REPLY TO: 6WQ-NP

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7015 1520 0003 4072 3963)

Mr. Brian K. Snyder
City Manager
City of Santa Fe
200 Lincoln Avenue
Santa Fe, NM 87504-0909

Re: NPDES Permit Number: NM0022292 – City of Santa Fe Paseo Real WWTP

Dear Mr. Snyder:

This package constitutes EPA’s final permit decision for the above referenced facility. Enclosed are the responses to comments received during the public comment period and the final permit. According to EPA regulations at 40 CFR 124.19, within 30 days after a final permit decision has been issued, any person who filed comments on the draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision.

Should you have any questions regarding the final permit, please feel free to contact Quang Nguyen of the NPDES Permits Branch at the above address or by telephone: (214) 665-7238, by fax: (214) 665-2191, or by E-mail: Nguyen.Quang@epa.gov. Should you have any questions regarding compliance with the conditions of this permit, please contact the Water Enforcement Branch at the above address or by telephone: (214)-665-6468.

Sincerely yours,

William K. Honker, P.E.
Director
Water Division

Enclosures

cc w/enclosures:

Bruce Yurdin, NMED
NPDES PERMIT NO. NM0022292
RESPONSE TO COMMENTS

RECEIVED ON THE SUBJECT DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IN ACCORDANCE WITH REGULATIONS LISTED AT 40 CFR 124.17

APPLICANT: City of Santa Fe
73 Paseo Real
Santa Fe, New Mexico 87507

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

PREPARED BY: Quang Nguyen
Environmental Engineer
NPDES Permits and TMDL Branch (6WQ-P)
Water Division
VOICE: 214-665-7238
FAX: 214-665-2191
EMAIL: nguyen.quang@epa.gov

PERMIT ACTION: Final permit decision and response to comments received on the proposed NPDES permit publicly noticed on April 30, 2016.

DATE PREPARED: June 22, 2016

Unless otherwise stated, citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations, revised as of September 28, 2015.
SUBSTANTIAL CHANGES FROM DRAFT PERMIT

1. BOD, TSS and E. coli Bacteria monitoring frequency has been changed from Daily to 3/Week.
2. The final permit compliance schedule for Total Nitrogen effluent limitations has been changed from “6-month” to “3-year”.
3. The final permit compliance schedule for Total Phosphorous effluent limitations has been changed from “6-month” to “3-year”.
4. NH$_3$N (Total as N) and Nitrate + Nitrite (as N) limits have been removed from Part I.A limit table in the final permit.

STATE CERTIFICATION

In a letter from James Hogan, Bureau Chief, SWQB, to Mr. Ron Curry, Regional Administrator dated June 15, 2016, the NMED certified that the discharge will comply with the applicable provisions of Section 208(e), 301, 301, 303, 306 and 307 of the Clean Water Act and with appropriate requirements of State law.

The NMED stated that in order to meet the requirements of State law, including water quality standards and appropriate basin plan as may be amended by the water quality management plan, each of the conditions cited in the draft permit and the State certification shall not be made less stringent.

The State also stated that it reserves the right to amend or revoke this certification if such action is necessary to ensure compliance with the State’s water quality standards and water quality management plan.

Comments that are not Conditions of Certification

Comment #1:

EPA has Total Nitrogen, NH$_3$N (Total as N), Nitrate/Nitrite (as N) in the permit.

NMED asks that EPA remove NH$_3$N (Total as N), Nitrate/Nitrite (as N) in the permit, as Total Nitrogen contains ammonium, nitrate and nitrite.

Response: EPA has removed NH$_3$N (Total as N), Nitrate/Nitrite (as N) from Part I.A limit table.

OTHER COMMENTS RECEIVED ON DRAFT PERMIT

Letter from Shannon Jones, Wastewater Management Division Director, City of Santa Fe, New Mexico, to Evelyn Rosborough (EPA) on May 26, 2016.
RESPONSE TO COMMENTS

Comment #1:

The facility is located at 73 Paseo Real, NOT "Paseo Road".

Response: EPA agrees. The typo in the final permit has been corrected.

Comment #2:

Page numbering is out of sequence throughout the permit.

Response: EPA agrees. The final permit has been renumbered.

Comment #3:

It is suggested that "waster-water" be changed to "wastewater" in the fact sheet.

Response: EPA agrees. The typo in the fact sheet is noted.

Comment #4:

The City of Santa Fe disagrees with the imposing of nutrients limits in the NPDES Permit, the permit writer should consider monitoring requirements to collect additional data. While some data was collected, it is insufficient to determine process optimization as it does not correlate with any process evaluation or changes. The data does not exclude values attributed to upsets, bypasses, operational errors, or unusual conditions that may or may not have cause elevated readings for total nitrogen or total phosphorus. "Permitting authorities might consider monitoring requirements to collect additional data related to the presence or absence of the impairing pollutant in a specific discharge to provide information for further analyses."

Response: According to the 2014-2016 State of New Mexico CWA §303(d)/§305(b) Integrated Report, the Santa Fe River in Water Quality Segment 20.6.4.113 NMAC, where The Santa Fe WWTP discharges treated effluent into, is impaired due to Nutrient/Eutrophication. Consistent with NMIP, the proposed nutrient limits in the draft permit are to ensure there will be no increase to the Santa Fe River nutrient loading and further degradation of the river water quality while the State of New Mexico works on a Total Maximum Daily Load that would determine waste load allocations (WLAs) necessary for the Santa Fe River to meet water quality standards. On April 24, 2015, NMED, also, requested EPA to include nutrient limitation requirements in the permit. The Total Phosphorous and Total Nitrogen limits proposed in the draft permit for this permit term, which were based on the 95th percentile of the most recent three years (i.e., 2012-2014) of City’s wastewater treatment plant effluent data, are conceivably accommodating reasonably anticipated variability within control of the facility and, at same time, would not cause an increase to the river nutrient loading and further degradation of the river water quality. EPA, for now, is keeping Total Phosphorous and Total Nitrogen limits in the
proposed draft limits. However, if any additional data become available, EPA will re-evaluate the limits based on the new data for the plant at the next permit cycle.

**Comment # 5:**

The treatment plant has three non-categorical Significant Industrial User's (SIU).

**Response:** Comment is noted.

**Comment # 6:**

Discharge Limitations for CBOD₅ (Carbonaceous Biochemical Oxygen Demand (5-day)), 30-DAY AVG lbs/day, should be based on a design flow of 13 MGD and at a concentration limit of 25 mg/L, or equal to 2,712 lbs/day. CBOD₅, 7-DAY AVG lbs/day, should be based on a design flow of 13 MGD and at a 40 mg/L concentration, or equal to 4,339 lbs. These numbers should match calculations on page 8 of the Fact Sheet.

**Response:** EPA disagrees. Since approved total residual Chlorine, Stream Bottom Deposits, DO and pH Total Maximum Daily Loads (TMDLs) have been established for the Santa Fe River and, to date, are still in place, all the permit effluent limits (i.e., TSS, CBOD₅...) must be consistent with established WLAs, as required by 40 CFR 122.44(d)(1)(vii)(B). In addition, the permit effluent limits established in the TMDLs are more stringent than the technology-based effluent limitations (for CBOD₅, TSS and pH) described on page 8 of the Fact Sheet.

**Comment # 7:**

Discharge Limitations for TSS (Total Suspended Solids), 30-DAY AVG lbs/day should be based on a design flow of 13 MGD at a concentration of 30 mg/L, or equal to 3,254 lbs. TSS, 7-DAY AVG lbs/day should be based on a design flow of 13 MGD at a concentration of 45 mg/L, or equal to 4,881 lbs. These numbers should match calculations on page 8 of the Fact Sheet.

**Response:** See EPA response to Comment # 6

**Comment # 8:**

It is requested that the Measurement Frequency for CBOD₅, TSS and E.coli remain at 3/week as previously required in the 2010 permit. Monitoring Requirements for CBOD₅, TSS and E. coli Bacteria are conducted through laboratory analysis. The Laboratory operates Monday- Friday. According to page 36 of the March 2012, NMIP, deviation of monitoring frequency is allowed case-by-case based on consideration of factors such as (3) Cost of monitoring relative to the discharger's capabilities and benefit obtained. (4) Compliance history. (6) Effluent variability." Please refer to EPA Response to Comments to reissued NPDES permit NM0022292, dated June 1, 2010, Response 2, page 4 of 5.
Response: EPA agrees and will maintain the monitoring frequencies as required in the 2010 permit. The final permit measured frequency for CBODs, TSS and E. coli Bacteria has been changed to “3/Week”.

Comment #9:
If the EPA sets limits for Total Nitrogen, the City requests that Total Inorganic Nitrogen (TIN) be used at an appropriate limit. TIN is determined as the sum of nitrate as N, nitrite as N, and ammonia as N. TIN is really the constituent of concern, because of its bioavailability and utilization by aquatic organisms which cause eutrophication and accompanying depletion of oxygen in the receiving water.

Response: The Santa Fe Wastewater Treatment Plant (WWTP) discharges treated effluent into the Santa Fe River in Water Quality Segment 20.6.4.113 NMAC with designated uses of coolwater aquatic life, irrigation, livestock watering, wildlife habitat, and primary contact. The 2014-2016 State of New Mexico CWA §303(d) / §305(b) Integrated Report identifies the coolwater aquatic life use in the Santa Fe River as impaired due to Nutrient/Eutrophication. According to NM’s Policy and Procedures, this segment of the Santa Fe River is Tier 1 for nutrients (i.e., phosphorus and nitrogen); therefore any increase in pollutant load or other activity that would cause further degradation of water quality is not allowed. Nutrients include compounds of nitrogen which consists of Total Inorganic Nitrogen (i.e., nitrate, nitrite, and ammonia as N) and organic nitrogen. Therefore, EPA has determined it is not appropriate to grant the permittee’s request.

Comment #10:
If the EPA issues discharge limitations for Total Nitrogen or Total Inorganic Nitrogen, the City of Santa Fe is requesting that discharge limitation for NH3N (Total as N) and Nitrate + Nitrite (as N) be removed as limits as they will be redundant. If these limits are not removed, the monitoring frequency should be 3/month.

Response: EPA agrees. With NMED consensus, EPA has removed NH3N (Total as N) and Nitrate + Nitrite (as N) limits in the final permit. This action is not considered the relaxation of an effluent limitation subject to 40 CFR 122.44(l)(1) since EPA has established Total Nitrogen limits, which has both ammonia and nitrate-nitrite components, in the final permits.

