

Consultation on Financing and Governance Options for Backhaul of Hazardous Waste from Remote Alaska Communities

Environmental Finance Advisory Board

February 12, 2020

EFAB Charge Questions - Phase 1

- 1. Fee-based Programs:** What are the best metrics to assess a service fee knowing the unique circumstances and constraints of the backhaul program? Are there other factors that should be considered when designing a fee-based program such that we minimize program administrative costs and maximize village contributions?
- 2. Financing and Funding Options:** Are there other financing or funding options that should be considered beyond a fee? This can include exploring recycling as a commodity, creating a business model or a shared cooperative system.
- 3. Involving Outside Entities:** Are there opportunities to involve outside entities, such as the federal government, industry, or product producers, in paying for backhaul? What might these opportunities look like?

Phase 2 Backhaul Alaska Consultation

Desired Outcome

EFAB will provide financial and organizational advice to ensure the Backhaul Alaska organization is both fiscally sound and resilient to financial and other challenges.

Discussion on finance and governance in three key areas:

1. Structure
2. Organization and Administration
3. Finance and Sustainability

Product

Summary of consultation discussion



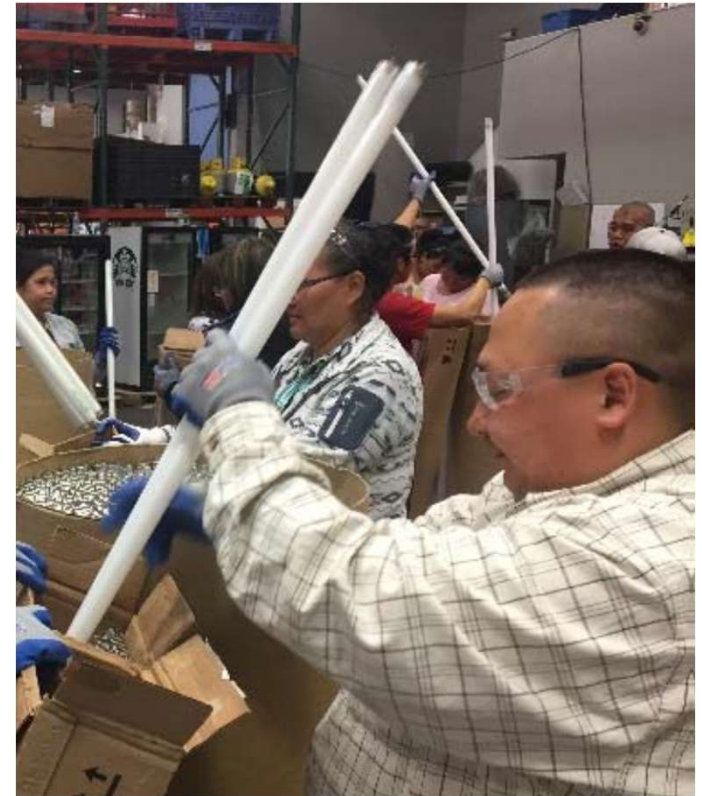
January 30, 2020 Briefing Webinar Topics

Background

- Rural Alaska
- Government and Key Entities
- Cost of Living
- Why is Hazardous Waste Backhaul in Rural Alaska Important?

Program Information

- Alternative Options
- Backhaul Program Basics
- Potential Funding Sources



Questions Raised

- What is EPA's role?
- For the problem, is solution too top down?
- What is the role for native organizations?
- Why are admin costs high, shipping costs low?



Collaborative Effort

Solid Waste Alaska Taskforce

Alaska Department of Environmental Conservation

Alaska Native Tribal Health Consortium

Kawerak, Inc.

