



REGION 6
1445 ROSS AVENUE
DALLAS, TEXAS 75202-2733

NPDES Permit No NM0030139

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

State of New Mexico Department of Game & Fish
Los Ojos State Trout Hatchery
P.O. Box 25112
Santa Fe, NM 87504

is authorized to discharge from a facility located at 29 Hatchery Road in the town of Los Ojos, Rio Arriba County, New Mexico to receiving waters named Rio Chama in Segment No. 20.6.4.119 of the Rio Grande Basin. The discharges are located on that water at the following coordinates:

Outfall 001 - Latitude 36° 43' 9.01" North, Longitude 106° 34' 39.02" West
Outfall 002 - Latitude 36° 43' 2.13" North, Longitude 106° 34' 36.01" West

in accordance with this cover page and the effluent limitations, monitoring requirements and other conditions set forth in Part I, Part II, and Part III hereof.

This permit supersedes and replaces NPDES Permit No. NM0030139 issued September 25, 2013.

This permit shall become effective on

This permit and the authorization to discharge shall expire at midnight,

Issued on

Prepared by

Charles W. Maguire
Director
Water Division (6WQ)

Jim Afghani
Environmental Engineer
Permitting Section (6WQ-PP)

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PART I – REQUIREMENTS FOR NPDES PERMITS

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. FINAL Effluent Limits based on the highest monthly average flow of 3.7761 MGD – Outfall 002

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated wastewater during emergency from Outfall 001 to an unnamed ditch where it then flows to Upper Laguna del Campo, thence to Laguna del Campo, thence to either the La Puente Ditch for irrigation purposes and/or to the Rio Chama. Discharge from primary Outfall 002 is to the La Puente Ditch thence all to irrigation or partially to irrigation and partially to the Laguna del Campo, thence to either irrigation in total or partially thence to the Rio Chama in Segment 20.6.4.119 of the Rio Grande Basin. Such discharges shall be limited and monitored by the permittee and reported as Outfall 002, specified below:

| POLLUTANT | MINIMUM | MAXIMUM | FREQUENCY | TYPE |
|-----------|----------|----------|-----------------------|--------------------|
| pH | 6.6 s.u. | 8.8 s.u. | 2/Month ^{*1} | Instantaneous Grab |

| POLLUTANT | DAILY AVG | DAILY MAX | DAILY AVG | DAILY MAX | FREQUENCY | TYPE |
|----------------------------------------|--------------|-----------------------------|-------------------|-------------------------|-----------------------|--------------------|
| Flow | Report MGD | Report MGD | *** | *** | Daily | Measured over weir |
| Total Suspended Solids | Report | Report | 10 mg/L | 15 mg/L | 2/Month ^{*2} | Grab |
| Settle-able Solids | N/A | N/A | 0.1 ml/L | 0.5 ml/L | 2/Month ^{*2} | Grab |
| TRC | N/A | N/A | N/A | 11ug/L ^{*3, 4} | Daily | Instantaneous Grab |
| E. coli bacteria | N/A | 18.03 lbs/day ^{*6} | 126 ^{*5} | 235 ^{*5} | 2/Month ^{*2} | Grab |
| Nitrogen, Total, Final ^{*7} | 5.88 lbs/day | Report | 0.25 mg/L | 0.375 mg/L | 2/Month ^{*2} | Grab |
| Phosphorus, Total, Final ^{*7} | 1.65 lbs/day | Report | 0.07 mg/L | 0.105 mg/L | 2/Month ^{*2} | Grab |

| WHOLE EFFLUENT TOXICITY TESTING (7-Day NOEC ^{*8}) | 30-DAY AVG | 7-DAY MINIMUM | FREQUENCY | TYPE |
|-------------------------------------------------------------|------------|---------------|-------------------------|------|
| Ceriodaphnia dubia | Report | Report | Once/Term ^{*9} | Grab |
| Pimephales promelas | Report | Report | Once/Term ^{*9} | Grab |

Footnotes:

- *1. Monitoring for pH has a 15-minute holding time per 40 CFR 136.3.
- *2. The first sample event of any reporting period shall be at least 10-days from the first sample event of the previous reporting period. Sampling shall be during times of cleaning of raceways, troughs or tanks if possible.
- *3. See Appendix A of Part II of the permit for minimum quantification limits.
- *4. TRC is sampled at Settling Pond. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes. TRC sampling is required during the period when the FDA approved drug Chloramine-T is used as a treatment for the Bacterial Gill Disease.
- *5. Units are either cfu/100 ml or Most Probable Number (MPN) depending on the analytical method.
- *6. Billion (1.0×10^9) cfu/day. Mass loading limit calculated as follows: [Flow in MGD x C as cfu/100 ml x 1000 ml/liter x 1 liter/0.264 gallons x day/ 1.0×10^9 cfu]. The increase in loading is due to an increase in discharge flow from previous permit.
- *7. Requirements for *Final* TP and TN are effective during the period beginning nine (9) years and six (6) months after the current Permit Effective Date (PED) of November 1, 2013.
- *8. Whole effluent toxicity testing shall be sampled during the first discharge after the permit effective date. See Part II, Whole Effluent Toxicity testing requirements for additional WET monitoring and reporting conditions.
- *9. Once per permit term. This permit does not establish requirements to automatically increase the WET testing frequency after a test failure, or to begin a TRE in the event of multiple test failures. However, upon failure of any WET test, the permittee must report the test results to EPA and NMED, SWQB, in writing, within 5 business days of notification the test failure. EPA will review the test results and determine the appropriate action necessary, if any, (See Part II).

2. Outfall 02B (Special Testing) - FINAL Effluent Limits: Non- FDA Approved Drugs, Medications and/or Chemicals

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge wastewater containing either non-approved Food and Drug Administration (FDA) drugs, medications or chemicals (DMC), or DMC used in a manner not consistent with FDA approval, to either Upper Laguna del Campo and/or Laguna del Campo, thence to the La Puente Irrigation Ditch, thence to the Rio Chama in Segment 20.6.4.119 of the Rio Grande Basin, from Outfalls 001 and 002 (See Part II). Such discharges shall be limited and monitored by the permittee and reported as Outfall 02B, as specified below:

| POLLUTANT | DAILY AVG | DAILY MAX | DAILY AVG | DAILY MAX | FREQUENCY | TYPE |
|-----------|------------|------------|-----------|-----------|-----------|-----------------------------|
| Flow | Report MGD | Report MGD | *** | *** | Daily | Weir collection system *1 |
| TRC | N/A | N/A | N/A | 11 ug/L | Daily | Instantaneous Grab (*2,3,4) |

| WHOLE EFFLUENT TOXICITY TESTING (7-Day Static Renewal, See Part II, Section C) (*7) | 30-DAY AVG | 7-DAY MINIMUM | FREQUENCY | TYPE |
|-------------------------------------------------------------------------------------|------------|---------------|------------|--------|
| Ceriodaphnia dubia | Report | Report | Once/Use*6 | Grab*5 |
| Pimephales promelas | Report | Report | Once/Use*6 | Grab*5 |

Footnotes:

- *1. The flow shall only be from the outfall associated with the DMC use. Flow is NOT to be composited with the other outfall.
- *2. See Appendix A of Part II of the permit for minimum quantification limits.
- *3. The sample shall be taken approximately 30 minutes after the expected slug of water has passed through the outfall. The expected time of arrival can be estimated by direct observations with light floatable object.
- *4. TRC is sampled at Settling Pond. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *5. The sample shall be taken approximately 30 minutes after the expected time of arrival of the treated water has passed through the outfall. The expected time of arrival can be estimated by direct observations with light floatable object.
- *6. Once per use is for intermittent use of DMC. For long-term use, only one WET shall be required on the maximum dosage. If any dose is later increased by more than 20% of the maximum dosage, then additional WET tests will be required. This permit does not establish requirements to automatically increase the WET testing frequency after a test failure, or to begin a toxicity reduction evaluation (TRE) in the event of multiple failures. However, upon failure of any WET test, the permittee must report the results to EPA and NMED, Surface Water Quality Bureau, in writing, within 5 business days of notification of the test failure. EPA and NMED will review the test results and determine the appropriate action necessary, if any.
- *7. Monitoring and reporting requirements begin on the effective date of this permit. See Part II of the permit for WET testing requirements for additional WET monitoring and reporting conditions.

