NPDES PERMIT NO. NM0030490

FACT SHEET

FOR THE DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

APPLICANT

Dona Ana County Utilities Department South Central Regional WWTP 845 N. Motel Blvd. Las Cruces, NM 88007

ISSUING OFFICE

U.S. Environmental Protection Agency Region 6 1445 Ross Avenue Dallas, Texas 75202-2733

PREPARED BY

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DATE PREPARED

April 15, 2019

PERMIT ACTION

Proposed reissuance of the current NPDES permit issued September 25, 2013, with an effective date of November 1, 2013, and an expiration date of October 31, 2018.

RECEIVING WATER - BASIN

Rio Grande - Segment 20.6.4.101 of the Rio Grande Basin

Fact Sheet

DOCUMENT ABBREVIATIONS

In the document that follows, various abbreviations are used. They are as follows:

4Q3	Lowest four-day average flow rate expected to occur once every three years
HQ3 BAT	Best available technology economically achievable
BCT	Best available technology economically achievable Best conventional pollutant control technology
BPT	1 0,
BMP	Best practicable control technology currently available
BOD	Best management plan Biochemical ovygan demand (five day unless noted otherwise)
	Biochemical oxygen demand (five-day unless noted otherwise)
BPJ	Best professional judgment
CBOD	Carbonaceous biochemical oxygen demand (five-day unless noted otherwise) Critical dilution
CD	
CFR	Code of Federal Regulations
Cfs	Cubic feet per second
COD	Chemical oxygen demand
COE	United States Corp of Engineers
CWA	Clean Water Act
DMR	Discharge monitoring report
ELG	Effluent limitations guidelines
EPA	United States Environmental Protection Agency
ESA	Endangered Species Act
FCB	Fecal coliform bacteria
F&WS	United States Fish and Wildlife Service
mg/L	Milligrams per liter
μg/L	Micrograms per liter
MGD	million gallons per day
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMIP	New Mexico NPDES Permit Implementation Procedures
NMWQS	New Mexico State Standards for Interstate and Intrastate Surface Waters
NPDES	National Pollutant Discharge Elimination System
MQL	Minimum quantification level
O&G	Oil and grease
PCB	Polychlorinated Biphenyl
POTW	Public owned treatment works
RP	Reasonable potential
SIC	Standard industrial classification
s.u.	Standard units (for parameter pH)
SWQB	Surface Water Quality Bureau
TDS	Total dissolved solids
TMDL	Total maximum daily load
TRC	Total residual chlorine
TSS	Total suspended solids
UAA	Use attainability analysis
USGS	United States Geological Service

- WLA Wasteload allocation
- WET Whole effluent toxicity
- WQCC New Mexico Water Quality Control Commission
- WQMP Water Quality Management Plan
- WWTP Wastewater treatment plant

In this document, references to State WQS and/or rules shall collectively mean the State of New Mexico WQS.

I. CHANGES FROM THE PREVIOUS PERMIT

Changes from the permit previously issued September 25, 2013, with an effective date of November 1, 2013, and an expiration date of October 31, 2018, are:

- 1. Added Sufficiently Sensitive Methods requirements;
- 2. Added Dissolved Oxygen limit of 5 mg/L;
- 3. Added E. coli bacteria 30-day average loading limit of 5.01 billion cfu/100 ml;
- 4. Added DMR electronically reported requirement;
- 5. Changed TRC limit to 11 ug/L from 19 ug/L; and
- 6. Changed 48-hour Acute WET test to 7-days Chronic WET test.

II. APPLICATION LOCATION and ACTIVITY

As described in the application, the wastewater treatment plant is located at the intersection of East Sloan Road and Montes Road in La Mesa, Dona Ana County, New Mexico. The effluent from the treatment plant is discharged into Rio Grande in Segment 20.6.4.101 of the Rio Grande Basin. The discharge is located on that water at latitude 32° 05' 22" N and longitude 106° 39' 36" W. Under the SIC Code 4952, the discharge is from a publicly owned treatment works (POTW) with a design capacity of 1.05 MGD serving a total population of 8000.

As described in the application, the treatment processes for the facility is as follows:

The facility is a Sequencing Batch Reactor type of treatment facility. The influent wastewater first flows through a preliminary treatment process that takes place at the facility entrance works which includes a grinder, fine screen and a conveyor unit. The screened wastewater then flows into the grit chamber where settleable solids and inorganic material are removed. The pretreated wastewater then flows by gravity from the entrance works to a pre-react basin where influent will receive partial treatment before entering to the main reactor for secondary treatment.

The facility has two reactor basins which are designed to operate in an aeration, clarification and clear liquid decant sequence. During the aeration phase the reactor provided dissolved oxygen to the microorganisms. After a programmed time, interval, the aeration is sopped to allow for settling of the microorganisms from the treated wastewater. The solids settle to the bottom of the reactor and are either retained within the reactor or wasted to the sludge holding pond.

The sludge in the holding tanks is then pumped to the sludge belt press for dewatering and is then disposed of in an approved landfill.

The clarified wastewater in the reactor is then decanted after settling and flows to the Ultra Violet disinfection unit for the pathogen control. The effluent flow is measured through a parshall flume/ultrasonic flow meter and discharged to the Rio Grande River.

III. RECEIVING STREAM STANDARDS

The general and specific stream standards are provided in NMWQS (20.6.4 NMAC, approved by EPA on June 8, 2017). The facility discharges into the Rio Grande in Waterbody Segment No. 20.6.4.101 of the Rio Grande River Basin, which has designated uses of irrigation, marginal warmwater aquatic life, livestock watering, wildlife habitat and primary contact.

IV. EFFLUENT CHARACTERISTICS

A quantitative description of the discharge(s) described in the EPA Permit Application Form 2A and addendum received on October 1, 2018, and November 28, 2018, respectively, are presented below in Table 1:

Table 1		
Parameter	Max	Avg
Flow, million gallons/day (MGD)	0.59	0.38
Temperature, winter	20.30°C	17.3°C
Temperature, summer	26.8 °C	24.6 °C
pH, minimum, standard units (SU)	7.27 su	N/A
pH, maximum, standard units (SU)	7.74 su	N/A
Biochemical Oxygen Demand, (BOD)	25.25 mg/L	4.47 mg/L
Fecal Coliform (bacteria/100 ml)	400	31.53
Total Suspended Solids (TSS)	12.25 mg/L	4.47 mg/L
Ammonia (as N)	8.8 mg/L	5.8 mg/L
Total Residual Chlorine (ug/l)	0	0
Total Kjeldahl Nitrogen (TKN)	8 mg/L	8 mg/L
Nitrate plus Nitrite Nitrogen	20.5 mg/L	15.4mg/L
Dissolved Oxygen (DO)	3.05 mg/L	2.47 mg/L
Phosphorus (Total)	4.39 mg/L	3.62 mg/L
Oil and Grease	3.6 mg/L	2.97 mg/L
Total Dissolved Solids (TDS)	986 mg/L	9.80 mg/L

Footnotes:

T - Total metal form

The facility has to sample and report all the priority pollutants identified in Part D, Expanded Effluent Testing Data of Form 2A. From that list, the pollutants in Table 2 were either tested above MQLs or were tested at levels above EPA MQL and reported as being non detect. When a pollutant was tested at a detection level that was greater than the EPA MQL then for screening purposes that pollutant was assumed to have a concentration at that detection level. For toxics that were tested at the minimum quantification level (MQL) and reported as less than the MQL, those pollutants are not shown.

Parameter	Max	Avg
Copper, T	0.01 mg/l	0.01 m/l
Lead	0.0014 mg/l	0.0014 mg/l
Nickel	0.0025 mg/l	0.0025 mg/l
Hardness (as CaCO ₃)	321 mg/l	321 mg/l
Mercury	1.33 ng/l	1.2 ng/l
1,4-Dichlorobenzene	1 ug/l	1 ug/l
Total Phenolic Compounds	0.2 mg/l	0.2 mg/l
Arsenic	0.0047 mg/l	0.0047 mg/l

Table 2

A summary of the last 60 months of available pollutant data from January 2014 through January 2019, taken from DMRs shows only 1 exceedance of permit limit for BOD₅. The facility's effluent exceeded the BOD5 7-day average limit of 45 mg/L on February 29, 2016.

V. REGULATORY AUTHORITY/PERMIT ACTION

In November 1972, Congress passed the Federal Water Pollution Control Act establishing the NPDES permit program to control water pollution. These amendments established technologybased or end-of-pipe control mechanisms and an interim goal to achieve "water quality which provides for the protection and propagation of fish, shellfish, and wildlife and provides for recreation in and on the water" more commonly known as the "swimmable, fishable" goal. Further amendments in 1977 of the CWA gave EPA the authority to implement pollution control programs such as setting wastewater standards for industry and established the basic structure for regulating pollutants discharges into the waters of the United States. In addition, it made it unlawful for any person to discharge any pollutant from a point source into navigable waters, unless a permit was obtained under its provisions. Regulations governing the EPA administered NPDES permit program are generally found at 40 CFR § 122 (program requirements & permit conditions), §124 (procedures for decision making), §125 (technology-based standards) and § 136 (analytical procedures). Other parts of 40 CFR provide guidance for specific activities and may be used in this document as required.

