

# Alcoa Stormwater Utility Manual

RULES, RATES, FEES AND CREDITS

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THE CITY OF ALCOA, TENNESSEE  
PUBLIC WORKS & ENGINEERING DEPARTMENT



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## 1.0 Introduction

In an effort to establish an equitable approach to funding required stormwater management services and facilities, the City Commission of the City of Alcoa created a stormwater utility to be administered through the Department of Public Works & Engineering. Adopting a schedule of utility fees related to the burden of stormwater quality and quantity each property produces proportionately distributes the burden of such services. This policy manual provides supplemental policies and technical guidance for developers, architects, engineers and property owners that would like to take advantage of credits offered through the stormwater utility.

### 1.1 Overview

Impervious area is the most important factor influencing stormwater service requirements and costs posed by properties throughout the City. Therefore, the utility fee is based on the amount of impervious surface area on an individual property.

Public Works & Engineering has developed a system of credit adjustments or reductions to the monthly stormwater utility fee for “other developed land” or non-residential with the intent to encourage sound technical design practices through specific and approved actions which reduce the negative impact of development on the City’s stormwater drainage system and receiving streams. These credits are associated with the construction, operation and maintenance of privately owned stormwater facilities that receive beneficial use from the City stormwater drainage system. See Section 2.0 for detailed utility credit information.

### 1.2 Definitions

**Best Management Practices (BMP)** - schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to the storm drainage system. BMP’s also include treatment requirements, operating procedures, and practices to control site runoff, spillage, or leaks, sludge or waste disposal, or drainage from raw material storage.

**Community Area(s)** - an area with residential or detached dwelling units designated by the City of Alcoa with like characteristics. This area may be charged a similar stormwater utility rate class based upon a sample of impervious areas reviewed.

**Credit** - a conditional reduction in the amount of a stormwater utility fee to a qualifying individual property based on the provision and continuing presence of an effectively maintained and operational on-site stormwater system or facility or the provision of a service or activity by the property owner, which system, facility, service, or activity reduces the stormwater utility’s cost of providing stormwater services and facilities. Credits for on-site stormwater systems shall be generally proportional to the beneficial affect that such systems have on the peak rate of runoff and/or improved water quality from the individual property.



**Detached Dwelling Unit** - developed land containing one structure which is not attached to another dwelling and which contains one or more rooms with a bathroom and kitchen facilities designed for occupancy by one family. Detached dwelling units may include houses, manufactured homes, condominiums, and mobile homes located on one or more individual lots or parcels of land. “Developed land” shall be classified as a detached dwelling unit despite the presence of incidental structures associated with residential uses such as garages, carports, or small storage buildings. Detached dwelling unit can also include developed land that has a non-residential use of a dwelling unit designed for occupancy for one family so long as such use does not result in additional impervious areas, such as parking spaces, impervious surfaced playgrounds, or structures or additions to the building which are used as offices, storage facilities, meeting rooms, classrooms, houses of worship, or similar non-residential uses. Detached dwelling unit shall not include developed land containing: manufactured homes and mobile homes located within manufactured home or mobile home parks where the land is owned by others than the owners of the manufactured homes or mobile homes; or multiple-unit residential properties.

**Detention Facility** - a stormwater structure, by means of a single control point, which provides temporary storage of stormwater runoff in ponds, parking lots, depressed areas, rooftops, buried underground vaults or tanks, etc., for future release, and is used to delay and attenuate peak flow rates from a design storm event(s). Refer to Title 16 Chapter 5 “Stormwater Management” of the Alcoa Municipal Code and the Stormwater Management Manual, latest edition.

**Developed Land** - property altered from a natural state by construction or installation of more than 500 square feet of impervious surfaces as defined in this Chapter

**Equivalent Residential Unit (ERU)** - the median impervious coverage of detached dwelling unit properties in the City of Alcoa as determined by the City, and shall be used as the basis for determining the stormwater utility fee applicable to detached dwelling unit properties or classes of detached dwelling unit properties and other developed lands.

**Community ERU Adjustment** - the adjustment made to a Community Area based upon the designated community’s median impervious area divided by the entire City of Alcoa’s median area. For example, if Community A has 1.2 times more impervious area than the City median, a detached dwelling unit within Community A would pay the Class 2 rate. (Class 2 rate = >1-1.5 ERU’s) See Stormwater Utility Fee Schedule (Resolution R08-112 or latest amendment) in Appendix 1.

**Impervious Surfaces** - those areas that prevent or impede the infiltration of stormwater into the soil as it entered in natural conditions prior to development. Common impervious areas include, but are not limited to, rooftops, sidewalks, walkways, patio areas, driveways, parking lots, storage areas, compacted gravel and soil surfaces, awnings and other fabric or plastic coverings.

**Multiple Dwelling Unit Residential Properties** - land whereon two or more attached residential dwelling units are located and shall include, but not be limited to, apartment houses, condominiums, town homes, attached single-family homes, duplexes, triplexes, boarding houses, and other structures in which two or more family groups commonly and normally reside or could



reside. Such, units may be treated as detached dwelling unit properties in the application of stormwater utility fee rates.

**Other Developed Land** - means, but is not necessarily limited to manufactured home and mobile home parks, commercial and office buildings, public buildings and structures, industrial and manufacturing buildings, storage buildings and storage areas covered with impervious surfaces, parking lots, parks, recreation properties, public and private schools, universities, research stations, hospitals and convalescent centers, group homes, hotels and motels, retirement centers, airports, agricultural uses covered by impervious surfaces, water reservoirs, and water and wastewater treatment plants.

**Stormwater** - stormwater runoff, snowmelt runoff, surface runoff, street wash waters related to street cleaning or maintenance, infiltration (other than infiltration contaminated by seepage from sanitary sewers or other discharges), and general drainage related to a precipitation event.

**Stormwater Management Facility** - those natural and man-made drainage structures, conveyances, conduits, combined sewers, sewers, and all device appurtenances by means of which storm water is collected, transported, pumped, treated, and/or disposed of.

**Stormwater Utility Rate** - the stormwater fee applied to each Equivalent Residential Unit (ERU) or 2,696 square feet of impervious surface.

**Total Aggregate Credit** - the total sum of credits that a ratepayer may take is a maximum credit of seventy-five (75) percent. The total sum of credits may combine quality, quantity, Multi-Sector, industrial NPDES, direct discharge and, if applicable, education credits.

## **2.0 System of Credits**

The City of Alcoa has developed a system of credits based on six (6) general criteria:

1. Quantity Credit
2. Quality Credit
3. Tennessee Multi-Sector General Permit (TMSP) Credit
4. Industrial National Pollutant Discharge Elimination System (NPDES) Permit Credit
5. Direct Discharge Credit
6. Education Credit

To qualify for these credits the stormwater utility customer must fill out the appropriate credit application form and submit the required information to the Department of Public Works & Engineering. The application will be evaluated to determine the amount of credit to which the property is entitled. The total aggregate credit shall not be greater than seventy-five (75) percent. See Appendix 2 for a credit application form.



