



RECYCLING COMMISSION MEETING

Wednesday, April 13, 2016, 5:30 p.m. – 7:30 p.m.

Noel Wien Library, Conference Room

AGENDA

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF CONSENT AGENDA

(Approval of Consent Agenda passes all routine items indicated by an asterisk (*) on the agenda. Consent Agenda items are not considered separately unless so requested, in which case the item is returned to the general agenda. Said item will be discussed prior to citizen comment period, or under New Business, at discretion of Chair)

A. *Approval of Agenda

B. *Approval of minutes of 02/10/16 meeting

4. MESSAGES

A. Chairman's comments

I. Discuss FY16 Budget Status

B. Communications to the Recycling Commission

II. Report on progress of shopping bags and outreach program – Becca Brado, Green Star of Interior Alaska

III. Report on K & K Recycling – Kayla MacDonald, K & K Recycling, Inc./Chena Power

IV. Report on progress of RFP (Request for Proposal-Recycling Operator) - Bob Jordan

V. Report on Arctic Winter Games/Legacy Project recycling bins – Deb Hickok

VI. Demonstration on Zero Waste Alaska 3D printing – Chris Hunter, Alliance for Reason and Knowledge

5. CITIZEN COMMENTS

(Note: our policy is to encourage public comment. All items on the agenda will be open for public comment unless otherwise noted. If you would like to comment on any agenda items and cannot stay until such items come up for consideration during the meeting, you may comment at this time. You may also suggest a future agenda item to the commission at this time. Each speaker is limited to 3 minutes, with 30 minutes total time allotted)

A. Agenda items

B. Items not on the agenda

6. UNFINISHED BUSINESS

A. Items on agenda scheduled for public hearing

B. Items on agenda not scheduled for public hearing.

7. NEW BUSINESS/ACTION ITEMS/PUBLIC HEARING ITEMS

A. Items on agenda scheduled for public hearing

B. Items on agenda not scheduled for public hearing

I. Discuss and act upon Application for Special Recycling Projects, Green Star of Interior Alaska (GSIA) Community Recycling Program

II. Discuss and act upon Application for Approved Recycler, GSIA Community Recycling Program

III. Discuss and act upon Alliance for Reason and Knowledge

i. Zero Waste Alaska – Phase one: Education

ii. Zero Waste Alaska – Phase one: Empowerment

iii. Zero Waste Alaska – Phase one: Enrichment

8. COMMISSION MEMBER COMMENTS

9. ADJOURN

DRAFT MINUTES
Recycling Commission Meeting
Wednesday, February 10, 2016, 5:30pm – 7:30pm
Noel Wien Library Conference Room

1. CALL TO ORDER

2. ROLL CALL

Commissioners: Karl Monetti, Chairman; Ariane Staples; Jimmy Fox; Karl Hough; Paul Knight; Brett Parks

FNSB Staff: Bob Jordan, Solid Waste Manager, Solid Waste Division; Jane Steeves, Secretary

Liaisons: Rodney Vesper, Fairbanks North Star Borough School District; Van Lawrence, FNSB Assembly

Guests: Ken Simington, Alaska Waste; Becca Brado, Green Star of Interior Alaska (GSIA); Richard Barth, Sandy DeLong, Fort Greely; Jeff Yarnell, FNSB resident

3. APPROVAL OF CONSENT AGENDA

(Approval of Consent Agenda passes all routine items indicated by an asterisk (*) on the agenda.

Consent Agenda items are not considered separately unless so requested, in which case the item is returned to the general agenda. Said item will be discussed prior to public comment period, or under New Business, at discretion of Chair.)

A. *Approval of Agenda

MOTION: To approve as submitted

MOVED: Karl Hough

SECONDED: Brett Parks

DISCUSSION: None

PASSED: Unanimously

B. Approve minutes of 12/09/15 meeting

4. MESSAGES

A. Chairman's comments

I. The November 2015 Osher Life Long Learning (OLLI) recycling class included panelists Mr. Monetti, Ms. Brado, and representatives from K & K Recycling, and the Fairbanks Rescue Mission. Feedback was positive. A repeat class, including updates on interim recycling activities, is scheduled for March 2016.

II. The FNSB RFI and RFP Recycling Committees include Mr. Monetti and Mr. Jordan

B. Communications to the Recycling Commission

I. Report on progress of RFI (Request for Information-Recycling Operator) review committee – Bob Jordan

The RFI/RFP is under the procurement process which limits the availability of details. The FNSB issued a RFI in November 2015 soliciting interest in operating a central recycling facility. The RFI closed December 3, 2015. The selection committee is currently reviewing the submissions prior to the next meeting March 14, 2016. The next step is the issuance of a RFP listing criteria required from the three responders to the RFI. The committee is proceeding with caution to ensure that, in addition to requesting a business plan, the required list of information will be all inclusive. The goal is to produce one master RFP.

Van Lawrence indicated that the selection of a central recycling operator(s) will occur in less than one year.

II. Report on electronics recycling – Becca Brado

9.6 tons of electronics was recycled in January 2016. The target for February is 14.1 tons. 135 tons was recycled in 2015, with a goal of 160 tons this year. Ms. Brado visited Total Reclaim in Seattle, the company that accepts the electronic materials. See pictures and video on Facebook. Mr. Lawrence is interested in knowing the volume of electronics sold in the community. Mr. Fox expressed concern about the ongoing relationship with Air Land Transport, Inc. Ms. Brado said the relationship is strong. She has no concern about Air Land backing away from the current relationship

The new GSIA business space is large enough to welcome recycling drop-offs by special appointment or by chance from seeing the sign on Van Horn.

III. Final report on Composting Feasibility Study, Arctic Data Services, LLC.

Rodney Guritz is out of town. He will present his final report and a new proposal at the next Recycling Commission meeting.

5. CITIZENS' COMMENTS

(Note: our policy is to encourage public comment. All items on the agenda will be open for public comment unless otherwise noted. If you would like to comment on any agenda items and cannot stay until such items come up for consideration during the meeting, you may comment at this time. You may also suggest a future agenda item to the Commission at this time. Each speaker is limited to 3 minutes, with 30 minutes total time allotted.)

A. Agenda items

Richard Barth addressed the Commission regarding the recycling effort on Fort Greely. Mr. Barth, who has spent his career in several areas of environmental concern, currently manages the mandated recycling project on Fort Greely. There is a fully legal and functioning landfill and recycling center in operation. Much of the collected material is repurposed. Volunteers have signed up to post items on eBay. Materials are sold by auction and bid as well. Although the facility is open to the public to purchase materials, there has not been much local interest. Composting for use in the Fort Greely nursery and community garden is being prepared in an earth tub. Glass is being crushed for concrete and cardboard is being processed into briquettes. Transportation and labor costs are met by sales monies from the recycling. The federal government does not provide any money to support the recycling.

A private company is providing recycling in Haines. Once regionalized, the recycling materials will be stored in Haines to be shipped to Seattle when the market is right. Haines is much closer to market than Anchorage. The benefit to the Haines recycler is a better market price for higher volume. Shipping through Canada is not a problem provided the material is not hazardous. Canadians indicated an interest in participating as well. Tractors, trailers, and other equipment purposed for recycling can be removed from government auctions and shipped to Fort Greely, free. Material shipped to Haines will be single stream, bailed, except for cardboard and glass. Sorting will be done in Seattle. Cardboard and construction and demo materials will be retained to capture a better local price.