It is proposed that the permit be reissued for a 5-year term following regulations promulgated at 40 CFR §122.46(a). The existing NPDES permit initially issued September 25, 2013, with an effective date of November 1, 2013, and an expiration date of October 31, 2018 is administratively continued until this permit is reissued.

VI. DRAFT PERMIT RATIONALE AND PROPOSED PERMIT CONDITIONS

A. OVERVIEW of TECHNOLOGY-BASED VERSUS WATER QUALITY STANDARDS-BASED EFFLUENT LIMITATIONS AND CONDITIONS

Regulations contained in 40 CFR §122.44 require that NPDES permit limits are developed that meet the more stringent of either technology-based ELGs, numerical and/or narrative water quality standard-based effluent limits, or the previous permit.

Technology-based effluent limitations are established in the proposed draft permit for TSS and BOD₅, and percent removal for both. Water quality-based effluent limitations are established in the proposed draft permit for *E. coli* bacteria, TRC, and pH.

B. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated at 40 CFR §122.44 (a) require technology-based effluent limitations to be placed in NPDES permits based on ELGs where applicable, on BPJ in the absence of guidelines, or on a combination of the two. In the absence of promulgated guidelines for the discharge, permit conditions may be established using BPJ procedures. EPA establishes limitations based on the following technology-based controls: BPT, BCT, and BAT. These levels of treatment are:

BPT – The first level of technology-based standards generally based on the average of the best existing performance facilities within an industrial category or subcategory.

BCT – Technology-based standard for the discharge from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and O&G.

BAT – The most appropriate means available on a national basis for controlling the direct discharge of toxic and non-conventional pollutants to navigable waters. BAT effluent limits represent the best existing performance of treatment technologies that are economically achievable within an industrial point source category or subcategory.

The facility is a POTW. POTWs have technology-based ELGs established at 40 CFR 133, Secondary Treatment Regulation. Pollutants with ELGs established in this Chapter are BOD, TSS and pH. BOD₅ limits of 30 mg/L for the 30-day average, 45 mg/L for the 7-day average, and 85% percent (minimum) removal are found at 40 CFR §133.102 (a). TSS limits of 30 mg/L for the 30-day average, 45 mg/L for the 7-day average, and 85% percent (minimum) removal are found at 40 CFR §133.102(b). ELGs for pH are between 6-9 standard units (su) and are found at 40 CFR §133.102 (c). Regulations at 40 CFR § 122.45 (f)(1) require all pollutants limited in permits to have limits expressed in terms of mass such as pounds per day. When determining mass limits for POTWs or WWTPs, the plant's design flow is used to establish the mass load. Mass limits in Table 3 are determined by the following mathematical relationship:

Loading in lbs/day = pollutant concentration in mg/L * 8.345 lbs/gal * design flow in MGD

30-day average TSS loading = 30 mg/l * 8.345 lbs/gal * 1.05 MGD 30-day average TSS loading = 263 lbs

7-day average TSS loading = 45 mg/l * 8.345 lbs/gal * 1.05 MGD 7-day average TSS loading = 394 lbs

30-day average BOD₅ loading = 30 mg/l * 8.345 lbs/gal * 1.05 MGD 30-day average BOD₅ loading = 263 lbs

7-day average BOD₅ loading = 45 mg/l * 8.345 lbs/gal * 1.05 MGD 7-day average BOD₅ loading = 394 lbs

Technology-Based Effluent Limits – 1.05 MGD design flow.

Table 3				
EFFLUENT	30-Day Avg.	7-Day Avg.	30-Day Avg.	7-Day Avg.
CHARACTERISTICS				
Flow	N/A	N/A	Measure MGD	Measure MGD
BOD ₅	263 lbs/Day	394 lbs/Day	30 mg/L	45 mg/L
BOD ₅ , % removal,	≥85%			
minimum ^{*1}				
TSS	263 lbs/Day	394 lbs/Day	30 mg/L	45 mg/L
TSS, % removal,	≥85%			
minimum ^{*1}				

*1 % removal is calculated using the following equation: [(average monthly influent concentration – average monthly effluent concentration) \div average monthly influent concentration] * 100.

The facility will be required to maintain a log and kept at the facility showing the influent of BOD_5 and TSS on a once per week frequency to be used to determine the removal percentage. This data is not required to be submitted but must be made available to EPA or its agents upon request.

C. WATER QUALITY BASED LIMITATIONS

1. General Comments

Water quality-based requirements are necessary where effluent limits more stringent than technology-based limits are necessary to maintain or achieve federal or state water quality limits. Under Section 301 (b)(1)(C) of the CWA, discharges are subject to effluent limitations based on federal, state or tribal WQS. Effluent limitations and/or conditions established in the draft permit are in compliance with the State/Tribal WQS and applicable State water quality management plans to assure that surface WQS of the receiving waters are protected and maintained, or attained.

2. Implementation

The NPDES permits contain technology-based effluent limitations reflecting the best controls available. Where these technology-based permit limits do not protect water quality or the designated uses, additional water quality-based effluent limitations and/or conditions are included in the NPDES permits. State narrative and numerical water quality standards are used in conjunction with EPA criteria and other available toxicity information to determine the adequacy of technology-based permit limits and the need for additional water quality-based controls.

3. State Water Quality Standards

The general and specific stream standards are provided in NMWQS (20.6.4 NMAC, approved by EPA on June 8, 2017). The facility discharges into the Rio Grande in Waterbody Segment No. 20.6.4.101 of the Rio Grande River Basin, which is classified as an intermittent stream and has designated uses of irrigation, marginal warmwater aquatic life, livestock watering, wildlife habitat and primary contact.

4. Permit Action - Water Quality-Based Limits

Regulations promulgated at 40 CFR 122.44(d) require limits in addition to, or more stringent than ELGs (technology based). State WQS that are more stringent than ELGs are as follows:

a. pH

The State of New Mexico WQS criteria applicable to the warmwater aquatic life designated use require pH to be between 6.6 and 9.0 s.u. This is more restrictive than the mentioned technology-based limits. The pH limits of 6.6 to 9.0 su in the previous permit will be continued in the draft permit.

b. Bacteria

The NMWQS criteria require E. coli of 126 cfu/100 mL monthly geometric mean and single sample of 410 cfu/100 ml, end-of-pipe to protect the primary contact designated use. The E. coli bacteria limits of 126 cfu/100 mL (monthly geometric mean) and 410 cfu/100 mL (single maximum) in the previous permit will be continued in the draft permit.

c. Dissolved Oxygen (DO)

The State of New Mexico WQS criterion applicable to the warm-water aquatic life designated use is at least 5 mg/L for dissolved oxygen. The State establishes a critical low flow designated as 4Q3, as the minimum average four consecutive day flow which occurs with a frequency of once in three years. The NMED provided the 4Q3 of 0 cfs for the Rio Grande waterbody (Segment No. 20.6.4.101 of the Rio Grande River Basin). No modeling to evaluate the biochemical oxygen demand of the discharge was conducted. Since 4Q3 is zero, the discharge must meet end-of-pipe criteria.

- d. Toxics
 - (i) General Comments

The CWA in Section 301 (b) requires that effluent limitations for point sources include any limitations necessary to meet water quality standards. Federal regulations found at 40 CFR §122.44 (d) state that if a discharge poses the reasonable potential to cause an in-stream excursion above water quality criteria, the permit must contain an effluent limit for that pollutant.

All applicable facilities are required to fill out appropriate sections of the Form 2A to apply for an NPDES permit or reissuance of an NPDES permit. The new form is applicable not only to POTWs, but also to facilities that are similar to POTWs, but which do not meet the regulatory definition of "publicly owned treatment works" (like private domestics, or similar facilities on Federal property). The forms were designed and promulgated to "make it easier for permit applicants to provide the necessary information with their applications and minimize the need for additional follow-up requests from permitting authorities," per the summary statement in the preamble to the Rule. These forms became effective December 1, 1999, after publication of the final rule on August 4, 1999, Volume 64, Number 149, pages 42433 through 42527 of the FRL.

The facility is designated as a major and submitted to EPA the NPDES Form 2A application and addendum on October 1, 2018 and November 28, 2018, respectively. The pollutants were either tested above MQLs or were tested at levels above EPA MQL and reported as being non detect are listed in Table 2 in Part IV of this fact sheet. Copper, Lead, Nickel, Arsenic, Mercury, 1,4-Dichlorobenzene and Total Phenolic Compounds were found above minimum MQL. All of these pollutants will be evaluated for RP to cause or contribute to WQS exceedances. If RP exists, the screen would also calculate the appropriate permit limit needed to be protective of such designated uses. The EPA conducted the RP screening analysis which is based on the NMIP as of March 15, 2012. The results of the RP screening (see Appendix 1) demonstrate no RP to exceed the State water quality standards consistent with the designated uses for the receiving water.