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## 2.1 General Credit Guidelines

The following guidelines, policies, details, and special circumstances must be met to determine program qualification, amount of credit, and long term program compliance:

1. It is the responsibility of the property owner or appointed designee to apply for stormwater credits and to provide the necessary substantiating information with the appropriate credit application.
2. Credits for stormwater utility fees paid prior to approval for a credit will not be applied retroactively. The City will not refund any portion of the stormwater fees paid for property prior to receiving approval for a stormwater credit.
3. Only a fully completed stormwater credit application will be reviewed. The review process will be performed within sixty (60) days after a complete application is submitted to the Department of Public Works & Engineering. If approved, the credit will be reflected during the next month's billing cycle.
4. Site plan and as-built construction drawings (signed and sealed by a qualified licensed engineer) shall be at an approved scale, showing the site, topographic details, overland flow paths, all stormwater facilities, upstream drainage area, easements and floodplain/floodway, and other pertinent information.
5. Appropriate hydrologic and hydraulic calculation methods shall be used as stated in Title 16 Chapter 5 "Stormwater Management" of the Alcoa Municipal Code and the Stormwater Management Manual, latest edition.
6. Credit reductions are maintained on a property as long as the activity is being performed in accordance with City requirements, or the stormwater facility is properly functioning in accordance with applicable City codes, ordinances, and the policies stated herein.
7. A credit shall only be applied to that portion of the property served by the stormwater facility / best management practice.
8. Each application for the stormwater utility fee credit must include permission for City representatives to enter onto the owner's property for the purpose of inspecting the facility/structure for which credit is requested.
9. "Covenants for Permanent Maintenance of Water Quality Best Management Practices" (also called the "Maintenance Covenants"), if applicable, for the proposed / existing facility must be submitted with the required site information.

### 2.1.1 General Ownership Guidelines

The stormwater facility must be owned, operated and maintained by the applicant either on-site or by a recorded agreement. In the event that the stormwater facility is not located on the property owned or operated by the applicant, the applicant must provide a copy of an agreement between the applicant and the owner of the off-site facility recorded in the Blount County Register's Office. The applicant shall state who is responsible for maintaining all or a portion of the facility and the owner understands that the applicant will receive the stormwater fee credit for the facility. In addition, the owner of the off-site parcel should provide written confirmation to the Department of Public Works & Engineering indicating that he/she is in agreement with the information contained in the application for credit.



## 2.1.2 General Operation, Maintenance and Inspection Guidelines

The applicant must provide documentation in the form of a Covenant for Permanent Maintenance of Water Quality Best Management Practices (also called the “Maintenance Covenants”). The Maintenance Covenants agreement is comprised of the following elements:

1. A Covenants for Permanent Maintenance of Water Quality Best Management Practices which includes an Inspection and Long Term Maintenance Plan (LTMP), shall be signed by the owner or his designee. The LTMP shall show the stormwater system, its components, and a schematic for each best management practice. One of the purposes of the LTMP is to inform property owners about the system components on their properties so they will know the locations and maintenance needs of the components and structural BMP’s. The LTMP shall include or address the following program elements:
  - a. Description and location of stormwater systems to be inspected, as prepared by the design engineer.
  - b. Schedule of inspections and the techniques used to inspect and maintain the systems to ensure that they are functioning properly as designed.
  - c. Documentation checklists for each type of BMP including the inspection schedule and potential maintenance items that must be addressed. (templates for checklists may be located in the Stormwater Management Manual or will be provided on an as needed basis).
  - d. Name(s) and phone number(s) of the person(s) who will be responsible for inspection and maintenance. If the organization that will be responsible is yet to be organized, list the name, address, and phone number of the person or entity with interim responsibility.
  - e. Where and how trash, sediment and other pollutants are to be removed from the stormwater system and disposal.
  - f. Schematics of BMPs located on the site.
  - g. Provisions of permanent access and maintenance easements.
  - h. The Schedule shall show the date of all maintenance and inspections and the name of the person and organization performing the action. Under the terms of the Maintenance Covenants, the property owner or owners are responsible for inspections and maintenance of BMPs and privately-owned stormwater system components outside of the right-of-way, unless otherwise agreed upon.
2. Drawings of easements on a plat or a system of location maps to enable the City to locate stormwater facilities as needed.

The Maintenance Covenants must be submitted as a part of the credit approval process. The Maintenance Covenants must be recorded at the Register of Deeds Office before a final Certificate of Occupancy is issued for new developments and existing / retrofitted sites before final credit issuance. If the final configuration of the stormwater system components or BMPs differs from that described in the recorded Maintenance Covenants, a revised Maintenance Covenants must be recorded.



An example of an Inspection and Maintenance Plan is contained in the Stormwater Management Manual, as are templates for inspection checklists for detention / retention and other facilities. Water quality checklists may be provided as needed. As noted above, inspection priorities and schedules for each BMP type must be submitted as a component of the long-term maintenance plan for the site. The inspection checklists can serve this purpose, as well as serving as inspection reports for each facility. The template checklists are a general guideline of inspection elements; however, the design engineer may modify checklists to include inspections and maintenance elements as needed and approved by the Department of Public Works and Engineering.

The Inspection/Maintenance schedule shall be made available upon request by the City. The applicant shall provide the Department of Public Works & Engineering with an operation and maintenance report on an annual basis by July 1<sup>st</sup> each year.

### **2.1.3 Onsite Stormwater Facility Inspections**

Personnel from the City of Alcoa shall be permitted ready access to inspect all credited stormwater facilities for compliance as stated in the Maintenance Covenants. If the applicant is found to be in violation of the Maintenance Covenants, he/she shall receive a written notification stating requirements for corrective action that include a deadline for compliance. Failure to correct noncompliance within the stated deadline period will result in revocation of the credit. If the violation could result in a threat to public health and or safety, the owner shall immediately make necessary repairs to the facility in accordance with Title 15 Chapter 5 “Stormwater Management” of the Alcoa Municipal Code.

## **2.2 Quantity Credit – Maximum 25%**

Water quantity credits are available to properties in the category of “other developed lands.” Properties whose peak stormwater runoff rate is restricted and/or controlled through onsite control facilities such as detention or retention ponds that are designed, constructed, and maintained to City standards shall be eligible for this credit. All rules, regulation, and design criteria shall be followed as specified in Title 16 Chapter 5 “Stormwater Management” of the Alcoa Municipal Code and the Stormwater Management Manual, latest edition. Specific policies for Quantity Credits are listed below:

1. Complete information must be provided to the Department of Public Works & Engineering to verify that controls meet the following criteria:
  - a. Peak runoff rate under developed conditions must be less than or equal to pre-developed conditions.
  - b. Detention / Retention ponds: Hydraulic calculations showing stage-discharge and stage-storage relationships of stormwater runoff storage facilities / structural controls, and the volume of the permanent pool.
  - c. Dry extended detention ponds: At a minimum, runoff volume calculations and structural control routing calculations must meet current City standards.



2. Credit applications for new development or redevelopment may be submitted to Public Works & Engineering during the normal site plan review process. See section 4.0 Application Procedure for Stormwater Utility Fee Credits.
3. Credit will also be considered on a case by case basis for other types of facilities, activities, or control devices that restrict and control the volume and/or peak flow related impacts on a property’s stormwater runoff on the municipal stormwater system, providing sufficient technical justification is submitted in the application package to make such determination.
4. All existing detention / retention facilities for which credit is applied must be working in proper operating condition at the time that the application is submitted.
5. As-built information and detention pond certification shall be required before final credit is awarded. See Appendix 3 for the detention pond certification form.

