

Permit Number: 1-91
Permit Type: SN

**Industrial and Commercial User
Waste Water Discharge Permit**

In accordance with the provisions of the City of Oak Ridge Sewer Use Ordinance, City Code Title 18, Chapter 3;

Y-12 National Security Complex
National Nuclear Security Administration
P.O. Box 2009
Oak Ridge, TN. 37831-8245

herein referred to as the User, being an industrial User, is hereby authorized to discharge waste water from a facility described as:

Y-12 National Security Complex
National Nuclear Security Administration
P.O. Box 2009
Oak Ridge, TN. 37831

in so far as such facility and wastewater have been described in the incorporated Industrial User Survey and Wastewater Discharge Permit Application; subject to the conditions of this permit, the Sewer Use Ordinance and State and Federal Pretreatment Laws, Rules and Regulations.

Noncompliance with any term or condition of this permit shall constitute a violation of the Sewer Use Ordinance, and subject the User to enforcement actions as described therein.

This permit shall become effective: April 1, 2010
and shall expire at midnight on March 31, 2015

by:



Steven R. Byrd, P.E.
Acting Director of Public Works
City of Oak Ridge

Issued this 31 st day of March, 2010

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Appendix A: Allowable Concentrations and Sampling Requirements

Appendix B: Requirements for Discharge of Radionuclides

Other Attachments: Map of Monitoring Station Location

1.0 Specific Permit Requirements

1.1 Discharge Points:

1.1.1 during the term of this permit, the user is authorized to discharge wastewater to the City of Oak Ridge sanitary sewer system, herein referred to as the POTW, from the outfalls listed below:

<u>Outfall</u>	<u>Type of Flow*</u>	<u>Description of Outfall</u>
01	Mixed	Monitoring Station off Scarboro Road

*Process, Sanitary, Mixed

1.1.2 Discharge from any outfall not listed above from the named facility is specifically prohibited.

1.2 Wastewater Constituents:

1.2.1 The wastewater discharged from the Outfalls as described above shall not exceed those listed in Appendices A and B which follow. For constituents not listed, wastewater concentrations shall not exceed the limits in section 2.2 of this document.

1.2.2 Discharges prohibited under section 2.1, Specific Prohibitions, are not allowed regardless of information listed in Appendix A.

1.2.3 All discharges shall comply with all other applicable laws, regulations, standards, and requirements contained in the Sewer Use Ordinance (SUO) and any applicable State and Federal pretreatment laws, regulations, standards, and requirements including any such laws, regulations, standards, and requirements that may become effective during the term of this permit.

1.2.4 Discharges from processes or sources not described or containing pollutants (in above trace amounts) not listed in the User's Industrial User Survey and Wastewater Discharge Permit Application are specifically prohibited at the named source.

1.3 Monitoring Requirements:

1.3.1 Constituents listed in appendices attached must be monitored at the frequency indicated.

1.3.2 All handling and preservation of collected samples and laboratory analysis of samples shall be performed in accordance with 40 CFR Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit.

1.3.3 Standard notation has been used to specify frequency of monitoring. Note, however, the following:

- a. Unless otherwise noted **Quarterly Samples** shall be analyzed once every three (3) months and shall consist of three (3) samples collected in a two (2) week period.

b. **Continuous Samples** (or **Meter**) shall be continuously monitored. Unless otherwise noted, where "**Meter**" is indicated, maximum, minimum and average values shall be submitted for each day. Where "**Meter-Chart**" is indicated, a machine produced chart, or copy thereof must be submitted for each day.

c. **Composite Samples** shall be flow proportional unless specifically noted otherwise.

d. **One-Time Samples** shall be conducted to verify the presence or absence of a pollutant from the waste stream. Should pollutants be verified as present which were thought absent, immediate notification of the POTW is required.

