



Alaska Forum on the Environment
2015

***Can a Rural Alaskan Community Recycle
60% – 70% of its Wastestream?***

**The Gustavus Disposal & Recycling Center
a Community Based Recycling & Balefill
Facility**

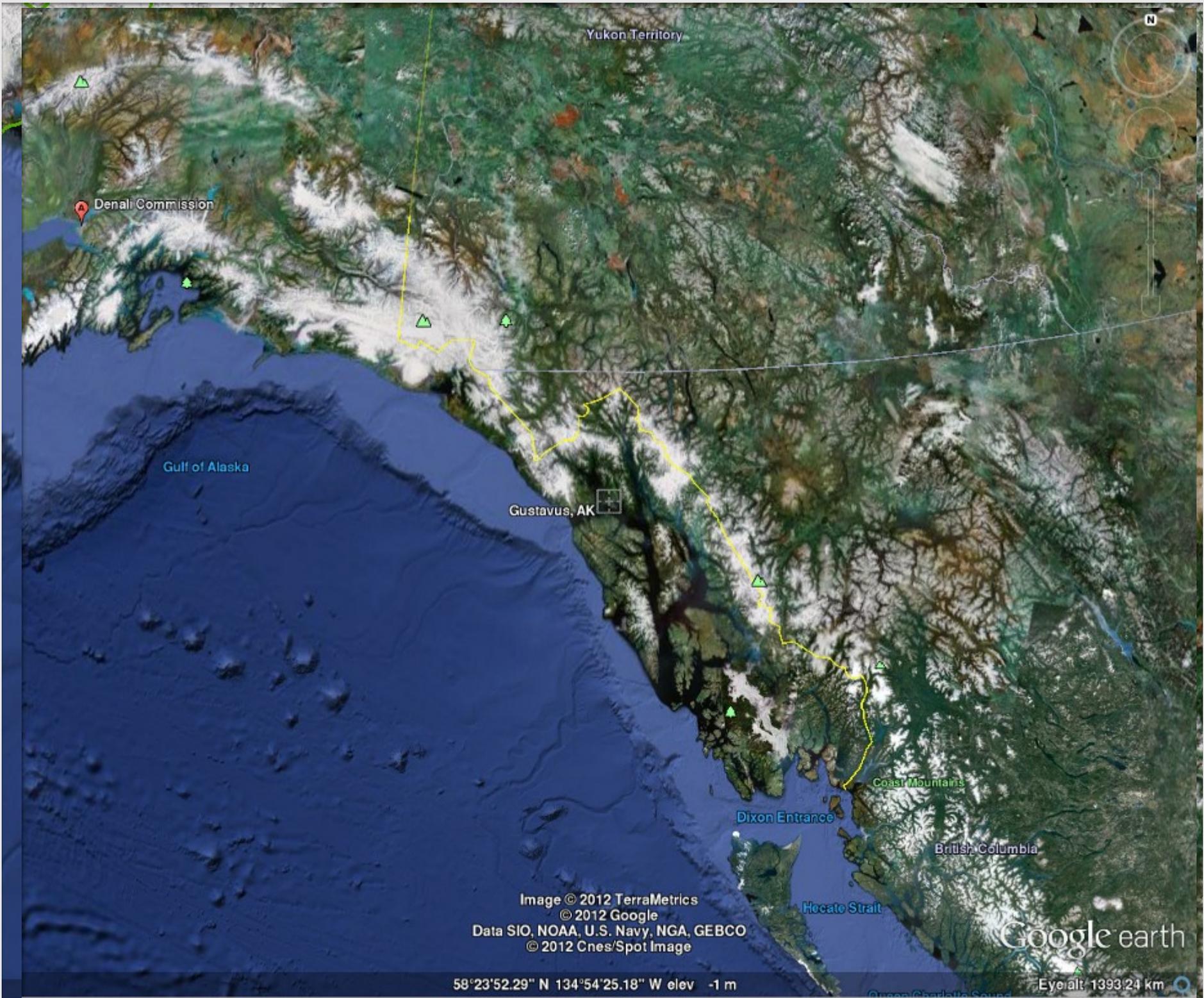
Paul Berry S.C. City of Gustavus

About Me

- Born in Anchorage, raised in Denali & Fairbanks
- Resident of Gustavus since 1984
- Working at the facility since June 1994, 20 years
- SWANA Certified Manager of Landfill Operations since 2006

Gustavus

- Located adjacent to Glacier Bay National Park and about 40 air miles from Juneau, Alaska
- 2nd Class City, 37.7 square mile area
- 442 year round residents (2010 census), many more during the summer months because...
- Gateway community for Glacier Bay National Park. Very large fluctuation in the quantity of waste between summer and winter
- No road links – connected to the rest of Southeast Alaska by an airport and water links. No regular barge service