(ii) TRC

The facility uses UV disinfection, so chlorine is not normally added to the effluent. For TRC, State WQS establish acute end-of-pipe criteria of 19 μ g/L and chronic in-stream criteria of 11 μ g/L. The current permit established a limit of 19 μ g/L. The receiving stream classification is intermittent, and the new critical condition for the facility is 100%. The draft permit proposes a TRC limit of 11 μ g/L, when chlorine is used.

5. 303(d) List Impacts

The "2016-2018 State of New Mexico Integrated Clean Water Act Section 303(d) / 305(b)Report" indicates the Rio Grande, in WQS Segment No. 20.6.4.101, is not supporting for irrigation and primary contact use. The probable cause are dissolved Boron and E.coli, respectively. EPA approved June 11, 2007, a NMED TMDL for the Main Stem of the Lower Rio Grande (From the International Boundary with Mexico to Elephant Butte Dam) for E.coli. The EPA incorporated wasteload allocation for the facility into the draft permit as an E. coli 30day average loading limit of 5.01 billion (1.0 x 10⁹) cfu/day. The E. coli loading limit shall be calculated as follows:

[Flow in MGD x cfu/100 mL in effluent x 3.79×10^7] / 1.0×10^9

The standard reopener language in the permit allows additional permit conditions if warranted by new or revised TMDLs.

D. MONITORING FREQUENCY FOR LIMITED PARAMETERS

Regulations require permits to establish monitoring requirements to yield data representative of the monitored activity 40 CFR 122.48(b) and to assure compliance with permit limitations 40 CFR 122.44(i)(1). Technology based pollutants; BOD₅ and TSS, are proposed to be monitored once per week consistent with the previous permit. Sample type for BOD₅ and TSS is 6-hour composite. Flow shall be sampled continuously (daily) by totalizing meter consistent with the previous permit. The technology-based monitoring frequencies are consistent with the NMIP.

Water quality-based pollutant monitoring frequency for *E. coli* shall be sampled once a week using grab samples, which is consistent with the previous permit and the NMIP. The draft permit proposes that TRC (when chlorine is used) be measured daily and pH 5 per week by instantaneous grab (field measurement) and grab, respectively. Regulations at 40 CFR Part 136 define instantaneous grab as being analyzed within 15-minutes of collection. The draft permit proposes that total dissolved oxygen be sampled once per week using grab samples.

E. WHOLE EFFLUENT TOXICITY (WET) REQUIREMENTS

Analysis of the facility past WET data to determine RP was conducted and shown in the Appendix 2. The results show no reasonable potential. EPA concludes that based on the passed WET tests and the Reasonable Potential Analyzer, reasonable potential to cause toxicity does not exist. The draft permit will not propose any WET limits. However, continuation of WET monitoring is proposed in the draft permit.

Procedures for implementing WET terms and conditions in NPDES permits are contained in the NMIP. Table 11 (page 42) of the NMIP outlines the type of WET testing for different types of discharges. Based on the plant design flow (1.05MGD) and the new stream critical low flow (4Q3 of 0 cfs), the new critical condition for the facility is 100%. The permittee shall conduct a 7-day chronic test using a once per quarter frequency for *Ceriodaphnia dubia* and a once per quarter frequency for the entire permit term for *Pimephales promelas*. If during the first year all four tests pass both the lethal and sub-lethal test end points, then the permit may allow a frequency reduction of once per six-months for *Ceriodaphnia dubia* only. Any failure shall reestablish all tests for the *Ceriodaphnia dubia* test species to once per three-month for the remainder of the permit. The *Ceriodaphnia dubia* test species shall resume monitoring at a once per quarter frequency on the last day of the permit.

The proposed permit requires five (5) dilutions in addition to the control (0% effluent) to be used in the toxicity tests based on a 1 dilution series. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. This test would also demonstrate that the downstream Rio Pueblo de Taos is also being protected from WET.

The permittee shall conduct separate whole effluent toxicity tests in accordance with the Table 4.

Table 4

WHOLE EFFLUENT TOXICITY			
(7-day Static renewal) 1/		MEASUREMENT	
	NOEC	FREQUENCY	SAMPLE TYPE
Pimephales promelas	Report	Once/Quarter	24-Hr Composite
Ceriodaphnia dubia	Report	Once/Quarter	24-Hr Composite

FOOTNOTE:

 $\underline{1}$ / Monitoring and reporting requirements begin on the effective date of this permit. See Part II, Whole Effluent Toxicity Testing Requirements for additional WET monitoring and reporting conditions.

F. EFFLUENT TESTING FOR APPLICATION RENEWAL

In addition to the parameters identified in this fact sheet, EPA designated major POTW's are required to sample and report other parameters listed in tables of the EPA Form 2A and WET testing for its permit renewal. The minimum pollutant testing for NPDES permit renewals specified in Form 2A requires three samples for each of the parameters being tested. Current practice is to obtain the three samples over a short time frame, sometimes within two weeks during the permit renewal purposes, the draft permit shall require that the testing for Tables A.12, B.6, and Part D of EPA Form 2A, or its equivalent if modified in the future, during the second, third and fourth years after the permit effective date. This testing shall coincide with any required WET testing event for that year. The permittee shall report the results as a separate attachment in tabular form sent to the Permitting Section Chief of the Water Division within 60 days of receipt of the lab analysis and shall also be reported on the NPDES permit renewal application Form 2A or its equivalent/replacement.

VII. FACILITY OPERATIONAL PRACTICES

A. SEWAGE SLUDGE PRACTICES

The permittee shall use only those sewage sludge disposal or reuse practices that comply with the federal regulations established in 40 CFR Part 503 "Standards for the Use or Disposal of Sewage Sludge". EPA may at a later date issue a sludge-only permit. Until such future issuance of a sludge-only permit, sludge management and disposal at the facility will be subject to Part 503 sewage sludge requirements. Part 503 regulations are self-implementing, which means that facilities must comply with them whether or not a sludge-only permit has been issued. Part IV of the draft permit contains sewage sludge permit requirements.

B. WASTE WATER POLLUTION PREVENTION REQUIREMENTS

The permittee shall institute programs directed towards pollution prevention. The permittee will institute programs to improve the operating efficiency and extend the useful life of the treatment system.

C. INDUSTRIAL WASTEWATER CONTRIBUTIONS

The treatment plant has no non-categorical Significant Industrial User's (SIU) and no Categorical Industrial User's (CIU). The EPA has tentatively determined that the permittee will not be required to develop a full pretreatment program. However, general pretreatment provisions have been required. The facility is required to report to EPA, in terms of character and volume of pollutants any significant indirect dischargers into the POTW subject to pretreatment standards under Section307(b) of the CWA and 40 CFR Part 403.

D. OPERATION AND REPORTING

The applicant is required to operate the treatment facility at maximum efficiency at all times; to monitor the facility's discharge on a regular basis; and report the results <u>monthly</u>. Reporting requirements and the requirement of using EPA-approved test procedures (methods) for the analysis and quantification of pollutants or pollutant parameters are contained in 40 CFR 122.41(l) and 40 CFR 122.21 (e), respectively. As required by 40 CFR 127.16, all Discharge Monitoring Reports (DMRs) shall be electronically reported. The monitoring results will be available to the public.

VIII. ANTIDEGRADATION

The State of New Mexico (Section 20.6.4.8 of the NMAC) has antidegradation requirements to protect existing uses through implementation of their WQS. The limitations and monitoring requirements set forth in the proposed draft are developed from the appropriate the State of New Mexico WQS and are protective of those designated uses. Furthermore, the policy's set forth the intent to protect the existing quality of those waters, whose quality exceeds their designated use. The permit requirements and the limits are protective of the assimilative capacity of the receiving waters, which is protective of the designated uses of that water. This permit reissuance is for an existing discharger that is not expanding, so anti-degradation requirements do not apply

IX. ANTIBACKSLIDING

The proposed permit is consistent with the requirements to meet anti-backsliding provisions of the Clean Water Act, Section 402(o) and 40 CFR 122.44(l)(i)(A), which state in part that interim or final effluent limitations must be as stringent as those in the previous permit, unless material and substantial alterations or additions to the permitted facility occurred after permit issuance which justify the application of a less stringent effluent limitation. The proposed permit maintains the CBOD5 and TSS mass loading requirements and the pH concentration limit of the previous permit. The TRC concentration limit has been revised to make it consistent with the requirement of receiving stream classification. E. coli loading and DO limits have been added

and the WET testing requirement have been revised to make more stringent in the draft permit to protect designated uses.

X. ENDANGERED SPECIES CONSIDERATIONS

According to the most recent county listing available at US Fish and Wildlife Service (USFWS), Southwest Region 2 website, <u>http://www.fws.gov/southwest/es/EndangeredSpecies/lists/</u>, four species in Taos County are listed as endangered (E) or threatened (T). Three species are birds and include the Least tern (Sterna antillarum) (E), the Southwestern Willow Flycatcher *(Empidonax traillii extimus)* (E), the Yellow-billed Cuckoo (*Coccyzus americanus*) (T). One specie is flowering plants and include Sneed pincushion cactus (*Coryphantha sneedii var. sneedii*) (E).

