



STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DOMESTIC WASTEWATER DISPOSAL FINAL PERMIT

Permit: 2014DB0004

Effective Date: April 1, 2015
Expires at Midnight: March 31, 2020

Issued to: North Slope Borough

Facility Name: Anaktuvuk Pass Wastewater Treatment Facility

Location of Discharge: Anaktuvuk Pass

Latitude: 69.7264° North **Longitude:** 159.9728° West

Surface Discharged to: Subsurface discharge through a leachfield

Maximum Flow: 20,000 gallons per day

Treatment System Description: Activated sludge secondary wastewater treatment plant with chlorine disinfection. The wastewater treatment system includes two parallel treatment trains with flow equalization tanks, aeration basins, anoxic zone tanks, chlorine contact basins and digesters as well as a sludge dewatering and gravity bagging system. Treated effluent is discharged to a leachfield while dewatered sludge is disposed at the landfill.

This permit is subject to the conditions and stipulations incorporated herein. This State of Alaska, Department of Environmental Conservation Wastewater Discharge Permit is issued in accordance with Alaska Statutes (AS) 46.03 and 18 Alaska Administrative Code 15. It may be terminated or modified in accordance with AS 46.03.120.

The permittee shall apply for a permit reissuance on or before March 1, 2020, 30 days before the expiration of this permit if the permittee intends to continue operations and discharge at the facility beyond the term of this permit.

The permittee shall post or maintain a copy of this permit to discharge at the facility and make it available to the public, employees, and subcontractors at the facility.

Wade Strickland

Signature

March 23, 2015

Date

Wade Strickland

Printed Name

Program Manager

Title

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APPENDICES

Appendix A: Definitions

SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities the permittee must complete and/or submit to the Alaska Department of Environmental Conservation (the Department or DEC) during the term of this permit. The permittee is responsible for all submissions and activities even if they are not summarized below.

Table 1: Schedule of Submissions

| Location of Requirement | Submittal or Completion | Frequency | Due Date | Submit to * |
|--------------------------------|--|------------------|---|--|
| Permit Section 1.4 | Discharge Monitoring Report (DMR) | Monthly | Must be postmarked or submitted electronically through the eDMR system, on or before the 15 th day of the following month. | Compliance Program |
| Permit Section 1.2 | New Monitoring Well Construction | As required | Written approval must be submitted within two weeks of completing construction of any new monitoring wells. | Wastewater Discharge Authorization Program and Engineering Support and Plan Review Program |
| Permit Section 1.3 | Quality Assurance Project Plan | 1/permit cycle | The plan must be completed and implemented within 180 days after the effective date of the final permit. Provide DEC written notice upon completion and implementation. | Compliance Program |
| Permit Section 2.1 | Operations and Maintenance Plan | 1/permit cycle | The plan must be completed within 180 days after the effective date of the final permit. Provide DEC written notice upon completion. | Compliance Program |
| Permit Section 3.14 | Application for Permit Reissuance or Amendment | 1/permit cycle | 30 days before expiration of the final permit or planned effective date of the amendment | Wastewater Discharge Authorization Program |
| Permit Section 3.7 | Oral notification of noncompliance | As required | Within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance | Compliance Program |

| Location of Requirement | Submittal or Completion | Frequency | Due Date | Submit to * |
|-------------------------|--|-------------|--|--------------------|
| Permit Section 3.7 | Written documentation of noncompliance | As required | Within seven days after the permittee becomes aware of the circumstances | Compliance Program |

| * Submittal Address |
|--|
| <p>Alaska Department of Environmental Conservation Wastewater Discharge Authorization Program 555 Cordova Street Anchorage, AK 99501 Telephone: 907-269-7500 Fax Number: 907-269-3487 Email: wq_permit@dec.state.ak.us</p> |
| <p>Alaska Department of Environmental Conservation Compliance and Enforcement Program 555 Cordova Street Anchorage, AK 99501 Toll Free Nationwide: 1-877-569-4144 Anchorage or International: 1-907-269-4114 Fax Number: 907-269-4604 Email: dec-wqreporting@alaska.gov</p> |
| <p>Alaska Department of Environmental Conservation Engineering Support and Plan Review Program 555 Cordova Street Anchorage, AK 99501 Telephone: 907-269-7692 Email: gene.mccabe@alaska.gov</p> |