1.4 Reporting Requirements:

1.4.1 Monitoring results obtained shall be summarized and reported on an Industrial User Monitoring Form according to the following schedule:

Submit reports: Quarterly
The first report is due: April 20, 2010

Unless otherwise indicated reports are to be submitted by the 20th of the month following the close of the monitoring period.

1.4.2 The report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed during the preceding reporting period.

1.4.3 If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 of amendments thereto, or otherwise approved by the EPA or as specified in this permit, the results of such monitoring shall be included in any calculations of actual daily maximum or monthly average pollutant discharge and results shall be reported in the quarterly report submitted to the POTW. Such increase monitoring frequency shall also be reported in the report as outlined above.

1.4.4 A record of the average and maximum daily flow (either measured or estimated) must be included in the periodic report submitted to the POTW.

1.5 Automatic Re-Sampling:

If the results of the user's wastewater analysis indicated that a violation of this permit has occurred, the permittee must:

1. Inform the POTW of the violation within 24 hours; and,
2. Repeat the sampling and pollutant analysis within ten days of becoming aware of the first violation. Submit, in writing, the results of this second analysis within 30 days of the violation.

1.6 Construction Requirements:

The User is hereby instructed to construct improvements as described below:

xx No requirements this permit.

 The following is to be constructed by (date):

 Sampling Manhole*
 Pretreatment Program
 Other as described in attachment

Plans for construction of improvements should be submitted to the POTW for review and approval.

*Make existing manhole accessible for use

1.7 Communications:

All official communications regarding this permit, or in response to the requirements it imposes shall be sent to:

**Environmental/Regulatory Compliance Coordinator
Public Works Department
City of Oak Ridge
P.O. Box 1
Oak Ridge, TN 37831**

2.0 Standard Discharge Limitations

2.1 Prohibitions on Wastewater Discharge:

Regardless of permit status, no person shall discharge or cause to allow to be discharged into the POTW any waste which contains any of the following:

2.1.1 Oils and Grease

Fats, wax, grease or oils of more than one hundred (100) mg/l, whether emulsified or not or containing substances which may solidify or become viscous at temperatures between 32 degrees and 150 degrees F (0 degrees and 65 degrees C) at the point of discharge into the system.

2.1.2 Explosive Mixtures

Liquids, solids, or gases which by reason of their nature or quantity are, or may be sufficient to cause hazard of fire or explosion or be injurious in any other way to the sewerage facilities or to the operation of the system. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides and sulfides or any other substance which has a lower flashpoint limit of 140°F or less.

2.1.3 Noxious Materials:

Noxious or malodorous solids, liquids or gases, which either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.

2.1.4 Improperly Shredded Garbage

Garbage that has not been ground or comminuted to such a degree that all particles are 1/2 inch or less in greatest dimension and will be carried freely in suspension under flow conditions normally prevailing in the public sewers.

2.1.5 Radioactive Wastes

Radioactive wastes or isotopes of such half-life or concentration that they are in noncompliance with permits or regulations issued by the appropriate authority having control over their use and which will or may cause damage or hazards to the sewerage facilities or personnel operating the system.

2.1.6 Solid or Viscous Wastes

Solid or viscous wastes which will or may cause obstruction to the flow in a sewer, or other interference with the proper operation of the sewerage facilities.

2.1.7 Excessive Discharge Rate

Wastewaters at a flow rate which is excessive relative to the capacity of the treatment works or which could cause a treatment process upset and subsequent loss of treatment efficiency; or waste waters containing such concentrations or quantities of pollutants that their introduction into the treatment works over a relatively short time period (sometimes referred to as "slug" discharges) would cause a treatment process upset and subsequent loss of treatment efficiency.

2.1.8 Toxic Substances:

Any toxic substances, chemical elements or compounds, phenols or other taste or odor-producing substances, or any other substances in amounts which may interfere with the biological processes or efficiency of the treatment works, or that will pass through the treatment works in concentrations which would cause the POTW to exceed its NPDES permit limits.