Comment #11:
If EPA determines that limits for total nitrogen and total phosphorous mass loadings must be implemented through the permit, then the City believes that these mass loadings limit should be an annual maximum value. Mass Loadings should not be controlled by permit limitations for a "monthly average". The City believes that a maximum monthly mass loading permit limit is "impracticable" for nitrogen and phosphorous since nutrients do not result in acute toxic effects, but result in negative stream response based on continued
Response: EPA disagrees. The annual mass loading limits would be applicable to the facilities having significant flow variation. According to the DMR, effluent flow of Santa Fe WWTP is continuous and has not shown any significant seasonal variation. Therefore, EPA believes the total nitrogen and total phosphorous monthly mass loading limits are more applicable for the facility. According to 40 CFR 122.45(d)(2), average monthly limitations are required for continuous dischargers.

Comment # 12:
*2 Effluent Characteristics with mass loading limits denoting Footnote *2 are not established by TMDLs for the Santa Fe River. This segment of river has been de-listed from the 303d "List of Impaired Surface Waters" for pH, chlorine, sedimentation and dissolved oxygen.

Response: EPA disagrees. The mass loading limits for CBOD5 and TSS could be found on page 11 (of the Total Maximum Daily Load for the Santa Fe River for Dissolved Oxygen and pH) and on page 14 (of the Total Maximum Daily Load (TMDL) for the Santa Fe River from The Cochiti Pueblo to The Santa Fe Wastewater Treatment Plant for Chlorine and Stream Bottom Deposits), respectively. Even though this segment of river has been delisted, the TMDLs are still in place. Therefore, all the permit effluent limits (i.e., TSS, CBOD5...) for which a TMDL applies must be consistent with established WLAs in the approved TMDLs (see 40 CFR 122.44(d)(1)(vii)).

Comment # 13:
*2 states that "loading limits determined based upon a design flow of 8.5 MGD", however the facility design flow is 13 MGD.

Response: The facility design flow of 8.5 MGD was noted because it was used to derive WLAs in the approved total residual Chlorine, Stream Bottom Deposits, DO and pH Total Maximum Daily Loads established for the Santa Fe River. Since the approved TMDLs are still in place, all the permit effluent limits (i.e., TSS, CBOD5...) for which a TMDL applies must be consistent with established WLAs in the approved TMDLs (see 40 CFR 122.44(d)(1)(vii)).

Comment # 14:
Section B of the Draft Permit requires 6 months compliance schedule for Total Nitrogen limitation. The City of Santa Fe requests a 3-year compliance schedule for Total Nitrogen limitations from the effective date of the this permit to allow sufficient time for the City of Santa Fe to complete a nutrient study to develop a treatment strategy for nutrient removal and allow sufficient time to implement modified, or new, treatment processes as needed to comply with permit limitations.

Response: EPA has no objection. The final permit compliance schedule for Total Nitrogen effluent limitations has been changed to "3-year". EPA modified the language in the final permit and now reads:

The permittee shall achieve compliance with the Total Nitrogen effluent limitations specified for discharges in accordance with the following schedule:
Comment # 15:

Section B of the Draft Permit requires 6 months compliance schedule for Total Phosphorous limitation. The City of Santa Fe requests a 3-year compliance schedule for Total Phosphorous limitations from the effective date of this permit to allow sufficient time for the City of Santa Fe to complete a nutrient study to develop a treatment strategy for nutrient removal and allow sufficient time to implement modified, or new, treatment processes as needed to comply with permit limitations.

Response: EPA has no objection. The final permit compliance schedule for Total Phosphorous effluent limitations has been changed to “3-year”. EPA modified the language in the final permit and now reads:

The permittee shall achieve compliance with the Total Phosphorous effluent limitations specified for discharges in accordance with the following schedule:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>DATE OF COMPLETION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieve Final Effluent Limitations</td>
<td>36 months after permit effective date.</td>
</tr>
</tbody>
</table>

a. The permittee shall submit a progress report outlining the status of the activities (i.e., analyzers installation, Process Optimization Study, etc.) during the months of January, April, July, and October, of each year, until compliance is achieved as stated above.

b. No later than 14 calendar days following the date for compliance for Total Phosphorous effluent limitations, the permittee shall submit a written notice of compliance or noncompliance. The written notice shall report on all tasks that were done to achieve compliance.

c. Where the project completion reported is less than would be required to assure compliance by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.
c. Where the project completion reported is less than would be required to assure compliance by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.
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"),

City of Santa Fe Paseo Real WWTP
P.O. Box 909
Santa Fe, NM 87504-0909

is authorized to discharge to receiving waters named Santa Fe River in Segment No. 20.6.4.113 of the Rio Grande Basin, from a facility located at 73 Paseo Real, Santa Fe, in Santa Fe County, New Mexico.

The discharge is located on that water at the following coordinates:

Outfall 001:  Latitude 35° 37’ 52.41” N, Longitude 106° 05’ 18.88” W

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and IV hereof.

This permit supersedes and replaces NPDES Permit No. NM0022292 issued on June 8, 2010.

This permit shall become effective on SEPTEMBER 1, 2014

This permit and the authorization to discharge shall expire at midnight, AUGUST 31, 2021

Issued on JULY 1, 2014

Prepared by

William K. Honker, P.E.
Director
Water Division (6WQ)

Quang Nguyen
Environmental Engineer
Permitting Section (6WQ-PP)
NPDES PERMIT No. NM0022292

SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS.

Final Effluent limits – 13 MGD Design Flow

During the period beginning the effective date of this permit and lasting through the expiration date of this permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater to the Santa Fe River, in Segment Number 20.6.4.113, from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>pH</td>
<td>6.6</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs/day, unless noted</td>
<td>mg/l, unless noted (*1)</td>
</tr>
<tr>
<td></td>
<td>30-DAY AVG</td>
<td>DAILY MAX</td>
</tr>
<tr>
<td>Flow</td>
<td>Report MGD</td>
<td>Report MGD</td>
</tr>
<tr>
<td>Carbonaceous Biochemical OxygenDemand (5-day)</td>
<td>709 (*2)</td>
<td>N/A</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>2127(*2)</td>
<td>N/A</td>
</tr>
<tr>
<td>Carbonaceous Biochemical OxygenDemand (5-day) % removal, minimum</td>
<td>≥ 85%</td>
<td>---</td>
</tr>
<tr>
<td>Total Suspended Solids % removal, minimum</td>
<td>≥ 85%</td>
<td>---</td>
</tr>
<tr>
<td>E. coli Bacteria</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Total Phosphorous</td>
<td>108</td>
<td>Report</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>265</td>
<td>Report</td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>Report</td>
<td>N/A</td>
</tr>
<tr>
<td>Total Residual Chlorine</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
NPDES PERMIT No. NM0022292

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE MONITORING</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Effluent Lethality (22414)</td>
<td>30-DAY AVG</td>
<td>MEASUREMENT FREQUENCY</td>
</tr>
<tr>
<td>(7-Day NOEC)</td>
<td>7-DAY MINIMUM</td>
<td>SAMPLE TYPE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*5 Pimephales promelas</td>
<td>100%</td>
<td>Once/year</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>24-Hr Composite</td>
</tr>
<tr>
<td>*5 Ceriodaphnia dubia</td>
<td>100%</td>
<td>Once/6 months</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>24-Hr Composite</td>
</tr>
</tbody>
</table>

Footnotes:

*1 See Appendix A of Part II of the permit for minimum quantification limits.

*2 Permit limits established by TMDLs for the Santa Fe River. Loading limits determined based on a design flow of 8.5 MGD.

*3 Colony forming units (cfu) per 100ml. The E. coli bacteria 30-day average is the geometric mean of the values for all effluent samples collected during a calendar month.

*4 TRC shall be measured during periods when chlorine is used as either backup bacteria control, when disinfection of plant treatment equipment is required or when used for filamentous algae control. Regulations at 40 CFR Part 136 define “instantaneous grab” as analyzed within 15 minutes of collection. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

*5 Monitoring and reporting requirements begin on the effective date of this permit. See Part II, WET testing requirements for additional WET monitoring and reporting conditions.

*6 Percent removal is calculated using the following equation: \([\text{average monthly influent concentration} - \text{average monthly effluent concentration}] + \text{average monthly influent concentration}] \times 100\).

*7 24-hour composite sample consists of a minimum of twelve (12) effluent portions collected at equal time intervals over a 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.
FLOATING SOLIDS, VISIBLE FOAM AND/OR OILS

The discharge shall be free of oils, scum, grease, and other floating materials resulting from other than natural causes that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant, or aquatic life.

SECTION B. SCHEDULE OF COMPLIANCE

Compliance Schedule 1: The permittee shall achieve compliance with the Total Nitrogen effluent limitations specified for discharges in accordance with the following schedule:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
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<tbody>
<tr>
<td>Achieve Final Effluent Limitations</td>
<td>36 months after permit effective date.</td>
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<tr>
<td>a.</td>
<td>The permittee shall submit a progress report outlining the status of the activities (i.e., analyzers installation, Process Optimization Study, etc.) during the months of January, April, July, and October, of each year, until compliance is achieved as stated above.</td>
</tr>
<tr>
<td>b.</td>
<td>No later than 14 calendar days following the date for compliance for Total Nitrogen effluent limitations, the permittee shall submit a written notice of compliance or noncompliance. The written notice shall report on all tasks that were done to achieve compliance.</td>
</tr>
<tr>
<td>c.</td>
<td>Where the project completion reported is less than would be required to assure compliance by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.</td>
</tr>
</tbody>
</table>

Compliance Schedule 2: The permittee shall achieve compliance with the Total Phosphorous effluent limitations specified for discharges in accordance with the following schedule:

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<td>b.</td>
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<tr>
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<td>Where the project completion reported is less than would be required to assure compliance by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.</td>
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</table>
SECTION C - MONITORING AND REPORTING

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. All DMRs shall be electronically reported effective December 21, 2016 per 40 CFR 127.16. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR@epa.gov in-box for further instructions. Until you are approved for Net DMR, you must report on the Discharge Monitoring Report (DMR) Form EPA. No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D. to the EPA and copies to NMED as required (See Part III.D.IV of the permit). Reports shall be submitted monthly.

   a. Reporting periods shall end on the last day of each month.
   b. The permittee is required to submit regular monthly reports no later than the 15th day of the month.
   c. The annual sludge report required in Part IV of the permit is due on February 19 of each year and covers the previous calendar year from January 1 through December 31.