The big hope is to make it all work at a breakeven point. Research indicates the recycling on Fort Greely *must* be regionalized with other government entities, and through established partnerships with other non-profits, to be successful.

B. Items not on the agenda

None

6. UNFINISHED BUSINESS

A. Items on agenda scheduled for public hearing

None

- B. Items on agenda not scheduled for public hearing

None

7. NEW BUSINESS/ACTION ITEMS/PUBLIC HEARING ITEMS

- A. Items on agenda scheduled for public hearing

None

- B. Items on agenda not scheduled for public hearing

- I. Discuss and act upon FY17 GSIA Electronics Recycling Depot Proposal

MOTION: To accept the proposal as submitted.

MOVED: Brett Parks

SECONDED: Paul Knight

DISCUSSION: GSIA received \$4,500 seed money grant from the GVEA Foundation to begin the recycling of smoke alarms and fluorescent light bulbs. The money will be used during the first year to purchase supplies and drums for shipping. North Coast Electric recycles fluorescents for business. Exit signs, having a radioactive chip, are very costly to recycle, hence, not currently included.

Mr. Fox expressed concern that the proposal is requesting sufficient funds to last the fiscal year given the recycling growth rate. Mr. Jordan responded that since funds are dispersed monthly, GSIA and the Commission will recognize the need for additional funding before electronics recycling could be compromised.

APPROVED: Unanimously.

- II. Discuss and elect officers for 2016

MOTION: To keep the same Chair, Karl Monetti, and Vice Chair, Jimmy Fox

MOVED: Karl Hough

SECONDED: Brett Parks

DISCUSSION: Mr. Fox would prefer to step down in favor of another Commissioner. Mr. Parks volunteered to accept the position of Vice Chairman.

Ariane Staples requested a list of roles and responsibilities for the positions: the Chairman runs Commission meetings and is the liaison between the Commission and the FNSB Mayor, Solid Waste, etc. The Chairman also generates agenda ideas and is a central point for gathering and dispersing information. The Vice Chairman sits in for the Chairman in times of need. Chairman Monetti stated he would prefer to remain Chairman until a sustainable central recycling program is in place.

MOTION WITHDRAWN: Karl Hough.

MOTION: To elect Karl Monetti, Chairman and Brett Parks, Vice Chairman

MOVED: Karl Hough

SECONDED: Paul Knight

DISCUSSION: None

APPROVED: Unanimously

8. COMMISSION MEMBER COMMENTS

- Jeff Yarnell expressed his thanks to the Commission for the work accomplished to date.
- Ms. Brado requested attendees take Electronics Recycling flyers to post around town.
- Mr. Knight requested K & K Recycling be invited to address the next meeting.
- Mr. Hough inquired about the status of the purchased grocery bags. Ms. Brado will provide an update to the next meeting. Fred Meyer West is allowing a table to be used for distributing the bags to the general public.
- Mr. Parks will follow up on securing a liaison from UAF.
- The next meeting will probably be in April.

- Ms. Brado met with representatives from the Fairbanks Rescue Mission with a view to GSIA assuming responsibility for the Mission recycling which is expected to end June 30, 2016. The recycling activity is no longer in line with the Mission's goals and objectives. Conversation is currently stalled. John Davies, immediate past Assembly liaison, is requesting the Mayor to contact the Mission regarding a smooth transition at the end of June. Ms. Brado stated that Green Star is willing to take on the responsibility for the Mission recycling activity whether or not Green Star is chosen as the central recycling operator.

9. ADJOURN

MOVED: Jimmy Fox

SECONDED: Ariane Staples

DISCUSSION: None

APPROVED: Unanimously

FY16 RECYCLING COMMISSION BUDGET

COMMUNITY RECYCLING				
REVENUE				AVAILABLE
				BALANCE
Solid Waste Collection District	\$62,500.00			
Solid Waste Disposal	\$62,500.00			
TOTAL	\$125,000.00			\$125,000.00
EXPENDITURES				
	ENCUMBRANCE	PAID TO DATE	REMAINING	AVAILABLE
			ENCUMBRANCE	BALANCE
Fairbanks Rescue Mission	\$50,000.00	(\$26,638.95)	\$23,361.05	
K & K Recycling, Inc.	\$50,000.00	(\$29,119.20)	\$20,880.80	
TOTAL	\$100,000.00	(\$55,758.15)	\$44,241.85	\$25,000.00
TOTAL REMAINING BALANCE				\$25,000.00

SOLID WASTE OPERATING				
REVENUE		FY15 TRANSFER	AVAILABLE	
		IN	BALANCE	
Recycling/Household Hazardous Waste	\$134,150	\$36,410.75		
TOTAL	\$134,150	\$36,410.75		\$170,560.75
EXPENDITURES				
	ENCUMBRANCE	PAID TO DATE	REMAINING	AVAILABLE
			ENCUMBRANCE	BALANCE
GSIA - FY15 Digitalize Recycling Guide	\$13,809.80	(\$13,809.80)	\$0.00	
GSIA - FY15 Signs @ Trans Sites: Recycling Ed	\$4,408.95	(\$4,408.95)	\$0.00	
GSIA - FY15 Radio Ads & post mailer RC Ed	\$3,192.00	(\$3,192.00)	\$0.00	
Arctic Data Svcs LLC - FY15 Compost Study	\$15,000.00	(\$15,000.00)	\$0.00	
GSIA - FY16 Electronic Recycling Support	\$72,000.00	(\$54,000.00)	(\$18,000.00)	
TOTAL	\$108,410.75	(\$90,410.75)	(\$18,000.00)	\$62,150.00
TOTAL REMAINING BALANCE				\$62,150.00

A balance of \$1,091 remains in the original \$65,000 budget (Ordinance 2009-39) for secretarial expenses.

For Office Use: Received: Date: _____ By: _____
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APPLICATION FOR SPECIAL RECYCLING PROJECTS PURSUANT TO FNSBC 8.12.034

Please fill in all sections of this sheet. All starred items are required before the Recycling Commission will evaluate your proposal. Other relevant documents and your "Plan" should be attached.

1. * **COMPANY/ORGANIZATION NAME:** Green Star of Interior Alaska

2. * **TITLE OF PROPOSAL:** Community Recycling Program

3. * **BRIEF SUMMARY OF PROPOSAL:**

Green Star of Interior Alaska seeks funding to take over the Fairbanks Rescue Mission's Recycling Program as of 7/1/2016.

* **NAME(S) AND TITLE OF PRINCIPALS OF COMPANY/ORGANIZATION:**

Name	Title
<u>Becca Brado</u>	<u>Executive Director</u>
<u>Andrea Miller</u>	<u>Board President</u>

4. * **CONTACT PERSON:**

Name: Becca Brado
Address: P.O. Box 82391
Fairbanks, AK 99708
Phone: 907-452-4152
Email: becca@iagreenstar.org

5. * **VALID ALASKA BUSINESS LICENSE:**

Copy attached: Yes No

In addition, a valid City Business License is required if doing business within the City boundaries. Attached: Yes No Not applicable

6. * **PROOF OF FINANCIAL RESOURCES IN PROPORTION TO THE BUSINESS PURPOSE** (additional pages may be attached or expound upon this in your business plan):

Green Star is an independent nonprofit 501(c)(3) organization and its finances are a matter of public record. Financial Statement for the year 2015 will be provided upon request.

