



**United States Environmental Protection Agency
Region 2**

Caribbean Environmental Protection Division
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Guaynabo, Puerto Rico 00968-8069

FACT SHEET

**DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
Aibonito WWTP
PERMIT No. PR0025461**

This Fact Sheet sets forth the principle facts and technical rationale that serve as the legal basis for the requirements of the accompanying draft permit. The draft permit has been prepared in accordance with Clean Water Act (CWA) section 402 and its implementing regulations at Title 40 of the *Code of Federal Regulations* (CFR), Parts 122 through 124, and the Intent to Issue Water Quality Certificate (IWQC) issued by the Puerto Rico Environmental Quality Board (EQB) pursuant to CWA section 401 requirements.

Pursuant to 40 CFR 124.53, the Commonwealth of Puerto Rico must either grant a certification pursuant to CWA section 401 or waive this certification before the U.S. Environmental Protection Agency (EPA) may issue a final permit. On April 8, 2014, EQB provided in the IWQC that the allowed discharge will not cause violations to the applicable water quality standards at the receiving water body if the limitations and monitoring requirements in the IWQC are met. In accordance with CWA section 401, EPA has incorporated the conditions of the IWQC into the draft permit. Any changes to the interim IWQC will be incorporated into the final issuance of the permit. The IWQC conditions are discussed in this Fact Sheet and are no less stringent than allowed by federal requirements. Additional requirements might apply to comply with other sections of the CWA. Review and appeals of limitations and conditions attributable to the IWQC were made through the applicable procedures of the Commonwealth of Puerto Rico and not through EPA procedures.

PART I. BACKGROUND

A. Permittee and Facility Description

The Puerto Rico Aqueduct and Sewer Authority (PRASA) (referred to throughout as the Permittee) has applied for renewal on its **Aibonito WWTP** National Pollutant Discharge Elimination System (NPDES) permit. The Permittee is discharging pursuant to NPDES Permit No. **PR0025461**. The Permittee submitted Application Form 1, and 2A dated May 30, 2012, and applied for an NPDES permit to discharge treated wastewater from **Aibonito WWTP, Aibonito**, called the facility. The facility is classified as a **major** discharger by EPA in accordance with the EPA rating criteria.

The Permittee owns and operates wastewater treatment plant which provides advanced secondary treatment. Attachment A of this Fact Sheet provides a map of the area around the facility and a flow schematic of the facility.

The treatment system consists of the following:

The Aibonito WWTP is a publicly owned treatment work (POTW) that treats sanitary wastewater through advanced secondary treatment of the domestic sewage from Aibonito. It has a capacity of 1.8 MGD (monthly average), and provides secondary treatment and discharge its effluent to the Aibonito River.

Sanitary wastewater is processed through the following units:

- Mechanical Bar Screens
- Grit Removal System
- Sequencing Batch Reactor, also known as SBR (aeration, mixer and decanter)
- Aerobic Digester
- Chlorination System

- Sludge Drying Beds
- Dechlorination System

Sludge is thickened, dewatered and disposed in a landfill.

Summary of Permittee and Facility Information

| | |
|---------------------------------------|--|
| Permittee | Puerto Rico Aqueduct and Sewer Authority (PRASA) |
| Facility contact, title, phone | Mrs. Irma Lopez, Executive Director Compliance and Quality Control (787) 620-2270 |
| Permittee (mailing) address | Puerto Rico Aqueduct and Sewer Authority P.O. Box 7066 Barrio Obrero Station Santurce, Puerto Rico 00916-7066 |
| Facility (location) address | PR Road 538, Km 0.5, La Playa Ward Aibonito, PR 00757 |
| Type of facility | Publicly-owned Treatment Works |
| Pretreatment program | Yes |
| Facility monthly average flow | 1.73 MGD (in million gallons per day) |
| Facility design flow | 1.80 MGD (in million gallons per day) |
| Facility classification | Major |

B. Discharge Points and Receiving Water Information

Wastewater is discharged from Outfall 001 to the Aibonito River, a water of the United States.

The draft permit authorizes the discharge from the following discharge point(s):

| Outfall | Effluent description | Outfall latitude | Outfall longitude | Receiving water name and classification |
|---------|--|------------------|-------------------|---|
| 001 | Advanced secondary municipal wastewater. | 18°, 08', 42" N | 66°, 16', 46" W | Aibonito River, Class SD waters |

As indicated in the Puerto Rico Water Quality Standards (PRWQS) Regulations, the designated uses for Class SD receiving waters include:

- Surface water intended for use as raw source of public water supply, propagation and preservation of desirable species; and
- Primary and secondary contact recreation.