B. FLOATING SOLIDS, VISIBLE FOAM AND/OR OILS

There shall be no discharge of floating solids or visible foam in other than trace amounts. There shall be no discharge of visible films of oil, globules of oil, grease or solids in or on the water, or coatings on stream banks. In addition, samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit prior to the receiving stream. The sample point shall be clearly marked by the facility if it is not at the final outfall location. There shall be no flow from any source into the piping system after the sample point and prior to the final outfall.

C. SCHEDULE OF COMPLIANCEFINAL Phase - Total Phosphorus and Total Nitrogen

See previous permit that expired on October 31, 2018 for the schedule of compliance. The permittee shall comply with the following schedule of activities for the attainment of state water quality standards-based *final* effluent limitations for Phase n TP and TN at Outfall 002.

- a. Determine exceedance cause(s);
- b. Develop control options, if needed;
- c. Evaluate and select control mechanisms;
- d. Implement corrective action; and
- e. Attain final effluent limitations.

The permittee shall submit annual progress reports to both EPA and NMED, in accordance with the following schedule. The requirement to submit annual progress reports shall expire either nine (9) years and six (6) months from the previous Permit Effective Date (PED) of November 1, 2013 or if the facility meets the *final* permit limits sooner, whichever occurs first. No later than 14-days after the date compliance with the **Total TP and TN Final limits** have been met; the permittee shall also submit a written final report both to EPA and the State stating that compliance has been completed. If at any time the permittee believes that full compliance will not be met within the time allowed, a separate report shall be sent to both EPA and the State stating the explanation for this delay and proposed remedial actions. Send all compliance and final reports to the following addresses:

EPA:
Compliance Assurance and
Enforcement Division
Water Enforcement Branch (6EN-W)
U.S. EPA, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

New Mexico:
Program Manager
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Dr.
Santa Fe, NM 87502

D. MONITORING AND REPORTING (MINOR DISCHARGERS)

1. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the treated discharge.

2. Monitoring discharge information shall be submitted electronically. To submit electronically, access the Net-DMR website at www.epa.gov/netdmr and contact the R6NetDMR.epa.gov inbox for further instructions.
 - a. Reporting periods shall end on the last day of the months March, June, September and December.
 - b. The permittee is required to submit regular monthly reports as described above no later than the 15th day of the month.
3. If any daily average and daily maximum value exceeds the effluent limitations specified in Part IA, the permittee shall report the excursion in accordance with the requirements of Part III.D.
4. Any daily average and daily maximum value reported in the required Discharge Monitoring Report which is more than the effluent limitation specified in Part I.A shall constitute evidence of violation of such effluent limitation and of this permit.
5. NO DISCHARGE REPORTING: If there is no discharge from any outfall during the sampling month, place an "X" in the NO DISCHARGE box located in the upper right corner of the Discharge Monitoring Report.

E. OVERFLOW REPORTING

The permittee shall report all overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). Overflows that endanger health or the environment shall be orally reported at (214) 665-6595, and NMED Surface Water Quality Bureau at (505) 827-0187, within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows that endanger health or the environment shall be provided to EPA and the NMED Surface Water Quality Bureau within 5 days of the time the permittee becomes aware of the circumstance.

F. POLLUTION PREVENTION REQUIREMENTS

The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing one) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:

- a. The influent loadings, flow and design capacity;
- b. The effluent quality and plant performance;
- c. The age and expected life of the wastewater treatment facility's equipment;
- d. Bypasses and overflows of the tributary sewerage system and treatment works;
- e. New developments at the facility;
- f. Operator certification and training plans and status;

- g. The financial status of the facility;
- h. Preventative maintenance programs and equipment conditions and;
- i. An overall evaluation of conditions at the facility.