1 SPECIFIC PERMIT CONDITIONS

1.1 EFFLUENT LIMITS AND MONITORING

- 1.1.1 The discharge must not contain additives, such as antifreeze solutions, methanol, solvents, corrosion inhibitors, garbage, toxic substances, grease or oils which produce a sheen, any more than trace amounts of foam, or other contaminants.
- 1.1.2 Samples and measurements taken as required must be representative of the volume and nature of the monitored discharge.
- 1.1.3 The permittee must use methods that achieve a method detection limit less than the effluent limit.
- 1.1.4 The permittee must monitor the effluent prior to discharge to the leachfield in the following manner during discharge:

Table 2: Effluent Limits and Monitoring Requirements

| Effluent Characteristic | Monthly Average | Maximum Value | Units | Frequency of Analysis | Sample Type |
|--|-----------------|----------------------|-----------------------------|-----------------------|-----------------------|
| Flow | report | 20,000 | gallons per day (gpd) | daily (5/week) | estimate or measure * |
| pH | report | not applicable (N/A) | standard units (s.u.) | weekly (1/week) | grab |
| Chloride | report | report | milligrams per liter (mg/L) | semiannual (2/year) | grab |
| Nitrate as Nitrogen | report | report | mg/L | semiannual (2/year) | grab |
| Fecal Coliform (FC) Bacteria | 200 | 800 | FC/100 milliliters | monthly (1/month) | grab |
| *Flow may be based on wastewater treatment system influent or effluent measurements. | | | | | |

1.2 GROUNDWATER LIMITS AND MONITORING

- 1.2.1 The discharge regulated under this permit may ultimately mix with groundwater. Alaska Water Quality Standards (WQS) Administrative Code (AAC) 18 AAC 70 for fresh water, must be met in the groundwater at a point after the wastewater effluent has mixed.

- 1.2.2 In order to prevent and detect groundwater contamination and assess compliance with Alaska WQS, the permittee is required to monitor contaminant levels in monitoring wells.
- 1.2.3 At least one upgradient well and two downgradient wells are required for collecting representative groundwater samples.
- 1.2.4 At least one downgradient well must be located 75 meters (m) downgradient from the edge of the leachfield or at the property boundary, whichever is less.
- 1.2.5 The three wells in Table 3 were designated as monitoring wells in the prior permit. However, since the linear alignment of the two downgradient wells may not accurately reflect groundwater movement, and the data obtained from these wells may be a reflection of past practices rather than current operations, the Department recommends the installation of at least one new monitoring well to the east of the leachfield.

Table 3: Monitoring Well Locations

| Monitoring Well | Designation | Latitude | Longitude |
|-----------------|--------------|----------------|----------------|
| Well 1 | upgradient | 68.1358° North | 151.7420° West |
| Well 2 | downgradient | 68.1345° North | 151.7445° West |
| Well 3 | downgradient | 68.1307° North | 151.7514° West |

- 1.2.6 If representative samples cannot be obtained twice per year (once between October and April, and once between May and September) from any of the existing monitoring wells listed in Table 3, or if at least one of the downgradient wells is not located 75 m downgradient from the leachfield, or at the edge of the permittee’s property, whichever is less, the permittee shall complete installation of new monitoring wells that meet the requirements of this permit within three years of the effective date of the permit. In recognition of site specific restrictions, the Department may modify this requirement on a case-by-case basis.
- 1.2.7 The location, depth, and construction of new monitoring wells must be reviewed and approved by the Department’s Engineering Support and Plan Review (ESPR) Program. ESPR contacts may be found at: <http://dec.alaska.gov/water/wwdp/onsite/index.htm>.
- 1.2.8 The Department’s Wastewater Discharge Authorization Program (WDAP) and ESPR must be notified in writing within two weeks of the completion of any new monitoring wells. ESPR contacts may be found at the link in Section 1.2.7, and WDAP contacts may be found at: <http://dec.alaska.gov/water/wwdp/dmww/dmww.htm>.
- 1.2.9 The permittee must monitor the groundwater in monitoring wells in the following manner:

Table 4: Monitoring Well Limits and Monitoring Requirements

| Parameter | Well 1 (upgradient) | Well 2 and Well 3 (downgradient) | Units | Frequency of Analysis | Sample Type |
|---|---------------------|----------------------------------|-------|-----------------------|-------------|
| pH | report result | report result | s.u. | semiannual (2/year) | grab |
| Chloride | report result | report result | mg/L | semiannual (2/year) | grab |
| Nitrate as Nitrogen | report result | 10 (maximum limit) | mg/L | semiannual (2/year) | grab |
| Footnotes: | | | | | |
| a. If nitrate exceeds 5 mg/L, monitoring shall increase to four times per year (4/year). | | | | | |
| b. If nitrate levels (as nitrogen) are maintained below 5.0 mg/L for a period of three years, monitoring shall be reduced to once per year. | | | | | |

- 1.2.10 The permittee must use methods that achieve a method detection limit less than the monitoring well limit.
- 1.2.11 If monitoring well results indicate recurring violations of the 10 mg/L nitrate limit contained in Table 4, the Department may require follow-up actions to determine the extent of the groundwater contamination. The Department will notify the permittee of the required actions.
- 1.2.12 The Department may grant a waiver from the groundwater monitoring well installation and monitoring if the effluent contains less than 10 mg/L of Nitrate as Nitrogen prior to discharge to the leachfield, or if the treatment plant is designed to achieve at least 65 percent removal of influent Total Nitrogen.