CWA section 303(d) requires the Commonwealth of Puerto Rico to develop a list of impaired waters, establish priority rankings for waters on the list, and develop TMDLs for those waters. The receiving water has been determined to have water quality impairments for one or more of the designated uses as determined by section 303(d) of the CWA. Total maximum daily loads (TMDLs) have been developed and approved by EPA for fecal coliform.

C. Compliance Orders/Consent Decrees

The Permittee has a Consent Decree with the Agency (civil action no 06-16-24 (sec)) in which the facility is included. This consent decree does not affect this permit action.

D. Summary of Basis for Effluent Limitations and Permit Conditions - General

The effluent limitations and permit conditions in the permit have been developed to ensure compliance with the following, as applicable:

- Clean Water Act section 401 certification requirements;
- NPDES regulations (40 CFR Part 122);
- PRWQS (March 2010);
- Secondary Treatment Requirements;
- Biosolids (Sewage Sludge) requirements (40CFR Parts 257, 258 and 503); and
- Pretreatment Requirements (40CFR Part 403)

PART II. RATIONALE FOR EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

CWA section 301(b) and 40 CFR 122.44(d) require that permits include limitations more stringent than applicable technology-based requirements where necessary to achieve applicable water quality standards. In addition, 40 CFR 122.44(d)(1)(i) requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that cause, have the reasonable potential to cause, or contribute to an exceedance of a water quality criterion, including a narrative criterion. The process for determining reasonable potential and calculating water quality-based effluent limits (WQBELs) is intended to protect the designated uses of the receiving water, and achieve applicable water quality criteria. Where reasonable potential has been established for a pollutant, but there is no numeric criterion for the pollutant, WQBELs must be established using (1) EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in 40 CFR 122.44(d)(1)(vi).

The effluent limitations and permit conditions in the permit have been developed to ensure compliance with all federal and state regulations, including PRWQS. The basis for each limitation or condition is discussed below.

A. Effluent Limitations

The permit establishes **both Technology-based Effluent Limitations (TBELs) and WQBELs** for several pollutants and the basis for these limitations are discussed below.

1. **Flow:** An effluent limitation for flow has been established in the permit for 1.8 MGD as a Daily Maximum. Monitoring conditions are applied pursuant to 40 CFR 122.21(j)(4)(ii) and EQB's Interim Water Quality Certificate.

The frequency monitoring for flow shall be continuous with a flow meter.
2. **5-Day Biochemical Oxygen Demand (BOD₅):** The effluent concentration and percent removal limitations are based on technology-based secondary treatment standards for publicly owned treatment works (POTWs) specified in 40 CFR 133.102(a). The permit also requires influent monitoring and reporting in accordance with 40 CFR 122.44(i) to meet the requirement of the percent removal limitation (see section C.1.—Monitoring Requirements— of this Part).
3. **Total Suspended Solids (TSS):** The effluent concentration and percent removal limitations are based on technology-based secondary treatment standards for POTWs specified in 40 CFR 133.102(b). The permit also requires influent monitoring and reporting in accordance with 40 CFR 122.44(i) to meet the requirement of the percent removal limitation (see section C.1.—Monitoring Requirements— of this Fact Sheet).
4. **pH:** The effluent limitation for pH is based on technology-based secondary treatment standards for POTWs specified for Class SD 2c of PRWQS, and the IWQC. In no case the pH will lie outside of 6.0 to 9.0, standard pH units, except when it is altered by natural causes.
5. **Temperature:** The effluent limitation for temperature is based on the water quality criterion for all waters in Puerto Rico as specified in Rule 1303.1 D of PRWQS, and the IWQC.
6. **Fecal Coliform:** The discharge consists of domestic sewage that is a source of pathogens. To ensure that the recreational and public water supply use of the water body is met, effluent limitations for total and fecal coliforms are established in the permit and are based on the water quality criterion for **Class SD** waters as specified in the IWQC. Consistent with the expression of the water quality criteria for fecal

coliform, EPA establishes a monitoring frequency of 5 grab samples per month to calculate a geometric mean and to monitor and report the single sample result of each of the 5 samples to comply with the effluent limitation of no more than 20 percent of the single samples must be above the single-sample maximum of 200 colonies per 100 mL.