Zender Environmental Health and Research Group

Funding

BIA

EPA

US DOT PHMSA

Denali Commission

Engagement

Tribes, municipalities, regional tribal organizations

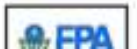
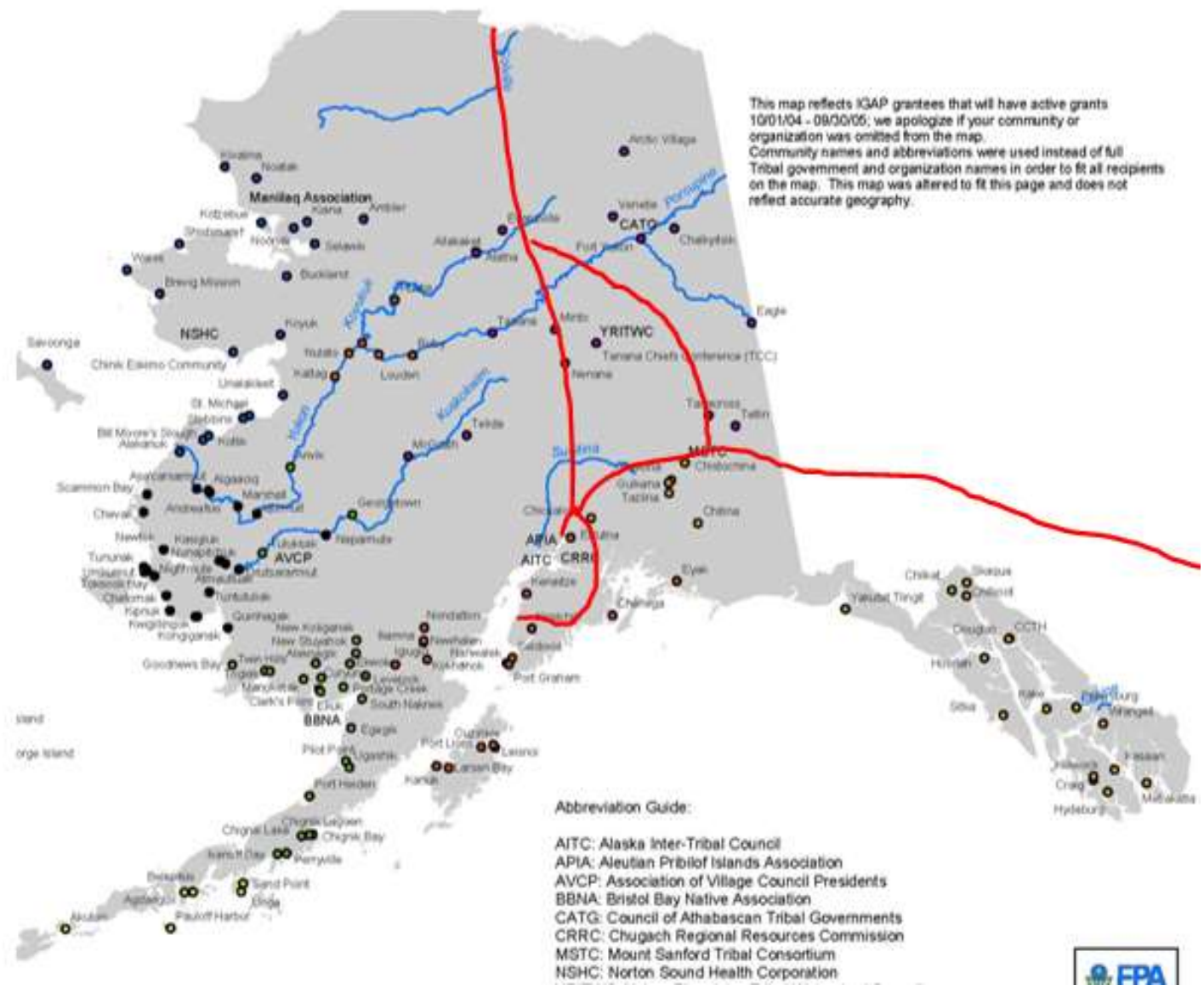
Air carriers, barge companies, recyclers, associations

University of Alaska

State and Federal agencies

Over 200 Alaskan Tribes and Tribal Consortia have funding through EPA's Indian Environmental General Assistance Program (GAP)

Funding per tribe is inadequate to cover needs



About 75% of dump sites are within one mile of the village and water sources



Landfill

Entities in Alaska

Layers of Government

- 114 Municipal Governments
- 229 Federally Recognized Tribes
- 19 Boroughs
- State: Legislative, Judicial, and Executive Branches