In accordance with requirements under section 7(a)(2) of the Endangered Species Act, EPA has reviewed this permit for its effect on listed threatened and endangered species and designated critical habitat. After review, EPA has determined that the reissuance of this permit will have "*no effect*" on the plant species, Sneed pincushion cactus, listed endangered species in Dona Ana County. Evaluations of impacts to bird species are discussed below because those species may have potential to contact the receiving water

Southwestern Willow Flycatchers habitat occurs in riparian areas along streams, rivers, and other wetlands where dense willow, cottonwood, buttonbush and arrow weed are present. The primary reason for decline is the reduction, degradation and elimination of the riparian habitat. Other reasons include brood parasitism by the brown-headed cowbird and stochastic events like fire and floods that destroy fragmented populations. The draft permit does not authorize activities that may cause destruction of the flycatcher habitat, and issuance of the permit will have no effect on this species.

The **Yellow-billed Cuckoo** is a Neotropical migrant bird that winters in South America and breeds in North America. The yellow-billed cuckoo has been listed as endangered. The primary cause of loss and degradation of yellow-billed cuckoo is the loss and degradation of riparian breeding habitat, which is believed to have caused the declines in the distribution and abundance of the species Conversion to agriculture and other land uses, urbanization, dams and river flow management, stream channelization and bank stabilization, and livestock grazing are the causes of riparian habitat losses. The draft permit does not authorize activities that may cause destruction of the yellow-billed cuckoo habitat, and issuance of the permit will have no effect on this species.

The **Interior least terns** breed in the Mississippi and Rio Grande River Basins from Montana to Texas and from eastern New Mexico and Colorado to Indiana and Louisiana. In New Mexico, Interior least terns occur at three reservoirs along the Rio Grande River and along the Pecos River at the Bitter Lake National Wildlife Refuge, New Mexico. From late April to August they occur primarily on barren to sparsely vegetated riverine sandbars, dike field sandbar islands, sand and gravel pits, and lake and reservoir shorelines. Threats to the survival of the species include the actual and functional loss of riverine sandbar habitat. Channelization and

impoundment of rivers have directly eliminated nesting habitat. The draft permit does not authorize activities that may cause destruction of the Interior least terns habitat, and issuance of the permit will have no effect on this species.

The proposed permit does not authorize constructions and land development, nor will cause release of toxic pesticides or spread of disease. Based on the information available to EPA, that the reissuance of this permit will have no effect on these federally listed threatened or endangered species.

XI. HISTORICAL and ARCHEOLOGICAL PRESERVATION CONSIDERATIONS

The reissuance of the permit should have no impact on historical and/or archeological sites since no construction activities are planned in the reissuance.

XII. PERMIT REOPENER

The permit may be reopened and modified during the life of the permit if relevant portions of either State or Pueblo WQS are revised or remanded. In addition, the permit may be reopened and modified during the life of the permit if relevant procedures implementing the State Water Quality Standards are either revised or promulgated. Should either the State adopts a new WQS, and/or develop or amend a TMDL, this permit may be reopened to establish effluent limitations for the parameter(s) to be consistent with that approved standard and/or water quality management plan, in accordance with 40 CFR 122.44(d). Modification of the permit is subject to the provisions of 40 CFR 124.5.

XIII. VARIANCE REQUESTS

No variance requests have been received.

XIV. CERTIFICATION

The permit is in the process of certification by the State of New Mexico following regulations promulgated at 40 CFR §124.53. A draft permit and draft public notice will be sent to the District Engineer, Corps of Engineers; to the Regional Director of the U.S. Fish and Wildlife Service and to the National Marine Fisheries Service prior to the publication of that notice.

XV. FINAL DETERMINATION

The public notice describes the procedures for the formulation of final determinations.

XVI. ADMINISTRATIVE RECORD

The following information was used to develop the proposed permit:

A. APPLICATION(s)

Facility submitted to EPA Application Form 2A on October 1, 2018 and provided supplemental information via email on November 28, 2018.

B. 40 CFR CITATIONS

Citations to 40 CFR as of March 25, 2011.

Sections 122, 124, 125, 133, 136

C. STATE WATER QUALITY REFERENCES

New Mexico State Standards for Interstate and Intrastate Surface Water, 20.6.4 NMAC, effective March 2, 2017.

Procedures for Implementing National Pollutant Discharge Elimination System Permits in New Mexico, March 2012.

Statewide Water Quality Management Plan, December 17, 2002.

State of New Mexico 303(d) List for Assessed Stream and River Reaches, 2016-2018.

D. OTHER

Compliance Evaluation Inspection of the Dona Ana County South Central Wastewater Treatment Plant NPDES Permit Number NM0030490, January 27, 2017.

Appendix 1

					CALCULAT	IONS OF N	EW MEXIC	O WATE	R QUALITY-B	ASED EFFL	UENT LIMIT	ATIONS				
NMAC 20.6.4.									dmium, and zinc o							
Calculations Speci	fications:				Excel	1	s of July 10									
Prepared By:					Quang Nguye	n										
STEP 1:	REFERENCE I	MPLEMENTATIC	N PROCEDUR	RES			Append	ix 1								
	NPUT FACILI	TY AND RECEIV	ING STREAM	IDATA												
	LIST SOURCE	OF DATA INPL	Л													
IMPLEMENTATION	PROCEDURE	S														
The State of New	Mexico Stand	ards for Interst	ate and Intras	state Surfa	ace Waters ar	e implemented	in this spread	sheet								
by using procedur	es establishe	d in the current	"Procedures	for Implen	nenting NPDES	Permits in Nev	v Mexico"									
FACILTY							DATA INPUT									
Permittee							Dona Ana									
NPDES Permit No.							NM0030490									
Outfall No.(s)							1									
Plant Effluent Flow	(MGD)						1.05		For industria	al and federal f	acility, use the	highest monthly	average flow			
Plant Effluent Flow	(cfs)						1.6275		for the past 2	24 months. Fo	r POTWs, use t	he design flow				
RECEIVING STREA	М						DATA INPUT									
Receiving Stream	Name						Rio Grande									
Basin Name							Rio Grande E	asin								
Waterbody Segme	nt Code No.						20.6.4.101									
Is a publicly ow ne	d lake or rese	rvoir (enter "1"	if it's a lake, '	'0" if not)			0									
Are acute aquatic	life criteria co	onsidered (1= ye	es, 0= no)	(MUST en	ter "1" for 200	5 Standards)	1									
Are chronic aquati	ic life criteria	considered (1=	yes, 0=no)				1									
Are domestic wate				,			0									
Are irrigation wate							1									
Livestock w atering	g and w ildlife	habitat criteria a	applied to all s	streams												
USGS Flow Station							USGS									
WQ Monitoring Sta							SJR									
Receiving Stream							66.48				er effluent TSS					
Receiving Stream			,		RANGE: 0 - 4	JU	273				er effluent Hard	ness (If no dat	a, 20 mg/l is us	ied)		
Receiving Stream)				0			intermittent str		, · ·			<u> </u>	
Receiving Stream							0		Enter harmor	nic mean or mo	dified harmonic	mean flow dat	ta or 0.001 if n	o data is avai	able	
Avg. Receiving Wa		ure (C)					24.6									
pH (Avg), Receivir	•						7.74		Enter A.M. 1			l de la companya de l				
Fraction of stream Fraction of Critical		nixing (F)					10		Enter 1, if str	eam morpholo	gy data is not a	vailable or for i	ntermittent stre	eams.		