### 2.2.1 Levels of Quantity Credit

The total amount of credit received for detaining stormwater is dependent on the magnitude of the storm event controlled by the facility. Recognizing that the City’s stormwater specifications have changed over the years, the City may grant stormwater credits to customers that successfully control a storm event(s) that are less than currently required. The credit percentages are cumulative if the stormwater facility controls multiple events; however, the maximum credit shall not exceed twenty-five (25) percent. See Table 2.0 for eligible credits:

**Table 2.0**

<b>Design Storm Event</b>	<b>Percent Credit</b>
<b>2 -Year</b>	<b>4%</b>
<b>5 -Year</b>	<b>4%</b>
<b>10 -Year</b>	<b>4%</b>
<b>25 -Year</b>	<b>5%</b>
<b>50 - Year</b>	<b>4%</b>
<b>100 - Year</b>	<b>4%</b>

### 2.2.2 Minimum Maintenance Requirements – Detention / Retention

In order for stormwater retention and detention facilities to operate as they were intended, maintenance must be routinely performed. Improperly maintained stormwater retention and detention facilities do not reduce stormwater impacts effectively. The following items are the basic minimum maintenance requirements for all detention / retention facilities and must be included in the Maintenance Covenants as specified in Section 2.1.2:

1. Sediment shall be removed when approximately 20% of storage volume of the facility is filled.
2. Sediment traps / fore bays, if existing shall be cleaned out when filled.



3. No woody vegetation shall be allowed to grow on the dam, unless otherwise approved.
4. Other vegetation shall be cut when it exceeds 18 inches in height unless part of an approved managed landscaping or water quality feature.
5. Debris shall be removed from blocking inlet and outlet structures and from areas of potential clogging. This is especially important after major storms. Extended detention control devices shall be checked often for debris accumulation and/or clogging.
6. Litter and other “floatables” shall be removed from the pond on a regular basis.
7. The control structure shall be kept structurally sound, free from erosion, and functioning as designed.
8. No long term standing water is allowed within detention basins without special design provisions.
9. Any bare or eroded areas on the pond slopes shall be stabilized with sod or if conditions warrant, stabilized with other means as approved by the Director of Public Works & Engineering or his designee.

### 2.3 Quality Credit – Maximum 50%

Quality Credits are available to “other developed lands” that implement approved water quality Best Management Practices (BMP’s) that will help the City in meeting the National Pollutant Discharge Elimination System (NPDES) Phase II and Total Maximum Daily Load (TMDL) requirements.

According to the Tennessee Department of Environment and Conservation (TDEC), the major problem found in Alcoa’s local streams is loss of biological integrity due to siltation caused by developed and developing lands in and around the City. In stormwater, silt is often referred to as Total Suspended Solids (TSS). The control of TSS leads to indirect control of other pollutants of concern that can adhere to suspended solids in stormwater runoff. Research shows that a large fraction of many other pollutants of concern are either reduced along with TSS or at rates proportional to the TSS reduction. At this time, the primary focus will be for removal of TSS. The goal for water quality practices or BMP’s is for the removal of eighty (80) percent of total suspended solids. Specific policies for Quality Credits are listed below:

1. The approved design, maintenance and removal rate of an individual BMP shall be followed as specified in Title 16 Chapter 5 “Stormwater Management” of the Alcoa Municipal Code and the Stormwater Management Manual, latest edition. The Georgia Stormwater Management Manual, Metropolitan Nashville Stormwater Management Manual, Knox County Stormwater Management Manual or other approved document may be used as a reference source.
2. Credit will also be considered on a case by case basis for other types of facilities, activities, or control devices that focus on pollutants other than TSS. Such pollutants are, but not limited to, oils, grease, fuels, metals, and nutrients.
3. The goal for TSS is eighty (80) percent; however, if the BMP reduces TSS by a lower percentage the credit will reflect the percentage reduced. Example calculations are shown in the Stormwater Management Manual.
4. The applicant must provide sufficient technical justification to prove that the proposed BMP is appropriate for removal of the targeted pollutant from post-construction runoff.



5. If using a proprietary device the application for consideration must include the following:
  - a. Statement of the intended use of the device. Intended uses may include pretreatment (floatables, oil and grease, or sediment), water quality treatment, hydraulic detention, velocity dissipation, or an element of a comprehensive treatment train, etc.
  - b. Statement of the TSS removal performance is calculated for the 85<sup>th</sup> percentile storm event using a value of 1.1 inches of rainfall. Thus, a stormwater management system designed for the water quality volume (WQ<sub>v</sub>) will treat the runoff from all storm events of 1.1 inches or less, as well as the first 1.1 inches of runoff for all larger storm events. The proprietary device shall be certified by an independent testing laboratory.
  - d. Published technical papers, if available, documenting performance of the device.
  - e. Engineering drawing of the assembled device.
  - f. Installation, repair, and maintenance instructions and schedule.
  - g. Parts list including materials of construction and recommended manufacturers.
  - h. Certified tests of load bearing capacity for traffic bearing devices.
  - i. A sample device shall be made available to the Public Works & Engineering Department upon request.
  - j. A list of locations where the device is installed and operational. The list should include the customer's name, agency, telephone number, and address.
  - k. The technology / device must have a proven record of operational longevity under hydrologic conditions similar to what would be encountered in the City of Alcoa (rainfall, slope, soil types, etc.)
  - l. Water quality treatment performance must be conducted in the field, as opposed to laboratory testing.
  - m. Field monitoring must be conducted using standard protocols which require proportional sampling both upstream and downstream of the device. For guidance on testing protocols, see the Technology Acceptance Reciprocity Partnership (TARP) Protocol for Stormwater BMP Demonstrations.  
(<http://www.dep.state.pa.us/dep/deputate/pollprev/techservices/tarp/>)
  - n. Pollutant concentrations reported in the study must be flow rated.
  - o. Local data is preferred; however data from other areas may be accepted as long as the design accounts for the local hydrologic conditions.
  - p. Other relevant information available from the manufacturer.
6. If all requirements of this document are met, the credit will be available upon successful completion of the credit application process and on-site City inspection. The credit shall remain in force as long as the BMP(s) are maintained according to the Maintenance Covenants and other City requirements.
7. All engineering calculations and drawings used to apply for the quality credit shall be prepared, sealed and stamped by a professional engineer registered in the State of Tennessee, and shall be sufficient for full review of the control.
8. Credit applications for new construction should be submitted to Public Works & Engineering during the site plan review process. See Section 4.0 Application Procedure for Stormwater Utility Fee Credits
6. As-built information and water quality BMP certification shall be required before final credit is awarded. See Appendix 3 for the water quality BMP certification form.



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### **2.3.1 Minimum Maintenance Requirements – Quality Facilities**

Specific maintenance needs will be based upon the individual best management practice(s) implemented. See Section 2.1.2 and the Stormwater Management Manual.

### **2.4 Tennessee Multi-Sector General Permit (TMSP) Credit – 10%**

Policies specific to the TMSP Credit are listed below:

1. The **TMSP Credit** is available to “other developed lands” that have and maintain a current Tennessee Multi-Sector General Permit (TMSP) for all appropriate facilities.
2. Applicants approved for the TMSP credit will receive a 10% credit to the assessed stormwater utility fee for that property.
3. The property will receive the TMSP credit only for the duration of the active TMSP permit. The property owner must re-apply for the TMSP credit each time that the TMSP is renewed with the State of Tennessee.
4. To obtain this credit, the property owner must provide:
  - a. A completed copy of the TMSP credit application form;
  - b. A copy of the latest Notice of Intent (NOI) for the permit;
  - c. A copy of the current Notice of Coverage (NOC) for the TMSP, as delivered to the facility owner by the State of Tennessee Department of Environment and Conservation. The NOC must indicate the date of permit coverage; and,
  - d. A copy of the facility’s Stormwater Pollution Prevention Plan (SWPPP).
5. Ongoing Yearly Inspection Reports are required to receive the credit. The applicant must re-certify by July 1 of each year by providing Department of Public Works & Engineering the most current Yearly Inspection Report. During re-application a Yearly Inspection Report will not be required.

