                       |                       | AÑO 2 - 2019                       |                       | AÑO 3 - 2020                       |                       | AÑO 4 - 2021                       |                       | AÑO 5 - 2022                       |                       |
|  |                |   | DI05<br>CC                                   | SST<br>CC       | DBO <sub>s</sub><br>META<br>kg/año | SST<br>META<br>kg/año | DBO <sub>s</sub><br>META<br>kg/año | SST<br>META<br>kg/año | DBO <sub>s</sub><br>META<br>kg/año | SST<br>META<br>kg/año | DBO <sub>s</sub><br>META<br>kg/año | SST<br>META<br>kg/año | DBO <sub>s</sub><br>META<br>kg/año | SST<br>META<br>kg/año |
| RIO<br>GAIRA                             | TRAMO<br>1     | Finca el Refugio<br>(Orlando Pérez)   | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 486,86                             | 933,73                | 428,53                             | 857,16                |
|  |                | Finca el Limón<br>(Nelson Cabrera<br>Pérez)                                 | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 486,86                             | 933,73                | 428,53                             | 857,16                |
|  |                | Siberia (Javier<br>Pinedo)  | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 389,05                | 178,57                             | 357,15                |
|  |                | Finca san Isidro<br>(Rauli Anas)  | 952,47                                       | 1904,95         | 971,52                             | 1943,05               | 990,95                             | 1981,91               | 1010,77                            | 2021,55               | 824,79                             | 1649,58               | 757,16                             | 1514,32               |
|  |                | finca Kincaya<br>(Jairo Pérez<br>Narváez)                                   | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 486,86                             | 933,73                | 428,53                             | 857,16                |
|  |                | Finca las 15<br>(Fabioa Martínez)   | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 525,22                             | 933,73                | 482,15                             | 857,16                |
|  |                | La Rivera (Alvaro<br>Daza)  | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 525,22                             | 1050,44               | 482,15                             | 964,30                |
|  |                | el conlazo<br>(Rufino Acosta)   | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | La Tormenta<br>(Fredis Polo)  | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | Bella Vista<br>(Graciliano<br>Crespo)                                       | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | Monte Cristo<br>(Farid Crespo De<br>La Cruz)                                | 539,14                                       | 1078,27         | 549,92                             | 1099,84               | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 486,86                             | 1050,44               | 428,53                             | 964,30                |
|  |                | El Porvenir<br>(Jimnis Crespo)  | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | campozelli<br>(Robinson Daza)   | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | El Paraiso (Reyes<br>Alfonso Vargas)  | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
|  |                | Finca el Jardín<br>(Gerardo Nuñez)  | 224,64                                       | 449,28          | 229,13                             | 458,27                | 233,72                             | 467,43                | 238,39                             | 476,78                | 194,53                             | 437,68                | 178,57                             | 401,79                |
| Finca Por venir<br>(Javier Finedo)       | 224,64         | 450,28  | 229,13                                       | 459,29          | 233,72                             | 468,47                | 238,39                             | 477,84                | 194,53                             | 438,66                | 178,57                             | 402,69                |                                    |                       |
| estancia por fin<br>(Jorge Luis Valdez)  | 539,14         | 1078,27   | 549,92                                       | 1099,84         | 560,92                             | 1121,83               | 572,14                             | 1144,27               | 486,86                             | 1050,44               | 428,53                             | 964,30                |                                    |                       |
| <b>TOTAL CARGA TRAMO 1<br/>RIO GAIRA</b> | <b>6748,19</b> | <b>13497,37</b>   | <b>6883,15</b>                               | <b>13767,32</b> | <b>7020,81</b>                     | <b>14042,86</b>       | <b>7161,23</b>                     | <b>14323,52</b>       | <b>5960,28</b>                     | <b>12427,30</b>       | <b>5477,64</b>                     | <b>11403,26</b>       |                                    |                       |

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Santa Marta D.T.C.H., Magdalena, Colombia

www.corpamag.gov.co - email: [contactenos@corpamag.gov.co](mailto:contactenos@corpamag.gov.co)

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**CORPORACION AUTONOMA REGIONAL DEL MAGDALENA**  
NIT. 800.099.287-4