PART II - OTHER CONDITIONS

A. MINIMUM QUANTIFICATION LEVEL (MQL)

The permittee shall use sufficiently sensitive EPA-approved analytical methods (under 40 CFR part 136 or required under 40 CFR chapter I, subchapters N or O) when quantifying the presence of pollutants in a discharge for analyses of pollutants or pollutant parameters under the permit. In case the approved methods are not sufficiently sensitive to the limits, the most sufficiently sensitive methods (lowest minimum levels) must be used as defined under 40 CFR 122.44(i)(1)(iv)(A). The following pollutants may not have EPA approved methods with a published ML at or below the effluent limit, if specified:

| POLLUTANT | CAS Number | STORET Code |
|-------------------------|------------|-------------|
| Total Residual Chlorine | 7782-50-5 | 50060 |
| Cadmium | 7440-43-9 | 01027 |
| Silver | 7440-22-4 | 01077 |
| Thallium | 7440-28-0 | 01059 |
| Cyanide | 57-12-5 | 78248 |
| Dioxin (2,3,7,8-TCDD) | 1764-01-6 | 34675 |
| 4, 6-Dinitro-0-Cresol | 534-52-1 | 34657 |
| Pentachlorophenol | 87-86-5 | 39032 |
| Benzidine | 92-87-5 | 39120 |
| Chrysene | 218-01-9 | 34320 |
| Hexachlorobenzene | 118-74-1 | 39700 |
| N-Nitroso dimethylamine | 62-75-9 | 34438 |
| Aldrin | 309-00-2 | 39330 |
| Chlordane | 57-74-9 | 39350 |
| Dieldrin | 60-57-1 | 39380 |
| Heptachlor | 76-44-8 | 39410 |
| Heptachlor epoxide | 1024-57-3 | 39420 |
| Toxaphene | 8001-35-2 | 39400 |

For pollutants listed on Appendix A of Part II with MQL's, analyses *may* be performed to the listed MQL. If any individual analytical test result is less than the MQL listed, a value of zero (0) may be used for that pollutant result for the DMR reporting requirements. In addition, any additional pollutant sampling for purposes of this permit, including renewal applications or any other reporting, may be tested to the MQL, permit limit(s) or the state WQS. Results of analyses that are less than the listed MQL, permit limit(s) or the state WQS may be reported as "non-detect." Upon written approval by the EPA Region 6 NPDES Permits Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future DMR reporting requirements until/or unless changes are required for adoption of a lower MQL.

B. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS

Under the provisions of Part III.D.7.b.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas, and concurrently to NMED within 24 hours from the time the permittee becomes aware of the violation followed by a written report in five days.

None

C. PERMIT MODIFICATION AND REOPENER

In accordance with 40 CFR Part 122.44(d), the permit may be reopened and modified during the life of the permit if relevant portions of New Mexico’s Water Quality Standards for Interstate and Intrastate Streams are revised, or new State of New Mexico water quality standards are established and/or remanded by the New Mexico Water Quality Control Commission.

In accordance with 40 CFR Part 122.62(s)(2), the permit may be reopened and modified if new information is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance. Permit modifications shall reflect the results of any of these actions and shall follow regulations listed at 40 CFR Part 124.5.

D. WHOLE EFFLUENT TOXICITY TESTING (7-DAY CHRONIC NOEC FRESHWATER)

It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6 or the State NPDES permitting authority.

1. SCOPE AND METHODOLOGY

- a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

| | |
|-----------------------------------|----------------------------|
| APPLICABLE TO FINAL OUTFALL(S): | 001, 002 |
| REPORTED ON DMR AS FINAL OUTFALL: | 002 |
| CRITICAL DILUTION: | 33% |
| EFFLUENT CONCENTRATIONS: | 14%, 19%, 25%, 33% and 44% |
| EFFLUENT DILUTION SERIES: | 75% |
| COMPOSITE SAMPLE TYPE: | Defined at PART I |
| TEST SPECIES/METHODS: | 40 CFR Part 136 |

Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EPA-821-R-02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first.