7. **Dissolved Oxygen (DO):** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2 D.2.a of PRWQS, and the IIWQC.
8. **Phosphorous (Total):** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2 D.h of PRWQS, and the IIWQC.
9. **Total Residual Chlorine (TRC):** TRC has been identified as a contaminant of concern since the facility uses chlorination to disinfect the effluent to minimize the discharge of pathogens. PRWQS do not have a numeric water quality criterion for TRC. Instead, Rule 1303(l) of PRWQS establishes a narrative water quality criterion that prohibits the discharge of toxic pollutants in toxic amounts. To protect aquatic life from the impact of TRC, the EPA has translated the narrative water quality criterion using EPA's CWA 304(a) National Recommended Water Quality Criteria for TRC and has conducted a reasonable potential analysis based on the chronic criterion of 11 ug/L and acute criterion of 19 µg/L for chlorine. The existing permit did not establish a water quality-based effluent limitation for TRC and instead established an effluent limitation of 500 ug/l (0.50 mg/l) based on the level of treatment needed to ensure that the fecal coliform water quality criteria would be met at the end-of-pipe.
10. **Whole Effluent Toxicity (WET):** The permit establishes a requirement for the Permittee to conduct accelerated testing and develop a Toxicity Reduction Evaluation (TRE) Workplan as Special Conditions. These requirements are necessary to ensure that the Permittee has a process for addressing effluent toxicity if toxicity is observed.
11. **Color:** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2.d of PRWQS, and the IWQC.
12. **Turbidity:** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2 e of PRWQS, and the IWQC.
13. **Taste and Odor Producing Substances:** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2.g of PRWQS, and the IWQC.
14. **Surfactants:** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2 C.2.i of PRWQS, and the IWQC.
15. **Oil and Grease:** The effluent limitation is based on the water quality standards as specified in Rule 1303.1.H of PRWQS, and the IWQC.
16. **Suspended. Colloidal or Settleable Solids:** The effluent limitation is based on the water quality standards as specified in Rule 1303.1.E of PRWQS, and the IWQC.
17. **Solids and Other Matters:** The effluent limitation is based on the water quality standards as specified in Rule 1303.1.A of PRWQS, and the IWQC.
18. **Copper, Mercury, Chromium, Free Cyanide, Nitrate, Nitrite, and Sulfide:** The effluent limitation is based on the water quality standards as specified in Rule 1303.1.l.1 of PRWQS, and the IWQC.
19. **Coliform (Total):** : The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2.D.2.b of PRWQS, and the IWQC.
20. **Total Dissolved Solids:** The effluent limitation is based on the water quality criterion for **Class SD** waters as specified in Rule 1303.2.D.f of PRWQS, and the IWQC.
21. **Total Ammonia (NH₃):** Ammonia has been detected in quantities above the water quality criterion of 18.000 mg/l for Class SD Waters as specified in Rule 1303.D of PRWQS and the IWQC.