3. If any 30-day average, monthly average, 7-day average, weekly average, or daily maximum value exceeds the effluent limitations specified in Part I.A, the permittee shall report the excursion in accordance with the requirements of Part III.D.

4. Any 30-day average, monthly average, 7-day average, weekly average, or daily maximum value reported in the required Discharge Monitoring Report which is in excess of the effluent limitation specified in Part I.A shall constitute evidence of violation of such effluent limitation and of this permit.

5. Other measurements of oxygen demand (e.g., TOC and COD) may be substituted for five day Biochemical Oxygen Demand (BOD₅) or for five day Carbonaceous Biochemical Oxygen Demand (CBOD₅), as applicable, where the permittee can demonstrate long term correlation of the method with BOD₅ or CBOD₅ values, as applicable. Details of the correlation procedures used must be submitted and prior approval granted by the permitting authority for this procedure to be acceptable. Data reported must also include evidence to show that the proper correlation continues to exist after approval.

6. 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 to EPA 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 NMED Surface Water Quality Bureau within 5 days of the time the permittee becomes aware of the circumstance.
D. 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) & SUFFICIENTLY SENSITIVE METHODS

EPA-approved test procedures (methods) for the analysis and quantification of pollutants or pollutant parameters, including for the purposes of compliance monitoring/DMR reporting, permit renewal applications, or any other reporting that may be required as a condition of this permit, shall be sufficiently sensitive. A method is "sufficiently sensitive" when (1) the method minimum level (ML) of quantification is at or below the level of the applicable effluent limit for the measured pollutant or pollutant parameter; or (2) if there is no EPA-approved analytical method with a published ML at or below the effluent limit (see table below), then the method has the lowest published ML (is the most sensitive) of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or (3) the method is specified in this permit or has been otherwise approved in writing by the permitting authority (EPA Region 6) for the measured pollutant or pollutant parameter. The Permittee has the option of developing and submitting a report to justify the use of matrix or sample-specific MLs rather than the published levels. Upon written approval by EPA Region 6 the matrix or sample-specific MLs may be utilized by the Permittee for all future Discharge Monitoring Report (DMR) reporting requirements.

Current EPA Region 6 minimum quantification levels (MQLs) for reporting and compliance are provided in Appendix A of Part II of this permit. The following pollutants may not have EPA-approved methods with a published ML at or below the effluent limit, if specified:

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

Unless otherwise indicated in this permit, if the EPA Region 6 MQL for a pollutant or pollutant...
parameter is sufficiently sensitive (as defined above) and the analytical test result is less than the MQL, then a value of zero (0) may be used for reporting purposes on DMRs. Furthermore, if the EPA Region 6 MQL for a pollutant or parameter is not sufficiently sensitive, but the analytical test result is less than the published ML from a sufficiently sensitive method, then a value of zero (0) may be used for reporting purposes on DMRs.

B. 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 the 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.

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.

C. 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 of New Mexico 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
REPORTED ON DMR AS FINAL OUTFALL: 001
CRITICAL DILUTION (%): 100%
EFFLUENT DILUTION SERIES (%): 32, 42, 56, 75, 100%
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 Effect Concentration) is herein defined as the greatest effluent dilution at and below which toxicity 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 chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. PERSISTENT LETHAL and/or SUB-LETHAL EFFECTS

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at or below the critical dilution. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

If any valid test demonstrates significant lethal or sub-lethal effects to a test species at or below the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the life of the permit.

a. Part I Testing Frequency Other Than Monthly

i. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates significant toxic effects at or below the critical dilution. The additional tests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.

ii. IF LETHAL EFFECTS HAVE BEEN DEMONSTRATED If any of the additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may be also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.

iii. IF ONLY SUB-LETHAL EFFECTS HAVE BEEN DEMONSTRATED If any two of the three additional tests demonstrates significant sub-lethal effects at 75% effluent or lower, the permittee shall initiate the Sub-Lethal Toxicity
Reduction Evaluation (TREsL) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the Sub-Lethal Effects TRE initiation date will be the test completion date of the first failed retest. A TRE may be also be required for failure to perform the required retests.

iv. The provisions of Item 2.a.i. are suspended upon submittal of the TRE Action Plan.

b. Part I Testing Frequency of Monthly

The permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section when any two of three consecutive monthly toxicity tests exhibit significant lethal effects at or below the critical dilution. A TRE may also be required due to a demonstration of intermittent lethal and/or sub-lethal effects at or below the critical dilution, or for failure to perform the required retests.

3. 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.

iv. 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.

v. 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 of the Fathead minnow test.

vi. 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 in the Fathead minnow test.

vii. A Percent Minimum Significant Difference (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 3.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 4 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 where the receiving stream is classified as intermittent or where the receiving stream has no flow due to zero flow conditions.

ii. If the receiving water is unsatisfactory as a result of in-stream toxicity (fails to fulfill the test acceptance criteria of Item 2.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 2.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**

i. The permittee shall collect a minimum of three flow weighted composite 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 composite 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 composite 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 composite sample. Samples shall be chilled to 6 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 composite 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 composite 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.

v. **MUSTRowE OUTFALLS:** If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the composite effluent samples in proportion to the average flow from the outfalls listed in Item 1.a above for the day the sample was collected. The permittee shall perform the toxicity test on the flow weighted composite of the outfall samples.

4. **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 bio-monitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the **LOWEST** 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 the valid toxicity test on the DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information 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*

(a) If the No Observed Effect Concentration (NOEC) for lethal effects 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 Lowest Observed Effect Concentration (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 lethal effects 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.

(e) Report the LOEC value for reproduction, Parameter No. TYP3B.

(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. 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 and/or sub-lethal effects 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 and/or sub-lethal effects is less than the critical dilution; otherwise, enter a '0'

iii. For retest number 3, Parameter 51443, enter a '1' if the NOEC for survival and/or sub-lethal effects is less than the critical dilution; otherwise, enter a '0'
5. **TOXICITY REDUCTION EVALUATIONS (TREs)**

TREs for lethal and sub-lethal effects are performed in a very similar manner. EPA Region 6 is currently addressing TREs as follows: a sub-lethal TRE (TRE_{SL}) is triggered based on three sub-lethal test failures while a lethal effects TRE (TRE_{L}) is triggered based on only two test failures for lethality. In addition, EPA Region 6 will consider the magnitude of toxicity and use flexibility when considering a TRE_{SL} where there are no effects at effluent dilutions of less than 76% effluent.

a. Within ninety (90) days of confirming persistent toxicity, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The goal of the TRE is to maximally reduce the toxic effects of effluent at the critical dilution and includes the following:

i. **Specific Activities.** The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents 'Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures' (EPA/600/6-91-003) and 'Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I' (EPA/600/6-91-005F), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents 'Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92-080) and 'Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92-081), as appropriate. The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at (703) 487-4650, or by writing:

   **U.S. Department of Commerce**
   **National Technical Information Service**
   **5285 Port Royal Road**
   **Springfield, VA 22161**

ii. **Sampling Plan** (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be...
adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified; Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis;

iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and,

iv. Project Organization (e.g., project staff, project manager, consulting services, etc.)

b. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.

c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including:

   i. Any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;

   ii. Any studies/evaluations and results on the treatability of the facility's effluent toxicity; and,

   iii. Any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.

A copy of the TRE Activities Report shall also be submitted to the state agency.

d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the state agency.

e. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound
causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

6. **MONITORING FREQUENCY REDUCTION (For Ceriodaphnia dubia ONLY)**

   a. The permittee may apply for a testing frequency reduction upon the successful completion of the first two consecutive semi-annual of testing for the Ceriodaphnia dubia test species only, with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency for that test species may be reduced to not less than once per year for the more sensitive Ceriodaphnia dubia test species.

   b. **CERTIFICATION** - The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 3.a. above. In addition the permittee must provide a list with each test performed including test initiation date, species, NOECs for lethal and sub-lethal effects and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the agency will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the agency’s Permit Compliance System section to update the permit reporting requirements.

   c. **SUB-LETHAL OR SURVIVAL FAILURES** - If any test fails the survival or sub-lethal endpoint at any time during the life of this permit, three monthly retests are required and the monitoring frequency for the affected test species shall be increased to once per quarter until the permit is reissued. Monthly retesting is not required if the permittee is performing a TRE.

Any monitoring frequency reduction granted applies only until the expiration date of this permit, at which time the monitoring frequency for both test species reverts to once per quarter until the permit is re-issued.
PART II – OTHER REQUIREMENTS

SECTION A. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Section 402(b)(8) of the Act, the General Pretreatment Regulations (40 CFR Part 403) and the approved POTW pretreatment program submitted by the permittee. The pretreatment program was approved on December 20, 1984, and modified on March 1, 1994, September 26, 2006, and February 26, 2008. The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements.

(a) Industrial user (IU) information shall be updated at a frequency adequate to ensure that all IUs are properly characterized at all times.

(b) The frequency and nature of industrial user compliance monitoring activities by the permittee shall be commensurate with the character, consistency and volume of waste. The permittee must inspect and sample the effluent from each Significant Industrial in accordance with 40 CFR 403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.

(c) The permittee shall enforce and obtain remedies for noncompliance by any industrial users with applicable pretreatment standards and requirements.

(d) The permittee shall control through permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements. In the case of Industrial Users identified as significant under 40 CFR 403.3(v), this control shall be achieved through individual or general control mechanisms, in accordance with 40 CFR 403.8(f)(1)(iii). Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

(i) Statement of duration (not to exceed five years);
(ii) Statement of non-transfererability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
(iii) Effluent limits, including Best Management Practices, based on applicable general Pretreatment Standards, categorical Pretreatment Standards, local limits, and State and local law;
(iv) Self-monitoring, sampling, reporting, notification and recordkeeping requirements, including an identification of the pollutants to be monitored (including the process for seeking a waiver for a pollutant neither present nor expected to be present in the Discharge on accordance with §403.12(e)(2), or a specific waiver pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general Pretreatment Standards in 40 CFR 403, categorical Pretreatment Standards, local limits, and State and local law;
(v) Statement of applicable civil and criminal penalties for violation of Pretreatment Standards and requirements, and any applicable compliance
The permittee shall evaluate, whether each Significant Industrial User needs a plan or other action to control slug discharges, in accordance with 40 CFR 403.8(f)(2)(vi).