| CIENCIA | TRAMO | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTALES<br>(MUNICIPIO/<br>INDUSTRIA) | CRONOGRAMA DE CARGAS CONTAMINANTES 2013-2022 |         |              |         |             |             |         |             |             |         |             |             |     |             |             |     |             |  |
|---------|-------|--|--|---------|--------------|---------|-------------|-------------|---------|-------------|-------------|---------|-------------|-------------|-----|-------------|-------------|-----|-------------|--|
|         |       |  | LINEA BASE                                   |         | AÑO 1 - 2018 |         |             | AÑO 2- 2019 |         |             | AÑO 3- 2020 |         |             | AÑO 4- 2021 |     |             | AÑO 5- 2022 |     |             |  |
|         |       |  | DBOS   | SST     | DBOs         | SST     | META kg/año | DBOs        | SST     | META kg/año | DBOs        | SST     | META kg/año | DEOs        | SST | META kg/año | DBOs        | SST | META kg/año |  |
|         |       | Agropecuaria Barlovento  | 1886,98                                      | 3773,95 | 1924,72      | 3849,43 | 1963,21     | 3926,42     | 2002,47 | 4004,95     | 1634,02     | 3676,54 | 1500,03     | 3375,07     |     |             |             |     |             |  |
|         |       | Anuño Nariño B(EI Diamante)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Anuño Nariño Rincón (Nueva Colombia)                                       | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Oscar Pérez(Finca 2 Aguas)   | 381,89                                       | 763,78  | 389,53       | 779,05  | 397,32      | 794,63      | 405,26  | 810,53      | 388,57      | 777,13  | 368,59      | 737,19      |     |             |             |     |             |  |
|         |       | Johan Martínez (Finca la Ortencia)   | 381,89                                       | 763,78  | 389,53       | 779,05  | 397,32      | 794,63      | 405,26  | 810,53      | 388,57      | 777,13  | 368,59      | 737,19      |     |             |             |     |             |  |
|         |       | Cinchinati Company   | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Gerardo Pineda Mora (Finca La Esperanza)                                   | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Elkin Arieta ( La Victoria)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Italo Clansel F. El Recuerdo)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | José Onel Ortiz (Parcela Miramar 2)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Jose Gustavo Garcia (F. Las Marias)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Eugenio Hidalgo F. La Candelaria)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Jose Maria Rodriguez(F. La Alicia)   | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Eloisa Leon Martinez (Dindal)  | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |
|         |       | Carlos Julio Cala (Finca Los Naranjos)                                     | 539,14                                       | 1078,27 | 549,92       | 1099,84 | 560,92      | 1121,83     | 572,14  | 1144,27     | 466,86      | 1050,44 | 428,58      | 964,30      |     |             |             |     |             |  |

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| CUENCA                                 | TRAMO | USUARIO<br>APORTANTE<br>DE CARGAS<br>PUNTUALES<br>(MUNICIPIO/<br>INDUSTRIA) | LINEA BASE      |                 | AÑO 1 - 2018    |                 | AÑO 2 - 2019    |                 | AÑO 3 - 2020    |                 | AÑO 4 - 2021    |                 | AÑO 5 - 2022   |                 |
|--|-------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
|  |       |   | DBO5            | SST             | DBO5            | SST             | DBO5            | SST             | DBO5            | SST             | DBO5            | SST             | DBO5           | SST             |
|  |       |   | Kg/año          | Kg/año          | META kg/año     | META kg/año     | META kg/año     | META kg/año     | META kg/año     | META kg/año     | META kg/año     | META kg/año     | META kg/año    | META kg/año     |
|  |       | Beritida  | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Balaguera<br>(Finca Campo<br>Alicia)  | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Javier Pineda<br>(Finca Mil<br>Granjita)                                    | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Moisés<br>Rodríguez (F.<br>Elemento)  | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Alfonso<br>Miranda/Delicia<br>de Santa Fé)                                  | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Ariel Castaño<br>(Finca Vallan<br>Vendo)                                    | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
|  |       | Francisco<br>Figueroa(Finca<br>los Remedios)                                | 539,14          | 1078,27         | 549,92          | 1099,84         | 560,92          | 1121,83         | 572,14          | 1144,27         | 466,86          | 1050,44         | 428,58         | 964,30          |
| <b>TOTAL CARGA TRAMO 1 RIO TORIBIO</b> |       |   | <b>12355,20</b> | <b>24710,40</b> | <b>12602,30</b> | <b>25204,61</b> | <b>12854,35</b> | <b>25708,70</b> | <b>13111,44</b> | <b>26222,87</b> | <b>10814,68</b> | <b>24138,74</b> | <b>9951,65</b> | <b>22206,92</b> |

**ARTÍCULO QUINTO:** El presente Acuerdo rige a partir de la fecha de su expedición.

Dado en Santa Marta, el día

**23 AGO. 2018**

**PUBLIQUESE Y CÚMPLASE**

*Juan Lora Gutterrez*  
**JUAN LORA GUTIERREZ**

Presidente del Consejo Directivo  
 Corporación Autónoma Regional del Magdalena

*Paul Laguna Panetta*  
**PAUL LAGUNA PANETTA**  
 Secretario General  
 Corporación Autónoma Regional del Magdalena

Elaboró: Grupo Gestión de Tasas  
 Yairis Silva - Yairis Silva

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[www.corpamag.gov.co](http://www.corpamag.gov.co) - email: [contactenos@corpamag.gov.co](mailto:contactenos@corpamag.gov.co)