1.3 QUALITY ASSURANCE PROJECT PLAN (QAPP)

- 1.3.1 Within 180 days of the effective date of the permit, the permittee must develop and implement a QAPP for all monitoring required by this permit. An existing QAPP may be modified under this section.
- 1.3.2 The permittee must provide written notice to DEC when the QAPP has been completed. The QAPP shall be maintained onsite and made available to DEC upon request.
- 1.3.3 The QAPP must be designed to assist in planning for the collection and analysis of effluent and receiving water samples in support of the permit and to help explain data anomalies whenever they occur.
- 1.3.4 The permittee may use either the generic DEC wastewater treatment facility QAPP or develop a facility-specific QAPP. Some facility specific information is required to complete the QAPP when using the generic DEC QAPP. A generic DEC QAPP is located at http://dec.alaska.gov/wqapp/wqapp_index.htm.
- 1.3.5 Throughout all sample collection and analysis activities, the permittee must use DEC-approved Quality Assurance/Quality Control and chain-of-custody procedures, as described in the *Requirements for Quality Assurance Project Plans* (EPA/QA/R-5, March 2001) at <http://www.epa.gov/quality/qs-docs/r5-final.pdf> and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5, December 2002) at

<http://www.epa.gov/quality/qs-docs/g5-final.pdf>. The QAPP must be prepared in the format specified in these documents.

1.3.6 At a minimum, a QAPP must include the following:

1.3.6.1 Details on number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements;

1.3.6.2 Maps indicating the location of each sampling point;

1.3.6.3 Qualification and training of personnel; and

1.3.6.4 Name, address, and telephone number of all laboratories used by or proposed to be used by the permittee.

1.4 REPORTING

Monitoring results shall be summarized and reported monthly to the Department. DMRs must be signed, postmarked, faxed, or emailed no later than the 15th day of the month following the month that monitoring occurred. Reporting shall begin at the commencement of discharge and shall be done on the attached DMR. If there is no discharge during an entire reporting period, the permittee shall mark the DMR appropriately and submit the form monthly as required. Reports submitted on a form similar to the DMR in the same format and providing the same information as the DMR will be accepted. Signed copies of these and all other reports required herein must be submitted to the Department at the following address:

Alaska Department of Environmental Conservation
Attn: Compliance and Enforcement Program
555 Cordova Street
Anchorage, AK 99501
Toll Free Nationwide: 1-877-569-4144
Anchorage or International: 1-907-269-4114
Fax: 907-269-4604
Email: dec-wqreporting@alaska.gov

Intentional false statements on permit required reports by the permittee, operator, or other employees including contractors may result in the imposition of criminal penalties under Alaska Statutes 46.03.790.

2 MANAGEMENT PRACTICES

2.1 OPERATION AND MAINTENANCE (O&M) PLAN

- 2.1.1 Within 180 days of the effective date of this permit, the permittee shall complete an O&M Plan. An existing O&M Plan may be modified under this section.
- 2.1.2 The permittee must provide written notice to DEC when the O&M Plan has been completed. The O&M Plan shall be maintained onsite and made available to DEC upon request.
- 2.1.3 The OMP must be reviewed annually. Documentation of annual plan review by the permittee shall be retained onsite and made available to DEC upon request.
- 2.1.4 The OMP must include appropriate best management practices (BMPs) which prevent or minimize potential for the release of pollutants to the groundwater.
- 2.1.5 The permittee must develop a description of pollution prevention measures and controls appropriate for the facility. The appropriateness and priorities of controls in the OMP must reflect identified potential sources of pollutants at the facility. The description of BMPs must address to the extent practicable, the following minimum components:
 - 2.1.5.1 Spill prevention and control;
 - 2.1.5.2 Optimization of chemical usage;
 - 2.1.5.3 Preventive maintenance program;
 - 2.1.5.4 Minimization of pollutant inputs from industrial users;
 - 2.1.5.5 Research, development, and implementation of a public information and education program to control the introduction of household hazardous materials to the sewer system; and
 - 2.1.5.6 Water conservation.