(f) The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.

(g) The approved program shall not be modified by the permittee without the prior approval of the EPA.

2. The permittee shall establish and enforce specific limits to implement the provisions of 40 CFR Parts 403.5 (a) and (b), as required by 40 CFR Part 403.5 (c). POTWs may develop Best Management Practices (BMPs) to implement paragraphs 40 CFR 403.5 (c)(1) and (c)(2). Such BMPs shall be considered local limits and Pretreatment Standards. Each POTW with an approved pretreatment program shall continue to develop these limits as necessary and effectively enforce such limits.

The permittee shall, within sixty (60) days of the effective date of this permit, (1) submit a WRITTEN CERTIFICATION that a technical evaluation has been demonstrated that the existing technically based local limits (TBLL) are based on current state water quality standards and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination, OR (2) submit a WRITTEN NOTIFICATION that a technical evaluation revising the current TBLL and a draft sewer use ordinance which incorporates such revisions will be submitted within 12 months of the effective date of this permit.

All specific prohibitions or limits developed under this requirement are deemed to be conditions of this permit. The specific prohibitions set out in 40 CFR Part 403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in 40 CFR 122 Appendix D (NPDES Application Testing Requirements) Table II at least once/12 months and the toxic pollutants in Table III at least once/3 months. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least once/3 months on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. The effluent samples shall be analyzed to a level at least as low as required in item (6) below. Where composite
samples are inappropriate, due to sampling, holding time, or analytical constraints, at least 4 grab samples, taken at equal intervals over a representative 24 hour period, shall be taken.

4. The permittee shall prepare annually a list of Industrial Users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements. For the purposes of this Part, significant noncompliance shall be determined based upon the more stringent of either criteria established at 40 CFR Part 403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW during the month of December.

In addition, during the month of December the permittee shall submit an updated pretreatment program status report to EPA and the State containing the following information:

(a) An updated list of all significant industrial users and identify which Industrial Users are Non-Significant Categorical Industrial Users (NSCIUs) or Middle Tier CIUs. The list must also identify:

- Industrial Users subject to categorical Pretreatment Standards that are subject to reduced monitoring and reporting requirements under 40 CFR 403.12(e)(2) & (3);
- Industrial Users subject to the following categorical Pretreatment Standards [Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF) (40 CFR part 414), Petroleum Refining (40 CFR part 419), and Pesticide Chemicals (40 CFR part 455)] and for which the Control Authority has chosen to use the concentration-based standards rather than converting them to flow-based mass standards as allowed at 40 CFR 403.6(c)(6);
- Categorical Industrial Users subject to concentration-based standards for which the Control Authority has chosen to convert the concentration-based standards to equivalent mass limits, as allowed at 40 CFR 403.6(c)(5);
- General Control Mechanisms used for similar groups of SIUs along with the substantially similar types of operations and the types of wastes that are the same, for each separate General Control Mechanism, as allowed at 40 CFR 403.8(f)(1)(iii); and,
- Best Management Practices or Pollution Prevention alternatives required by a categorical Pretreatment Standard or as a local limit requirement that are implemented and documentation to demonstrate compliance, as required at 40 CFR 403.12 (b), (e) and (h).

For each industrial user listed the following information shall be included:

(i) Standard Industrial Classification (SIC) or NAISC code and categorical determination;
(ii) Control document status. Whether the user has an effective control document, and the date such document was last issued, reissued, or modified, (indicate which industrial users were added to the system (or newly identified) within the previous 12 months);
(iii) A summary of all monitoring activities performed within the previous 12 months. The following information shall be reported:

- Total number of inspections performed;
- Total number of sampling visits made.

(iv) Status of compliance with both effluent limitations and reporting requirements. Compliance status shall be defined as follows:

- Compliant (C) - no violations during the previous 12 month period;
- Non-compliant (NC) - one or more violations during the previous 12 months but does not meet the criteria for significantly noncompliant industrial users;
- Significant Noncompliance (SNC) - in accordance with requirements described in 4. above; and,

(v) For significantly noncompliant industrial users, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.) and current compliance status. If ANY industrial user was on a schedule to attain compliance with effluent limits, indicate the date the schedule was issued and the date compliance is to be attained.

(b) A list of all significant industrial users whose authorization to discharge was terminated or revoked during the preceding 12 month period and the reason for termination;

(c) A report on any interference, pass through, upset or POTW permit violations known or suspected to be caused by industrial contributors and actions taken by the permittee in response;

(d) The results of all influent and effluent analyses performed pursuant to Part II(A)(3) above;

(e) A copy of the newspaper publication of the significantly noncompliant industrial users giving the name of the newspaper and the date published;

(f) The information requested may be submitted in tabular form as per the example tables provided for your convenience; and,

(g) The monthly average water quality based effluent concentration necessary to meet the state water quality standards as developed in the approved technically based local limits.

5. The permittee shall provide adequate notice of the following:

(a) Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Act if it were directly discharging those pollutants;

(b) Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit; and,

(c) Adequate notice shall include information on

1. the quality and quantity of effluent to be introduced into the treatment works, and
2. any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.
6. All effluent monitoring conducted in accordance with Part (II)(A)(3) above shall meet the Minimum Quantification Levels (MQLs) shown in Part (II) Appendix A.
Permit No. NM0022292

<table>
<thead>
<tr>
<th>POLLUTANT</th>
<th>MAHL, if applicable, in g/L</th>
<th>Influent Values (in g/L) on Dates Sampled</th>
<th>Daily Average Effluent Limit in g/L</th>
<th>Effluent Values (in g/L) on Dates Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beryllium (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium (Total)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Chromium (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molybdenum (Total)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Nickel (Total)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Selenium (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thallium (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyanide (Total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FOOTNOTE**

(1) It is advised that the influent and effluent samples are collected considering flow detention through each treatment plant. Analytical MQIs should be used so that the data can also be used for Local Limits assessment and NPDES application process.
(1) SIGNIFICANTLY NONCOMPLIANT USERS - ENFORCEMENT ACTIONS TAKEN

<table>
<thead>
<tr>
<th>INDUSTRIAL USER</th>
<th>NATURE OF VIOLATION</th>
<th>NUMBER OF ACTIONS TAKEN</th>
<th>PENALTIES COLLECTED</th>
<th>COMPLIANCE SCHEDULE</th>
<th>CURRENT STATUS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REPORTS LIMITS N.O.V. A.O. CIVIL CRIMINAL OTHER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOOTNOTE

(1) Record the names of the pollutants [40 CFR 122, Appendix D, Table II and/or Table V] detected and the quantity in which they were detected.
<table>
<thead>
<tr>
<th>INDUSTRIAL USER</th>
<th>SIC CODE</th>
<th>CATEGORICAL DETERMINATION</th>
<th>CONTROL DOCUMENT</th>
<th>NEW USER</th>
<th>TIMES INSPECTED</th>
<th>TIMES SAMPLED</th>
<th>COMPLIANCE STATUS</th>
<th>REPORTS</th>
<th>EFFLUENT LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Y/N LAST ACTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BMR</td>
<td>90-DAY COMPLIANCE</td>
</tr>
</tbody>
</table>
APPENDIX A of PART II

The following Minimum Quantification Levels (MQL's) are to be used for reporting pollutant data for NPDES permit applications and/or compliance reporting.

<table>
<thead>
<tr>
<th>POLLUTANTS</th>
<th>MQL µg/l</th>
<th>POLLUTANTS</th>
<th>MQL µg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>METALS, RADIOACTIVITY, CYANIDE and CHLORINE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td>2.5</td>
<td>Molybdenum</td>
<td>10</td>
</tr>
<tr>
<td>Antimony</td>
<td>60</td>
<td>Nickel</td>
<td>0.5</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.5</td>
<td>Selenium</td>
<td>5</td>
</tr>
<tr>
<td>Barium</td>
<td>100</td>
<td>Silver</td>
<td>0.5</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.5</td>
<td>Thallium</td>
<td>0.5</td>
</tr>
<tr>
<td>Boron</td>
<td>100</td>
<td>Uranium</td>
<td>0.1</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1</td>
<td>Vanadium</td>
<td>50</td>
</tr>
<tr>
<td>Chromium</td>
<td>10</td>
<td>Zinc</td>
<td>20</td>
</tr>
<tr>
<td>Cobalt</td>
<td>50</td>
<td>Cyanide</td>
<td>10</td>
</tr>
<tr>
<td>Copper</td>
<td>0.5</td>
<td>Cyanide, weak acid dissociable</td>
<td>10</td>
</tr>
<tr>
<td>Lead</td>
<td>0.5</td>
<td>Total Residual Chlorine</td>
<td>33</td>
</tr>
<tr>
<td>Mercury *1</td>
<td>0.0005</td>
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<td>0.005</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIOXIN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,3,7,8-TCDD</td>
<td>0.00001</td>
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</tr>
<tr>
<td>VOLATILE COMPOUNDS</td>
<td></td>
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<tr>
<td>Acrolein</td>
<td>50</td>
<td>1,3-Dichloropropylene</td>
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</tr>
<tr>
<td>Acrylonitrile</td>
<td>20</td>
<td>Ethylbenzene</td>
<td>10</td>
</tr>
<tr>
<td>Benzene</td>
<td>10</td>
<td>Methyl Bromide</td>
<td>50</td>
</tr>
<tr>
<td>Bromoform</td>
<td>10</td>
<td>Methylene Chloride</td>
<td>20</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>2</td>
<td>1,1,2,2-Tetrachloroethane</td>
<td>10</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>10</td>
<td>Tetrachloroethylene</td>
<td>10</td>
</tr>
<tr>
<td>Chlorodibromomethane</td>
<td>10</td>
<td>Toluene</td>
<td>10</td>
</tr>
<tr>
<td>Chloroform</td>
<td>50</td>
<td>1,2-trans-Dichloroethylene</td>
<td>10</td>
</tr>
<tr>
<td>Dichlorobromomethane</td>
<td>10</td>
<td>1,1,2-Trichloroethane</td>
<td>10</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
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<td>Trichloroethylene</td>
<td>10</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>10</td>
<td>Vinyl Chloride</td>
<td>10</td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACID COMPOUNDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Chlorophenol</td>
<td>10</td>
<td>2,4-Dinitrophenol</td>
<td>50</td>
</tr>
<tr>
<td>2,4-Dichlorophenol</td>
<td>10</td>
<td>Pentachlorophenol</td>
<td>5</td>
</tr>
<tr>
<td>2,4-Dimethylphenol</td>
<td>10</td>
<td>Phenol</td>
<td>10</td>
</tr>
<tr>
<td>4,6-Dinitro-o-Cresol</td>
<td>50</td>
<td>2,4,6-Trichlorophenol</td>
<td>10</td>
</tr>
</tbody>
</table>
Appendix A of Part II