Alaska Native Claims Settlement Act (ANCSA)

- 12 Alaska Native Regional Corporations
- 12 Alaska Native Regional Non-profit Organizations
- 200 Alaska Native Village Corporations

Implementation Plan

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Phase	Pilot Phase (25 Villages)			Initial Implementation		Program Growth			Self-Sustaining Program		
Funding	Government DOT, BIA, EPA: IGAP, RCRA, EJ			<ul style="list-style-type: none"> • Fees from contributors to the backhaul waste stream • Recycling income • Donations from industry in-kind services in-village and regional entities • Exploring Extended Producer Responsibility program • Other - TBD 							

Pilot 1 Complete

Pilot 1 Communities

Interior

- 1) Arctic Village
- 2) Venetie
- 3) Nulato

Norton Sound

- 4) Golovin
- 5) Unalkeet
- 6) Alakanuk

Western

- 7) Chefornak

Bristol Bay/Lake & Penn

- 8) Ekwok
- 9) New Stuyahok
- 10) Koliganek

Aleutians

- 11) Unalaska



Total for 2019

Category	Lbs
E-scrap	27,180
Lead Acid	45,108
UW Lamps	956
TOTAL	73,244

Removed from Environment:

21,000 lb plastics containing flame retardants and PFAS
 32,000 lb Lead
 71 lb Mercury
 1 lb Arsenic
 7 lb Cadmium
 5 lb Chromium
 24 lb Barium
 12 lb Beryllium

Pilot 2 Backhaul Summer 2020

Pilot 2 Communities

Northwest Arctic

- 1) Noorvik

Norton Sound

- 2) Shaktoolik
- 3) St. Michael

Western

- 4) Scammon Bay
- 5) Hooper Bay
- 6) Kwigillingok

Bristol Bay/Lake & Penn

- 7) Iliamna
- 8) Ugashik
- 9) Port Heiden
- 10) Chignik Lagoon

Kodiak

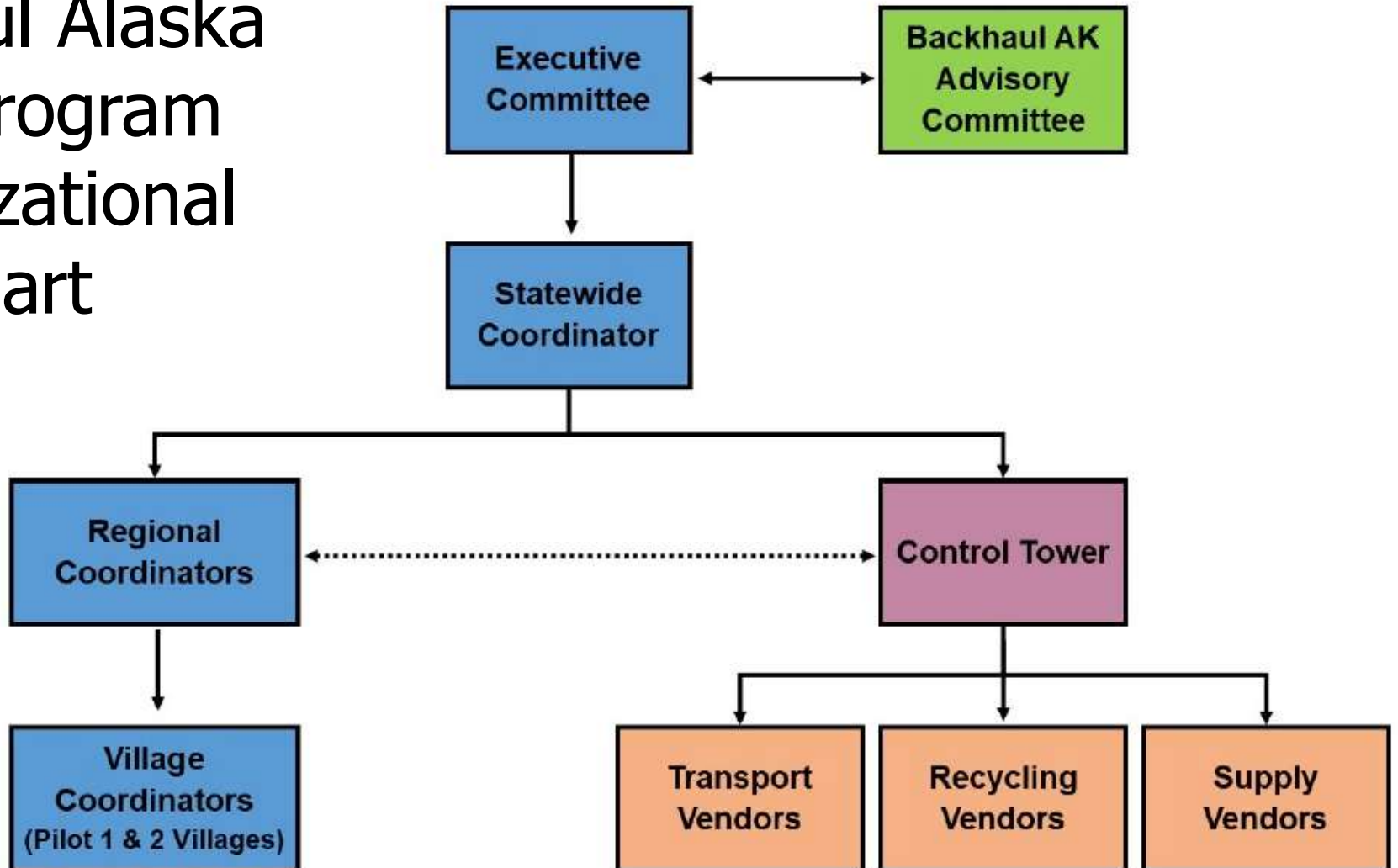
- 11) Port Lions
- 12) Ouzinkie
- 13) Larsen Bay
- 14) Old Harbor