2.1.9 Corrosive Wastes

Any waste which will cause corrosion or deterioration of the sewerage facilities. All wastes discharged to the public sewer system must have a pH value in the range of six (6) to nine (9).

2.1.10 Thermal Discharge

Heat in amounts which will inhibit biological activity in the POTW or cause damage to the sewerage system resulting in interference, but in no case heat in such quantities that the temperature at the point treatment plant exceeds 40 °C (104°F). Under no conditions may the temperature at the point of discharge exceed 120°F.

2.1.11 Human Hazard

Any wastewater which causes hazard to human life or creates a public nuisance.

2.2 Standard Limitations on Discharges

Unless specifically stated in the Appendices A or B incorporated into this permit, the limits set forth in the following table (1) apply to all discharges into the POTW.

Table 1

Default Discharge Values for Pollutants
Not Listed in Appendices A or B

(NOT APPLICABLE)

3.0 GENERAL CONDITIONS

3.1 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 circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

3.2 Duty to Comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief, and summary abatements.

3.3 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

3.4 Permit Modification

This permit may be modified for good causes including, but not limited to, the following:

- a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirement;
- b. Material or substantial alterations or additions to the discharger's operation processes, or discharge volume or character which were not considered in drafting the active permit;
- c. A change in any condition in either the industrial user or the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. Information indicating that the permitted discharge poses a threat to the Control Authority's collection and treatment systems, POTW personnel or the receiving water;

- e. Violation of any terms or conditions of the permit;
- f. Misrepresentation or failure to disclose fully all relevant facts in the permit application or in any required reporting;
- g. Revision of Federal categorical standards;
- h. To correct typographical or other errors in the permit;
- i. To reflect changes in facility operation or effluent; or,
- j. Upon request of the permittee, provided such request does not create a violation of any applicable requirements, standards, laws or rules and regulations.

The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or a notification of planned changes or anticipated noncompliance, does not invalidate, waive or stay any permit condition.

3.5 Permit Termination

This permit may be terminated for the following reasons:

- a. Falsifying self-monitoring reports;
- b. Tampering with monitoring equipment;
- c. Refusing to allow timely access to the facility premises and records;
- d. Failure to meet effluent limitations;
- e. Failure to pay fines;
- f. Failure to pay sewer charges; or
- g. Failure to meet compliance schedules.

3.6 Permit Appeals

The permittee may petition to appeal the terms of this permit within thirty (30) days of the notice. This petition must be in writing; failure to submit a petition for review shall be deemed a waiver of the appeal. In its petition, the permittee must indicate the permit provisions objected to, the reasons for this objection, and the alternative condition, if any, it seeks to be placed in the permit.

3.7 Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any violation of Federal, State, or local laws or regulations.

3.8 Limitation on Permit Transfer

Permits may not be reassigned or transferred to a new owner and/or operator. New permits may, however, be issued based on previous data submitted for existing operations and facilities. Should a new owner of this facility operate without notifying the POTW, the facility and new owner are bound by the terms of this permit until a new permit is issued. Notwithstanding this, the facility is considered operating in violation until such notification is made.

3.9 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 submit an application for a new permit at least 75 days before the expiration date of this permit.

3.10 Continuation of Expired Permits

An expired permit will continue to be effective and enforceable for up to five years if:

- a. The permittee has submitted a complete permit application at least seventy five (75) days prior to the expiration date of the user's existing permit; and,
- b. The failure to reissue the permit, prior to expiration of the previous permit, is not due to any act or failure to act on the part of the permittee.

3.11 Dilution

The permittee shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

3.12 Definitions

Definitions shall be as defined in the SUO and its' referenced documents.

3.13 Compliance with Applicable Pretreatment Requirements

Compliance with this permit does not relieve the permittee from its obligations regarding compliance with any and all applicable local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.

