

Principles of Sound Water Management

Water Policies Chapter

Presented by

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City Council Work Session

January 28, 2014

Utilities Integrated Master Plan

Chapter 1 - Water Policies Chapter

Tonight's Objectives:

1. Remaining Policy – did we get language right?
E4. Service Outside City Limits
2. Parking Lot Item
Septage, Grease & Mud Hauling
3. Review of Red-Line Policy Document
dated January 28, 2014



Infrastructure

Policy E4 Service Outside City Limits:

Policy E4.1 City will consider out of City requests for service from customers in Unincorporated County areas that are located within or contiguous to the City of Flagstaff incorporated limits using the following criteria:

Strategy E4.1a The Unincorporated County Areas shall agree to be annexed into the City of Flagstaff. **This provision only applies to new customers, existing customers are “grandfathered”**

Strategy E4.1c Water or Sewer main extensions will be permitted only after annexation of the property is completed and approved by the Flagstaff City Council **or property owner has signed a pre-Annexation Agreement.**



Infrastructure

E Infrastructure

Policy E4 Service Outside City Limits:

Policy 4.1

Strategy E4.1f Deviation from this policy will require City Council approval.

Strategy E.4.1g Utility line extensions may require a Water-Sewer Impact Analysis. Requirements for water and sewer extensions shall be outlined within this analysis.



Infrastructure

Policy E4 Service Outside City Limits:

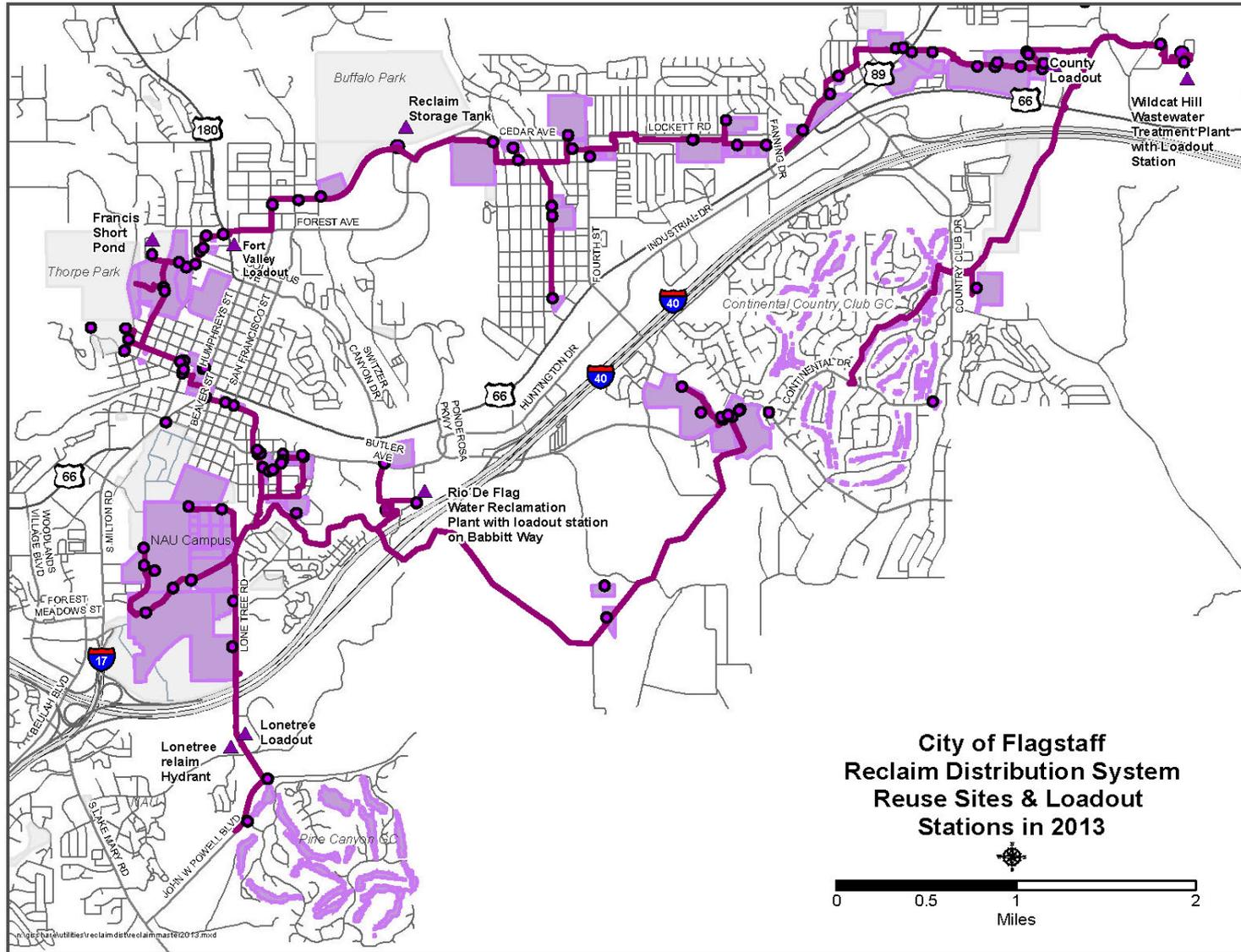
Policy A.4.4 The Utilities Division will review requests for reclaimed main extensions using the following criteria:

Strategy E4.4a Determine if capacity is available and stipulate any necessary requirements for the extensions. Any new service or change in use that will result in increased demands for **reclaimed** water must consider that the change may require additional improvements to the City's reclaimed water system at the owner's/developers expense.

Strategy E4.4b Reclaimed water availability will be determined in Policy B4.6



Reclaimed Water Map



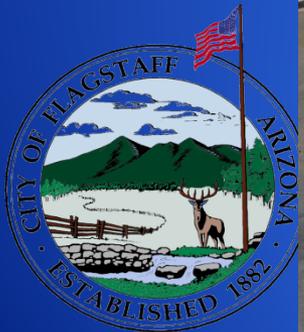
Septage, Grease and Mud Hauling

Wildcat Hill WWTP



Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - **SEPTAGE**



Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - SEPTAGE

“Muffin Monster” pre-treatment
grinds & separates

River trip waste disposal cans



Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - **SEPTAGE**

Septage Hauler truck
~3,000 gallons



Hooked up to Muffin Monster
- internal metering -



Septage, Grease & Mud Hauling

SEPTAGE

- City & County signed an IGA in 1989

- 79% from of septage is from County / 21% from City
- \$162,000 upgrade cost split by percentage
- Length of term in IGA left blank.

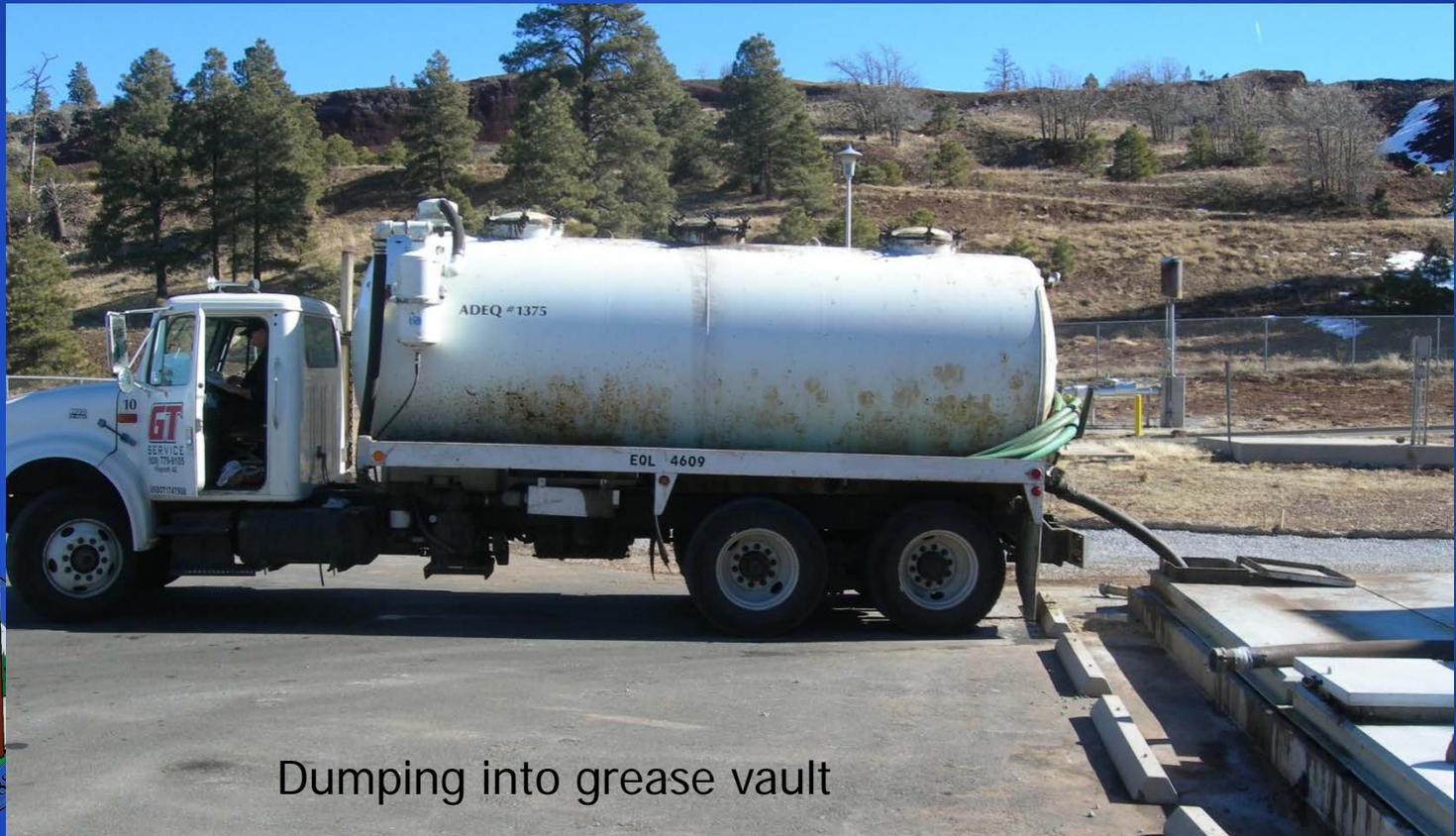
-Service is currently being provided to County-wide residents, including adjacent communities (Sedona, Ash Fork & Seligman)