7. * **AUTHORIZED SITE APPROVAL BY DEC AND FNSB, IF APPLICABLE.**

(attach copies of documentation)

Not Applicable

8. * Submission of a Business Plan to Show (please attach)

- A. A summary of the proposed project and its anticipated impacts
- B. Project team (who will carry out the work)
- C. Anticipated audience (if an outreach project)
- D. Project timeframe, including any deadlines that must be met
- E. Consistency with the Borough's overall recycling plan
- F. How will you demonstrate success: are there measurable goals, and what methods will be used to evaluate them?
- G. Any additional information, specifications, contracts, etc., that will assist the Recycling Commission in evaluating your proposal. You may include in your Plan expansions or explanations of your answers on sections of this form.

9. * ARE YOU ASKING FOR BOROUGH FUNDING? Yes No

If Yes:

A. How much? \$ 62,150

B. For what time period? Remainder of FY16 (through 6/30/2016)

C. One time or ongoing? Ongoing

D. What are estimated monetary needs for trial (first) period? \$ 92,500

E. What are estimated monetary needs for further time-periods? \$ 174,000

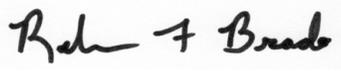
(NOTE: Approval of this plan at this level does NOT guarantee Borough funding)

10. * HOW DO YOU SEE YOUR PROPOSAL AFFECTING THE OVERALL IMPACT ON THE GOAL OF RECYCLING AND REDUCTION OF SOLID WASTE GENERATED IN THE BOROUGH?

Green Star is embarking on a viable, exciting community venture that will increase the amount of recyclable materials captured from our waste stream and make them available for economic development. Maintaining the availability of community recycling that the Fairbanks Rescue Mission established in 2009 is an essential part of building a sustainable infrastructure to accommodate the growth of our region.

Green Star's Board of Directors recognizes that our organization is planning to take over FRM's Recycling Program with no assurance from FNSB that we will be selected as the Central Recycling Facility operator. However, our mission is to encourage and enable our community to reduce waste and increase recycling. Therefore, we feel it is our obligation to step up and fill the gap that FRM's Recycling Center would otherwise leave in the Interior.

Date: March 30, 2016

Signature: 

Print Name: Rebecca Brado

Green Star's Recycling Program Business Plan

A. A summary of the proposed project and its anticipated impacts

On June 30, 2016, the Fairbanks Rescue Mission (FRM) is ending their Recycling Program (which has served the borough since 2009). Currently FRM's Recycling Program processes an average of 750 tons of recyclables per year using their 2,000 square foot garage. It is important that another entity pick up where FRM is leaving off to ensure the public's and businesses' continued participation in recycling in FNSB. Green Star proposes not only to continue FRM's Recycling Program, but also to expand it.

In October 2015, the Fairbanks North Star Borough (FNSB) Assembly approved two ordinances related to creating a centrally-located recycling facility that will increase the region's capacity to divert recyclables from Interior Alaskan landfills. Green Star submitted a response to the borough's Request for Information in December 2015 along with K&K Recycling and WestRock. The borough has not yet made a decision about the next phase of this process, but a Request for Proposals is expected to be issued in the months to come. It is not yet clear which entity/entities will be invited to submit a proposal.

Green Star's Board of Directors recognizes that our organization is planning to take over FRM's Recycling Program with no assurance from FNSB that we will be selected as the Central Recycling Facility operator. However, our mission is to encourage and enable our community to reduce waste and increase recycling. Therefore, we feel it is our obligation to step up and fill the gap that FRM's Recycling Center would otherwise leave in the Interior.

Four major steps are required to make the transition from FRM to Green Star seamless: securing a large warehouse, hiring and training a recycling manager, acquiring baling and loading equipment, and educating the public on the new location. Green Star lacks a warehouse for collecting, storing and shipping high volumes of recyclable material. To be successful the warehouse must have features that allow convenient drop off, baling and loading of semi-trailers to occur in a labor-saving manner. FRM's current warehouse is only 2,000 square feet and is unavailable for long term future use. Green Star can net higher revenue for recycled materials if we ship full truck loads of a single type of material.

We have identified a centrally located 13,000 square foot vacant warehouse that may be available for immediate rental. Renting this warehouse would enable Green Star to store bales of recyclables until we have a full load of one type of material. We would also be able to re-invigorate Alaska Waste's commercial pick up project that was piloted with great success in 2012.

Fair market value of warehouse rent for this space is around \$0.50 per square foot/month (\$6,500 per month). Monthly expenditures such as insurance, heating oil, electricity, water/sewer and snow plowing will likely cost around \$3,500 per month. Therefore, we've budgeted \$20,000 for the deposit, first month's rent and utilities (the least we can reasonably expect to pay). However, we are still looking for a landlord who might be willing to offer our non-profit a reduced rental rate or offer the use of their space as an in-kind donation.

Green Star is a proven expert in electronics recycling, but we lack experience with large volumes of other recyclable materials. The Fairbanks Rescue Mission has 7 years of experience and a fully developed expansion plan. FRM is available to act as a consultant to Green Star as we step into this new venture. We are seeking \$10,000 from the FNSB to cover FRM's time and expertise over the next 3 months to train our recycling center manager. FRM has offered to allow our staff to shadow their

employees through 6/30/16 and remain on call to advise Green Star on recycling related issues as needed thereafter. FRM is committed to helping Green Star succeed.

Green Star plans to use future profits from the sale of recyclable material to defray staffing costs. However, to get the program off the ground we will need to hire a Recycling Program Manager. We are seeking funding in the amount of \$7,500 to cover his or her payroll and taxes for the remainder of FY16. FRM is also willing to sell Green Star their recycling equipment below fair market value (see attached for specifics).

The advantage of our non-profit operating the Recycling Program is that we are mission driven and can afford to break even whereas a for-profit entity would require a profit. Our non-profit can also recruit volunteers to assist the recycling manager which will cut labor costs. In the past, FRM averaged five recycling volunteers per day, so Green Star will turn to our database of 290 volunteers to help process our community's recyclables. Green Star is also approaching ALPAR to request a contract for 50 semi-truck trailers per year to backhaul recyclables to Anchorage.

B. Project team (who will carry out the work)

Executive Director Becca Brado and four part-time staff: Executive Assistant Sarah Marshall, Education and Outreach Specialist Kalee Meurlott, Electronics Resale Coordinator Jacques Mara, and Warehouse Management Materials Specialist Dan Bates. Green Star also has an active Board of Directors and a large volunteer pool (181 volunteers helped out in 2015). Green Star also plans to hire a Recycling Program Manager. Please see attached draft of Job Description.

C. Anticipated audience (if an outreach project)

Green Star will update the annual Recycling Guide as a key component of our outreach and education campaign to inform Borough residents of this change. As PDC mentioned, "like any other service or product, recycling earns more 'customers' through advertisement, outreach, and education. Properly educated citizens are able to spread the word about recycling opportunities in their community and help ensure a higher volume of recyclables with less contamination."