### **2.5 National Pollutant Discharge Elimination System (NPDES) Industrial Permit Credit – 50%**

Policies specific to the NPDES Industrial Credit are listed below:

1. The NPDES Industrial Credit is available to “other developed lands” that have and maintain a current National Pollutant Discharge Elimination System Industrial Stormwater Discharges Associated with Industrial Activity Permit for all appropriate facilities.
2. Applicants approved for the NPDES Industrial credit will receive fifty percent (50%) credit to the assessed stormwater utility fee for that property.
3. The property will receive the NPDES Industrial credit only for the duration of the active NPDES Industrial permit. The property owner must re-apply for the NPDES credit each time that the NPDES Industrial permit is renewed with the State of Tennessee.
4. To obtain this credit, the property owner must provide:
  - a. A completed copy of the NPDES credit application form;



- b. A copy of the latest Notice of Intent (NOI) for the permit;
  - c. A copy of the current Notice of Coverage (NOC), as delivered to the facility owner by the State of Tennessee Department of Environment and Conservation.
  - d. The NOC must indicate the date of permit coverage.
  - e. A copy of the facility’s Stormwater Pollution Prevention Plan (SWPPP), BMP Plan, and other applicable data as required by the NPDES permit.
  - f. A copy of all monitoring data as required by the NPDES permit.
5. The NPDES industrial permit holder may receive fifty (50) percent credit for compliance with the NPDES industrial credit. However if the property meets other available credit criteria a total aggregate credit of seventy-five (75) percent may be achieved.
  6. Ongoing Yearly Inspection Reports are required to receive the credit. The applicant must re-certify by July 1 of each year by providing the Department of Public Works & Engineering the most current Yearly Inspection Report. During re-application a Yearly Inspection Report will not be required.

## 2.6 Direct Discharge Credit – Maximum 25%

A Direct Discharge Credit is available to “other developed lands” if stormwater runoff is generated on the property immediately adjacent to a stream and flows directly to the waterbody. The following minimum criterion must be met:

1. Stormwater runoff generated on the property **cannot** flow within, across, through, or underneath areas which:
  - a. Are located within publicly dedicated streets, rights-of-way, and easements;
  - b. Are subject to publicly dedicated easements, easements-by-use, rights-of-entry, rights-of-access, rights-of-use, or other permanent provisions of adequate access of operation, maintenance, and/or improvement of systems and facilities; or
2. Properties must have implemented and/ or maintained a Water Quality Buffer along the waterbody. Water Quality Buffer requirements can be found in Title 6 Chapter 15 “Stormwater Management” of the Alcoa Municipal Code and the Stormwater Management Manual.
3. Waterbodies that qualify for the Direct Discharge Credit are as follows:
  - a. Pistol Creek
  - b. Culton Creek
  - c. Springfield Branch
  - d. Russell Branch
  - e. Polecat Creek
  - f. Duncan Branch
  - g. Laurel Bank Branch
  - h. Lackey Creek
  - i. Little River



4. Applicants approved for the Direct Discharge credit will receive a maximum of twenty-five (25) percent credit to the assessed stormwater utility fee for that property.
5. Credit will be proportional to the property area draining to the waterbody.

## **2.7 Education Credit – Maximum 25%**

The education credit is available to elementary and/or secondary schools that educate and inform their students about the importance of our natural water resources using an approved stormwater curriculum. The rationale behind this credit is that the information provided by the school(s) will translate into appreciation and stewardship of our water resources and thereby reduce negative impacts that result from an uninformed citizenry.

Polices specific to the Education Credit are as follows:

1. The Education Credit is available to both public and private schools located in the City of Alcoa.
2. To be eligible for the credit, the school must teach a water resource-based curriculum that is approved by the Department of Public Works & Engineering. With input from the applicant school the City will base approval on the sufficiency of the curriculum to meet State standards and for City compliance with NPDES Phase II MS4 permit requirements.
3. The individual school may receive a maximum of 25% credit to the utility fee for the education credit. However, if the school meets other credit criteria a total aggregate credit of 75% may be achieved. The credit will be applied to the school property only. (e.g., if Alcoa Elementary School is teaching the approved curriculum the credit will be applied only to that property).
4. The Director of Schools will be required to re-certify annually, before July 1, to the Department of Public Works & Engineering, the extent to which the curriculum was taught during the previous school year. The previous year will determine the percent credit for the following year.

## **3.0 Application Procedure and Process for Stormwater Utility Fee Credits**

The Applicant for stormwater utility fee credits will be required to go through the following general steps as shown on Figure 3.0.

### **3.0.1 Pre-design Meeting**

Prior to the design of a stormwater facility or other stormwater programs, the design engineer or other responsible party must hold a pre-design conference with the Department of Public Works & Engineering staff to discuss system / program requirements, standards & specifications, available credits as well as any coordination or other issues related to the proposed design. The design engineer must be licensed to practice in the State of Tennessee.



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### **3.0.2 Application for Credit and Plans / Calculations Submittal**

Once the pre-design meeting is completed, the applicant may apply for the appropriate credit(s) using the forms in Appendix 2 and checklists as provided in the Stormwater Management Manual.

### **3.0.3 Site Plan and Information / Calculations Review**

When construction and/or modification of structural facilities are required, Public Works & Engineering will review the submitted site plan and/or calculations for all required information. Once reviewed, a review sheet will be e-mailed or faxed to the design engineer and owner/developer either stating approved or denied with required information listed on the review. New development retrofits or existing stormwater facilities work that is part of a larger development may be required to be approved by the Planning & Codes department before construction can begin.

### **3.0.4 Pre-Construction Conference**

When construction is required and upon approval of plans, a pre-construction conference will be held with Public Works & Engineering and other City departments for projects that require a grading permit. The contractor and project owner / developer must be in attendance. Submittals will be required for infrastructure to be dedicated to the City, in the right of way or a proprietary stormwater device as defined in this manual.

### **3.0.5 EPSC Installation and Inspection**

Before grading can commence, erosion prevention and sediment control (EPSC) measures must be installed and inspected according to the approved site plan and as specified Title 16, Chapter 5 of the Alcoa Municipal Code.

### **3.0.6 Grading Permit**

Once the EPSC measures are approved a grading permit will be issued. Minimum weekly inspections will occur for sediment & erosion control and other stormwater facilities as necessary.



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### **3.0.7 As-Built / Certification / Maintenance Covenants**