4.0 OPERATIONS AND MAINTENANCE OF POLLUTION CONTROLS

4.1 Proper Operation and Maintenance

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 the permittee to achieve compliance with the conditions of this permit. Proper operations and maintenance includes but is not limited to: effective performance,

adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

4.2 Duty to Halt or Reduce Activity

Upon reduction of efficiency of operations, or loss or failure of all or part of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control its productions or discharges (or both) until operation of the treatment facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced. 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.

4.3 Bypass of Treatment Facilities

4.3.1 Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury, or severe property damage or no feasible alternatives exist.

4.3.2 The permittee may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation.

4.3.3 Notification of Bypass:

A. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the Control Authority.

B. Unanticipated bypass. The permittee shall immediately notify the Control Authority and submit a written notice to the POTW within five days. This report shall specify:

- i. A description of the bypass, and its cause, including its duration;
- ii. Whether the bypass has been corrected; and
- iii. The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

4.4 Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in accordance with State and Federal Law, particularly section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

5.0 MONITORING AND RECORDS

5.1 Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. All equipment used for sampling and analysis must be routinely calibrated, inspected and maintained to ensure their accuracy. Monitoring points shall not be changed without notification to and the approval of the POTW.

5.2 Flow Measurements

If flow measurement is required by this permit, the appropriated flow measurement devices and methods consistent with approved 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 ensure that the accuracy of the measurements are 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 percent from true discharge rates throughout the range of expected discharge volumes.

5.3 Inspection and Entry

The permittee shall allow the Control Authority, or an authorized representative, upon the presentation of credentials and required clearances or passes 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 any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location; and
- e. Inspect any production, manufacturing, fabricating, or storage area where pollutants, regulated under the permit, could originate, be stored, or be discharged to the sewer system.

5.4 Retention of Records

- 5.4.1 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 three years from the date of the sample, measurement, report or application. This period may be extended at any

time by request of the Control Authority, the USEPA, or the Tennessee Department of Environment and Conservation.

5.4.2 The period of retention shall be extended beyond the normal three years during the course of any unresolved litigation or special orders regarding the Industrial User or the Control Authority. Records shall be retained until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

5.5 Record Contents

Records of sampling and analyses shall include:

- a. The date, exact place, time, and methods of sampling or measurements, and sample preservation techniques or procedures;
- b. Who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. Who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

5.6 Falsifying Information

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, is a crime and may result in the imposition of criminal sanctions and/or civil penalties.

6.0 NOTIFICATIONS TO THE POTW

6.1 Notice of Potential Problems

All categorical and non-categorical Industrial Users shall notify the POTW immediately of all discharges that could cause problems to the POTW, including any slug loadings as defined in 40 CFR 403.5(b).

6.2 Notification of Changed Discharges

All Industrial Users shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge including the listed or characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p).

6.3 Notification of Hazardous Waste Discharge

The Industrial User shall notify the POTW, the EPA Regional Waste Management Division and State hazardous waste authority in writing of any discharge into the POTW of a substance, which if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste, the EPA hazardous waste

number, and the type of discharge (continuous, batch, or other). For further details of this notification requirement, see 40 CFR 403.12(p).

6.4 Upset Reporting Provision

The Industrial User shall submit the following information to the POTW and Control Authority within 24 hours of becoming aware of the Upset (if this information is provided orally, a written submission must be provided within five days):

6.4.1 A description of the Indirect Discharge and cause of noncompliance;

6.4.2 The period of noncompliance, including the exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue;

6.4.3 Steps being taken and/or planned to reduce, eliminate and prevent recurrence of the noncompliance.

7.0 PENALTIES FOR NONCOMPLIANCE

7.1 Noncompliance with the pretreatment standards and requirement of this permit or the Sewer Use Ordinance of Oak Ridge, Tennessee, may cause the Permittee to be subjected to applicable civil penalties, not to exceed \$10,000 per violation.

7.2 In cases where criminal action is thought appropriate by the Control Authority, information will be gathered and turned over to the District Attorney for the appropriate county for this action.