We are seeking \$10,000 to send an updated Recycling Guide by mail to residences, schools, business and government agencies within the FNSB. Because the availability of recycling in Fairbanks has changed repeatedly over the years, Green Star's main outreach effort has been to keep the public up-to-date with the current status of what materials can be recycled and where to take them. Our greatest challenge is eliminating confusion and overcoming disillusionment caused by constantly changing recycling opportunities and varying methods employed by local recycling entities.

To ensure success of the Recycling Program, Green Star must continue to build broad-based participation via social media, the distribution of brochures and other printed materials, and radio/television public service announcements. It is essential that we educate the community about the economic and environmental benefits of resource recovery and the social return on the community's investment. A direct benefit of this achievement will be the extension of the life of our local landfill, thereby conserving land, water, air and taxpayers' dollars.

D. Project timeframe, including any deadlines that must be met

Green Star hopes to take over FRM's Recycling Program as of 7/1/2016. We're approaching the Recycling Commission to allocate the \$62,150 remaining in the FY16 Special Projects budget to cover start-up costs.

Green Star anticipates future years' expenses will be paid as follows: revenue from the sale of recyclable materials, financial support from the FNSB's annual budget, corporate sponsorships and individual contributions.

E. Consistency with the Borough's overall recycling plan

Green Star is embarking on a viable, exciting community venture that will increase the amount of recyclable materials captured from our waste stream and make them available for economic development. Maintaining the availability of community recycling that the FRM established in 2009 is an essential part of building a sustainable infrastructure to accommodate the growth of our region.

Recycling is a strategy for community improvement and development. It has significant economic, environmental and social benefits. Encouraging the public to reduce and recycle waste is an integral component of the FNSB's Solid Waste Management Plan. Alaska Statute 46.06.021 directs the ADEC to minimize present and future threats to human health and the environment by promoting solid-waste management practices in the following priority:

1. Waste source reduction
2. Waste reuse
3. Waste recycling

The Recycling Program will increase the recovery of valuable resources, which in turn will:

- Save money by reducing disposal costs of taxpayers
- Create and expand local job opportunities
- Encourage local economic development and new businesses by providing recovered resources as feedstock for new products and creating the opportunity for recycle pickup services
- Extend the life of the landfill
- Limit negative impacts on air & water quality
- Establish a sustainable community disposal program

Support from FNSB would increase awareness and support sustainable practices in the Interior by diverting recyclable waste from our landfill. With your help, Green Star can better respond to the ever-increasing demand for recycling within the borough.

F. How will you demonstrate success: are there measurable goals, and what methods will be used to evaluate them?

Green Star's initial goal is to solidify the business model, operation and organizational structure to have a sustainable administration dedicated to ensuring the continued growth of the program.

Phase 1: Establish Interim Site

Locate a site suitable for expanding recycling opportunities beyond the previous FRM Recycling Center's capacity to increase our collection and transportation efficiency. We will accomplish this goal by leasing property, preparing a recycling receiving and processing area, and collecting and storing material at this site.

- Establish weekly collection hours at the interim site.
- Begin processing and baling the materials collected.
- Establish a regular collection of non-ferrous metals and commercially generated fibers.
- Expand revenue opportunities with a non-ferrous metal buy-back program and the local resale of recovered items such as glass for aggregate.
- Maximize storage at interim site to improve transportation efficiency.
- Expand community outreach focusing on commercial customers.

Initially Green Star hopes to collect approximately 60 tons of recyclables per month (the same volume as the Fairbanks Rescue Mission), but there may be an initial slight decline in participation due to the transition. We also expect to divert 15 tons of electronics from the landfill each month. Depending on our staffing situation, it may take us a couple of months before we'll be able to offer pick up services.

Phase 2: Develop Various Revenue Streams

Green Star will pursue diverse sources of income to maintain operational stability and further reduce the amount of waste going into the FNSB landfill. Alternative revenue streams must constantly be evaluated to offset commodity price volatility. The eventual development of a resale thrift store and the sale of products made from recycled resources along with fees from services will be key parts to maintaining operational stability during market fluctuations.

Green Star's seeks to eventually triple FRM's current capacity. According to PDC's 2015 Recycling Plan & Analysis (page 5) 18,160 tons of paper/paper board, glass, steel, aluminum and plastics go into FNSB's landfill every year. Green Star aims to eventually divert 15% of the recyclables entering FNSB's waste stream annually (2,724 tons).

A recovery rate of 227 tons per month, 12 months a year at average revenues of \$50 per ton will bring in projected revenues of \$136,200 annually. 227 tons per month is a conservative 15% of the 18,160 tons of recyclable material going into our landfill (according to PDC's 2015 Recycling Plan & Analysis, page 5).

The \$50 per ton revenue calculation is based on national standards used by for-profit recycling businesses. The industrial average for processing cost per ton is also approximately \$50 per ton according to Mollie Boyers at VCRS in the Mat-Su Valley.

Any surplus revenues from the sale of recyclable materials will help Green Star offset program expenses. We'll also provide education throughout our community to ensure the future place of recycling in the solid waste management and resource management of the FNSB. Green Star plans to control processing costs through the continued use of volunteers including participants in local community and work service programs.

- G. Any additional information, specifications, contracts, etc., that will assist the Recycling Commission in evaluating your proposal.

We recently surveyed our donors regarding their hopes for recycling in the Interior. Following is an excerpt of their responses, which affirm Green Star's decision to take over FRM's Recycling Program:

- more, more, more
- Do it already! Stop with all the studies and the bits and pieces; this community is BEGGING for mass recycling.
- To develop a program that would be integrated with trash collection and transfer stations that would accept a wide range of materials. Even a central community collection point for all recyclables would be an improvement.
- Continue working towards a comprehensive recycling center.
- Permanent programs that are convenient so people can recycle at every opportunity.
- To see recycling bins at each transfer site.
- Expand what can be recycled and make sure that it's actually recycled, rather than stockpiled.

Green Star	
Recycling Program Profit and Loss	
May 1, 2016 - June 30, 2016	
Projected Income	
FNSB Recycling Commission FY16 Special Projects	\$62,150
FNSB Recycling Commission FY16 Approved Recycler	\$25,000
Donations/Corporate Sponsorships	\$5,500
	\$92,650
Expense	
Consulting Fee for Fairbanks Rescue Mission	\$10,000
Wages and payroll taxes	\$7,500
Advertising (Recycling Guide, News Miner, TV/radio ads)	\$10,000
Equipment (see attached list)	\$45,000
Deposit, first month's rent, insurance, heating oil, electricity, water/sewer	\$20,000
	\$92,500

Green Star	
Recycling Program Profit and Loss	
July 1, 2016 - June 30, 2017	
Projected Income	
Payment for pickup fees	\$9,000
Payment for aluminum	\$2,800
Payment for paper & plastics	\$39,000
Donations	\$3,500
Rasmusen Foundation	\$25,000
FNSB Recycling Commission FY17 Special Projects	\$60,000
FNSB Recycling Commission FY17 Approved Recycler	\$50,000
	\$189,300
Expense	
Wages and payroll taxes	\$60,000
Advertising	\$6,000
Vehicle & Equipment Repairs/Maintenance	\$3,000
Rent, insurance, heating oil, electricity, water/sewer and snow plowing	\$120,000
	\$189,000
In-Kind Donations	
Volunteer hours = 400 x \$20/hr	\$8,000
Community Service Hours = 600 hours x \$9.75/hour	\$5,850
Donated transportation Services	\$150,000
	\$163,850