2.2 REMOVED SUBSTANCES

Collected grit, scum, sludge, or other pollutants removed in the course of treatment or control of wastewater must be disposed of in a Department approved and permitted manner.

2.3 AIR AND LAND RELEASES

The permittee must not place, deposit, or allow placement of, or deposit on the premises, any material which may produce, cause or contribute to the spread of disease, create a safety hazard or in any way endanger the health of the public.

3 GENERAL PROVISIONS

3.1 COMPLIANCE WITH ALASKA ADMINISTRATIVE CODE

The discharge shall not cause contamination of surface or groundwater, and shall not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70) or the Alaska Wastewater Disposal regulations (18 AAC 72).

3.2 CHANGE IN DISCHARGE

No other treated or untreated wastewater, sludge, or other materials shall be discharged to the lands or waters of the state unless otherwise approved by the Department.

3.3 ADDITIONAL MONITORING

If the permittee monitors any influent or effluent characteristic identified in this permit more frequently than required, the results of such monitoring must be reported to the Department in the corresponding DMR. The Department will waive the requirement to report analytical results provided that the Department receives written advance notification stating that testing will be conducted for training purposes.

3.4 RECORDS RETENTION

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, and calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation must be retained in Alaska for observation by the Department for five years. Upon request from the Department, the permittee must submit certified copies of such records.

3.5 CHANGE IN DISCHARGE

All discharges authorized herein must be consistent with the terms and conditions of this permit. The discharge of any pollutant or toxic material (including oil, grease, or solvents) more frequently than or at a concentration or limit not authorized, shall constitute noncompliance with the permit. Any anticipated facility expansions, flow increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new wastewater disposal permit application, and request a plan review at least thirty days before the implementation of such changes. Physical changes may also be subject to plan review by the Department.

3.6 TOXIC POLLUTANTS

If during the life of this permit a new or revised toxic pollutant (including oil, grease, or solvents) concentration standard is established in accordance with 18 AAC 70 for a pollutant present in this discharge and that standard is more stringent than the limitation in this permit, then upon the effective date of the new rule, this permit is considered to be automatically modified in accordance with the new toxic pollutant concentration standard.

3.7 ACCIDENTAL DISCHARGES AND NONCOMPLIANCE

3.7.1 The permittee must provide protection from accidental discharges not in compliance with the provisions of this permit. To prevent such discharges, the permittee must maintain wastewater treatment facilities in good working condition at all times. If an accidental discharge occurs, the permittee must report the event to the Department as soon as possible or within 24 hours after becoming aware of such conditions. Within seven days of event discovery, a completed accidental discharge/spill notification form, or its equivalent, with all the information requested by the accidental discharge/spill notification form, must be sent to the Department as a follow-up written report. An accidental/spill notification form is available at:

<http://dec.alaska.gov/water/Compliance/permittee.html>.

3.7.2 If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee must report the noncompliance to the Department as soon as possible or within 24 hours after becoming aware of such conditions.

3.7.3 A written follow-up non-compliance report must be sent to the Department at the address listed in Section 1.4 within seven days of discovering the noncompliance event. A noncompliance notification form to report noncompliance is available at:

<http://dec.alaska.gov/water/Compliance/permittee.html>.

3.7.3.1 A written noncompliance report must contain but is not limited to:

3.7.3.2 times and dates on which the event occurred, and if not corrected, the anticipated time the noncompliance is expected to continue,

3.7.3.3 a detailed description of the event, including quantities and types of materials involved,

3.7.3.4 details of any actual or potential impact on the receiving environment or public health,

3.7.3.5 details of actions taken or to be taken to correct the causes of the event, and

3.7.3.6 details of actions taken or to be taken to correct any damage resulting from the event.

3.7.4 Despite the exercise of all possible care, maintenance measures, and corrective measures by the permittee, influent quality changes, equipment malfunctions, or uncontrollable circumstances may sometimes result in effluent concentrations exceeding the permit limitations,. The permittee must demonstrate to the Department that such circumstances did exist where, despite all evasive measures, the effluent concentrations exceeded those set forth in this permit. The Commissioner shall consider such evidence in determining the Department's actions. The Department does not waive any of its legal rights during such consideration.

3.8 TRANSFER OF OWNERSHIP

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee must notify the succeeding owner or

controller of the existence of this permit in writing, a copy of which must be forwarded to the Department at the address in this permit. The original permittee remains responsible for permit compliance unless and until the succeeding owner or controller agrees in writing to assume such responsibility and the Department approves assignment of the permit. The Department will not unreasonably withhold such approval.