### POLLUTANTS

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL µg/l</th>
<th>Pollutant</th>
<th>MQL µg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acenaphthene</td>
<td>10</td>
<td>Dimethyl Phthalate</td>
<td>10</td>
</tr>
<tr>
<td>Anthracene</td>
<td>10</td>
<td>Di-n-Butyl Phthalate</td>
<td>10</td>
</tr>
<tr>
<td>Benzidine</td>
<td>50</td>
<td>2,4-Dinitrotoluene</td>
<td>10</td>
</tr>
<tr>
<td>Benzo(a)anthracene</td>
<td>5</td>
<td>1,2-Diphenylhydrazine</td>
<td>20</td>
</tr>
<tr>
<td>Benzo(a)pyrene</td>
<td>5</td>
<td>Fluoranthe</td>
<td>10</td>
</tr>
<tr>
<td>3,4-Benzofluoranthe</td>
<td>10</td>
<td>Fluorene</td>
<td>10</td>
</tr>
<tr>
<td>Benzo(k)fluoranthe</td>
<td>5</td>
<td>Hexachlorobenzene</td>
<td>5</td>
</tr>
<tr>
<td>Bis(2-chloroethyl)Ether</td>
<td>10</td>
<td>Hexachlorobutadiene</td>
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</tr>
<tr>
<td>Bis(2-chloroisopropyl)Ether</td>
<td>10</td>
<td>Hexachlorocyclopentadiene</td>
<td>10</td>
</tr>
<tr>
<td>Bis(2-ethylhexyl)Phthalate</td>
<td>10</td>
<td>Hexachloroethane</td>
<td>20</td>
</tr>
<tr>
<td>Butyl Benzyl Phthalate</td>
<td>10</td>
<td>Indeno(1,2,3-cd)Pyrene</td>
<td>5</td>
</tr>
<tr>
<td>2-Chloronaphthalene</td>
<td>10</td>
<td>Isophorone</td>
<td>10</td>
</tr>
<tr>
<td>Chrysene</td>
<td>5</td>
<td>Nitrobenzene</td>
<td>10</td>
</tr>
<tr>
<td>Dibenz[a,h]anthracene</td>
<td>5</td>
<td>n-Nitrosodimethylamine</td>
<td>50</td>
</tr>
<tr>
<td>1,2-Dichlorobenzene</td>
<td>10</td>
<td>n-Nitrosodi-Propylamine</td>
<td>20</td>
</tr>
<tr>
<td>1,3-Dichlorobenzene</td>
<td>10</td>
<td>n-Nitrosodiphenylamine</td>
<td>20</td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>10</td>
<td>Pyrene</td>
<td>10</td>
</tr>
<tr>
<td>3,3'-Dichlorobenzidine</td>
<td>5</td>
<td>1,2,4-Trichlorobenzene</td>
<td>10</td>
</tr>
<tr>
<td>Diethyl Phthalate</td>
<td>10</td>
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</tr>
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</table>

### BASE/NEUTRAL

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL µg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Diphenyldiazine</td>
<td>20</td>
</tr>
<tr>
<td>Fluoranthene</td>
<td>10</td>
</tr>
<tr>
<td>Indeno(1,2,3-cd)Pyrene</td>
<td>5</td>
</tr>
<tr>
<td>Isophorone</td>
<td>10</td>
</tr>
<tr>
<td>Nitrobenzene</td>
<td>10</td>
</tr>
<tr>
<td>n-Nitrosodimethylamine</td>
<td>50</td>
</tr>
<tr>
<td>n-Nitrosodi-Propylamine</td>
<td>20</td>
</tr>
<tr>
<td>n-Nitrosodiphenylamine</td>
<td>20</td>
</tr>
<tr>
<td>Pyrene</td>
<td>10</td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>10</td>
</tr>
</tbody>
</table>

### PESTICIDES AND PCBS

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL µg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldrin</td>
<td>0.01</td>
</tr>
<tr>
<td>Alpha-BHC</td>
<td>0.05</td>
</tr>
<tr>
<td>Beta-BHC</td>
<td>0.05</td>
</tr>
<tr>
<td>Gamma-BHC</td>
<td>0.05</td>
</tr>
<tr>
<td>Chlordane</td>
<td>0.2</td>
</tr>
<tr>
<td>4,4'-DDT and derivatives</td>
<td>0.02</td>
</tr>
<tr>
<td>Dieldrin</td>
<td>0.02</td>
</tr>
<tr>
<td>Alpha-Endosulfan</td>
<td>0.01</td>
</tr>
<tr>
<td>Beta-Endosulfan</td>
<td>0.02</td>
</tr>
<tr>
<td>Endosulfan sulfate</td>
<td>0.02</td>
</tr>
<tr>
<td>Endrin</td>
<td>0.02</td>
</tr>
<tr>
<td>Endrin Aldehyde</td>
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<tr>
<td>Heptachlor</td>
<td>0.01</td>
</tr>
<tr>
<td>Heptachlor Epoxide</td>
<td>0.01</td>
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<tr>
<td>PCBs</td>
<td>0.2 *2</td>
</tr>
<tr>
<td>Toxaphene</td>
<td>0.3</td>
</tr>
</tbody>
</table>

(MQL's Revised November 1, 2007)

Footnotes:

*1 Default MQL for Mercury is 0.005 unless Part I of your permit requires the more sensitive Method 1631 (Oxidation / Purge and Trap / Cold vapor Atomic Fluorescence Spectrometry), then the MQL shall be 0.0005.

*2 For the one-time test requirement as shown in Section A of Part I of the permit above, the detection limits addressed in Method 1668A, as revised: Chlorinated Biphenyl Congeners in Water, Soil, Sediment and Tissue by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS) shall be used.
PART III - STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. INTRODUCTION
   In accordance with the provisions of 40 CFR Part 122.41, et. seq., this permit incorporates by reference ALL conditions and requirements applicable to NPDES Permits set forth in the Clean Water Act, as amended, (hereinafter known as the "Act") as well as ALL applicable regulations.

2. DUTY TO COMPLY
   The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. TOXIC POLLUTANTS
   a. Notwithstanding Part III.A.5, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition.
   b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

4. DUTY TO REAPPLY
   If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 and any subsequent amendments.

5. PERMIT FLEXIBILITY
   This permit may be modified, revoked and reissued, or terminated for cause in accordance with 40 CFR 122.62-64. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

6. PROPERTY RIGHTS
   This permit does not convey any property rights of any sort, or any exclusive privilege.

7. DUTY TO PROVIDE INFORMATION
   The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

8. CRIMINAL AND CIVIL LIABILITY
   Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to 18 U.S.C. Section 1001.

9. OIL AND HAZARDOUS SUBSTANCE LIABILITY
   Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

10. STATE LAWS
    Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.
11. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

B. PROPER OPERATION AND MAINTENANCE

1. NEED TO HALT OR REDUCE NOT A DEFENSE

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators or retention of inadequately treated effluent.

2. DUTY TO MITIGATE

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

3. PROPER OPERATION AND MAINTENANCE

a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

4. BYPASS OF TREATMENT FACILITIES

a. BYPASS NOT EXCEEDING LIMITATIONS

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.b. and 4.c.

b. NOTICE

(1) ANTICIPATED BYPASS

If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2) UNANTICIPATED BYPASS

The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III.D.7.

c. PROHIBITION OF BYPASS

(1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

(c) The permittee submitted notices as required by Part III.B.4.b.

(2) The Director may allow an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part III.B.4.c(1).
5. UPSET CONDITIONS

a. EFFECT OF AN UPSET
   An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit
   effluent limitations if the requirements of Part III.B.5.b. are met. No determination made during administrative review of
   claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action
   subject to judicial review.

b. CONDITIONS NECESSARY FOR A DEMONSTRATION OF UPSET
   A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed,
   contemporaneous operating logs, or other relevant evidence that:
   
   (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
   (2) The permitted facility was at the time being properly operated;
   (3) The permittee submitted notice of the upset as required by Part III.D.7; and,
   (4) The permittee complied with any remedial measures required by Part III.B.2.

c. BURDEN OF PROOF
   In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. REMOVED SUBSTANCES
   Unless otherwise authorized, solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or
   wastewater control shall be disposed of in a manner such as to prevent any pollutant from such materials from entering
   navigable waters.

7. PERCENT REMOVAL (PUBLICLY OWNED TREATMENT WORKS)
   For publicly owned treatment works, the 30-day average (or Monthly Average) percent removal for Biochemical Oxygen
   Demand and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in
   accordance with 40 CFR 133.103.

C. MONITORING AND RECORDS

1. INSPECTION AND ENTRY
   The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other
   documents as may be required by the law to:
   
   a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be
      kept under the conditions of this permit;
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations
      regulated or required under this permit; and
   d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the
      Act, any substances or parameters at any location.

2. REPRESENTATIVE SAMPLING
   Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

3. RETENTION OF RECORDS
   The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all
   original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and
   records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample,
   measurement, report, or application. This period may be extended by request of the Director at any time.

4. RECORD CONTENTS
   Records of monitoring information shall include:
   
   a. The date, exact place, and time of sampling or measurements;
b. The individual(s) who performed the sampling or measurements;

c. The date(s) and time(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

5. **MONITORING PROCEDURES**

a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.

b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.

c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory.