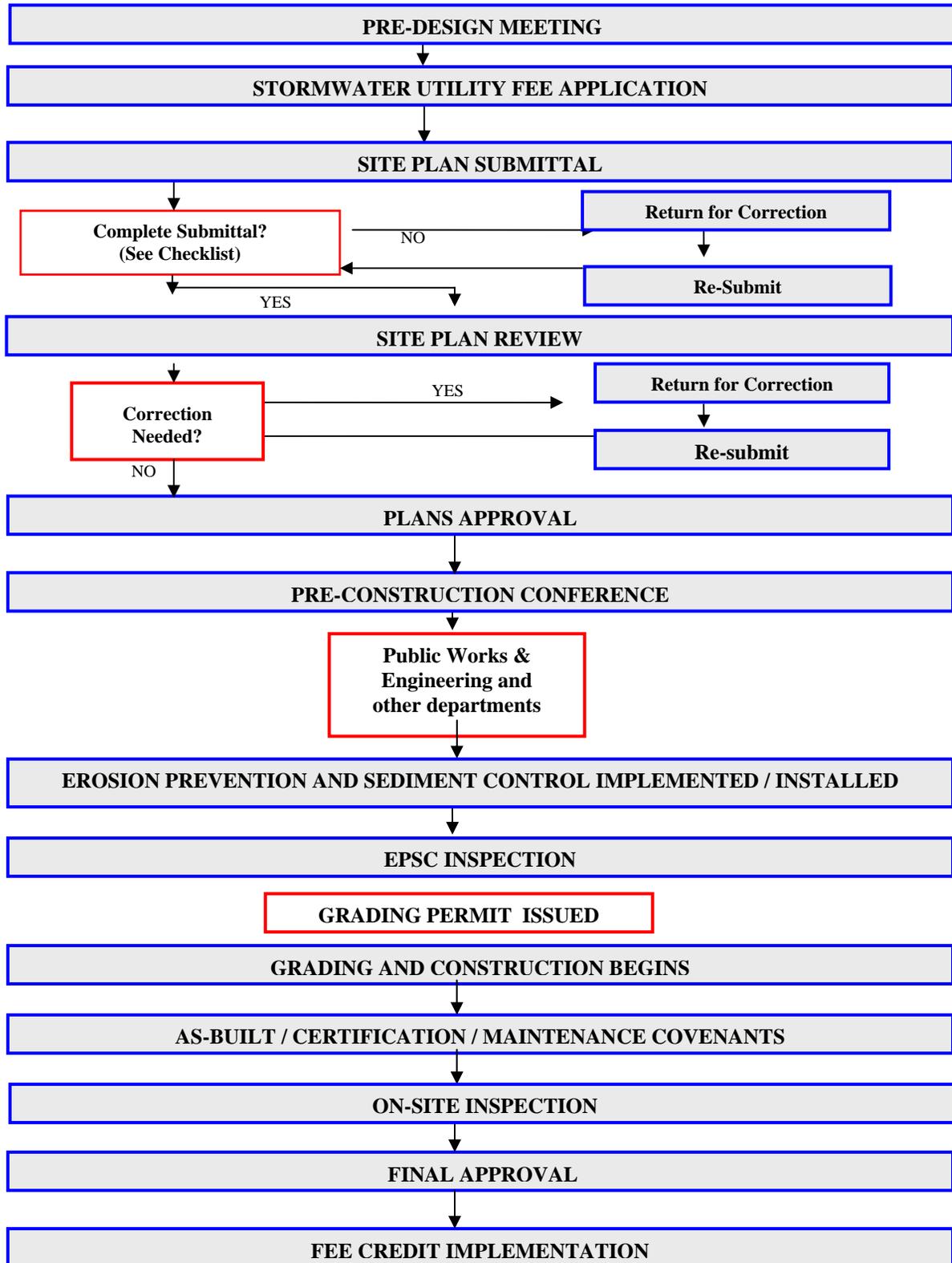
Stormwater facility as-builts, certification, and maintenance covenants will be required to be completed and executed before final approval of stormwater utility fee credit. If the project is part of a new development/ redevelopment, stormwater management facilities certification and/or maintenance covenants will be required before final Certificate of Occupancy and/or final plat is released.

### **3.0.8 Final Approval and Fee Credit Implementation**

After all City requirements are met final approval will be granted and the utility credit will be implemented on the next months billing cycle.

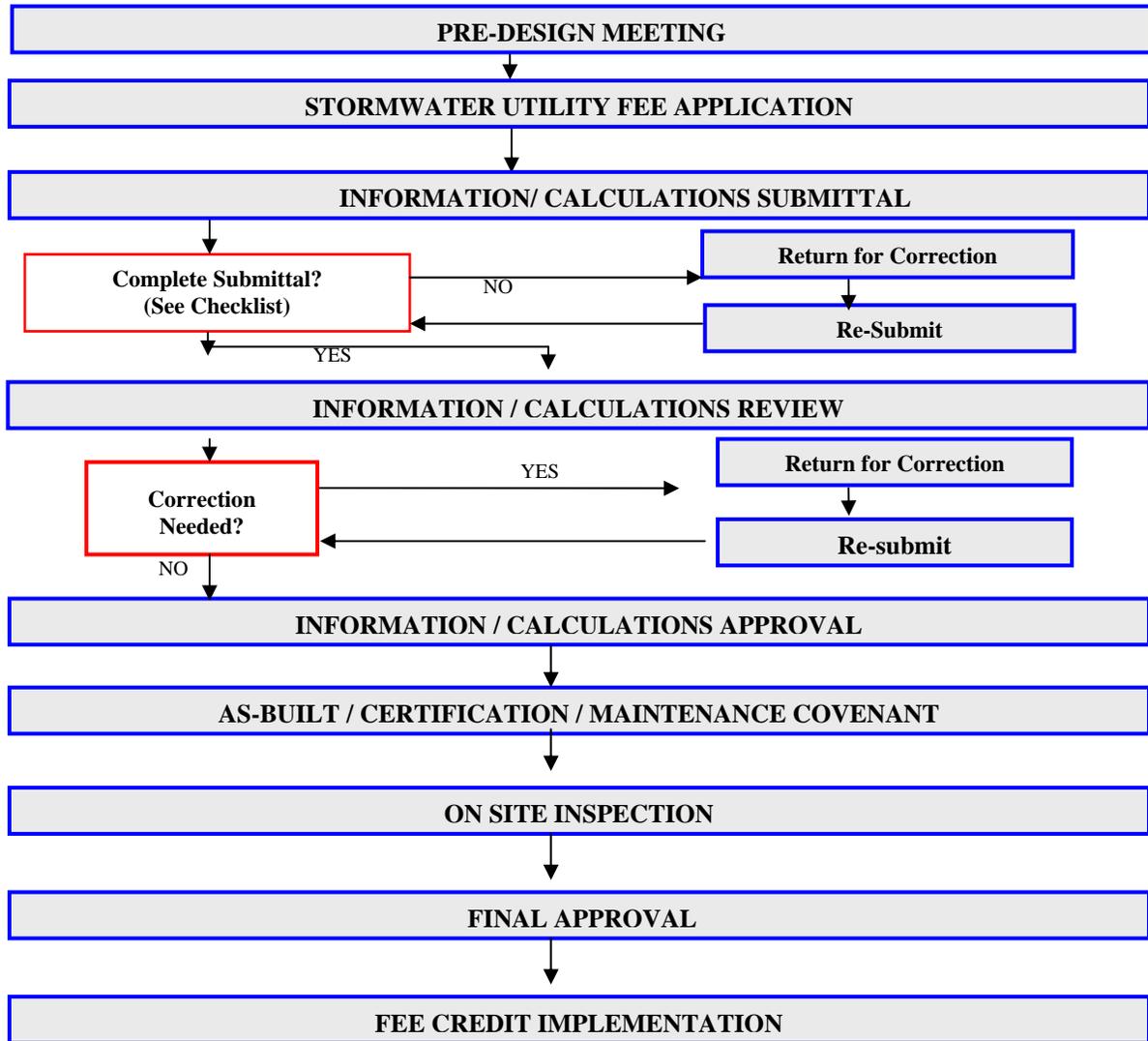


**FIGURE 3.0**  
**Application Procedure and Process for Stormwater Utility Fee Credits**  
**New Development, Redevelopment & Retrofits**





**FIGURE 3.1**  
**Application Procedure and Process for Stormwater Utility Fee Credits**  
**Exiting Stormwater Management Facilities**





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## **4.0 Stormwater Utility Fee Appeals and Adjustments Procedure**

Any stormwater utility customer who believes the calculation of the stormwater utility fee to be in error may apply for a utility fee adjustment to the Director of Public Works & Engineering using the ERU Adjustment Application. The Director of Public Works & Engineering or his designee will conduct a review of the property and provide a written response within sixty (60) days. All decisions from Public Works & Engineering will be in writing and sent to the address as shown on the ERU Adjustment Form in Appendix 2.