Yukon Territory

Denali Commission

Gulf of Alaska

Gustavus, AK

Coast Mountains

Dixon Entrance

British Columbia

Hecate Strait

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Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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Google earth

58°23'52.29" N 134°54'25.18" W elev -1 m

Eye alt: 1393.24 km

Disposal & Recycling Center (DRC)

- Owned & operated by the City of Gustavus
- The Thrift Store is an arm of the DRC but is not located at the DRC site
- 12 acre DRC site located in the middle of town. Well drained sandy soil, high water table
- Historical use as a “dump” starting with World War Two (1940s)
- MSW Waste stream (FY14): 130 tons annual – 70% recyclable, 30% non-recyclable. + 143 cubic yards C/D waste (uncompressed)

Thrift Store - the Community Chest















DRC Located Between the Salmon River and State Dock Road



Disposal & Recycling Center (DRC)

- DEC class 3 permitted landfill since 1994
- Baling facility since 1995
- Staffing: one regular, part time Manager/Operator & one temporary, Assistant Operator or Relief Operator (so I can give this talk...)

Main Building (28' W x 50' L)



Site Panorama – Sorting Yard & Balefill



Sorting Yard & Balefill



Food Waste Composting Yard











Customer Flow

- The public & businesses self-haul to the facility
- Pay-as-you-throw (PAYT) facility. Price differential for non-recyclable, recyclable & mixed waste. It is cheaper if you sort it
- Waste is charged by the pound or by volume for non-baleable waste going to the disposal pit
- Certain items are free: Aluminum cans, copper pipe & wire etc. Litter



Gustavus
Disposal &
Recycling Center
(DRC)
Fee Schedule and
Material
Limitations Policy

Rate schedule:
Household: \$2.00 per
cubic yard (includes
up to 100 lbs of
household appliances)
Commercial: \$10.00 per
cubic yard (includes
up to 1000 lbs of
commercial appliances)

What is free:
All household items that
are not hazardous and
do not exceed 100 lbs
per item (including
appliances that
exceed 100 lbs are
charged \$10.00 per
item). Items that
exceed 100 lbs are
charged \$10.00 per
item.

\$2.00 minimum
per
cubic yard (includes
up to 100 lbs of
household appliances)

Exclusions &
Limitations
The following items are
not accepted:
Flammable, volatile
liquids
Hazardous materials
Refrigerators
A/C units
Stoves
Washing machines
Dryers
Water heaters
Boilers
Tanks
Compressors
Refrigeration units
Refrigerators
A/C units
Stoves
Washing machines
Dryers
Water heaters
Boilers
Tanks
Compressors
Refrigeration units

ATTENTION
Customers pay for
everything in a RECK
bag.

15% Fee Increase
Effective
Tuesday, May 17, 2012

0.4
Equipment
PETE
Anna's Volunteer Tue 4-5 PM

DRC Fee Increase
Effective
Tuesday, May 17, 2012

EXIT

RECK
XL EXTENDED LIFE



HELIXIS - 58-3102
Washington Fiscal Services, Inc.
204 E. 9th St.
Tacoma, WA 98402
360-472-6343 (900) 351-2010



Employee Disposal & Recycling Center (EDRC) Fee Schedule and Material Limitations Policy

Technical & Limitations

12.00 per hour

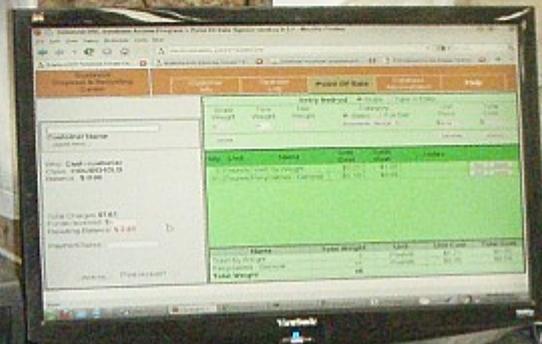
EXIT

Don't forget to...