6. **FLOW MEASUREMENTS**

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

D. **REPORTING REQUIREMENTS**

1. **PLANNED CHANGES**

a. **INDUSTRIAL PERMITS**

   The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b); or,

   (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements listed at Part III.D.10.a.

b. **MUNICIPAL PERMITS**

   Any change in the facility discharge (including the introduction of any new source or significant discharge or significant changes in the quantity or quality of existing discharges of pollutants) must be reported to the permitting authority. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. **ANTICIPATED NONCOMPLIANCE**

   The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. **TRANSFERS**

   This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. **DISCHARGE MONITORING REPORTS AND OTHER REPORTS**

   Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of the paper DMR Form. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR.epa.gov in-box for further instructions. Until you
are approved for Net DMR, you must report on the Discharge Monitoring Report (DMR) Form EPA No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D. to the EPA at the address below. Duplicate copies of paper DMR's and all other reports shall be submitted to the appropriate State agency (ies) at the following address (es):

**EPA:**
Compliance Assurance and Enforcement Division  
Water Enforcement Branch (6EN-W)  
U.S. Environmental Protection Agency, 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 Drive  
Santa Fe, NM 87502-5469

5. **ADDITIONAL MONITORING BY THE PERMITTEE**
If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR.

6. **AVERAGING OF MEASUREMENTS**
Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

7. **TWENTY-FOUR HOUR REPORTING**
   a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information:
      (1) A description of the noncompliance and its cause;
      (2) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and,
      (3) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.
   b. The following shall be included as information which must be reported within 24 hours:
      (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
      (2) Any upset which exceeds any effluent limitation in the permit; and,
      (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.
   c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

8. **OTHER NONCOMPLIANCE**
The permittee shall report all instances of noncompliance not reported under Parts III.D.4 and D.7 and Part I.B (for industrial permits only) at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.7.

9. **OTHER INFORMATION**
Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. **CHANGES IN DISCHARGES OF TOXIC SUBSTANCES**
All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Director as soon as it knows or has reason to believe:
a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   (1) One hundred micrograms per liter (100 µg/L);
   (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2, 4-dinitro-phenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
   (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Director.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   (1) Five hundred micrograms per liter (500 µg/L);
   (2) One milligram per liter (1 mg/L) for antimony;
   (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Director.

11. SIGNATORY REQUIREMENTS
All applications, reports, or information submitted to the Director shall be signed and certified.

a. ALL PERMIT APPLICATIONS shall be signed as follows:

   (1) FOR A CORPORATION - by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,

      (b) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations, the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

   (2) FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP - by a general partner or the proprietor, respectively.

   (3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

      (a) The chief executive officer of the agency, or

      (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   (1) The authorization is made in writing by a person described above;

   (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and,
(3) The written authorization is submitted to the Director.

c. CERTIFICATION
Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

12. AVAILABILITY OF REPORTS
Except for applications, effluent data permits, and other data specified in 40 CFR 122.7, any information submitted pursuant to this permit may be claimed as confidential by the submitter. If no claim is made at the time of submission, information may be made available to the public without further notice.

E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS

1. CRIMINAL
a. NEGLIGENT VIOLATIONS
The Act provides that any person who negligently violates permit conditions implementing Section 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b. KNOWING VIOLATIONS
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both.

c. KNOWING ENDANGERMENT
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both.

d. FALSE STATEMENTS
The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act)

2. CIVIL PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $27,500 per day for each violation.

3. ADMINISTRATIVE PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:

a. CLASS I PENALTY
Not to exceed $11,000 per violation nor shall the maximum amount exceed $27,500.

b. CLASS II PENALTY
Not to exceed $11,000 per day for each day during which the violation continues nor shall the maximum amount exceed $137,500.

F. DEFINITIONS
All definitions contained in Section 502 of the Act shall apply to this permit and are incorporated herein by reference. Unless otherwise specified in this permit, additional definitions of words or phrases used in this permit are as follows:


2. **ADMINISTRATOR** means the Administrator of the U.S. Environmental Protection Agency.

3. **APPLICABLE EFFLUENT STANDARDS AND LIMITATIONS** means all state and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards or performance, toxic effluent standards and prohibitions, and pretreatment standards.

4. **APPLICABLE WATER QUALITY STANDARDS** means all water quality standards to which a discharge is subject under the Act.

5. **BYPASS** means the intentional diversion of waste streams from any portion of a treatment facility.

6. **DAILY DISCHARGE** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day. "Daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that sampling day.

7. **DAILY MAXIMUM** discharge limitation means the highest allowable "daily discharge" during the calendar month.

8. **DIRECTOR** means the U.S. Environmental Protection Agency Regional Administrator or an authorized representative.

9. **ENVIRONMENTAL PROTECTION AGENCY** means the U.S. Environmental Protection Agency.

10. **GRAB SAMPLE** means an individual sample collected in less than 15 minutes.

11. **INDUSTRIAL USER** means a non-domestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.

12. **MONTHLY AVERAGE** (also known as **DAILY AVERAGE**) discharge limitations means the highest allowable average of "daily discharge(s)" over a calendar month, calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes daily average concentration effluent limitations or conditions, the daily average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar month where C = daily concentration, F = daily flow, and n = number of daily samples; daily average discharge =

\[
\frac{C_1F_1 + C_2F_2 + \ldots + C_nF_n}{F_1 + F_2 + \ldots + F_n}
\]

13. **NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM** means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Act.

14. **SEVERE PROPERTY DAMAGE** means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

15. **SEWAGE SLUDGE** means the solids, residues, and precipitates separated from or created in sewage by the unit processes of a publicly owned treatment works. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff that are discharges to or otherwise enter a publicly owned treatment works.

16. **TREATMENT WORKS** means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof.
17. **UPSET** means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

18. **FOR FECAL COLIFORM BACTERIA**, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.

19. The term "**MGD**" shall mean million gallons per day.

20. The term "**mg/L**" shall mean milligrams per liter or parts per million (ppm).

21. The term "**µg/L**" shall mean micrograms per liter or parts per billion (ppb).

22. **MUNICIPAL TERMS**

   a. **7-DAY AVERAGE** or **WEEKLY AVERAGE**, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. The 7-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

   b. **30-DAY AVERAGE** or **MONTHLY AVERAGE**, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. The 30-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

   c. **24-HOUR COMPOSITE SAMPLE** consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.

   d. **12-HOUR COMPOSITE SAMPLE** consists of 12 effluent portions collected no closer together than one hour and composited according to flow. The daily sampling intervals shall include the highest flow periods.

   e. **6-HOUR COMPOSITE SAMPLE** consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.

   f. **3-HOUR COMPOSITE SAMPLE** consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.
SEWAGE SLUDGE REQUIREMENTS

INSTRUCTIONS TO PERMITTEES

Select only those Elements and Sections which apply to your sludge reuse or disposal practice.

The sludge conditions do not apply to wastewater treatment lagoons where sludge is not wasted for final reuse/disposal. If the sludge is not removed, the permittee shall indicate on the DMR "No Discharge".

Although reporting is not required at this time, this permit may be modified or revoked and reissued to require an annual DMR.

ELEMENT 1 - LAND APPLICATION

SECTION I: Page 2 - Requirements Applying to All Sewage Sludge Land Application

SECTION II: Page 6 - Requirements Specific to Bulk Sewage Sludge for Application to the Land Meeting Class A or B Pathogen Reduction and the Cumulative Loading Rates in Table 2, or Class B Pathogen Reduction and the Pollutant Concentrations in Table 3

SECTION III: Page 9 - Requirements Specific to Bulk Sewage Sludge Meeting Pollutant Concentrations in Table 3 and Class A Pathogen Reduction Requirements

SECTION IV: Page 10 - Requirements Specific to Sludge Sold or Given Away in a Bag or Other Container for Application to the Land that does not Meet the Pollutant Concentrations in Table 3

ELEMENT 2 - SURFACE DISPOSAL

SECTION I: Page 11 - Requirements Applying to All Sewage Sludge Surface Disposal

SECTION II: Page 15 - Requirements Specific to Surface Disposal Sites Without a Liner and Leachate Collection System

SECTION III: Page 17 - Requirements Specific to Surface Disposal Sites With a Liner and Leachate Collection System

ELEMENT 3 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I: Page 18 - Requirements Applying to All Municipal Solid Waste Landfill Disposal Activities
ELEMENT 1 - LAND APPLICATION

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the sludge.

2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act. If new limits for Molybdenum are promulgated prior to permit expiration, those limits shall become directly enforceable.

3. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management Division, Mail Code 6W-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(l)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR Part 122.62(a)(l).

B. Testing Requirements

1. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceed the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Element 1, Section 1.C.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Ceiling Concentration (milligrams per kilogram)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
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<tr>
<td>Cadmium</td>
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<td>PCBs</td>
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<tr>
<td>Selenium</td>
<td>100</td>
</tr>
<tr>
<td>Zinc</td>
<td>7500</td>
</tr>
</tbody>
</table>

* Dry weight basis

2. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by either the Class A or Class B pathogen requirements. Sewage sludge that is applied to a lawn or...
home garden shall be treated by the Class A pathogen requirements. Sewage sludge that is sold or given away in a bag shall be treated by Class A pathogen requirements.

a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge. Alternatives 5 and 6 are not authorized to demonstrate compliance with Class A sewage sludge in Texas permits.

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at a specific value for a period of time. See 503.32(a)(3)(ii) for specific information.

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 and shall remain above 12 for 72 hours.

The temperature of the sewage sludge shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12.

At the end of the 72 hour period during which the pH of the sewage sludge is above 12, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50 percent.

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(ii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(iii) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sludge is prepared for sale or give away in a bag or other container for application to the land.

The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sewage sludge is prepared for sale or give away in a bag or other container for application to the land.

Alternative 5 - Sewage sludge shall be treated by one of the Processes to Further Reduce Pathogens (PFRP) described in 503 Appendix B. PFRPs include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 - Sewage sludge shall be treated by a process that is equivalent to a Process to Further Reduce Pathogens, if individually approved by the Pathogen Equivalency Committee representing the EPA.

b. Three alternatives are available to demonstrate compliance with Class B sewage sludge. Alternatives 2 and 3 are not authorized to demonstrate compliance with Class B sewage sludge in Texas permits.

Alternative 1 - (i) Seven random samples of the sewage sludge shall be collected for one monitoring episode at the time the sewage sludge is used or disposed.

(ii) The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).
Alternative 2 - Sewage sludge shall be treated in one of the Processes to significantly Reduce Pathogens described in 503 Appendix B.

Alternative 3 - Sewage sludge shall be treated in a process that is equivalent to a PSRP, if individually approved by the Pathogen Equivalency Committee representing the EPA.