A decision by Public Works & Engineering may be further appealed to the Alcoa Stormwater Board of Appeals, within sixty (60) days of the date of notice of the decision, by filing a written request for a hearing using the Request for Appeal form in Appendix 2.

The request for appeal by the Alcoa Stormwater Board of Appeals shall state the specific reasons why the decision of the Director of Public Works & Engineering is alleged to be in error, and shall be accompanied by a bond in the amount of five hundred dollars (\$500.00) with sufficient surety to secure the costs of the appeal, including the cost of court reporters, transcripts, plan reviews, and other costs. The Alcoa Stormwater Board of Appeals shall make its findings within five (5) business days after the appeal hearing. The decisions of the committee are final and conclusive, but may be reviewed through the appropriate court actions.

Once the completed request of appeal is approved, all adjustments in the stormwater utility fee will be reflected during the next months billing cycle.

Stormwater utility fee appeals shall follow the provisions as stated in Title 18, Chapter 8, Section 18-817 of the Alcoa Municipal Code, “Rules, Rates, and Fees for the Stormwater Utility”.

### **4.1 Additional Stormwater Adjustments**

In addition to adjustments based on errors in impervious area calculation, adjustments may also be given when an owner meets any of the following requirements:

1. Owner demonstrates that rainfall occurs on an impervious area that does not generate runoff (has no outlet), is completely watertight, and has at least two (2) feet of freeboard. The purpose of this adjustment is to credit unusual structures, such as swimming pools, hazardous material storage areas, etc. For these specific cases, a customer’s ERUs will be adjusted by removing the amount of impervious area that does not generate runoff. This may require registered professional engineering calculations.
2. Owner demonstrates that on-site gravel is not compacted, not used for vehicular traffic, and is pervious. The City may grant adjustments for non-compacted gravel areas used for landscaping or other purposes.
3. Developed property having stormwater that discharge into a zero-discharge pond, sinkhole, or impounded reservoir of the Tennessee Valley Authority without traveling through, over, or benefiting from any portion of the City’s stormwater system shall be exempt from paying the stormwater utility fee. Adjustments will be granted only for that



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portion of the property's impervious surface area that does not discharge through the City's stormwater/flood control facilities.

# **APPENDIX 1**

- **Stormwater Utility Fee Schedule (Resolution R08-112)**

RESOLUTION NO. R08-112

A RESOLUTION ESTABLISHING STORMWATER UTILITY FEES AS PROVIDED IN SECTION 18-809 OF TITLE 18, CHAPTER 8, OF THE ALCOA MUNICIPAL CODE ENTITLED "RULES REGULATIONS, RATES, AND FEES FOR THE STORMWATER UTILITY"

WHEREAS, the City of Alcoa operates its separate storm sewer systems as a utility for the use and benefit of its customers; and,

WHEREAS, the efficient and equitable operation of such utility systems requires the promulgation of certain ordinances, rules, and regulations to ensure the same; and,

WHEREAS, said ordinances, rules, and regulations include certain fees for the recovery of costs associated with the delivery of such services; and,

WHEREAS, the City is desirous of establishing such fees as they apply to residential, commercial, and industrial customers of the City that are connected to and/or benefit from the operation of its storm sewer systems.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the City of Alcoa, as follows:

SECTION 1. The median Equivalent Residential Unit (ERU) of 2,696 square feet has been established for the calculation of Stormwater Fees within the corporate limits of the City of Alcoa.

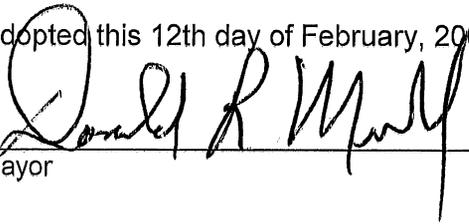
SECTION 2. As outlined in Title 18, Chapter 8, of the Alcoa Municipal Code, the following rates and charges shall apply:

- A. For billings calculated on or after April 1, 2008:
  - a. Detached Dwelling Unit - \$3.00 per month
  - b. Other Developed Land – Prorated at \$4.00 per ERU per month with a minimum charge of one (1) ERU per month.
  
- B. For billings calculated on or after January 1, 2009:
  - a. Detached Dwelling Unit - \$4.00 per month.
  - b. Other Developed Land – Prorated at \$5.00 per ERU per month with a minimum charge of one (1) ERU per month.
  
- C. For billings calculated on or after January 1, 2010:
  - a. Detached Dwelling Unit - \$4.00 per ERU per month according to the following schedule:

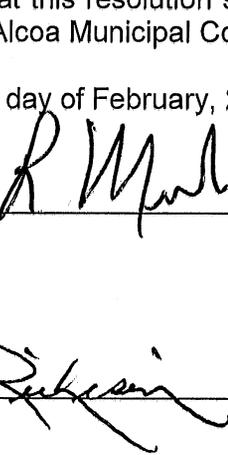
i. Class I	0 – 1.0 ERU	\$4.00 / month
ii. Class II	>1.0 – 1.5 ERU	\$6.00 / month
iii. Class III	>1.5 – 2.0 ERU	\$8.00 / month
iv. Class IV	>2.0 – 2.5 ERU	\$10.00 / month
v. Class V	>2.5 ERU	\$12.00 / month
  - b. Other Developed Land – Prorated at \$6.00 per ERU per month with a minimum charge of one (1) ERU per month.

SECTION 3. That this resolution shall take effect forthwith upon the final passage of Title 18, Chapter 8 of the Alcoa Municipal Code, the public welfare requiring it.

Adopted this 12th day of February, 2008.

  
\_\_\_\_\_  
Mayor

ATTEST:

  
\_\_\_\_\_  
Recorder

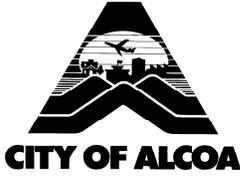
APPROVED AS TO FORM:

  
\_\_\_\_\_  
City Attorney

## **APPENDIX 2**

### **APPLICATIONS AND FORMS**

- Stormwater Utility Fee Credit Application
- ERU Adjustment Application
- Request for Appeal



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Application

**Property Information**

PLEASE PRINT

Name of Business/Entity: \_\_\_\_\_

Name of Property Owner: \_\_\_\_\_

Address of Property Owner: \_\_\_\_\_

Property Owner Contact Numbers: Day: \_\_\_\_\_ Cell: \_\_\_\_\_ Fax: \_\_\_\_\_

Property Address: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

Property Tax Information: Control Map \_\_\_\_\_ Group \_\_\_\_\_ Parcel \_\_\_\_\_ (if known)

Stormwater Utility Account Number: \_\_\_\_\_

**Applicant Information (if different from property owner)**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

Applicant Contact Numbers: Day: \_\_\_\_\_ Cell: \_\_\_\_\_ Fax: \_\_\_\_\_

Type of Credit Applied for (check all that apply)

Quantity \_\_\_\_\_ Quality \_\_\_\_\_ Education \_\_\_\_\_ TMSP \_\_\_\_\_ NPDES \_\_\_\_\_ Direct Dis. \_\_\_\_\_

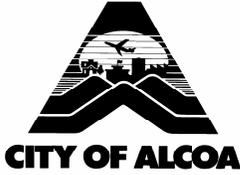
I hereby request the City of Alcoa review this application for a stormwater fee credit. I further authorize the City of Alcoa to inspect the stormwater facility(ies) identified in this application for the purpose of assessment for a stormwater utility fee credit. I certify that I have authority to make such a request and grant such authority for this property. The attached information is true and correct to the best of my knowledge and belief. I agree to provide corrected information to the City of Alcoa Department of Engineering & Public Works should be there be any change in the information provided herein.