Computer monitor
Printer
Scanner
Fax machine
Copier

Landfill Waste
0.11

Blue tarp



Customer Flow

- Operator screens waste to determine: What is recyclable? What is baleable? Should non-recyclable waste go into the baler for compaction or into the disposal pit?
- Operator assists customers who are doing their own recycle separation – or they pay extra, a penalty, to have the operator do it



Recyclables
Must Be
Clean

Almost All The Rest Of Your
NUMBERED PLASTIC
~ EXCEPT....
Bags, Motor Oil, Styrofoam
Go To GARBAGE

#2
HDPE
Must Have NECK
No LIDS
All Other #2 Plastics Go To
MIXED PLASTIC

#1
PETE
WATER
SODA
Juice
All Other #1 Plastics Go To
MIXED PLASTIC

Mixed Plastic

Type 2 HDPE

1 PETE

Light
Bulbs

Light Bulbs

Various recycling labels on bins, including a yellow recycling symbol and text like "Mixed Plastic" and "Plastic Bottles".

Orange bucket

Large white plastic bag

Large white plastic bag

Large white plastic bag

Light blue bin

Blue bin

Recyclables
Must Be
Clean

Almost All The Rest Of Your
NUMBERED PLASTIC
~ EXCEPT....
Bags, Motor Oil, Styrofoam
Go To GARBAGE

HDPE Must Have NECK
No LIDS
All Other #2 Plastic Go To
MIXED PLASTIC

PETE WATER
SODA
Juice
All Other #1 Plastics Go To
MIXED PLASTIC

Air Excursions

Mixed Plastic Type 2 HDPE

Scrap Metal

Aerosol Cans

Scrap Metal

Aerosol Cans

Mixed Plastic

Mixed Plastic

Mixed Plastic

Glass Bottles





Metals Recycling

- Aluminum cans, tin cans, scrap metal, wire ...













SMALL DIA CU
1175



Scrap Metal















1405

Scrap Metal





Plastic Recycling

Categories:

- Type 1/PETE Bottles
- Type 2/HDPE Bottles
- Mixed 1 -7 +











G
B





Paper Product Recycling

Categories:

- Cardboard
- Mixed paper
- Hardbound books
- White sheet paper





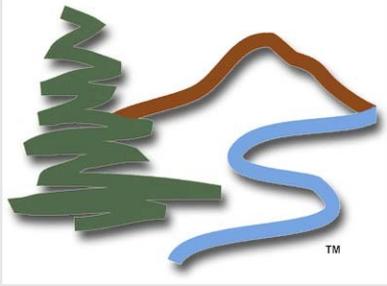
1614



Bale Storage & Shipping







Glass Crushing or Pulverizing of Bottles & Jars











GAME

DANGER
KEEP HANDS
AWAY FROM ALL
MOVING PARTS

CODE P11
SERIAL 10000000000000000000

Glass









Food Waste Composting



GPI DIVISION
HARMONY ENTERPRISES INC.
Harmony, Minnesota 55929

WARNING!
DO NOT OPERATE TO TOWER OR IN
ANY POSITION WITH MACHINE.
PRECAUCION
ESTÁ PROHIBIDO OPERAR CON EL
MOTOR ENCENDIDO EN CUALQUIER POSICIÓN
DE LA MÁQUINA.

CAUTION
DO NOT TAKE MEASURES
WHILE HAZARDOUS CONDITIONS
EXIST. REEVALUATE

**DO NOT
OPEN & RECLOSE
LOWER DOOR
WITH SHIELD IN POSITION**

CAUTION TO AVOID INJURY KEEP HANDS CLEAR
OF MACHINE WHILE IN OPERATION











WARNING
ELECTRIC SHOCK HAZARD





Empty
Food waste

Food waste Buckets
No ashes
No KITTY LITTER
No vacuumbags or floor sweepings
No Poop of any sort
Coffee filters & napkins OK

Sorry
CLOSURE























TROMM 406

SCREEN USA

cat





Universal Waste & Household Hazardous Waste







WIN
THE
OR
OO

F121

PHILIP















Non-Recyclable Trash







CAUTION TO AVOID INJURY KEEP HANDS CLEAR OF MOVING PARTS WHILE IN OPERATION

DO NOT OPEN & PICKUP LOW VOLTAGE



Diapers

Cat Litter

CAUTION
STAY CLEAR OF ROCKERS























What Does the DRC's Future Hold?

- Becoming a transfer station
- Redesign the entire facility: better traffic flow, a larger main building and a mud-free composting yard
- Co-locating the Community Chest and the DRC

Our motto “Sort damn it!” (always said with a smile...)

A facility that recycles a lot of its waste stream will require a lot of labor but will benefit from a big savings of landfill airspace

The more educated the public is on your recycling strategy the less sorting and separating the operator will have to do – **this is a matter of survival**

Be as friendly and consistent as you can with your customers

**For further information about the DRC Please contact:
Paul Berry 907-697-2118 dumpmaster@gustavus-ak.gov
cms.gustavus-ak.gov/government/committees/disposal-recycling-center**