Epson tm295 Printer

Valued @ \$1,045.00

Sell @ \$900.00



4'x4' Floor Scale

Valued @ \$1,960.00

Sell @ \$1,000.00



6'x35' Aluminum Mobile
Loading Ramp

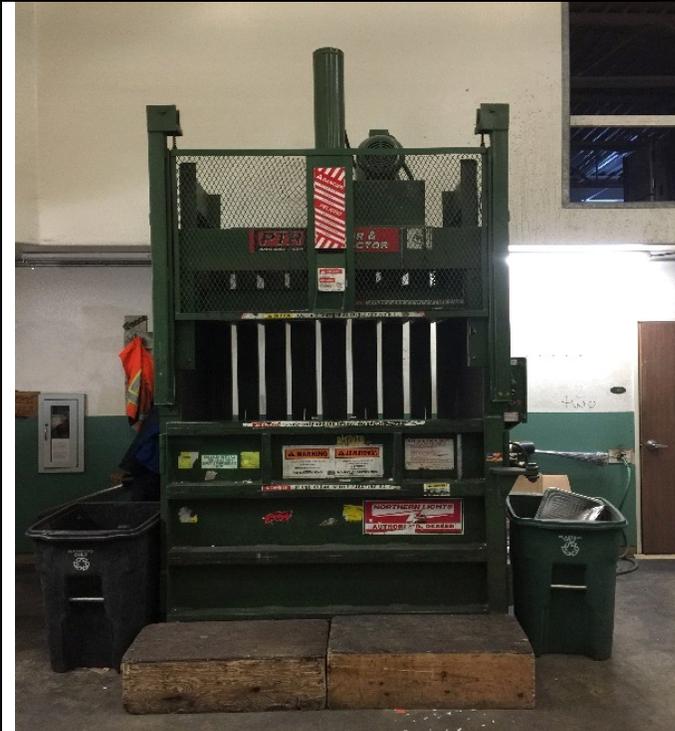
Valued @ \$9,000.00

Sell @ \$6,500.00



KilKom Baler
58"x 28"x 46" Bale Size

Valued @ \$4,475.00
Sell @ \$3,000.00



PTR 2300 HD Baler
60"x30"x48" Bale Size

Valued @ \$14,000.00
Sell @ \$9,000.00



2001 Ford F450 Super Duty

8'x10' Flat Bed

49,000 Miles

Valued @ 18,000.00

Sell @ \$14,000.00



Mitsubishi FG25N-LP
Forklift
Integrated Presence
System
2,573.5hrs.

Valued @ \$16,500.00
Sell @ \$12,000.00



Super Sack Holding Carts
X6
No Charge



Recycling Bin Containment
Structure

Valued @ \$2,500.00

Sell @ \$1,000.00



Used 1yrd Sacks

Valued @ \$27.00ea x 50

\$1,350.00

Sell @ \$17.00ea x 50

\$850.00



13.5G x 14Ft Baling Wire

250 count Rolls

10 @ \$950.00



Tilt Recycle Totes
Capacity is 1 cubic yard
Weight capacity is 2,100lbs

10 Valued @ \$3,100.00
Sell @ \$2,000.00

Operations Manager

Green Star of Interior Alaska

Reports to: Executive Director

Date: March 30, 2016

Classification: Non-Exempt

Status: Full-Time

Job Summary:

The primary function of the Operations Manager position is to direct, supervise and coordinate the intake and distribution of recyclable materials and to provide all facility maintenance activities. This is a management level position supervising and coordinating daily activities which include technical and safety guidance to material handlers and equipment operators.

Essential Functions:

- Coordinates the distribution of collected materials (baling, storage, loading, transportation)
- Maintains accurate records of all distribution and materials collection (including load weights, trailer configurations, etc.)
- Provides professional assistance to Green Star visitors and contributing community members
- Supervises material handlers, volunteers and equipment operators
- Ensures the safe and efficient performance of equipment operation and materials processing activities
- Supervises and coordinates all maintenance service and repairs pertaining to building (including grounds) and equipment
- Coordinates large-scale delivery of materials to Green Star
- Conducts general training and implements safety regulations, training and programs
- Implements all maintenance and general procurement of machinery and parts; oversees safe and timely repairs
- Maintains accurate records with regard to annual inspection of equipment and general preventative maintenance
- Works collaboratively with Green Star staff and purchasers to coordinate the timely transportation and delivery of recyclable materials
- Physically operates equipment and handles materials
- Other duties as assigned

Additional Responsibilities:

- Provides coverage for co-workers by performing alternative duties when requested
- Assists in the procurement and inventory of safety equipment (e.g., hearing and eye protection, gloves, and vests)
- Responds to general Green Star inquiries and offers redirection to appropriate staff when necessary

Qualifications:

- Certified to operate forklifts and front-end loaders
- Considerable knowledge and experience operating balers, forklifts and front-end loaders
- Knowledge of ground maintenance procedures
- Ability to understand Federal and State fire, safety and sanitation regulations
- Ability to effectively negotiate with service contractors and vendors regarding the fulfillment of contracts, agreements and guarantees
- Ability to set priorities and make appropriate decisions on repairs or assignments
- Ability to analyze facts and exercise sound judgment in arriving at conclusions and planning work activities
- Ability to develop long-term plans and programs and to evaluate work accomplishments

- Ability to conduct training programs
- Ability to be physically active from medium to heavy type of work (including bending, lifting, tying, carrying, stooping, etc.)
- Ability to be subjected to various environmental conditions (especially cold and wet, windy and dusty conditions)
- Ability to effectively supervise and train subordinate employees and volunteers
- Ability to build and promote team work and further develop a positive team mind set of staff
- Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedural manuals
- Ability to write routine reports and correspondence
- Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals
- Ability to define problems, collect data, establish facts, and draw valid conclusions
- Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form
- Knowledge of computer and data entry operations and software (Word processing and Excel spreadsheets) are required
- Ability to design effective work flow mechanisms and procedures
- Ability to resolve problems in a timely manner; gather and analyze information skillfully; develop alternative solutions
- Ability to manage difficult or emotional customer situations; respond promptly to customer needs; meet commitments
- Ability to develop workable implementation plans; communicate changes effectively
- The work environment for this position includes regularly working near moving mechanical parts
- Specific vision abilities required by this job include color vision, close vision, depth perception and ability to adjust focus
- Ability to communicate in English
- Possess a high degree of communication skills including electronic, telephonic, writing and verbal
- Experience adjusting actions and routine in relation to others' action or shifts in work priority
- Ability to understand information and ideas presented through spoken words and sentences
- Exceptional organizational abilities

Operations Manager Accountabilities

- The mission of Green Star is demonstrated in the efforts of this position at all times
- Essential and non-essential functions are performed with consistently high-level results
- Reports and work-related documentation are prepared and submitted in a timely and accurate fashion
- Identifies ways to improve and promote quality; demonstrates accuracy and thoroughness
- Observes safety and security procedures; properly uses and supervises the use of equipment and materials
- Communicates work assignments appropriately; matches the responsibility to the person; sets expectations and monitors delegated activities
- Follows instructions, responds to management direction; takes responsibility for own actions; keeps commitments
- Makes self available to staff; provides regular performance feedback; develops subordinates' skills and encourages growth
- Balances team and individual responsibilities; contributes to building a positive team spirit
- Prioritizes and plans work activities; uses time efficiently; organizes or schedules other people and their tasks appropriately
- Demonstrates accuracy and thoroughness; looks for ways to improve and promote quality