In addition, the following site restrictions must be met if Class B sludge is land applied:

i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.

v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of sewage sludge.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

3. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following alternatives 1 through 10 for Vector Attraction Reduction. If bulk sewage sludge is applied to a home garden, or bagged sewage sludge is applied to the land, only alternative 1 through alternative 8 shall be used.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17 percent to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with a percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15 percent to demonstrate compliance.
The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius.

The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then at 11.5 or higher for an additional 22 hours.

The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75 percent based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90 percent based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

(i) Sewage sludge shall be injected below the surface of the land.
(ii) No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
(iii) When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

(i) Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
(ii) When sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

All other pollutants shall be monitored at the frequency shown below:

<table>
<thead>
<tr>
<th>Amount of sewage sludge* (metric tons per 365 day period)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ≤ Sludge &lt; 290</td>
<td>Once/Year</td>
</tr>
<tr>
<td>290 ≤ Sludge &lt; 1,500</td>
<td>Once/Quarter</td>
</tr>
<tr>
<td>1,500 ≤ Sludge &lt; 15,000</td>
<td>Once/Two Months</td>
</tr>
<tr>
<td>15,000 ≤ Sludge</td>
<td>Once/Month</td>
</tr>
</tbody>
</table>
Either the amount of bulk sewage sludge applied to the land or the amount of sewage sludge received by a person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land (dry weight basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b).

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below those listed in Table 3 found in Element I, Section III, the following conditions apply:

1. Pollutant Limits

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Cumulative Pollutant Loading Rate (kilograms per hectare)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>41</td>
</tr>
<tr>
<td>Cadmium</td>
<td>39</td>
</tr>
<tr>
<td>Chromium</td>
<td>3000</td>
</tr>
<tr>
<td>Copper</td>
<td>1500</td>
</tr>
<tr>
<td>Lead</td>
<td>300</td>
</tr>
<tr>
<td>Mercury</td>
<td>17</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Monitor</td>
</tr>
<tr>
<td>Nickel</td>
<td>420</td>
</tr>
<tr>
<td>Selenium</td>
<td>100</td>
</tr>
<tr>
<td>Zinc</td>
<td>2800</td>
</tr>
</tbody>
</table>

2. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by either Class A or Class B pathogen reduction requirements as defined above in Element I, Section I.B.3.

3. Management Practices

a. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters of the U.S., as defined in 40 CFR 122.2, except as provided in a permit issued pursuant to section 404 of the CWA.

b. Bulk sewage sludge shall not be applied within 10 meters of a water of the U.S.

c. Bulk sewage sludge shall be applied at or below the agronomic rate in accordance with recommendations from the following references:


iii. Recommendations of local extension services or Soil Conservation Services.

iv. Recommendations of a major University's Agronomic Department.

d. An information sheet shall be provided to the person who receives bulk sewage sludge sold or given away. The information sheet shall contain the following information:

i. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.

ii. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.

iii. The annual whole sludge application rate for the sewage sludge that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Element I, Section III below are met.

4. Notification requirements

a. If bulk sewage sludge is applied to land in a State other than the State in which the sludge is prepared, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk sewage sludge is proposed to be applied. The notice shall include:

i. The location, by either street address or latitude and longitude, of each land application site.

ii. The approximate time period bulk sewage sludge will be applied to the site.

iii. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who prepares the bulk sewage sludge.

iv. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk sewage sludge.

b. The permittee shall give 60 days prior notice to the Director of any change planned in the sewage sludge practice. Any change shall include any planned physical alterations or additions to the permitted treatment works, changes in the permittee's sludge use or disposal practice, and also alterations, additions, or deletions of disposal sites. These changes may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional disposal sites not reported during the permit application process or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR 122.62(a)(1).

c. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely effect a National Historic Site, cease use of such area.

5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records.

The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found in 40 CFR 503.17 for persons who land apply.
a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 found in Element I, Section III and the applicable pollutant concentration criteria (mg/Kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (kg/ha) listed in Table 2 above.

b. A description of how the pathogen reduction requirements are met (including site restrictions for Class B sludges, if applicable).

c. A description of how the vector attraction reduction requirements are met.

d. A description of how the management practices listed above in Section II.3 are being met.

e. The recommended agronomic loading rate from the references listed in Section II.3.c. above, as well as the actual agronomic loading rate shall be retained.

f. A description of how the site restrictions in 40 CFR Part 503.32(b)(5) are met for each site on which Class B bulk sewage sludge is applied.

g. The following certification statement:

"I certify, under penalty of law, that the management practices in §503.14 have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

h. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 40 CFR 503.17(a)(4)(i)(B) or 40 CFR Part 503.17(a)(5)(i)(B) as applicable to the permittee's sludge treatment activities.

i. The permittee shall maintain information that describes future geographical areas where sludge may be land applied.

j. The permittee shall maintain information identifying site selection criteria regarding land application sites not identified at the time of permit application submission.

k. The permittee shall maintain information regarding how future land application sites will be managed.

The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found in 40 CFR 503.17 for persons who land apply.

a. The location, by either street address or latitude and longitude, of each site on which sludge is applied.

b. The number of hectares in each site on which bulk sludge is applied.

c. The date and time sludge is applied to each site.

d. The cumulative amount of each pollutant in kilograms/hectare listed in Table 2 applied to each site.

e. The total amount of sludge applied to each site in metric tons.

f. The following certification statement:

"I certify, under penalty of law, that the requirements to obtain information in §503.12(e)(2) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain
information have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.*

8. A description of how the requirements to obtain information in §503.12(e)(2) are met.

6. Reporting Requirements - None.

SECTION III. REQUIREMENTS SPECIFIC TO BULK OR BAGGED SEWAGE SLUDGE MEETING POLLUTANT CONCENTRATIONS IN TABLE 3 AND CLASS A PATHOGEN REDUCTION REQUIREMENTS

For those permittees with sludge that contains concentrations of pollutants below those pollutant limits listed in Table 3 for bulk or bagged (containerized) sewage sludge and also meet the Class A pathogen reduction requirements, the following conditions apply (Note: All bagged sewage sludge must be treated by Class A pathogen reduction requirements.):

1. Pollutant limits - The concentration of the pollutants in the municipal sewage sludge is at or below the values listed.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Monthly Average Concentration (milligrams per kilogram)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>41</td>
</tr>
<tr>
<td>Cadmium</td>
<td>39</td>
</tr>
<tr>
<td>Chromium</td>
<td>1200</td>
</tr>
<tr>
<td>Copper</td>
<td>1500</td>
</tr>
<tr>
<td>Lead</td>
<td>300</td>
</tr>
<tr>
<td>Mercury</td>
<td>17</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Monitor</td>
</tr>
<tr>
<td>Nickel</td>
<td>420</td>
</tr>
<tr>
<td>Selenium</td>
<td>36</td>
</tr>
<tr>
<td>Zinc</td>
<td>2800</td>
</tr>
</tbody>
</table>

* Dry weight basis

2. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by the Class A pathogen reduction requirements as defined above in Element I, Section I.B.3. All bagged sewage sludge must be treated by Class A pathogen reduction requirements.


4. Notification Requirements - None.

5. Recordkeeping Requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.

a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 and the applicable pollutant concentration criteria listed in Table 3.

b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 503.17(a)(1)(ii) or 503.17(a)(3)(ii)(B), whichever applies to the permittees sludge treatment activities.

c. A description of how the Class A pathogen reduction requirements are met.
d. A description of how the vector attraction reduction requirements are met.

6. Reporting Requirements - None.

SECTION IV. REQUIREMENTS SPECIFIC TO SLUDGE SOLD OR GIVEN AWAY IN A BAG OR OTHER CONTAINER FOR APPLICATION TO THE LAND THAT DOES NOT MEET THE MINIMUM POLLUTANT CONCENTRATIONS

1. Pollutant Limits

Table 4

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Annual Pollutant Loading Rate (kilograms per hectare per 365 day period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>2</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.9</td>
</tr>
<tr>
<td>Chromium</td>
<td>150</td>
</tr>
<tr>
<td>Copper</td>
<td>75</td>
</tr>
<tr>
<td>Lead</td>
<td>15</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.85</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Monitor</td>
</tr>
<tr>
<td>Nickel</td>
<td>21</td>
</tr>
<tr>
<td>Selenium</td>
<td>5</td>
</tr>
<tr>
<td>Zinc</td>
<td>140</td>
</tr>
</tbody>
</table>

2. Pathogen Control

All sewage sludge that is sold or given away in a bag or other container for application to the land shall be treated by the Class A pathogen requirements as defined above in Section I.B.3.a. above.

3. Management Practices

Either a label shall be affixed to the bag or other container in which sewage sludge that is sold or given away for application to the land, or an information sheet shall be provided to the person who receives sewage sludge sold or given away in an other container for application to the land. The label or information sheet shall contain the following information:

a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.

b. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.

c. The annual whole sludge application rate for the sewage sludge that will not cause any of the annual pollutant loading rates in Table 4 above to be exceeded.

4. Notification Requirements - None.

5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records.

The person who prepares sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years.

a. The concentration in the sludge of each pollutant listed above in found in Element I, Section I, Table 1.
b. The following certification statement found in §503.17(a)(6)(iii).

"I certify, under penalty of law, that the management practice in §503.14(e), the Class A pathogen requirement in §503.32(a), and the vector attraction reduction requirement in (insert vector attraction reduction option) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practice, pathogen requirements, and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

c. A description of how the Class A pathogen reduction requirements are met.

d. A description of how the vector attraction reduction requirements are met.

e. The annual whole sludge application rate for the sewage sludge that does not cause the annual pollutant loading rates in Table 4 to be exceeded. See Appendix A to Part 503 - Procedure to Determine the Annual Whole Sludge Application Rate for a Sewage Sludge.

6. Reporting Requirements - None.

ELEMENT 2- SURFACE DISPOSAL

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE SURFACE DISPOSAL

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present.

2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act.

3. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person (owner or operator of a sewage sludge unit) for disposal in a surface disposal site, the permit holder shall provide all necessary information to the parties who receive the sludge to assure compliance with these regulations.

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management Division, Mail Code 6W-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(J)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR Part 122.62(a)(1).

5. The permittee or owner/operator shall submit a written closure and post closure plan to the permitting authority 180 days prior to the closure date. The plan shall include the following information:

(a) A discussion of how the leachate collection system will be operated and maintained for three years after the surface disposal site closes if it has a liner and leachate collection system.