Signature: \_\_\_\_\_ Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

*For City use only / Do not mark in this space*

Control No. \_\_\_\_\_ GIS Link \_\_\_\_\_ Date Received: \_\_\_\_\_ Int. \_\_\_\_\_



## City of Alcoa, Tennessee ERU Adjustment Application

### **Property Information**

PLEASE PRINT

Property Owner\*: \_\_\_\_\_

Contact Persons (if different from owner) : \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Address from Utility Bill: \_\_\_\_\_

Property Owner Contact Numbers: Day: \_\_\_\_\_ Evening: \_\_\_\_\_ Cell: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ Utility Account Number: \_\_\_\_\_

\* Must match owners name in Assessor's parcel database

### **Type of Development**

Detached Dwelling Unit     Multiple Dwelling Units     Other Developed Land

I hereby request the City of Alcoa review this application for a stormwater utility fee adjustment. I certify that I have authority to make such a request and grant such authority for this property. The attached information is true and correct to the best of my knowledge and belief. I agree to provide corrected information to the City of Alcoa Department of Public Works & Engineering should there be any change in the information provided herein.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*For City use only / Do not mark in this space*

Control Number \_\_\_\_\_ GIS Link \_\_\_\_\_ Date Received: \_\_\_\_\_ Int. \_\_\_\_\_

Community Area \_\_\_\_\_ C.O.A. Median Impervious Area \_\_\_\_\_

Impervious Area of Property \_\_\_\_\_ ERU of Property \_\_\_\_\_

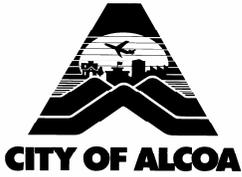
Adjusted Impervious Area of Property \_\_\_\_\_ New ERU of Property \_\_\_\_\_

Existing User Class \_\_\_\_\_ New User Class (if applicable) \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: \_\_\_\_\_ Signature \_\_\_\_\_



## City of Alcoa, Tennessee Request for Appeal

### **Property Information**

*PLEASE PRINT*

Control Number \_\_\_\_\_

Property Owner\*: \_\_\_\_\_

Contact Persons (if different from owner) : \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Address from Utility Bill: \_\_\_\_\_

Property Owner Contact Numbers: Day: \_\_\_\_\_ Evening: \_\_\_\_\_ Cell: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ Utility Account Number: \_\_\_\_\_

\* Must match owners name in Assessor's parcel database

Type of Development:

Detached Dwelling Unit    Multiple Dwelling Units    Other Developed Land

Reason for Appeal: (Attach a copy, ruling, interpretation, order, City provision, or applicable City Code exemption.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*For City use only / Do not mark in this space*

The Appeal has been reviewed by the City of Alcoa Stormwater Board of Appeals (ASBA) on \_\_\_\_\_,  
\_\_\_\_\_ 20\_\_\_\_. The ASBA  Approved  Denied the requested appeal.

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

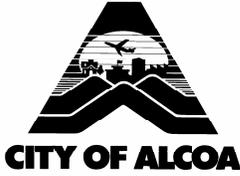
Name: \_\_\_\_\_ Signature \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX 3**

### **STORMWATER BMP CERTIFICATION**

- Stormwater Utility Fee Credit Certification Form  
Detention / Retention Pond Facility (Quantity)
- Stormwater Utility Fee Credit Review Form  
Detention / Retention Pond Facility
- Stormwater Utility Fee Credit Certification Form  
Water Quality Facility
- Stormwater Utility Fee Credit Review Form  
Water Quality Facility
- Stormwater Utility Fee Credit Certification Form  
Education Credit
- Stormwater Utility Fee Credit Certification Form  
TMSP / Industrial NPDES Credit
- Stormwater Utility Fee Credit Certification Form  
Direct Discharge Credit



City of Alcoa, Tennessee  
 Stormwater Utility Fee Credit Certification Form  
 Detention / Retention Pond Facility (Quantity)

**Detention / Retention Information** Control No. \_\_\_\_\_ Account No. \_\_\_\_\_  
 (Attach detailed detention / retention calculations including summary of as-built volume calculations)

Site Name: \_\_\_\_\_ Facility Type:  New  Existing  Retrofit

**As-Built Design Summary** (All designed values shall be taken from an approved set of plans / calculations. *As-built information shall be completed by a Tennessee Registered Land Surveyor.*)

Design Storm	As-Built Surface Elevation	Pre-Development Flow Rate	Post Development Flow Rate	Routed Peak Outflow Design	Routed Peak Outflow As-Built
1-Year					
2-Year					
5-Year					
10-Year					
20-Year					
50-Year					
100 -Year					

*Retention pond:*

Designed Permanent Pool Elev.	As-Built Permanent Pool Elev.
Designed Wet-Pond Volume	As-Built Wet-Pond Volume

*Retention / Detention Pond:*

Designed Freeboard	As-Built Freeboard
Designed Storage Volume	As-Built Storage Volume
Designed Outlet Device Type	As-Built Outlet Device Type
Specified Erosion Control Material for Pond	As-Built Erosion Control Material for Pond

Comments:

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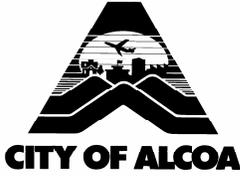


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By placing my seal and signature, I certify that this detention / retention pond was constructed to the as-built information and meets the design engineers' criteria as according to the approved plans and drainage calculations.

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
 Stormwater Utility Fee Credit Review Form  
 Detention / Retention Pond Facility (Quantity)

*For City use only / Do not mark in this space*

Site Name: \_\_\_\_\_

Control No. \_\_\_\_\_ Structure No. \_\_\_\_\_ Account No. \_\_\_\_\_

Date Received \_\_\_\_\_ Date Returned \_\_\_\_\_

**Facility Information:**

Facility Type:  New  Existing  Retrofit

Credit Components:

Design Storm	Pond Credit	YES / NO	Area of Property / Parcel ( $A_{\text{parcel}}$ ) _____
2-Year	4%		Total Impervious Area ( $A_{\text{imp}}$ ) _____
5-Year	4%		Area Draining to Pond ( $A_{\text{pond}}$ ) _____
10-Year	4%		Total Pond Credit ( $T_{\text{pc}}$ ) _____
25-Year	5%		
50-Year	4%		
100-Year	4%		

*Site Calculations:*

Percent Area Draining to Pond ( $D_p$ ) = ( $A_{\text{pond}} / A_{\text{parcel}}$ ) = \_\_\_\_\_

Adjusted Quantity Credit = ( $D_p$ ) \* ( $T_{\text{pc}}$ ) \* 100 = \_\_\_\_\_

*Misc. Requirements (if applicable):*

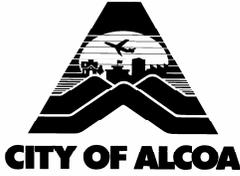
- Maintenance Agreement Signed / Executed
- As-Built Site Verification Inspector: \_\_\_\_\_ Date: \_\_\_\_\_
- Master Account File Revised by: \_\_\_\_\_ Date: \_\_\_\_\_
- Drainage Easement Recorded, Book \_\_\_\_\_ & Page \_\_\_\_\_
- Other \_\_\_\_\_