- Meets productivity standards; completes work in timely manner; strives to increase productivity; works quickly
- Communications with persons outside the organization with the public, volunteers and donors, government, and other external resources are effective and professional (this information can be exchanged face-to-face, in writing, or via telephone/electronic transfer)
- Teamwork is a normal work practice and cooperation with co-workers is regular and productive
- Works within approved budget; develops and implements cost saving measures; contributes to profits and revenue; conserves organizational resources
- Punctual and regular attendance is accurately reported on timesheet each reporting period
- The confidentiality of all volunteer, as well as proprietary business practices and information, is protected and assured at all times
- Accurate and timely completion of other duties is completed as assigned

General information:

The above statements are intended to describe the general nature and level of work being performed by individuals assigned to this position. They are not intended to be an exhaustive list of all duties, responsibilities and skills required of personnel so classified. The employee must be able to work in a fast-paced environment with demonstrated ability to juggle and prioritize multiple, competing tasks and demands and to seek supervisory assistance as appropriate.

Please sign below indicating that you have read the above information and understand the contents of this job description.

Staff signature

Date

Alaska Department of Commerce, Community, and Economic Development

Division of Corporations, Business and Professional Licensing

P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

GREEN STAR OF INTERIOR ALASKA

P.O. BOX 82391 FAIRBANKS AK 99708

owned by

GREEN STAR OF INTERIOR ALASKA

is licensed by the department to conduct business for the period

October 13, 2015 through December 31, 2016

for the following line of business:

81 - Services

56 - Administrative, Support, Waste Management and Remediation Services



This license shall not be taken as permission to do business in the state without having complied with the other requirements of the laws of the State or of the United States.

This license must be posted in a conspicuous place at the business location. It is not transferable or assignable.

Chris Hladick

City of Fairbanks
OFFICE OF THE CITY CLERK
800 CUSHMAN STREET
FAIRBANKS, AK 99701-4615

101264
GREEN STAR OF INTERIOR ALASKA
PO BOX 82391
FAIRBANKS, AK 99708



City of Fairbanks
800 CUSHMAN STREET
FAIRBANKS, AK 99701-4615
(907) 459-6715

License/Permit No. 5213

2016 BUSINESS LICENSE

DBA: GREEN STAR OF INTERIOR ALASKA

License Expires: 12/31/2016

101264
GREEN STAR OF INTERIOR ALASKA
PO BOX 82391
FAIRBANKS, AK 99708

Line of Business Code: 81

Line of Business: OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)

This license is expressly conditioned upon the holder being in full compliance with all of the applicable ordinances and requirements made under authority of the City of Fairbanks and as such laws and requirements may hereafter be changed or amended. Your license will expire on the above indicated date.

Licenses must be renewed timely to remain compliant and operational within the City of Fairbanks. Licenses/Permits must remain on premises or holder must be able to produce it upon request.

Issue Date: 01/01/2016

J. Janyville Snider
City Clerk

In the event of suspension, revocation, expiration or termination, return this license to the City of Fairbanks at the above address.

THIS LICENSE IS NON TRANSFERABLE
PAGE 27 OF 49

For Office Use: Received: Date: _____ By: _____
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**APPLICATION FOR APPROVED RECYCLER
PURSUANT TO FNSBC 8.12.035**

Please fill in all sections of this sheet. All starred items are required before the Recycling Commission will evaluate your proposal. Other relevant documents and your "Plan" should be attached.

1. *COMPANY NAME: Green Star of Interior Alaska

2.*TITLE OF PROPOSAL: Community Recycling Program

3. BRIEF SUMMARY OF PROPOSAL:

Green Star of Interior Alaska seeks funding to take over the Fairbanks Rescue Mission's Recycling Program as of 7/1/2016.

4. * NAME(S) AND TITLE OF PRINCIPALS OF COMPANY:

Name	Title
<u>Becca Brado</u>	<u>Executive Director</u>
<u>Andrea Miller</u>	<u>Board President</u>

5. * CONTACT PERSON:

Name. Becca Brado
Address: P.O. Box 82391
Fairbanks, AK 99708
Phone: 907-452-4152
Email: becca@iagreenstar.org

6. * VALID ALASKA BUSINESS LICENSE:

Copy attached: Yes No

In addition, a valid City Business License is required if doing business within the City boundaries.

Copy attached: Yes No

(IF YOU ARE SUBMITTING A REQUEST TO CONTINUE A PROPOSAL ALREADY UNDER CONTRACT WITH THE BOROUGH, PLEASE SKIP TO ITEM 10)

* **PROOF OF FINANCIAL RESOURCES IN PROPORTION TO THE BUSINESS PURPOSE** (additional pages may be attached or expound upon this in your business plan):

Green Star is an independent nonprofit 501(c)(3) organization and its finances are a matter of public record. Financial Statement for the year 2015 will be provided upon request.

7. * **AUTHORIZED SITE APPROVAL BY ADEC AND FNSB, IF APPLICABLE.**

N/A

8. * SUBMISSION OF A BUSINESS PLAN TO SHOW (please attach)

See Attached

9. ARE YOU ASKING FOR BOROUGH FUNDING? Yes No

10. If Yes:

A. How much? \$ 25,000

B. For what time period? Remainder of FY16 (through 6/30/2016)

C. One-time or ongoing? Ongoing

D. What are estimated monetary needs for trial (first) period? \$ 92,500

E. What are estimated monetary needs for further time-periods? \$ 174,000

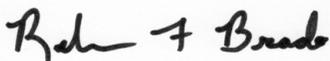
(NOTE: Approval of this plan at this level does NOT guarantee Borough funding)

*** HOW DO YOU SEE YOUR PROPOSAL AFFECTING THE OVERALL IMPACT ON THE GOAL OF RECYCLING AND REDUCTION OF SOLID WASTE GENERATED IN THE BOROUGH?**

Green Star is embarking on a viable, exciting community venture that will increase the amount of recyclable materials captured from our waste stream and make them available for economic development. Maintaining the availability of community recycling that the Fairbanks Rescue Mission established in 2009 is an essential part of building a sustainable infrastructure to accommodate the growth of our region.

Green Star's Board of Directors recognizes that our organization is planning to take over FRM's Recycling Program with no assurance from FNSB that we will be selected as the Central Recycling Facility operator. However, our mission is to encourage and enable our community to reduce waste and increase recycling. Therefore, we feel it is our obligation to step up and fill the gap that FRM's Recycling Center would otherwise leave in the Interior.

Date: March 30, 2016

Signature: 

Print Name: Rebecca Brado

**Approved Recycler Business Plan
Green Star of Interior Alaska
March 30, 2016**

A. Type(s) of material(s) or resource(s) to be recycled or shipped

Green Star intends to collect the same types of recyclables the Fairbanks Rescue Mission (FRM) currently collects: plastic bottles/jugs #1 & #2, aluminum cans, mixed paper, newspaper and corrugated cardboard. We will also accept electronics. Eventually we plan to expand to accept other types of plastic, steel/tin cans and glass.

i. Disposition of material(s) or resources(s) (what will you do with them)

Green Star intends to sell the aluminum and eventually the steel to local metal recyclers. We'll also attempt to sell the glass to local buyers as well. We will continue shipping electronics to Total Reclaim in Anchorage. As for the other materials, we will consolidate enough volume to ship entire semi-truck trailers full of the same material.