- *Service upgrades: building for winter conditions, funds for O & M, automated billing services (like Load-Out Stations)*



Septage, Grease & Mud Hauling

Overview of the services the City provides at Wildcat Hill WWTP - **GREASE**



Dumping into grease vault

Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - GREASE

Grease Boiler injects steam
into grease



Grease directly into Digester
with no pre-treatment



Septage, Grease & Mud Hauling

GREASE

- Service is currently being provided within 20-mile radius of City center (restaurants, etc)
- *Service upgrades: building for winter conditions, pre-treatment, metering, automated billing services (like Load-Out Stations)*



Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - [MUD](#)



Mud drying area



Septage, Grease & Mud Hauling

Overview of the services the City provides at
Wildcat Hill WWTP - [MUD](#)



Car wash customer dumping mud



Septage, Grease & Mud Hauling

MUD

- Service is currently being provided for City of Flagstaff business only (car washes, etc)
- All loads pre-inspected by Industrial Waste Section
- *No need for service upgrades*



Septage, Grease & Mud Hauling

Administrative Overview

1. **HAULING AGREEMENTS** – need updating (Water Commission)
2. **Septage/Grease Loading Impact** – need to conduct a study to evaluate the strength (or shock load) & volume impact to plant operations
(pretreatments removed during Valued Engineering in 2006)
3. **RATES** – need to evaluate current rates versus prior User Fee study recommendations conducted in 2006. Should be comparable to other Cities that provide this service

Staff contacted Cities for Septage price comparison

City of Tucson: \$0.19/gallon
City of Sedona: \$0.155/gallon
City of Prescott: \$0.10/gallon
City of Flagstaff: \$0.08/gallon
City of Lake Havasu: \$0.08/gallon



Septage, Grease & Mud Hauling

Recommended Policy Additions

Policy A1 Enterprise Funding: Water – Sewer –
Reclaimed Water Utility

Policy A1.7 The City shall have a goal of full Cost Recovery for
Septage, Grease & Mud hauling that come from within
designated service area limits



Septage, Grease & Mud Hauling

Recommended Policy Additions

Policy E4 Service Outside City Limits:

Policy E5 The Utilities Division will provide Septage, Grease & Mud accepting services to the greater Flagstaff area

Strategy E5.1 Utilities will ensure adequate treatment infrastructure exists to accept Septage and Grease from Flagstaff area business and citizens.