Pimephales promelas (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA-821-R-02-013, or the most recent update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. The NOEC (No Observed Lethal Effect Concentration) is herein defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.

Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution.

- c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.
- d. Test failure is defined as a demonstration of statistically significant sub-lethal or lethal effects to a test species at or below the effluent critical dilution.
- e. This permit does not establish requirements to automatically increase the WET testing frequency after a test failure, or to begin a toxicity reduction evaluation (TRE) in the event of multiple test failures. However, upon failure of any WET test, the permittee must report the test results to EPA and NMED, Surface Water Quality Bureau, in writing, within 5 business days of notification the test failure. EPA and NMED will review the test results and determine the appropriate action necessary, if any. USEPA will inform the Permittee if additional information, testing, TRE and/or reporting is required.

2. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- i. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.
- ii. The mean number of Ceriodaphnia dubia neonates produced per surviving female in the control (0% effluent) must be 15 or more.
- iii. 60% of the surviving control females must produce three broods. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.
- iv. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.
- v. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.
- vii. A PMSD range of 13 - 47 for Ceriodaphnia dubia reproduction;
- viii. A PMSD range of 12 - 30 for Fathead minnow growth. Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

- i. For the Ceriodaphnia dubia survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA/821/R-02-013 or the most recent update thereof.
- ii. For the Ceriodaphnia dubia reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA/821/R-02-013 or the most recent update thereof.
- iii. If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 3 below.

c. Dilution Water

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water for;
 - A. Toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - B. Toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - A. A synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;
 - B. The test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);
 - C. The permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 4 below; and
 - D. The synthetic dilution water shall have a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites (Grab Samples Authorized For This Permit)

- i. The permittee shall collect a minimum of three grab samples from the outfall(s) listed at Item 1.a above.
- ii. The permittee shall collect second and third composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the grab samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- iii. The permittee must collect the grab samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first grab sample. Samples shall be chilled to 4 degrees Centigrade during collection, shipping and/or storage.
- iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent grab sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent grab sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 4 of this section.

3. REPORTING

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/821/R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit full reports upon the specific request of the Agency. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review.
- b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST survival lethal and sub-lethal effects results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests) and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review.
- c. The permittee shall submit the results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information, if required, clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR.
 - i. *Pimephales promelas* (Fathead Minnow)

- A. If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a 1; otherwise, enter a 0 for Parameter No. TLP6C
 - B. Report the NOEC value for survival, Parameter No. TOP6C
 - C. Report the LOEC value for survival, Parameter No. TXP6C
 - D. Report the NOEC value for growth, Parameter No. TPP6C
 - E. Report the LOEC value for growth, Parameter No. TYP6C
 - F. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a 1; otherwise, enter a 0 for Parameter No. TGP6C
 - G. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C
- ii. *Ceriodaphnia dubia*
- A. If the NOEC for survival is less than the critical dilution, enter a 1; otherwise, enter a 0 for Parameter No. TLP3B
 - B. Report the NOEC value for survival, Parameter No. TOP3B
 - C. Report the LOEC value for survival, Parameter No. TXP3B
 - D. Report the NOEC value for reproduction, Parameter No. TPP3B
 - F. If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a 1; otherwise, enter a 0 for Parameter No. TGP3B
 - G. Report the higher (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B
- d. If retests are required by EPA, enter the following codes on the DMR for retests only:
- i. For retest number 1, Parameter 22415, enter a 1 if the NOEC for survival is less than the critical dilution; otherwise, enter a 0
 - ii. For retest number 2, Parameter 22416, enter a 1 if the NOEC for survival is less than the critical dilution; otherwise, enter a 0

E. DRUGS, MEDICATIONS and CHEMICALS (EXCLUDING CHLORINE)

Anytime drugs, medications and chemicals (DMC), at either concentrations and/or uses not approved by the Food and Drug Administration (FDA), are used either in amounts or a manner that it would allow it to enter the waters of the US, the Department of Game and Fish (DGF) shall notify both EPA and NMED of its impending use. Notification to NMED shall be by phone within one business day of its decision to use the DMC, and to EPA within three days.