3.9 ACCESS AND INSPECTION

The permittee must allow the Commissioner or their representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, state laws and regulations.

3.10 INFORMATION ACCESS

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit must be available for public inspection at the Department's Division of Water, 610 University Avenue Fairbanks, Alaska 99709-3643.

3.11 CIVIL AND CRIMINAL LIABILITY

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

3.12 ADVERSE IMPACT

The permittee must take all necessary precautions to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the non-complying activity. The permittee must cleanup and restore all areas adversely impacted by the noncompliance.

3.13 CULTURAL OR PALEONTOLOGICAL RESOURCES

Should cultural or paleontological resources be discovered as a result of this activity, work, which would disturb such resources, is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-269-8721).

3.14 APPLICATIONS FOR RENEWAL

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.

3.15 OTHER LEGAL OBLIGATIONS

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Department or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit must comply with all applicable federal and state laws and regulations.

3.16 POLLUTION PREVENTION

In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the following order of priority options:

- Waste source reduction.
- Recycling of waste.
- Waste treatment.
- Waste disposal.

Appendix A

Definitions

APPENDIX A

The following are common definitions of terms associated with State of Alaska wastewater discharge permits.

| | |
|------------------------------|--|
| Average | Means an arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities |
| Average Monthly Limit | Means the highest allowable average of “daily discharges” over a calendar month calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured for that month |
| DEC or Department | Means the Alaska Department of Environmental Conservation |
| Design Flow | Means the wastewater flow rate that the plant was designed to handle |
| Discharge | When used without qualification, discharge means the discharge of a pollutant |
| Domestic Wastewater | Means waterborne human wastes or graywater derived from dwellings, commercial buildings, institutions, or similar structures. "Domestic wastewater" includes the contents of individual removable containers used to collect and temporarily store human wastes. |
| Effluent | Means the segment of a wastewater stream that follows the final step in a treatment process and precedes discharge of the wastewater stream to the receiving environment |
| Fecal Coliform (FC) | Bacteria that can ferment lactose at $44.5^{\circ} + 0.2^{\circ}\text{C}$ to produce gas in a multiple tube procedure. Fecal coliform bacteria also means all bacteria that produce blue colonies in a membrane filtration procedure within 24 ± 2 hours of incubation at $44.5^{\circ} + 0.2^{\circ}\text{C}$ in an M-FC broth. |
| Final Approval to Operate | Means the approval that the Department issues after it has reviewed and approved the construction and operation of the engineered wastewater treatment works plans submitted to the Department in accordance with 18 AAC 72.215 through 18 AAC 72.280 or as amended. |
| Grab Sample | Means a single instantaneous sample collected at a particular place and time that represents the composition of wastewater only at that time and place |
| Maximum Daily Limit | Means the highest allowable “daily discharge” |
| Measured | Means the actual volume of wastewater discharged using appropriate mechanical or electronic equipment to provide a totalized reading. Measure does not provide a recorded measurement of instantaneous rates. |
| Method Detection Limit (MDL) | Means the minimum concentration of a substance (analyte) that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte |
| Milligrams per Liter (mg/L) | Means the concentration at which one thousandth of a gram (10^{-3} g) is found in a volume of one liter. It is approximately equal to the unit “parts per million (ppm),” formerly of common use. |
| Month | Means the time period from the 1 st of a calendar month to the last day in the month |
| Monthly Average | Means the average of daily discharges over a monitoring month calculated as the sum of all daily discharges measured during a monitoring month divided by the number of daily |

APPENDIX A

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|---------------------------------------|--|
| | discharges measured during that month |
| Permittee | Means a company, organization, association, entity, or person who is issued a wastewater permit and is responsible for ensuring compliance, monitoring, and reporting as required by the permit |
| pH | Means a measure of the hydrogen ion concentration of water or wastewater; expressed as the negative log of the hydrogen ion concentration in mg/L. A pH of 7 is neutral. A pH less than 7 is acidic, and a pH greater than 7 is basic. |
| Pollutant | Means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under 42 U.S.C. 2011), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, or agricultural waste discharged into water |
| Quality Assurance Project Plan (QAPP) | Means a system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other technical and reporting activities are of the highest achievable quality |
| Recorded | Means a permanent record using mechanical or electronic equipment to provide a totalized reading, as well as a record of instantaneous readings |
| Report | Report results of analysis |
| Residual Chlorine | Means chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine |
| Twice per year | Means two time periods during the calendar year: October through April and May through September |
| Week | Means the time period of Sunday through Saturday |