At first we will work on negotiating a contract with WestRock, a well-known recyclables broker in Anchorage. Eventually we may attempt to sell the recyclables directly to buyers as Valley Community for Recycling Solutions does. This will mark a transition to a higher level of capacity for Green Star to broker our commodities for the best market price.

ii. Demonstrate a market for the material(s) or resource(s)

When it comes to a non-profit recycling organization, the market consists of a number of different components. Providing comprehensive recycling services are integral to the operation of a successful program, even though some of the services will include non-revenue generating markets. This is because there is a cost benefit to any reduction in our waste stream and, although not easily quantifiable, these benefits have been proven over time at municipal solid waste programs across the nation. The cost benefits of the non-revenue generating services include those whose value is difficult to estimate although in the long-term may prove to have the most impact and reap the highest financial return. For example, the health benefits from reduced exposure to hazardous air emissions and groundwater contamination.

Reduction of Waste Stream

The waste each individual in Alaska produces is estimated to be six pounds per day; this is higher than the U.S. national average of 4.62 pounds per individual. The general analysis is that the extra waste generated that is unaccounted for at our landfill is being incinerated in backyard burn barrels and through a high occurrence of roadside and back-country dumping. We anticipate the education portion of our program, along with expanded opportunities to recycle, will help reduce this pollution; most importantly facilitate a reduction in the amount of plastics burned and its subsequent pollution.

Existing FNSB programs, including the Fairbanks Rescue Mission's program, recycle approximately 2% of the waste stream. Green Star's long-term goal, in conjunction with other FNSB recycling efforts, is to divert 20% or more of the waste stream out of the FNSB landfill. Green Star's business plan is designed to triple FRM's current capacity. According to PDC's 2015 Recycling Plan & Analysis (page 5) 18,160 tons of paper/paper board, glass, steel, aluminum and plastics go into FNSB's landfill every year. Green Star aims to divert at least 15% of the recyclables entering FNSB's waste stream annually (2,724 tons).

B. Location of material sites

Green Star is currently seeking suitable warehouse space. We have identified a centrally located 13,000 square foot vacant warehouse that may be available for immediate rental. Renting this warehouse would enable Green Star to store bales of recyclables until we have a full load of one type of material. We would also be able to re-invigorate Alaska Waste's commercial pick up project that was piloted with great success in 2012.

Fair market value of warehouse rent for this space is around \$0.50 per square foot/month (\$6,500 per month). Monthly expenditures such as insurance, heating oil, electricity, water/sewer and snow plowing will likely cost around \$3,500 per month. However, we are still looking for a landlord who might be willing to offer our non-profit a reduced rental rate or offer the use of their space as an in-kind donation.

C. Estimated number of tons to be recycled each month

Initially Green Star hopes to collect approximately 60 tons of recyclables per month (the same volume as the Fairbanks Rescue Mission), but there may be an initial slight decline in participation due to the transition. We also expect to divert 15 tons of electronics from the landfill each month. Depending on our staffing situation, it may take us a couple of months before we'll be able to offer pick up services. Eventually we hope to divert up to 227 tons of recyclables per month from the FNSB landfill.

D. Program start date for waste generated after specified date

i. Are there any timelines that must be met?

Green Star hopes to take over FRM's Recycling Program as of 7/1/2016.

ii. How are you going to meet those timelines?

Green Star is actively seeking warehouse space and additional funding. We are approaching the Murdock Trust to request the salary for a second full time employee (a Program Coordinator to assist with day-to-day operations). We're also approaching the Recycling Commission to allocate the \$62,150 remaining in the FY16 Special Projects budget to help cover startup costs.

E. Consistency with the Borough's overall recycling plan

Green Star is embarking on a viable, exciting community venture that will increase the amount of recyclable materials captured from our waste stream and make them available for economic development. Maintaining the availability of community recycling that the FRM established in 2009 is an essential part of building a sustainable infrastructure to accommodate the growth of our region.

Recycling is a strategy for community improvement and development. It has significant economic, environmental and social benefits. Encouraging the public to reduce and recycle waste is an integral component of the FNSB's Solid Waste Management Plan. Alaska Statute 46.06.021 directs the ADEC to minimize present and future threats to human health and the environment by promoting solid-waste management practices in the following priority:

1. Waste source reduction
2. Waste reuse
3. Waste recycling

The Recycling Program will increase the recovery of valuable resources, which in turn will:

- Save money by reducing disposal costs of taxpayers
- Create and expand local job opportunities
- Encourage local economic development and new businesses by providing recovered resources as feedstock for new products and creating the opportunity for recycle pickup services
- Improve business efficiency
- Extend the life of the landfill
- Limit negative impacts on air & water quality
- Establish a sustainable community disposal program

Support from FNSB would increase awareness and support sustainable practices in the Interior by diverting recyclable waste from our landfill. With your help, Green Star can better respond to the ever-increasing demand for recycling within the borough.

F. How will you demonstrate success: are there measurable goals, and what methods will be used to evaluate them?

Green Star's initial goal is to solidify the business model, operation and organizational structure to have a sustainable administration dedicated to ensuring the continued growth of the recycling program.

Phase 1: Establish Interim Site

Locate a site suitable for expanding recycling opportunities beyond the previous FRM Recycling Center's capacity to increase our collection and transportation efficiency. We will accomplish this goal by leasing property, preparing a recycling receiving and processing area, and collecting and storing material at this site.

- Establish weekly collection hours at the interim site.
- Begin processing and baling the materials collected.
- Establish a regular collection of non-ferrous metals and commercially generated fibers.
- Expand revenue opportunities with a non-ferrous metal buy-back program and the local resale of recovered items such as glass for aggregate.
- Maximize storage at interim site to improve transportation efficiency.
- Expand community outreach focusing on commercial customers.

Phase 2: Develop Various Revenue Streams

Green Star will pursue diverse sources of income to maintain operational stability and further reduce the amount of waste going into the FNSB landfill. Alternative revenue streams must constantly be evaluated to offset commodity price volatility. The eventual development of a resale thrift store and the sale of products made from recycled resources along with fees from services will be key parts to maintaining operational stability during market fluctuations.

Green Star seeks to eventually triple FRM's current capacity. According to PDC's 2015 Recycling Plan & Analysis (page 5) 18,160 tons of paper/paper board, glass, steel, aluminum and plastics go into FNSB's landfill every year. Green Star aims to eventually divert 15% of the recyclables entering FNSB's waste stream annually (2,724 tons).

A recovery rate of 227 tons per month, 12 months a year at average revenues of \$50 per ton will bring in projected revenues of \$136,200 annually. 227 tons per month is a conservative 15% of the 18,160 tons of recyclable material going into our landfill (according to PDC's 2015 Recycling Plan & Analysis, page 5).

The \$50 per ton revenue calculation is based on national standards used by for-profit recycling businesses. The industrial average for processing cost per ton is also approximately \$50 per ton according to Mollie Boyers at VCRS in the Mat-Su Valley.