Written notification shall also be to both EPA and NMED, in writing no less than five-business days later. Both notifications shall provide the name of the DMC, its amount, concentration of use and reason for its use, along with the expected date and time of its use, and expected duration of use.

Anytime the Department of Game and Fish (DGF) uses drugs, medications and chemicals (DMC), at either amounts and/or uses not approved by the Food and Drug Administration (FDA), such that it would allow it to enter the receiving stream, DGF shall conduct Whole Effluent Toxicity (WET) tests. The testing shall be reported on the discharge monitoring report (DMR) and reported as Outfall 01B. On the DMR, report in the comment section the date, time duration and the name of the DMC used. Also note the date of the letter sent to EPA and NMED.

WET testing shall be conducted on the maximum dose of each instance of intermittent use of drugs, medications and/or chemicals not approved by the FDA, or drugs, medications and/or chemicals for purposes other than those for which FDA approval was granted (not including chlorine). For long-term use of these drugs, medications and/or chemicals, only one WET test shall be required on the maximum dose of the treatment, unless that maximum dose is later increased by 20 percent. At that point, and any later increases above 20 percent, then additional WET tests will be required. The sample shall NOT be flow weighted with other outfall flow. The sample shall occur at the outfall location consistent with the unit being treated, during the time that the expected highest dose is being administered and shall be taken at a time taking into consideration the lag-time for the slug of maximum dosage of DMC to flow from the point of application to the sample point. The grab sample for the WET test shall be taken 30-minutes after the expected arrival time of the treated water of DMC at the outfall. The expected arrival time can be determined by direct observation by use of a floatable marker such as wooden blocks.

F. CHLORINE USAGE AS TREATMENT

During times when chlorine is used in the treatment process, for cleaning of the aquatic production system, and/or to eliminate parasites, DGF shall notify the Agency and the NMED. Notification to NMED shall be by phone within one business day of its decision to use the DMC, and at least three-business days prior to the actual use, and both EPA and NMED, in writing, within five-business days of its decision of use. The notification should give the expected date and time of its use and the expected duration of usage. This test shall be reported on the DMR as Outfall 02B. TRC shall be limited in the permit to a maximum 11 ug/L end-of-pipe. This test will be in lieu of the WET test described above for other DMC.

Testing for total residual chlorine (TRC) shall be an instantaneous grab sample, with analysis taken within 15-minutes of sample collection. During ALL times when chlorine is being used, DGF shall monitor and report TRC daily, the discharge water for TRC. In addition, TRC shall be measured and reported for one day after the last use of the chlorine. On the DMR report in the comment section the date, time and duration of the chlorine use shall be noted. Also note the date of the letter that was sent to EPA and NMED. The first day of use, TRC shall be sampled approximately 30-minutes after the expected arrival time of treated water has passed through the outfall. The expected time of arrival can be determined by direct observation using a floatable marker such as wooden blocks.

G. BEST MANAGEMENT PRACTICES

1. IMPLEMENTATION

The permittee shall develop and implement a Best Management Practices (BMP) Plan that achieves the objectives and the specific requirements listed below. A copy of the plan shall be submitted to EPA and NMED within three (3) months of the effective date of the permit.

EPA shall have the right to disapprove the BMP plan within sixty (60) days of receipt of the plan. Upon receipt of a BMP denial, the permittee shall resubmit a revised Plan within 30-days. Upon either acceptance of the Plan, or no-action by EPA after the 60-day review time, the plan shall be deemed approved. The Plan shall be implemented as soon as possible but no later than six (6) months from the date of approval.

2. PURPOSE

Through implementation of the BMP Plan the permittee shall prevent or minimize the generation of and the potential for the release of pollutants from the facility to the waters of the United States through normal operations and ancillary activities.

3. OBJECTIVES

The permittee shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.