B. Effluent Limitations Summary Table

1. Outfall Number 001

| Parameter | Units | Effluent limitations | | | | | |
|---|------------|----------------------|----------------------------|-----------------|----------------|------------------|-------|
| | | Averaging period | Highest Reported Value (1) | Existing limits | Interim limits | Final limits | Basis |
| BOD ₅ | mg/L | Average monthly | 12.7 | 30.0 | n/a | 5.0 | WQBEL |
| | | Average weekly | 19.3 | 45.0 | | 45.0 | TBEL |
| BOD ₅ percent removal | % | | 96.1 | 85 | n/a | 85 | TBEL |
| Color | Pt-Co | Average monthly | 30 | 30 | n/a | 15 | WQBEL |
| Copper | µg/L | Average monthly | 70 | 13 | n/a | 13 | WQBEL |
| Chromium VI | µg/L | Average monthly | 9 | -- | n/a | 11.4 | WQBEL |
| Free Cyanide | µg/L | Average monthly | 6 | 22.0 | n/a | 5.2 | WQBEL |
| Dissolved Oxygen | mg/L | Daily Maximum | 15 | ≥ 5.0 | n/a | ≥ 5.0 | WQBEL |
| Fecal Coliform | col/100 mL | Average monthly | 673 | 200 | n/a | 200 col / 100 mL | WQBEL |
| Flow | MGD | Continuous recording | 3.44 | 1.8 | n/a | 1.8 | WQBEL |
| Mercury | µg/L | Average monthly | 0.0182 | 0.114 | n/a | 0.050 | WQBEL |
| Nitrate + Nitrite as N | µg/L | Average monthly | 28,940 | 15,386 | n/a | 10,731 | WQBEL |
| Oil & Grease | mg/l | Tw ice per month | 5.3 | Monitor only | n/a | Monitor only | WQBEL |
| pH | SU | Daily maximum | 7.6 - 8.02 | 6.0 – 9.0 | n/a | 6.0 – 9.0 | WQBEL |
| Residual Chlorine | mg/L | Daily maximum | 0.65 | 0.50 | n/a | 0.50 | WQBEL |
| Sulfide (Undissociated H ₂ S) | µg/L | Quarterly | 2 | 2 | n/a | 2 | WQBEL |
| Surfactants as MBAS | µg/L | Average monthly | 397 | 1,141 | n/a | 107 | WQBEL |
| Suspended, Colloidal or Settleable Solids | ml/l | Daily maximum | 0.33 | Monitor only | n/a | Monitor only | WQBEL |
| Temperature | °F (°C) | Daily maximum | (27.8) | <32.2°C | n/a | <32.2°C | WQBEL |
| Total Ammonia (NH ₃) | mg/l | Average monthly | 7.45 | 6.013 | n/a | 1.000 | WQBEL |
| Total Coliform | Col/100ml | Average monthly | 7,889 | 10,000 | n/a | 10,000 | WQBEL |
| TDS | mg/l | Average monthly | 718 | 605 | n/a | 500 | WQBEL |
| Total Phosphorus | mg/l | Average monthly | 2.91 | 6.71 | n/a | 1.00 | WQBEL |
| TSS | mg/L | Average monthly | 21 | 30.0 | n/a | 30.0 | TBEL |
| | | Average weekly | 28.5 | 45.0 | | 45.0 | |
| TSS percent removal | % | Daily maximum | 97.3 | 85 | n/a | 85 | TBEL |
| Turbidity | NTU | Quarterly | 13 | 50 | n/a | 50 | WQBEL |

Notes, Footnotes and Abbreviations

Note: Dashes (--) indicate there are no effluent data, no limitations, or no monitoring requirements for this parameter.

(1) Wastewater data from DMRs dated January 1, 2008 to March 31, 2012 and May 30, 2012 application.

2. Outfall 001 Narrative Limitations

- a. Oil and Grease: The water of Puerto Rico shall be substantially free from floating non-petroleum oils and greases as well as petroleum derived oils and greases.
- b. The waters of Puerto Rico shall not contain any substance, attributable to the discharge at such concentration which, either alone or as result of synergistic effects with other substances, is toxic or produces undesirable physiological responses in humans, fish, or other fauna or flora.
- c. The discharge shall not cause the presence of oil sheen in the receiving water body.
- d. Solids and Other Matters: The waters of Puerto Rico shall not contain floating debris, scum, or other floating materials attributable to the discharge in amounts sufficient to be unsightly or deleterious to the existing or designated uses of the water body.
- e. Suspended, Colloidal or Settleable Solids: Solids from wastewaters source shall not cause deposition in, or be deleterious to the existing or designated uses of the water body.
- f. Taste and Odor-producing Substances: shall not be present in amounts that will interfere with the use for potable water supply, or will render any undesirable taste or odor to edible aquatic life.

C. Monitoring Requirements

NPDES regulations at 40 CFR 122.48 require that all permits specify requirements for recording and reporting monitoring results. The Part III of the Permit establishes monitoring and reporting requirements to implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements for this facility.

1. Influent Monitoring Requirements

For POTWs: **To calculate percent removal values, influent monitoring is required for BOD₅ and TSS in accordance with 40 CFR 133.102. Influent monitoring must be conducted before any treatment, other than de-gritting, and before any addition of any internal waste stream.**

2. Effluent Monitoring Requirements

Effluent monitoring frequency and sample type have been established in accordance with the requirements of 40 CFR 122.44(i) and recommendations in EPA's TSD. Consistent with 40 CFR Part 136 monitoring data for toxic metals must be expressed as total recoverable metal. Effluent monitoring and analyses shall be conducted in accordance with EPA test procedures approved under 40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, as amended. For situations where there may be interference, refer to Solutions to Analytical Chemistry Problems with Clean Water Act Methods (EPA 821-R-07-002). A licensed chemist authorized to practice the profession in Puerto Rico shall certify all chemical analyses. All bacteriological tests shall be certified by a microbiologist or licensed medical technologist authorized to practice the profession in Puerto Rico.