7.3 Each day on which the noncompliance occurs can be deemed a separate and distinct violation.

Appendix A

Allowable Concentrations (mg/l) and Sampling Requirements for Specific Pollutants, this Outfall:

Outfall Number: 01
 Maximum Daily Flow Allowed: 1.4 MGD

 Check if Only Domestic Sewage Is Permitted, This Outfall.

<u>Parameter</u>	<u>L/C *1</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Total Oil & Grease	L	50	25	Monthly	Grab
TKN	L	90	45	Monthly	Composite
BOD	L	300	200	Monthly	Composite
TSS	L	300	200	Monthly	Composite
Arsenic	L	0.025	0.010	Monthly	Composite
Cadmium	L	0.005	0.0033	Monthly	Composite
Chromium	L	0.075	0.05	Monthly	Composite
Copper	L	0.21	0.14	Monthly	Composite
Iron	L	30.0	10.0	Monthly	Composite
Lead	L	0.074	0.049	Monthly	Composite
Nickel	L	0.032	0.021	Monthly	Composite
Silver	L	0.10	0.05	Monthly	Composite
Mercury	L	0.035	0.023	Monthly	Composite
Zinc	L	0.75	0.35	Monthly	Composite
Cyanide	L	0.062	0.041	Monthly	Grab
Phenols	L	0.30	0.15	Monthly	Grab
pH	L	within a range of 6-9			Grab

The following pollutants will be monitored quarterly and the levels reported in the Industrial Self Analysis Report.

Parameter	Required Detection Limit	Sample Type
Molybdenum (Mo)	0.05	Composite
Selenium (Se)	0.01	Composite
Toluene	0.005	Grab
Benzene	0.005	Grab
111 Trichloroethane	0.005	Grab
Ethylbenzene	0.005	Grab
Carbon Tetrachloride	0.005	Grab
Chloroform	0.005	Grab
Tetrachloroethylene	0.005	Grab
Trichloroethylene	0.005	Grab
1,2 trans	0.005	Grab
Dichloroethylene		
Methylene Chloride	0.005	Grab

L/C refers to Local or Categorical limit
 Sampling Location for this Outfall: see attached map

Appendix B

Waste Acceptance Criteria for Discharge of Radionuclides to the Sanitary Sewer

NNSA will monitor the discharge to ensure compliance with DOE Order 5400.5, *Radiation Protection of Public Health and the Environment*. NNSA will submit radiological monitoring data as part of the quarterly monitoring reports required by this permit. Compliance with DOE Order 5400.5 will ensure that sludges derived from NNSA waste meet waste acceptance criteria for land application:

At a minimum monitoring should include:

1. A weekly 24 hour composite sample analyzed for gross alpha and gross beta (the day of the week on which sample was performed should vary).
 - a. If gross alpha > 15 pCi/L or gross beta > 25 pCi/L, the sample must be analyzed for total uranium.
 - b. If gross alpha ≤ 15 pCi/L and gross beta ≤ 25 pCi/L, no further analysis is required. However, a portion of the sample must be retained for quarterly compositing.
2. Quarterly analysis of composites of weekly samples for total uranium and % enrichment.
3. Determination of the suspended and dissolved uranium fractions for a least one sample each quarter.

At a minimum reporting should include:

1. The time and date of sample collection (beginning and ending).
2. The sample volume.
3. The gross alpha and gross beta concentrations and associated counting errors in units pCi/L.
4. The uranium concentration for quarterly samples (or weekly samples when gross alpha > 15 pCi/L or gross beta > 25 pCi/L) in units mg/l or g/l.
5. The detection limits and QA/QC.
 - a. Detection limits for radionuclide analyses should be on file with the ORWWTP.
 - b. When analyses are performed in house, interlaboratory comparison data should be provided to the ORWWTP on at least an annual basis. When duplicate analyses or spikes are analyzed as part of characterizing wastewater, the date should be included with the quarterly monitoring report.