Facility approved to receive credit  Yes  No

If No, provide brief explanation for denial:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Reviewer: \_\_\_\_\_ Date \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Certification Form  
Stormwater Quality Facility

**Stormwater Quality Facility Information**

Control No. \_\_\_\_\_ Account No. \_\_\_\_\_

Site Name: \_\_\_\_\_ Facility Type:  New  Existing  Retrofit

**Quality Facility Description** (*Attach additional sheets / plans/ detailed calculations, if necessary*)

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**As-Built Design Summary** (All designed values shall be taken from an approved set of plans / calculations. *As-built information shall be completed by a Tennessee Registered Land Surveyor.*)

- As-built design summary / calculations / plans attached to certification form.  
 Other \_\_\_\_\_

Comments:

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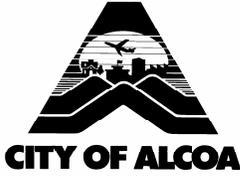
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By placing my seal and signature, I certify that the stormwater quality facility(ies) was constructed to the as-built information and meets the design engineers' criteria as according to the approved plans and design calculations.

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Review Form  
Stormwater Quality Facility

*For City use only / Do not mark in this space*

Site Name: \_\_\_\_\_

Control No. \_\_\_\_\_ Structure No. \_\_\_\_\_ Account No. \_\_\_\_\_

Date Received \_\_\_\_\_ Date Returned \_\_\_\_\_

**Facility Information:** *(Show / attach calculations demonstrating amount of credit reduction)*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Misc. Requirements (if applicable):*

- Maintenance Agreement Signed / Executed
- As-Built Site Verification Inspector: \_\_\_\_\_ Date: \_\_\_\_\_
- Master Account File Revised by: \_\_\_\_\_ Date: \_\_\_\_\_
- Drainage Easement Recorded, Book \_\_\_\_\_ & Page \_\_\_\_\_
- Other \_\_\_\_\_

Site Calculation:

Area of Property / Parcel ( $A_{\text{parcel}}$ ) \_\_\_\_\_ Total Impervious Area ( $A_{\text{imp}}$ ) \_\_\_\_\_

Area Draining to BMP ( $A_{\text{bmp}}$ ) \_\_\_\_\_ Total BMP Credit ( $T_{\text{bmp}}$ ) \_\_\_\_\_

Percent Area Draining to BMP ( $D_{\text{bmp}}$ ) = ( $A_{\text{pond}} / A_{\text{parcel}}$ ) = \_\_\_\_\_

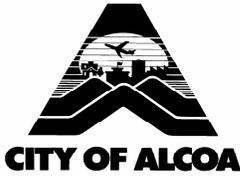
Adjusted Quality Credit = ( $D_{\text{bmp}}$ ) \* ( $T_{\text{bmp}}$ ) \* 100 = \_\_\_\_\_

Facility approved to receive credit  Yes  No

If No, provide brief explanation for denial:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Certification Form  
Education Credit

**Site Information**

PLEASE PRINT

Property Name: \_\_\_\_\_

Control No. \_\_\_\_\_ Account No. \_\_\_\_\_

**Education Curriculum Description**

*(Attach a description of the stormwater education curriculum being taught at this property. Include grade(s), and number of students taught, number of instructress teaching the curriculum, teacher training requirements, educating tools used, etc..)*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*For City use only / Do not mark in this space*

Site Calculations:

Total Education Credit ( $T_{bmp}$ ) \_\_\_\_\_ Total Number Students \_\_\_\_\_

Total Number Students Taught \_\_\_\_\_

Percent Students Educated ( $P_{bmp}$ ) = ( $S_{tot} / S_{ed}$ ) = \_\_\_\_\_

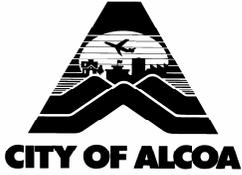
Adjusted Education Credit = ( $T_{bmp}$ ) \* ( $P_{bmp}$ ) \* 100 = \_\_\_\_\_

Facility approved to receive credit  Yes  No

If No, provide brief explanation for denial:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Certification Form  
TMSP / Industrial NPDES Credit

**Site Information**

PLEASE PRINT

Property Name: \_\_\_\_\_

Control No. \_\_\_\_\_ Account No. \_\_\_\_\_

Type of Credit Applied for (check all that apply) TMSP \_\_\_\_\_ Industrial NPDES \_\_\_\_\_

**Credit Description** (Attach required information)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*For City use only / Do not mark in this space*

*Site Calculations:*

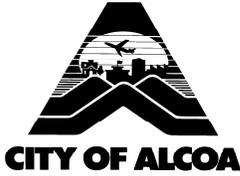
TMSP Credit \_\_\_\_\_ Industrial NPDES Credit \_\_\_\_\_

Facility approved to receive credit  Yes  No

If No, provide brief explanation for denial:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Certification Form  
Direct Discharge

**Stormwater Direct Discharge Information**

Control No. \_\_\_\_\_ Account No. \_\_\_\_\_

Site Name: \_\_\_\_\_ Facility Type:  New  Existing  Retrofit

**Facility Description** (*Attach additional sheets / plans/ detailed calculations, if necessary*)

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**As-Built Design Summary** (All designed values shall be taken from an approved set of plans / calculations. *As-built information shall be completed by a Tennessee Registered Land Surveyor.*)

- As-built design summary / calculations / plans attached to certification form.  
 Other \_\_\_\_\_

Comments:

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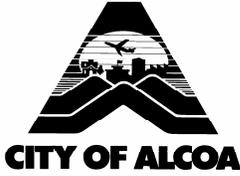
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By placing my seal and signature, I certify that the stormwater quality facility(ies) was constructed to the as-built information and meets the design engineers' criteria as according to the approved plans and design calculations.

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



City of Alcoa, Tennessee  
Stormwater Utility Fee Credit Review Form  
Direct Discharge

*For City use only / Do not mark in this space*

Site Name: \_\_\_\_\_

Control No. \_\_\_\_\_ Account No. \_\_\_\_\_

Date Received \_\_\_\_\_ Date Returned \_\_\_\_\_

**Facility Information:** *(Show / attach calculations demonstrating amount of credit reduction)*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Misc. Requirements (if applicable):*

- Maintenance Agreement Signed / Executed  
 As-Built Site Verification Inspector: \_\_\_\_\_ Date: \_\_\_\_\_  
 Master Account File Revised by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Drainage Easement Recorded, Book \_\_\_\_\_ & Page \_\_\_\_\_  
 Other \_\_\_\_\_

Site Calculation:

Area of Property / Parcel ( $A_{\text{parcel}}$ ) \_\_\_\_\_ Total Impervious Area ( $A_{\text{imp}}$ ) \_\_\_\_\_

Area Draining to WQB ( $A_{\text{bmp}}$ ) \_\_\_\_\_ Total WQB Credit ( $T_{\text{bmp}}$ ) \_\_\_\_\_

Percent Area Draining to WQB ( $D_{\text{bmp}}$ ) = ( $A_{\text{pond}} / A_{\text{parcel}}$ ) = \_\_\_\_\_

Adjusted Direct Discharge Credit = ( $D_{\text{bmp}}$ ) \* ( $T_{\text{bmp}}$ ) \* 100 = \_\_\_\_\_

Facility approved to receive credit  Yes  No

If No, provide brief explanation for denial:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_