The sampling point for Outfall 001 shall be located immediately after the primary flow measuring device of the effluent of the treatment system.

D. Compliance with Federal Anti-Backsliding Requirements and Puerto Rico's Anti-Degradation Policy

Federal regulations at 40 CFR 131.12 require that state water quality standards include an anti-degradation policy consistent with the federal policy. The discharge is consistent with the anti-degradation provision of 40 CFR 131.12, 72 Federal Register 238 (December 12, 2007, pages 70517-70526) and EQB's *Anti-Degradation Policy Implementation Procedure* in Attachment A of PRWQS. In addition, CWA sections 402(o)(2) and 303(d)(4) and federal regulations at 40 CFR 122.44(l) prohibit backsliding in NPDES permits. Further, the Region 2 Antibacksliding Policy provides guidance regarding relaxation of effluent limitations based on water quality for Puerto Rico NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit with some exceptions where limitations may be relaxed.

- Existing effluent limitations for **2,4,-6 Trichlorophenol, 2,4- Dichlorophenol, 2,4- Dimethylphenol, 2,4- Dinitrophenol, 2-Chlorophenol, 2,Methyl-4,6 -Dinitrophenol, Pentachlorophenol, Phenol, Arsenic, Chromium III, Manganese, Fluoride, Phenolics, and Zinc** have been removed based on CWA section 402(o)(2)(B)(i). CWA section 402(o)(2)(B)(i) authorizes the backsliding of effluent

limitations if information is available which was not available at the time of permit issuance that would have justified the application of a less stringent effluent limitation at the time of permit issuance. Based on review of effluent data since issuance of the existing permit, the modified discharge does not show a reasonable potential for the exceedance of water quality criteria for these parameters.

- The proposed NPDES permit contains water quality-based effluent limitations for **Chromium VI (Cr⁺⁶)** which were not included in the previous NPDES permit. Pursuant to Section 401 (d) of the Act and 40 C.F.R. 122.44 (d) and 124.55, all State certified limitations and requirements contained in a Section 401 certification must be incorporated into a NPDES permit issued by EPA. The water quality-based limitations referenced in this paragraph have been included in the draft NPDES permit, based on EQB's IWQC.
- The water quality-based effluent limitation from the previous permit for **BOD₅, Color, Copper, Cyanide Free, Mercury, Nitrate plus Nitrite, Surfactants as MBAS, Total Ammonia (NH₃), TDS, TSS and Total Phosphorus** have been replaced with a more stringent water quality-based limitation in the Intent to Issue a WQC issued by the EQB. Pursuant to Section 401 (d) of the Act and 40 C.F.R. 122.44 (d) and 124.55, all State certified limitations and requirements contained in a Section 401 certification must be incorporated into a NPDES permit issued by EPA. The water quality-based effluent limitations referenced in this paragraph have been included in the draft NPDES permit, based on EQB's IWQC.

PART III. RATIONALE FOR STANDARD AND SPECIAL CONDITIONS

A. Standard Conditions

In accordance with 40 CFR 122.41, standard conditions that apply to all NPDES permits have been incorporated by reference in Part IV.A.1 of the permit and expressly in Attachment B of the permit. The Permittee must comply with all standard conditions and with those additional conditions that are applicable to specified categories of permits under 40 CFR 122.42 and specified in Part IV.A.2 of the Permit.

B. Special Conditions

In accordance with 40 CFR 122.42 and other regulations cited below, special conditions have been incorporated into the permit. This section addresses the justification for special studies, additional monitoring requirements, Best Management Practices, Compliance Schedules, and/or special provisions for POTWs as needed. The special conditions for this facility are as follows:

1. Special Conditions from the Water Quality Certificate

In accordance with 40 CFR 124.55, EPA has established Special Conditions from the IWQC in the permit that EQB determined were necessary to meet PRWQS. The Special Conditions established in this section are only those conditions from the IWQC that have not been established in other parts of the permit.

2. Best Management Practices (BMP) Plan

In accordance with 40 CFR 122.2 and 122.44(k), BMPs are schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution to waters of the United States. The Permittee is required to develop a BMP Plan in Part IV.B.3.a of the permit to control or abate the discharge of pollutants.