STEP 2:	INPUT AMBIE	NT AND EFFLUE	NT DATA													
	CALCULATE	IN-STREAM WAS	STE CONCE	NTRATION	NS .											
DATA INPUT			Input polluta	ant deome	tric mean conce	entration as mic	ro-gram per li	ter (ua/l or ppt	5)							
				-	pecified for the				,							
							ut the DL is a	reater than MC)L. input "1/2	DL" for calculat	ion.					
					ed as "< detecti											
					kue is reported	. ,										
			The follow i	na formula	ar is used to ca	lculate the Instr	eam Waste O	oncentration (Cd)							
				-	cedures for Imp				,							
					e*2.13*Ce)] / (F	-										
			Where:													
				am Waste	Concentration											
						mixing (see "Pi	ocedures for	Implementing I	NPDES Permi	its in New Mexic	o")					
					Intration in efflu						- /					
					concentration (charge									
			Qe = Plant e				unungu									
						ischarge point	expressed as	the 4Q3 or ha	irmonic mear	n flow for humar	health criteri	а				
					or ourounnut u						THOULT ON OT	u				
The follow ing fo	rmular convert	metals reported	in total form	to dissolv	ed form if crite	ria are in dissol	ved form									
See the current																
Kp = Kpo * (TSS						artition coefficie	nt: Koo and a	can be found	in table belo	w						
C/Ct = 1/ (1 + Kp										n (or in effluent i	for intermitten	t stream)				
Total Metal Criter		C/Ct)				n of metal disso			-							
			Stream Line	ear Partitio	n Coefficient					Lake Linear Pa	rtition Coeffic	ient				
Total Metals	Total Value			alpha (a)		C/Ct	Dissolved Va	alue in Stream		Кро	alpha (a)	Кр	C/Ct	Dissolved V	alue in Lake	
							,							r		
Arsenic			480000	-0.73	22422.12656	0.401505973	#VALUE!			480000	-0.73	22422.12656	0.401505973	#VALUE!		
Chromium III			3360000	-0.93	67801.084	0.181573353	0			2170000	-0.27	698768.2456	0.021072989	0		
Copper	10		1040000	-0.74	46584.5593	0.24408452	2.4408452			2850000	-0.9	65226.33104	0.18739764	1.8739764		
Lead	1.4		2800000	-0.8	97500.13628	0.133657514	0.18712052			2040000	-0.53	220599.1993	0.063834807	0.0893687		
Nickel	2.5		490000	-0.57	44798.36912	0.251370246	0.62842561			2210000	-0.76	91022.15333	0.141820782	0.354552		
Silver			2390000	-1.03	31697.58389	0.321827426	#VALUE!			2390000	-1.03	31697.58389	0.321827426	#VALUE!		
Zinc			1250000	-0.7	66225.66157	0.185093256	#VALUE!			3340000	-0.68	192449.408	0.072495095	#VALUE!		
The follow ing fo	rmular is used t	to calculate hard	ness depen	dent crite	ria					Dissolved						
		ality Standards f								WQC (ug/l)						
Aluminum (T)			Acute			e(1.3695[ln(ha	ardness)]+1.8	308)		13534.15303		If Stream pH <	6.5, enter 750	in cell 0113		
			Chronic			e(1.3695[ln(ha	ardness)]+0.9	161)		5422.279747		If Stream pH <	6.5, enter 87 ir	n cell P113		
Cadmium (D)			Acute			e(0.8968[ln(ha	ardness)]-3.56	699)*CF1		3.886521766		CF1 = 1.13667	'2 - 0.041838*lr	n(hardness)		
			Chronic			e(0.7647[ln(ha	ardness)]-4.2	180)*CF2		0.931300836		CF2 = 1.10167	'2 - 0.041838*lr	n(hardness)		

Fact Sheet

										Dissolved						
										WQC (ug/l)						
Chromium III (D)			Acute				9[In(hardness)]			1296.915893						
			Chronic				9[In(hardness)]			168.7021123						
Copper (D)			Acute				22[In(hardness			34.61968085						
			Chronic				15[In(hardness			21.12530592						
Lead (D)			Acute				rdness)]-1.46)			189.015584			3 - 0.145712*ln(
			Chronic				rdness)]-4.705			7.365665948		CF4 = 1.4620	3 - 0.145712*ln(hardness)		
Manganese (D)			Acute				ardness)]+6.4			4171.850807						
			Chronic				ardness)]+5.8			2304.951825						
Nickel (D)			Acute				6[In(hardness)]			1095.111141						
			Chronic			0.997 e(0.84	6[In(hardness)]	+0.0584)		121.6330384						
Silver (D)			Acute			0.85 e(1.72[lr	n(hardness)]-6	.59)		18.0974774						
Zinc (D)			Acute			0.978 e(0.90	94[In(hardness)]+0.9095)		398.8191443						
			Chronic			0.986 e(0.90	947[In(hardnes	s)]+0.6235)		302.1874104						
						Instrea	m Waste Conce	entration				Livestock&	Acute	Chronic	Human	Need
POLLUTANTS				Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Aquatic	Aquatic	Health	TMDL
				Conc.	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	Criteria	Criteria	Criteria	Criteria	Criteria	
		CAS No.	MQL	Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Radioactivity, Nut	trients, and	l Chlorine														
Aluminum, total		7429-90-5	2.5			#VALUE!	#VALUE!	#VALUE!	#VALUE!	1E+100	5000	1E+100	13534.15303	5422.2797	1E+100	N/A
Barium, dissolved		7440-39-3	100			#VALUE!	#VALUE!	#VALUE!	#VALUE!	2000	1E+100	1E+100	1E+100	1E+100	1E+100	Need TMDL
Boron, dissolved		7440-42-8	100			0	0	0	0	1E+100	750	5000	1E+100	1E+100	1E+100	N/A
Cobalt, dissolved		7440-48-4	50			0	0	0	0	1E+100	50	1000	1E+100	1E+100	1E+100	N/A
Uranium, dissolved	ł	7440-61-1	0.1			#VALUE!	#VALUE!	#VALUE!	#VALUE!	30	1E+100	1E+100	1E+100	1E+100	1E+100	Need TMDL
Vanadium, dissolv	ed	7440-62-2	50			0	0	0	0	1E+100	100	100	1E+100	1E+100	1E+100	N/A
Ra-226 and Ra-22	8 (pCi/l)					0	0	0	0	5	1E+100	30	1E+100	1E+100	1E+100	N/A
Strontium (pCi/l)						#VALUE!	#VALUE!	#VALUE!	#VALUE!	8	1E+100	1E+100	1E+100	1E+100	1E+100	Need TMDL
Tritium (pCi/l)						0	0	0	0	20000	1E+100	20000	1E+100	1E+100	1E+100	N/A
Gross Alpha (pCi/l))					0	0	0	0	15	1E+100	15	1E+100	1E+100	1E+100	N/A
Asbestos (fibers/l))					0	0	0	0	7000000	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Total Residual Chlo	orine	7782-50-5	33			0	0	0	0	1E+100	1E+100	11	19	11	1E+100	N/A
Nitrate as N (mg/l)						0	0	0	0	10	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Nitrite + Nitrate (mg	g/l)			480.000	20.5	43.665	43.665	43.665	43.665	1E+100	1E+100	132	1E+100	1E+100	1E+100	Need TMDL
METALS AND CY	ANIDE															
Antimony, dissolve	ed (P)	7440-36-0	60			#VALUE!	#VALUE!	#VALUE!	#VALUE!	6	1E+100	1E+100	1E+100	1E+100	640	N/A
Arsenic, dissolved	i (P)	7440-38-2	0.5		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	10	100	200	340	150	9	N/A
Beryllium, dissolve	d	7440-41-7	0.5			#VALUE!	#VALUE!	#VALUE!	#VALUE!	4	1E+100	1E+100	1E+100	1E+100	1E+100	Need TMDL
Cadmium, dissolve	d	7440-43-9	1			0	0	0	0	5	10	50	3.886521766	0.9313008	1E+100	N/A
Chromium (III), diss	olved	16065-83-1	10			0	0	0	0	1E+100	1E+100	1E+100	1296.915893	168.70211	1E+100	N/A
Chromium (VI), dis:	solved	18540-29-9	10			0	0	0	0	1E+100	1E+100	1E+100	16	11	1E+100	N/A
Chromium, dissolve	ed	7440-47-3				0	0	0	0	100	100	1000	1E+100	1E+100	1E+100	N/A
Copper, dissolved		7440-50-8	0.5		2.4408452	5.199000276	#VALUE!	#VALUE!	#VALUE!	1300	200	500	34.61968085	21.125306	1E+100	Need TMDL
Lead, dissolved		7439-92-1	0.5		0.18712052	0.398566707	#VALUE!	#VALUE!	#VALUE!	15	5000	100	189.015584	7.3656659	1E+100	Need TMDL
Manganese, dissol	lved	7439-96-5				0	0	0	0	1E+100	1E+100	1E+100	4171.850807	2304.9518	1E+100	N/A