- a. The number and quantity of pollutants and the toxicity of effluent generated, discharged or potentially discharged at the facility shall be minimized by the permittee to the extent feasible by managing each influent waste stream in the most appropriate manner.
- b. Under the BMP Plan, and any Standard Operating procedures (SOPS) included in the Plan, the permittee shall ensure proper operation and maintenance of the treatment facility.

4. REQUIREMENTS

The BMP Plan shall be consistent with the objectives mentioned above and the general guidance contained in the publication entitled “Best Management [practices Guidance Document]” (U.S. EPA 1981) or “Guidance manual for Developing Best Management Practices (BMP’s)” (U.S. EPA October 1993), or any subsequent revisions to the guidance document where applicable. The Plan shall be documented in narrative form, and shall include any necessary plot plan, drawings or maps, and shall be developed in accordance with good engineering practices. The BMP Plan shall be organized and written with the following structures:

- a. Name and location of the facility.
- b. Statement of BMP policy.
- c. The location of all monitoring (sampling) stations.
- d. Summary of all data required to the monitoring and sampled for as a permit condition.
- e. Specific management practices and standard operating procedures to achieve objective, including, but not limited to the following;
 - i. Modification of equipment, facilities, technology, procedures.
 - ii. Improvement in management or general operational phases of the facility.
 - iii. Inspections and records.
 - iv. Reporting of BMP’s incidents.

5. MINIMUM PRACTICES REQUIRED AND IMPLEMENTED IN THE BMP

- a. Solids Control
 - i. Employ efficient feed management and feeding strategies that limit feed input to the minimum amount reasonably necessary to achieve production goals and sustain targeted rates of aquatic animal growth to minimize potential discharges of uneaten feed and waste products to waters of the U.S.
 - ii. To minimize the discharge of accumulated solids from settling ponds and basins and production systems, identify and implement procedures for routine cleaning of rearing units and off-line settling basins, and procedures to minimize any discharge of

accumulated solids during the inventorying, grading and harvesting aquatic animals in the production system.

- iii. Remove and dispose of aquatic animal mortalities properly on a regular basis to prevent discharge to waters of the U.S., except in cases where the permitting authority authorizes such discharge to benefit the aquatic environment.

b. Materials Storage

- i. Ensure proper storage of drugs, pesticides, and feed in a manner designed to prevent spills that may result in the discharge of drugs, pesticides or feed to waters of the U.S.
- ii. Implement procedures for properly containing, cleaning, and disposing of any spilled material.

c. Structural Maintenance

- i. Inspect the production system and the wastewater treatment system on a routine basis in order to identify and promptly repair any damage.
- ii. Conduct regular maintenance of the production system and the wastewater treatment system to ensure that they are properly functioning.

d. Recordkeeping

- i. To calculate representative feed conversion ratios, maintain records for aquatic animal rearing units documenting the feed amounts and estimates of the numbers and weight of aquatic animals.
- ii. Keep records documenting the frequency of cleaning, inspections, maintenance and repairs.

e. Training - The permittee must:

- i. To ensure the proper clean-up and disposal of spilled material adequately train all relevant facility personnel in spill prevention and how to respond in the event of a spill.
- ii. Train staff on the proper operation and cleaning of production and wastewater treatment systems including training in feeding procedures and proper use of equipment.

6. DOCUMENTATION

The permittee shall maintain a copy of the BMP Plan at the facility and shall make the plan available to EPA upon request.

7. MODIFICATION

The permittee shall amend a copy of the BMP Plan whenever there is a change in the facility or in the operation of the facility that increases the generation of pollutants or their release or potential release to the receiving waters. The permittee shall also amend the plan, as appropriate, when plant operations covered by the BMP Plan change. Any such changes to the BMP shall be consistent with the objective and specific requirements listed above. All changes in the BMP Plan shall be reported to EPA in writing.

8. MODIFICATION FOR INEFFECTIVENESS

At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving waters and/or meeting the specific requirements above, the permit and/or the BMP Plan shall be subject to modifications to incorporate revised BMP requirements.