3. Compliance Schedules

A compliance schedule has not been authorized for any pollutant or parameter in the permit on the basis of 40 CFR 122.47.

4. Pre-treatment

Pursuant to the authority under Section 307 of the Act, 33 U.S.C. § 1317, EPA promulgated 40 C.F.R. Part 403 - General Pretreatment Regulations for Existing and New Sources of Pollution ("Pretreatment Regulations"). This Part establishes responsibilities of federal, state and local government, industry and the public to implement National Pretreatment Standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate sewage

sludge. It requires that the POTW develop and implement procedures to identify industrial users who contribute pollutants to the POTW and monitor their compliance with pretreatment standards.

5. Biosolids

Pursuant to the authority under Section 309 of the Act, 33 U.S.C. § 1345, EPA promulgated 40 C.F.R. Part 503 – Standards for the Use or Dispose of Sewage Sludge. This part establishes standards, which consist of general requirements, pollutant limits, management practices, and operational standards, for the final use or disposal of sewage sludge generated during the treatment of domestic sewage in treatment works. This part include standards for sewage sludge applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator. It requires pathogen and alternative vector attraction reduction requirements for sewage sludge applied to the land or placed on a surface disposal site.

PART IV. COMPLIANCE WITH APPLICABLE PROVISIONS OF OTHER FEDERAL LAWS OR EXECUTIVE ORDERS

A. Coastal Zone Management Act - Not Applicable.

B. Endangered Species Act

Under 40 CFR 122.49(c), EPA is required pursuant to section 7 of the Endangered Species Act (ESA), 16 U.S.C. 1531 *et seq.* and its implementing regulations (50 CFR Part 402) to ensure, in consultation with the National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife Service (USFWS) that the discharge authorized by the permit is not likely to jeopardize the continued existence of any endangered or threatened species or adversely affect its critical habitat. On April 16, 2009, EPA designated PRASA (a non-Federal representative) to conduct informal consultations or prepare a biological assessment for Section 7 Consultations, according to 50 CFR 402.8. In the past, no federally listed endangered or threatened species, or critical habitat, are in the vicinity of the discharge. Therefore, it has been determined that the discharge is not likely to affect species or habitat listed under the ESA.

C. Environmental Justice – Not Applicable.

D. Coral Reef Protection - Not Applicable

E. Climate Change

EPA has considered climate change when developing the conditions of the permit. This is in accordance with the draft *National Water Program 2012 Strategy: Response to Climate Change* that identifies ways to address climate change impacts by NPDES permitting authorities (77 Federal Register 63, April 2, 2012, 19661-19662). Climate change is expected to affect surface waters in several ways, affecting both human health and ecological endpoints. As outlined in the draft National Water Program 2012 Strategy, EPA is committed to protecting surface water, drinking water, and ground water quality, and diminishing the risks of climate change to human health and the environment, through a variety of adaptation and mitigation strategies. These strategies include encouraging communities and NPDES permitting authorities to incorporate climate change strategies into their water quality planning, encouraging green infrastructure and recommending that water quality authorities consider climate change impacts when developing water load and load allocations for new TMDLs, identifying and protecting designated uses at risk from climate change impacts. The 2010 *NPDES Permit Writers' Manual* also identifies climate change considerations for establishing low-flow conditions that account for possible climatic changes to stream flow. The conditions established in the permit are consistent with the draft National Water Program 2012 Strategy.

F. National Historic Preservation Act – Not applicable.

G. Magnuson-Stevens Fishery Conservation and Management Act – Not Applicable

PART V. PUBLIC PARTICIPATION

The procedures for reaching a final decision on the draft permit are set forth in 40 CFR Part 124 and are described in the public notice for the draft permit, which is published in **El Vocero**. Included in the public notice are requirements for the submission of comments by a specified date, procedures for requesting a hearing and the nature of the hearing, and other procedures for participation in the final agency decision. EPA will consider and respond in writing to all significant comments received during the public comment period in reaching a final decision on the draft permit. Requests for information or questions regarding the draft permit should be directed to

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Permit Writer Phone: 787-977-5827
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A copy of the draft permit is also available on EPA's website at www.epa.gov/region02/water/permits.html.

ATTACHMENT A — FACILITY MAP AND FLOW SCHEMATIC

The facility map and flow schematic are attached as provided by the discharger in the application.



**PLANTA DE ALCANTARILLADO
SANITARIO DE AIBONITO**

DIAGRAMA DE FLUJO