					Instream	n Waste Conc	entration		Livestock&	Acute	Chronic	Human	Need		
			Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Aquatic	Aquatic	Health	TMDL
			Conc	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	Criteria	Criteria	Criteria	Criteria	Criteria	
	CAS No.	MQL	Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
ł	7439-97-6	0.005			0	0	0	0	1E+100	1E+100	1E+100	1.4	0.77	1E+100	N/A
	7439-97-6	0.005		0.00133	0.0028329	#VALUE!	#VALUE!	#VALUE!	2	1E+100	0.77	1E+100	1E+100	1E+100	Need TMDL
olved	7439-98-7				0	0	0	0	1E+100	1000	1E+100	1E+100	1E+100	1E+100	NA
recoverable	7439-98-7				0	0	0	0	1E+100	1E+100	1E+100	7920	1895	1E+100	NA
		0.5	-	.628425614	1.338546558	1.33854656	1.33854656	1.33854656							NA
					7	r	r	7							NA
. ()															NA
	7782-40-2														NA
overable			•	#\/ALLEI	7	r	7	r -							NA
1 (D)				#VALUE:	7	F	F	r							NA
. (1)			r	#\/A LE	7	r	r	r							Need TMDL
warable				#VALUE!				-							
BICE ISV															N/A
	1/64-01-6	0.00001			0	0	0	0	3.00E-05	1E+100	1E+100	1E+100	1E+100	5.1E-08	N/A
OUNDS															
	107-02-8	50				0	0	0	18	1E+100	1E+100	1E+100	1E+100	9	N/A
	107-13-0	20				0	0	0	0.65	1E+100	1E+100	1E+100	1E+100	2.5	N/A
	71-43-2	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	510	N/A
	75-25-2	10			0	0	0	0	44	1E+100	1E+100	1E+100	1E+100	1400	N/A
de	56-23-5	2			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	16	N/A
	108-90-7	10			0	0	0	0	100	1E+100	1E+100	1E+100	1E+100	1600	N/A
ane	124-48-1	10			0	0	0	0	4.2	1E+100	1E+100	1E+100	1E+100	130	N/A
	67-66-3	50			0	0	0	0	57	1E+100	1E+100	1E+100	1E+100	4700	N/A
nane	75-27-4	10			0	0	0	0	5.6	1E+100	1E+100	1E+100	1E+100	170	N/A
e	107-06-2	10			#VALUE!	#VALUE!	#VALUE!	#VALUE!	5	1E+100	1E+100	1E+100	1E+100	370	N/A
ine	75-35-4	10			0	0	0	0	7	1E+100	1E+100	1E+100	1E+100	7100	NA
ne	78-87-5	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	150	NA
lene	542-75-6	10			0	0	0	0	3.5	1E+100	1E+100	1E+100	1E+100	210	N/A
	100-41-4	10			0	0	0	0	700	1E+100	1E+100	1E+100	1E+100	2100	N/A
	74-83-9	50			0	0	0	0	49	1E+100	1E+100	1E+100	1E+100	1500	N/A
;	75-09-2	20			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	5900	N/A
	79-34-5	10			0	0	0	0	1.8	1E+100	1E+100	1E+100	1E+100	40	N/A
	127-18-4	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	33	N/A
		10			0	0	0	0							NA
ethylene															NA
															NA
		10													NA
															NA
															NA
ne	10-01-4	10			U	U	U	U	2	16+100	12+100	12+100		24	INA
N	05 57 0	40			0	0	^	^	175	15,400	10.400	15,400	15,400	150	NI/A
															N/A
															N/A
															N/A N/A
		1 7439-97-6 7439-97-6 7439-97-6 1 7439-97-6 1 7439-97-7 recoverable 7439-98-7 P 7440-02-0 d (P) 7782-49-2 500 mg/l) 7782-49-2 0 7782-49-2 1 7440-62-0 4 7782-49-2 0 7440-22-4 0 7440-22-4 1 7440-22-4 0 7440-22-4 0 7440-22-4 0 7440-22-4 0 7440-22-4 0 7440-22-4 0 7440-22-4 0 17-143-2 0 71-43-2 0 71-43-2 0 75-25-2 0 107-02-8 108-00-7 108-90-7 ane 124-48-1 0 75-25-2 0 100-41-4 0 74-83-9 0 75-03-2 <tr< td=""><td>1 7439-97-6 0.005 7439-97-6 0.005 7439-97-7 0.05 recoverable 7439-98-7 1 P1 7430-92-0 0.5 d (P) 7782-49-2 5 d (P) 7782-49-2 0.5 d (P) 7440-62-0 0.5 d (P) 7782-49-2 0.5 d (P) 7440-62-0 0.0001 werable 57-12-5 10 d (P) 7143-2 10 d (P) 71-43-2 10 d (P) 75-25-2 10 ane 75-27-4 10 e 107-06-2 10 ne <t< td=""><td>Image: series of the series</td><td>Image: constant interaction of the section of the</td><td>indindindindindindindindindindindindind7439-97-60.0050.001330.0028329ind7439-97-60.0050.001330.0028329ind7439-98-7000ind7439-98-7000ind7439-98-7000ind7439-98-7000ind7440-02-00.500ind7782-49-2500ind7440-22-00.50indind7440-22-00.50indind7440-22-00.50indind7440-22-00.50indind7440-22-00.50indind7440-22-00.50indind7440-22-00.50indind1740-22-00.50indind107-02-8100indind107-02-8100indind107-02-8100indind102-12100indind107-02-820indind108-90-7100indind102-12100indind102-14100indind102-12100indind102-12100indind<</td><td>Image: state intermConcConc.AquaticSupply1CAS No.MOLCa(ug0)Ca(ug0)2.13°CCd.dom(ug0)17439-97-60.0050.002322#VALUE7439-97-60.0050.002322#VALUEalved7439-98-7I00recoverable7439-99-7I0077440-02-00.50.2824256131.338546561.33854656d(P)7782-49-250007440-22-40.5#VALUE#VALUE#VALUE#VALUE1740-28-00.5#VALUE#VALUE#VALUE#VALUE17440-28-00.5#VALUE#VALUE#VALUE#VALUE17440-28-10.00001#VALUE#VALUE#VALUE#VALUE17640-160.00001#VALUE00017640-160.00001II0017640-17100II00107-02-850IIII101107-02-810I00102171-3020III103104IIIII104101IIIII105101IIIII103102IIIII104101IIIII105101I<td< td=""><td>Image: state intermImage: state i</td><td>Image: stype intermConceConceAquateSupp intermAquateHeathCAS No.MCUCa (up)Ca (up)2.13°CCodom(up)Ca (up)Codu (up)7439-97-60.005</td><td>Image: stype intermConc<th< td=""><td>Image: biologImage: biologImage</td><td>Image: stype interm Conc. 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						Instrea	m Waste Conce	entration				Livestock&	Acute	Chronic	Human	Need
				Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Aquatic	Aquatic	Health	TMDL
POLLUTANTS				Conc	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	Criteria	Criteria	Criteria	Criteria	Criteria	
		CAS No.	MQL	Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
2,4-Dinitrophenol		51-28-5	50			0	0	0	0	70	1E+100	1E+100	1E+100	1E+100	5300	N/A
Pentachloropheno	ol	87-86-5	50			0	0	0	0	1	1E+100	1E+100	19	15	30	N/A
Phenol		108-95-2	10			0	0	0	0	10500	1E+100	1E+100	1E+100	1E+100	860000	N/A
2,4,6-Trichloroph	nenol	88-06-2	10			0	0	0	0	32	1E+100	1E+100	1E+100	1E+100	24	N/A
BASE/NEUTRAL																
Acenaphthene		83-32-9	10			0	0	0	0	2100	1E+100	1E+100	1E+100	1E+100	990	N/A
Anthracene		120-12-7	10			0	0	0	0	10500	1E+100	1E+100	1E+100	1E+100	40000	N/A
Benzidine		92-87-5	50			0	0	0	0	0.0015	1E+100	1E+100	1E+100	1E+100	0.002	N/A
Benzo(a)anthrace	ene	56-55-3	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
Benzo(a)pyrene		50-32-8	5			0	0	0	0	0.2	1E+100	1E+100	1E+100	1E+100	0.18	N/A
3,4-Benzofluorar	nthene	205-99-2	10			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
Benzo(k)fluoranth	hene	207-08-9	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
Bis(2-chloroethyl))Ether	111-44-4	10			0	0	0	0	0.3	1E+100	1E+100	1E+100	1E+100	5.3	N/A
Bis(2-chloroisopro	opyl)Ether	108-60-1	10			0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	65000	N/A
Bis(2-ethylhexyl)	Phthalate	117-81-7	10			#VALUE!	#VALUE!	#VALUE!	#VALUE!	6	1E+100	1E+100	1E+100	1E+100	22	N/A
Butyl Benzyl Phth	alate	85-68-7	10			0	0	0	0	7000	1E+100	1E+100	1E+100	1E+100	1900	N/A
2-Chloronapthale	ene	91-58-7	10			#VALUE!	#VALUE!	#VALUE!	#VALUE!	2800	1E+100	1E+100	1E+100	1E+100	1600	N/A
Chrysene		218-01-9	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
Dibenzo(a,h)anthi	racene	53-70-3	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
1,2-Dichlorobenz	tene	95-50-1	10			0	0	0	0	600	1E+100	1E+100	1E+100	1E+100	1300	N/A
1,3-Dichlorobenz	ene	541-73-1	10			0	0	0	0	469	1E+100	1E+100	1E+100	1E+100	960	N/A
1,4-Dichlorobenz	tene	106-46-7	10		1	2.13	2.13	2.13	2.13	75	1E+100	1E+100	1E+100	1E+100	190	N/A
3,3'-Dichlorobenz	idine	91-94-1	5			0	0	0	0	0.78	1E+100	1E+100	1E+100	1E+100	0.28	N/A
Diethyl Phthalate		84-66-2	10			0	0	0	0	28000	1E+100	1E+100	1E+100	1E+100	44000	N/A
Dimethyl Phthalate		131-11-3	10			0	0	0	0	350000	1E+100	1E+100	1E+100	1E+100	1100000	N/A
Di-n-Butyl Phthala		84-74-2	10			0	0	0	0	3500	1E+100	1E+100	1E+100	1E+100	4500	N/A
2,4-Dinitrotoluene		121-14-2	10			0	0	0	0	1.1	1E+100	1E+100	1E+100	1E+100	34	N/A
1,2-Diphenylhydr	razine	122-66-7	20			0	0	0	0	0.44	1E+100	1E+100	1E+100	1E+100	2	N/A
Fluoranthene		206-44-0	10			0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	140	N/A
Fluorene		86-73-7	10			0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	5300	N/A
Hexachlorobenze		118-74-1	5			0	0	0	0	1	1E+100	1E+100	1E+100	1E+100	0.0029	N/A
Hexachlorobutadi		87-68-3	10			0	0	0	0	4.5	1E+100	1E+100	1E+100	1E+100	180	N/A
Hexachlorocyclop		77-47-4	10			0	0	0	0	50	1E+100	1E+100	1E+100	1E+100	1100	N/A
Hexachloroethane		67-72-1	20			0	0	0	0	25	1E+100	1E+100	1E+100	1E+100	33	N/A
Indeno(1,2,3-cd)F	ryrene	193-39-5	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.18	N/A
Isophorone		78-59-1	10			0	0	0	0	368	1E+100	1E+100	1E+100	1E+100	9600	N/A
Nitrobenzene		98-95-3	10			0	0	0	0	18	1E+100	1E+100	1E+100	1E+100	690	N/A
n-Nitrosodimethyla		62-75-9	50			0	0	0	0	0.0069	1E+100	1E+100	1E+100	1E+100	30	N/A
n-Nitrosodi-n-Prop		621-64-7	20			0	0	0	0	0.05	1E+100	1E+100	1E+100	1E+100	5.1	N/A
n-Nitrosodiphenyl	arnine	86-30-6	20			0	0	0	0	71	1E+100	1E+100	1E+100	1E+100	60 1E:100	N/A
Nonylphenol		84852-15-3	40			0	0	0	0	1E+100	1E+100	1E+100	28	6.6	1E+100	N/A
Pyrene 1,2,4-Trichlorobe		129-00-0 120-82-1	10 10			0	0	0	0	1050 70	1E+100 1E+100	1E+100 1E+100	1E+100 1E+100	1E+100 1E+100	4000 70	N/A N/A