(b) A description of the system used to monitor continuously for methane gas in the air in any structures within the surface disposal site. The methane gas concentration shall not exceed 25% of the lower explosive limit for methane gas for three years after the sewage sludge unit closes. A description of the system used to monitor for methane gas in the air at the property line of the site shall
be included. The methane gas concentration at the surface disposal site property line shall not exceed the lower explosive limit for methane gas for three years after the sewage sludge unit closes.

(c) A discussion of how public access to the surface disposal site will be restricted for three years after it closes.

B. Management Practices

1. An active sewage sludge unit located within 60 meters of a fault that has displacement in Holocene time shall close by March 22, 1994.


3. An active sewage sludge unit located in a wetland shall close by March 22, 1994.

4. Surface disposal shall not restrict the flow of the base 100-year flood.

5. The run-off collection system for an active sewage sludge unit shall have the capacity to handle run-off from a 25-year, 24-hour storm event.

6. A food crop, feed crop, or a fiber crop shall not be grown on a surface disposal site.

7. Animals shall not be grazed on a surface disposal site.

8. Public access shall be restricted on the active surface disposal site and for three years after the site closes.

9. Placement of sewage sludge shall not contaminate an aquifer. This shall be demonstrated through one of the following:
   
   (a) Results of a ground-water monitoring program developed by a qualified ground-water scientist.

   (b) A certification by a qualified ground-water scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.

10. When a cover is placed on an active surface disposal site, the concentration of methane gas in air in any structure within the surface disposal site shall not exceed 25 percent of the lower explosive limit for methane gas during the period that the sewage sludge unit is active. The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the lower explosive limit for methane gas during the period that the sewage sludge unit is active. Monitoring shall be continuous.

C. Testing Requirements

1. Sewage sludge shall be tested at the frequency show below in Element 2, Section I.D. for PCBs. Any sludge exceeding a concentration of 50 mg/Kg shall not be surface disposed.

2. Pathogen Control

All sewage sludge that is disposed of in a surface disposal site shall be treated by either the Class A or Class B pathogen requirements unless sewage sludge is placed on an active surface disposal site, and is covered with soil or other material at the end of each operating day.

(a) Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 alternatives require either the density of fecal coliform in the sewage sludge be less than 1000 MPN per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge. Alternatives 5 and 6 are not authorized to demonstrate compliance with Class A sewage sludge in Texas permits.
Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at a specific value for a period of time. See 503.32(a)(3)(ii) for specific information.

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 and shall remain above 12 for 72 hours.

The temperature of the sewage sludge shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12.

At the end of the 72 hour period during which the pH of the sewage sludge is above 12, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50 percent.

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(ii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(iii) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sludge is prepared for sale or giveaway in a bag or other container for application to the land. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sewage sludge is prepared for sale or giveaway in a bag or other container for application to the land.

Alternative 5 - Sewage sludge shall be treated by one of the Processes to Further Reduce Pathogens (PFRP) described in 503 Appendix B. 
PFRPs include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 - Sewage sludge shall be treated by a process that is equivalent to a Process to Further Reduce Pathogens, if individually approved by the Pathogen Equivalency Committee representing the EPA.

(b) Four alternatives are available to demonstrate compliance with Class B sewage sludge. Alternatives 2, 3, and 4 are not authorized to demonstrate compliance with Class B sewage sludge in Texas permits.

Alternative 1 - (i) Seven random samples of the sewage sludge shall be collected for one monitoring episode at the time the sewage sludge is used or disposed.

(ii) The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 Most Probable Number per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge shall be treated in one of the Processes to significantly Reduce Pathogens described in 503 Appendix B.

Alternative 3 - Sewage sludge shall be treated in a process that is equivalent to a PSRP, if individually approved by the Pathogen Equivalency Committee representing the EPA.

Alternative 4 - Sewage sludge placed on an active surface disposal site is covered with soil or other material at the end of each operating day.
3. Vector Attraction Reduction Requirements

All sewage sludge that is disposed of in a surface disposal site shall be treated by one of the following alternatives 1 through 11 for Vector Attraction Reduction.

**Alternative 1** - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent.

**Alternative 2** - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17 percent to demonstrate compliance.

**Alternative 3** - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with a percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15 percent to demonstrate compliance.

**Alternative 4** - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

**Alternative 5** - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius.

**Alternative 6** - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then at 11.5 or higher for an additional 22 hours.

**Alternative 7** - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75 percent based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or an anaerobic treatment process.

**Alternative 8** - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90 percent based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or an anaerobic treatment process.

**Alternative 9** - (i) Sewage sludge shall be injected below the surface of the land.

(ii) No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.

(iii) When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

**Alternative 10** - (i) Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
(ii) When sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

Alternative 11 - Sewage sludge placed on an active sewage sludge unit shall be covered with soil or other material at the end of each operating day.

4. Methane Gas Control Within a Structure On Site

When cover is placed on an active surface disposal site, the methane gas concentration in the air in any structure shall not exceed 25% of the lower explosive limit (LEL) for methane gas during the period that the disposal site is active.

5. Methane Gas Control at Property Line

The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the LEL for methane gas during the period that the disposal site is active.

D. Monitoring Requirements

Methane Gas in covered structures on site - Continuous

Methane Gas at property line - Continuous

All other pollutants shall be monitored at the frequency shown below:

<table>
<thead>
<tr>
<th>Amount of sewage sludge* (metric tons per 365 day period)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ≤ Sludge &lt; 290</td>
<td>Once/Year</td>
</tr>
<tr>
<td>290 ≤ Sludge &lt; 1,500</td>
<td>Once/Quarter</td>
</tr>
<tr>
<td>1,500 ≤ Sludge &lt; 15,000</td>
<td>Once/Two Months</td>
</tr>
<tr>
<td>15,000 ≤ Sludge</td>
<td>Once/Month</td>
</tr>
</tbody>
</table>

* Amount of sewage sludge placed on an active sewage sludge unit (dry weight basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b).

SECTION II. REQUIREMENTS SPECIFIC TO SURFACE DISPOSAL SITES WITHOUT A LINER AND LEACHATE COLLECTION SYSTEM.

1. Pollutant limits - Sewage sludge shall not be applied to a surface disposal site if the concentration of the listed pollutants exceed the corresponding values based on the surface disposal site boundary to the property line distance:
TABLE 5

<table>
<thead>
<tr>
<th>Unit boundary to property line distance (meters)</th>
<th>Arsenic (mg/kg)</th>
<th>Chromium (mg/kg)</th>
<th>Nickel (mg/kg)</th>
<th>PCB's (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to less than 25</td>
<td>30</td>
<td>200</td>
<td>210</td>
<td>49</td>
</tr>
<tr>
<td>25 to less than 50</td>
<td>34</td>
<td>220</td>
<td>240</td>
<td>49</td>
</tr>
<tr>
<td>50 to less than 75</td>
<td>39</td>
<td>260</td>
<td>270</td>
<td>49</td>
</tr>
<tr>
<td>75 to less than 100</td>
<td>46</td>
<td>300</td>
<td>320</td>
<td>49</td>
</tr>
<tr>
<td>100 to less than 125</td>
<td>53</td>
<td>360</td>
<td>390</td>
<td>49</td>
</tr>
<tr>
<td>125 to less than 150</td>
<td>62</td>
<td>450</td>
<td>420</td>
<td>49</td>
</tr>
<tr>
<td>≥ 150</td>
<td>73</td>
<td>600</td>
<td>420</td>
<td>49</td>
</tr>
</tbody>
</table>

* Dry weight basis


3. Notification requirements

   a. The permittee shall assure that the owner of the surface disposal site provide written notification to the subsequent site owners that sewage sludge was placed on the land.

   b. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

      The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

4. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.

   a. The distance of the surface disposal site from the property line and the concentration (mg/Kg) in the sludge of each pollutant listed above in Table 5, as well as the applicable pollutant concentration criteria listed in Table 5.

   b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 503.27(a)(1)(ii) or 503.27(a)(2)(ii) as applicable to the permittees sludge disposal activities.

   c. A description of how either the Class A or Class B pathogen reduction requirements are met, or whether sewage sludge placed on a surface disposal site is covered with soil or other material at the end of each operating day.

   d. A description of how the vector attraction reduction requirements are met.

   e. Results of a groundwater monitoring program developed by a qualified ground-water scientist, or a certification by a qualified groundwater scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.
A qualified groundwater scientist is an individual with a baccalaureate or post graduate degree in the natural sciences or engineering who has sufficient training and experience in groundwater hydrology and related fields, as may be demonstrated by State registration, professional certification or completion of accredited university programs, to make sound professional judgements regarding groundwater monitoring, pollutant fate and transport, and corrective action.

5. Reporting Requirements - None.

SECTION III. REQUIREMENTS SPECIFIC TO SURFACE DISPOSAL SITES WITH A LINER AND LEACHATE COLLECTION SYSTEM.

1. Pollutant limits - None.


3. Notification requirements
   a. The permittee shall assure that the owner of the surface disposal site provide written notification to the subsequent owner of the site that sewage sludge was placed on the land.
   b. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

   The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

4. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.
   a. The following certification statement found in 503.27(a)(1)(ii).
      "I certify, under penalty of law, that the pathogen requirements (define option used) and the vector attraction reduction requirements in (define option used) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine the (pathogen requirements and vector attraction reduction requirements, if appropriate) have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.
   b. A description of how either the Class A or Class B pathogen reduction requirements are met or whether sewage sludge placed on a surface disposal site is covered with soil or other material at the end of each operating day.
   c. A description of how the vector attraction reduction requirements are met.
   d. Results of a ground-water monitoring program developed by a qualified ground-water scientist, or
      A certification by a qualified ground-water scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.

5. Reporting Requirements - None.
ELEMENT 3 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I. REQUIREMENTS APPLICABLE TO ALL SEWAGE SLUDGE DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 40 CFR 258 concerning the quality of the sludge disposed in a municipal solid waste landfill.

2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act.

3. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a MSWLF for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit:

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management Division, Mail Code 6W-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(i)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR Part 122.62(a)(1).

5. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

6. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.

   a. The description and results of the tests performed, required by the owner/operator of the MSWLF to demonstrate compliance with the 40 CFR 258 regulations.

   b. A certification that sewage sludge meets the requirements in 40 CFR 258 concerning the quality of the sludge disposed in a municipal solid waste landfill unit.

7. Reporting requirements - None.