Anticipated Total for 2020

Category	Lbs
E-scrap*	61,695
Lead Acid**	84,760
UW Lamps***	2,740
TOTAL	149,195

Backhaul Alaska Pilot Program Organizational Chart



Projected Costs (preliminary estimates)

Component	2020	2030
Program Operations	\$ 785,825	\$ 1,136,169
Recycling, shipping	\$ 51,107	\$ 557,869
Direct village investment	\$ 181,752	\$ 1,673,716
Administration Indirect	\$ 101,868	\$ 336,775
Total	\$ 1,120,552	\$ 3,704,529
Number of villages	17	162
Per village backhaul costs	\$ 65,915	\$ 22,867
Per person backhaul costs	\$ 218	\$ 66

Note: Program operations include state and regional coordination, training, outreach.
 Village investment includes supplies, labor, O&M

Pilot Program Feedback

“Good afternoon, I just wanted to let you know the trailers that arrived were the best we have ever seen...Thank you for all what a difference you have made!!” – Recycling Vendor



Extended Producer Responsibility (EPR) in Alaska?

- Solid Waste Alaska Taskforce (SWAT) convened a workgroup to develop an Extended Producer Responsibility Program white paper
- Would likely require state legislation
- Generally EPR programs are developed product by product
- SWAT's program proposal focuses on e-waste
- Could bring in new funding for e-waste recycling not only for rural community backhaul, but also for recycling industry in urban centers



ALASKA NATIVE
TRIBAL HEALTH
CONSORTIUM



Consultation

Agenda

Agenda Item	Duration	Time
Introduction	5 min	1:00 pm
Session Orientation	10 min	1:20 pm
Round 1 Small Group Discussion	30 min	1:30 pm
Report Out	25 min	2:00 pm
Break	15 min	2:25 pm
Round 2 Small Group Discussion	20 min	2:40 pm
Report Out	15 min	3:00 pm
Round 3 Small Group Discussion	20 min	3:15 pm
Report Out	20 min	3:35 pm
Discussion	40 min	4:05 pm
Public Comment	15 min	4:45 pm

Thank you