						Instream	m Waste Conce	entration				Livestock&	Acute	Chronic	Human	Need
				Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Aquatic	Aquatic	Health	TMDL
POLLUTANTS				Conc	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	Criteria	Criteria	Criteria	Criteria	Criteria	
		CAS No.	MQL	Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
PESTICIDES AN		ono no.	mat	ou (ug/i)	oo (ugii)	2.10 00	ou,uom (ugr)	ou (ug/i)	ou,iii (ugi)	ugn	ugn	ugn	ugn	ugn	ugn	
Aldrin		309-00-2	0.01			0	0	0	0	0.021	1E+100	1E+100	3	1E+100	0.0005	N/A
Alpha-BHC		319-84-6	0.01			0	0	0	0	0.021	1E+100	1E+100	1E+100	1E+100	0.0003	NA
Beta-BHC		319-85-7	0.05			0	0	0	0	0.030	1E+100	1E+100	1E+100	1E+100	0.049	N/A
Gamma-BHC		58-89-9	0.05			0	0	0	0	0.2	1E+100	1E+100	0.95	1E+100	1.8	N/A
Chlordane		57-74-9	0.2			0	0	0	0	2	1E+100	1E+100	2.4	0.0043	0.0081	N/A
4,4'-DDT and de	rivatives	50-29-3	0.02			0	0	0	0	1	1E+100	0.001	1.1	0.001	0.0022	N/A
Dieldrin		60-57-1	0.02			0	0	0	0	0.022	1E+100	1E+100	0.24	0.056	0.00054	N/A
Diazinon		333-41-5				0	0	0	0	1E+100	1E+100	1E+100	0.17	0.17	1E+100	N/A
Alpha-Endosulfa		959-98-8	0.01			0	0	0	0	62	1E+100	1E+100	0.22	0.056	89	N/A
Beta-Endosulfan		33213-65-9	0.02			0	0	0	0	62	1E+100	1E+100	0.22	0.056	89	N/A
Endosulfan sulfa	te	1031-7-8	0.1			0	0	0	0	62	1E+100	1E+100	1E+100	1E+100	89	N/A
Endrin		72-20-8	0.02			0	0	0	0	2	1E+100	1E+100	0.086	0.036	0.06	N/A
Endrin Aldehyde		7421-93-4	0.1			0	0	0	0	10.5	1E+100	1E+100	1E+100	1E+100	0.3	N/A
Heptachlor		76-44-8	0.01			0	0	0	0	0.4	1E+100	1E+100	0.52	0.0038	0.00079	N/A
Heptachlor Epoix	de	1024-57-3	0.01			0	0	0	0	0.2	1E+100	1E+100	0.52	0.0038	0.00039	N/A
PCBs		1336-36-3	0.2			0	0	0	0	0.5	1E+100	0.014	2	0.014	0.00064	N/A
Toxaphene		8001-35-2	0.3			0	0	0	0	3	1E+100	1E+100	0.73	0.0002	0.0028	N/A
STEP 3:	SCAN POTEN	ITIAL INSTREAM	WA STE CO					1								
		ISH EFFLUENT L														
	ANDLOTAD			TONALL		ANAMETERS										
No limito oro ooto	bliched if the r	acciving atroom	ia nat daala	noted for th	o porticulor u											
No limits are esta							otor quality ari	iania.								
No limits are esta								ieria.								
The most applica	-					÷										
Water quality crit																
If background co			quality crite	eria, w ater	quality criteria	apply. And "N	eed IMDL" sho	ow n to the ne	ext column of A	vg. Mass						
Monthly avg cond	centration = da	ily max. / 1.5.														
		D4.050 - 1.555														
APPLICABLE WA	ATER QUALITY	-BASED LIMITS														
	The follow inc	formular is use	d to calculat	e the allow	able dailv max	imum effluent o	cincentration		See the curre	ent "Procedure:	s for Implement	ting NPDES Perm	nits in New Me	xico"		
	1	nc. = Cs + (Cs -					Conc. = Daily I	Max. Conc. /								
Where:		ble water quality		,		, , ,										
		stream concent														
		of stream allow		ng (1,0 is a	ssigned to dor	nestic water si	upply and hum	an health use	25)							
							- pry and notified		-,					-		
	Qe = Plant ef	luent flow														

					Livestock	Acute	Chronic	Human	Daily	Monthly	Daily Max	Mon. Avg	Daily	Monthly
POLLUTANTS	CAS No.	STORET	Domestic	Irrigation	or Wildlife	Aquatic	Aquatic	Health	Max Conc	Avg Conc	Total	Total	Max Load	Avg Load
			Limits	Limits	Limits	Limits	Limits	Limits	ug/l	ug/l	ug/l	ug/l	lb/day	lb/day
Radioactivity, Nutrients, and	Chlorine, as	Total												
Aluminum, Total	7429-90-5	01105	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Barium, Total	7440-39-3	01007	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Boron, Total	7440-42-8	01022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cobalt, Total	7440-48-4	01037	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium, Total	7440-61-1	22706	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Vanadium, Total	7440-62-2	01087	N/A	N/A	N/A	N/A	N/A	N∕A	N/A	N/A	N/A	N/A	N/A	N/A
Ra-226 and Ra-228 (pCi/l)		11503	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Strontium (pCi/l)		13501	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE	#VALUE!	#VALUE!	#VALUE!
Tritium (pCi/l)		04124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gross Alpha (pCi/l)		80029	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Asbestos (fibers/l)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Residual Chlorine	7782-50-5	50060	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate as N (mg/l)		00620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrite + Nitrate (mg/l)		00630	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METALS AND CYANIDE, as T	otal													
Antimony, Total (P)	7440-36-0	01097	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Arsenic, Total (P)	7440-38-2	1002	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Beryllium, Total	7440-41-7	01012	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Cadmium, Total	7440-43-9	01027	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (III), dissolved	16065-83-1	01033	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (VI), dissolved	18540-29-9	01034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium, Total	7440-47-3	01034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper, Total	7440-50-8	01042	N/A	#VALUE!	#VALUE!	2.94985776	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Lead, Total	7439-92-1	01051	N/A	#VALUE!	#VALUE!	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Manganese, dissovled	7439-96-5	01056	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, Total	7439-97-6	71900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, Total	7439-97-6	71900	N/A	#VALUE!	#VALUE!	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Molybdenum, dissolved	7439-98-7	1060	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Molybdenum, total recoverable	7439-98-7	01062	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, Total (P)	7440-02-0	01067	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, Total (P)	7782-49-2	01147	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Selenium, Total (SO4 >500 mg/l)		01147	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, Total recoverable	7782-49-2	01147	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver, Total	7440-22-4	01077	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Thalllium, Total (P)	7440-28-0	01059	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Zinc, Total	7440-66-6	1092	NA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Cyanide, total recoverable	57-12-5	00720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIOXIN														0
2,3,7,8-TCDD	1764-01-6	34675	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOLATILE COMPOUNDS														
Acrolein	107-02-8	34210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acrylonitrile	107-13-0	34215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	71-43-2	34030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	75-25-2	32104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	56-23-5	32102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

POLLUTANTS	CAS No.	STORET	Domestic	Irrigation	Livestock or Wildlife	Acute Aquatic	Chronic Aquatic	Human Health	Daily Max Conc	Monthly Avg Conc	Daily Max Total	Mon. Avg Total	Daily Max Load	Monthly Avg Load
FOLLOTANIS	CAS NO.	STORET	Limits	Limits	Limits	Limits	Limits	Limits	ug/l	ug/l	ug/l	ug/l	lb/day	lb/day
Chlorobenzene	108-90-7	34301	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A
Clorodibromomethane	124-48-1	32105	NA	NA	NA	NA	NA	NA	N/A	NA	NA	N/A	NA	NA
Chloroform	67-66-3	32106	NA	NA	NA	NA	NA	NA	N/A	NA	NA	NA	NA	NA
Dichlorobromomethane	75-27-4	32101	NA	NA	NA	NA	NA	NA	N/A	NA	NA	N/A	NA	NA
1,2-Dichloroethane	107-06-2	34531	NA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
1,1-Dichloroethylene	75-35-4	34501	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	N/A
1,2-Dichloropropane	78-87-5	34541	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
1,3-Dichloropropylene	542-75-6	34561	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	34371	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Bromide	74-83-9	34413	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	75-09-2	34423	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	79-34-5	34516	N/A	NA	N/A	N/A	N⁄A	NA	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene	127-18-4	34475	NA	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N∕A	N⁄A
Tolune	108-88-3	34010	N/A	N/A	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-trans-Dichloroethylene	156-60-5	34546	N/A	NA	N/A	N⁄A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	71-55-6		N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	79-00-5	34511	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethylene	79-01-6	39180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	75-01-4	39175	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
ACID COMPOUNDS														
2-Chlorophenol	95-57-8	34586	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	120-83-2	34601	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	105-67-9	34606	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-o-Cresol	534-52-1	34657	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	51-28-5	34616	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	87-86-5	39032	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	108-95-2	34694	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	88-06-2	34621	N/A	NA	N/A	NA	NA	NA	N/A	NA	NA	N/A	N/A	N/A
BASE/NEUTRAL	00.00.0	04005	N1/A	NI/A	NI/A	NI/A	NI/A	NIA	NI/A	NI/A	NI/A	NI/A	NIA	NI/A
Acenaphthene	83-32-9 120-12-7	34205 34220	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Anthracene Benzidine	92-87-5	39120	N/A	NA	N/A	NA	NA	NA	NA	NA	NA	N/A	NA	N/A N/A
Benzo(a)anthracene	56-55-3	34526	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	NA	NA
Benzo(a)pyrene	50-32-8	34247	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,4-Benzofluoranthene	205-99-2	34230	NA	NA	NA	NA	NA	NA	N/A	NA	NA	N/A	NA	NA
Benzo(k)fluoranthene	207-08-9	34242	NA	N/A	N/A	NA	NA	NA	N/A	N/A	N/A	N/A	NA	N/A
Bis(2-chloroethyl)Ether	111-44-4	34273	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	N/A
Bis(2-chloroisopropyl)Ether	108-60-1	34283	N/A	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A	NA	N/A
Bis(2-ethylhexyl)Phthalate	117-81-7	39100	NA	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Butyl Benzyl Phthalate	85-68-7	34292	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N∕A	N/A
2-Chloronapthalene	91-58-7	34581	N/A	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Chrysene	218-01-9	34320	N/A	NA	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N∕A
Dibenzo(a,h)anthracene	53-70-3	34556	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	95-50-1	34536	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N⁄A	N/A	N/A	N/A	N/A

						Livestock	Acute	Chronic	Human	Daily	Monthly	Daily Max	Mon. Avg	Daily	Daily
POLLUTANTS		CAS No.	STORET	Domestic	Irrigation	or Wildlife	Aquatic	Aquatic	Health	Max Conc	Avg Conc	Total	Total	Max Load	Avg Load
				Limits	Limits	Limits	Limits	Limits	Limits	ug/l	ug/l	ug/l	ug/l	lb/day	lb/day
1,3-Dichlorobenz	ene	541-73-1	34566	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA	NA
1,4-Dichlorobenz		106-46-7	34571	NA	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A	NA	N/A
3,3'-Dichlorobenzi	idine	91-94-1	34631	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diethyl Phthalate		84-66-2	34336	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethyl Phthalate	9	131-11-3	34341	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
, Di-n-Butyl Phthala		84-74-2	39110	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	e	121-14-2	34611	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	N/A
1,2-Diphenylhydr	azine	122-66-7	34346	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene		206-44-0	34376	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluorene		86-73-7	34381	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
Hexachlorobenze	ne	118-74-1	39700	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
Hexachlorobutadi	iene	87-68-3	34391	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorocyclop	pentadiene	77-47-4	34386	NA	N/A	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	NA	NA
Hexachloroethane	e	67-72-1	34396	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
Indeno(1,2,3-cd)F	yrene	193-39-5	34403	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	NA
Isophorone		78-59-1	34408	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
Nitrobenzene		98-95-3	34447	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
n-Nitrosodimethyla	amine	62-75-9	34438	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
n-Nitrosodi-n-Prop	pylamine	621-64-7	34428	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
n-Nitrosodiphenyl	amine	86-30-6	34433	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA	NA
Nonylphenol		84852-15-3		NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene		129-00-0	34469	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobe	enzene	120-82-1	34551	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
PESTICIDES AND	PCBS														
Aldrin		309-00-2	39330	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alpha-BHC		319-84-6	39337	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-BHC		319-85-7	39338	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma-BHC		58-89-9	39340	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
Chlordane		57-74-9	39350	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
4,4'-DDT and deri	ivatives	50-29-3	39300	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
Dieldrin		60-57-1	39380	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	NA	N/A
Diazinon		333-41-5	39570	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
Alpha-Endosulfan	I	959-98-8	34361	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-Endosulfan		33213-65-9	34356	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
Endosulfan sulfat	e	1031-7-8	34351	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
Endrin		72-20-8	39390	NA	NA	N/A	N/A	N⁄A	NA	N/A	N/A	N/A	N/A	N/A	N/A
Endrin Aldehyde		7421-93-4	34366	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor		76-44-8	39410	N/A	N/A	N/A	N/A	NA	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoixo	de	1024-57-3	39420	NA	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCBs		1336-36-3	39516	N/A	N/A	N/A	N/A	NA	N⁄A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene		8001-35-2	39400	NA	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N∕A	NA

Appendix 2

Facility Name		Dona Ana Coun	ty Utilities D	epartment				
VPDES Permit	Number	NM00304	190			Ou	tfall Number	
Proposed Critical Dilution*		51						
			*Critical Di	lution in draft	permit, do no	t use % sign.		
			Enter data in	n yellow shade	d cells only. H	ifty percent sho	uld be entere	d as 50, not 50%.
est Data								
		VERTEBRATE				INVERTEBRAT	E	
Date (mm/yyyy)	Lethal NOEC	Sublethal NOEC	Lethal TU	Sublethal TU	Lethal NOEC	Sublethal NOEC	Lethal TU	Sublethal TU
Apr-14					68		1.47	
Oct-14	68		1.47		68		1.47	
Oct-15	68		1.47		68		1.47	
Apr-16					68		1.47	
Oct-06	68		1.47		68		1.47	
Apr-17	C0		1 477		68		1.47	├
Oct-17 Apr-18	68		1.47		68 68		1.47 1.47	┟────┤
Oct-18	68		1.47		68		1.47	├
001-10	08		1.4/		08		1.4/	
						```		
_	68	0		#DIV/0!	68	0	-	#DIV/0!
Count			5	0			9	0
Mean			1.471	#DIV/0!			1.471	#DIV/0!
otd. Dev.			0.000	#DIV/0!			0.000	#DIV/0!
. V			0.6	0.6			0.6	0.6
RPMF			2.3	6.2			1.8	6.2
VI 1911		1.061			eptance Criter	ia	1.0	0.2
Vertebrate Let	hal						monitorina 1	out no WET limit.
venebrate Let	11a1	1.725	no keason	able Potentia	exists. Permi	requires wEI	monnoring, t	out no wEI limit.
7 . 1 . 0 1	1.4.1							
Vertebrate Sub	lethal	#DIV/0!	#DIV/0!					
nvertebrate L	ethal	1.350	No Reason	able Potentia	lexists.Permi	t requires WET	monitoring, b	out no WET limit.
			<u> </u>					
Invertebrate Sublethal		#DIV/0!	#DIV/0!					