Any surplus revenues from the sale of recyclable materials will help Green Star offset program expenses. We'll also provide education throughout our community to ensure the future place of recycling in the solid waste management and resource management of the FNSB. Green Star plans to control processing costs through the continued use of volunteers including participants in local community and work service programs.

G. Any additional information, specifications, contracts, etc., that will assist the Recycling Commission in evaluating your proposal. You may include in your Plan expansions or explanations of your answers on this form.

Green Star is a proven expert in electronics recycling, but we lack experience with large volumes of other recyclable materials. The Fairbanks Rescue Mission has 7 years of experience and a fully developed expansion plan. FRM is available to act as a consultant to Green Star as we step into this new venture. We are seeking \$10,000 from the FNSB to cover FRM's time and expertise over the next 3 months to train our recycling center manager. FRM has offered to allow our staff to shadow their employees through 6/30/16 and remain on call to advise Green Star on recycling related issues as needed thereafter. FRM is committed to helping Green Star succeed.

The advantage of our non-profit operating the Recycling Program is that we are mission driven and can afford to break even whereas a for-profit entity would require a profit. Our non-profit can also recruit volunteers to assist the recycling manager which will cut labor costs. In the past, FRM averaged five recycling volunteers per day, so Green Star will turn to our database of 290 volunteers to help process our community's recyclables. Green Star is also approaching ALPAR to request a contract for 50 semi-truck trailers per year to backhaul recyclables to Anchorage.

Alaska Department of Commerce, Community, and Economic Development

Division of Corporations, Business and Professional Licensing

P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

GREEN STAR OF INTERIOR ALASKA

P.O. BOX 82391 FAIRBANKS AK 99708

owned by

GREEN STAR OF INTERIOR ALASKA

is licensed by the department to conduct business for the period

October 13, 2015 through December 31, 2016

for the following line of business:

81 - Services

56 - Administrative, Support, Waste Management and Remediation Services



This license shall not be taken as permission to do business in the state without having complied with the other requirements of the laws of the State or of the United States.

This license must be posted in a conspicuous place at the business location. It is not transferable or assignable.

Chris Hladick

City of Fairbanks
OFFICE OF THE CITY CLERK
800 CUSHMAN STREET
FAIRBANKS, AK 99701-4615

101264
GREEN STAR OF INTERIOR ALASKA
PO BOX 82391
FAIRBANKS, AK 99708



City of Fairbanks
800 CUSHMAN STREET
FAIRBANKS, AK 99701-4615
(907) 459-6715

License/Permit No. 5213

2016 BUSINESS LICENSE

DBA: GREEN STAR OF INTERIOR ALASKA

License Expires: 12/31/2016

101264
GREEN STAR OF INTERIOR ALASKA
PO BOX 82391
FAIRBANKS, AK 99708

Line of Business Code: 81

Line of Business: OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)

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Licenses must be renewed timely to remain compliant and operational within the City of Fairbanks. Licenses/Permits must remain on premises or holder must be able to produce it upon request.

Issue Date: 01/01/2016

J. Janyville Snider
City Clerk

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PAGE 35 OF 49

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**APPLICATION FOR SPECIAL RECYCLING PROJECTS
PURSUANT TO FNSBC 8.12.034**

Please fill in all sections of this sheet. All starred items are required before the Recycling Commission will evaluate your proposal. Other relevant documents and your "Plan" should be attached.

- 1. * **COMPANY/ORGANIZATION NAME:** Alliance for Reason and Knowledge
- 2. * **TITLE OF PROPOSAL:** Zero Waste Alaska- Phase one: Education

3. * **BRIEF SUMMARY OF PROPOSAL:**

Allocate \$20,000 towards the production of a film that highlights and celebrates the materials reclamation community (dumpster divers or as they are becoming known "Makers"). Film has helped many social justice movements including the film about energy independence that helped Burlington, Vermont become of the first energy independent communities in the nation.

4. * **NAME(S) AND TITLE OF PRINCIPALS OF COMPANY/ORGANIZATION:**

Name	Title
Bill St. Pierre	Board Member
Christy Lungaro	Board Member
Chistopher Ripple	Board Member

5. * **CONTACT PERSON:**

Name. Robert Shields
Address: 145 Marten Drive, Fairbanks, Alaska 99712
Phone: 907-456-3300
Email: robert@a-r-k.us

6. * **VALID ALASKA BUSINESS LICENSE:**

Copy attached: X Yes No

In addition, a valid City Business License is required if doing business within the City boundaries. Attached: Yes No X Not applicable

- 7. * **PROOF OF FINANCIAL RESOURCES IN PROPORTION TO THE BUSINESS PURPOSE** (additional pages may be attached or expound upon this in your business plan):
See Attached financial statement

- 8. * **AUTHORIZED SITE APPROVAL BY DEC AND FNSB, IF APPLICABLE.**
Not Applicable

9. * Submission of a Business Plan to Show (please attach)

See Attached Proposal

10. * ARE YOU ASKING FOR BOROUGH FUNDING? X Yes No

If Yes:

A. How much? \$20,000

B. For what time period? One year

C. One time or ongoing? One-time

D. What are estimated monetary needs for trial (first) period? \$ N/A

E. What are estimated monetary needs for further time-periods? \$ N/A

(NOTE: Approval of this plan at this level does NOT guarantee Borough funding)

11. * HOW DO YOU SEE YOUR PROPOSAL AFFECTING THE OVERALL IMPACT ON THE GOAL OF RECYCLING AND REDUCTION OF SOLID WASTE GENERATED IN THE BOROUGH?

Celebration has always been an effective means of education. It is not for the pioneers, entrepreneurs, and trail blazers that are the early adopters but the celebration of their accomplishments (including survival) that inspire others to follow their own dreams. In this case, the film is set to engage and inspire those with a talent and passion for starting a small recycling business to see what is and can be done here. Modeling the social media driven format of the Vermont Energy Independence Day film, the project is expected to take one year for filming, editing, and processing.

Date: March 31, 2016

Print Name: Robert Shields, Executive Director



Alliance for Reason and Knowledge

Planting the seeds of a sustainable tomorrow

145 Marten Dr. Fairbanks Alaska 99712 (907) 799-7045

www.a-r-k.us

Proposal for Funding from FNSB Recycling Commission

Zero Waste Alaska- Phase One: Education

March 31, 2016

Executive Summary

The idea of a Zero Waste Alaska is the only economically viable option for Alaska. Our geographically remote communities relatively small populations require innovation in handling safely and efficiently our wasted resources. The vibrant “dumpster diving” community is the heart of that innovation and a natural solution to recycling in the Interior. The Fairbanks North Star Borough can be a leader in the global zero waste movement by making the concentrated effort to model to this natural economy and develop a scalable solution to total reclamation of materials brought into or generated in our region. The Zero Waste Alaska campaigns seeks to fulfill ARK’s mission by enriching the public good through a proposed update to the 2015 Recycling Report as necessary to develop a dynamic plan of action; educating the public with the creation of a film highlighting this special community with a general call for a Zero Waste Alaska Day; and empowering the public by hosting a Maker Fair and offering economic stimulus (prizes) for business proposals. These actions collectively are engineered to stimulate the local reclamation market by inspiring innovative solutions to seeing our waste as a resource and developing plans for its economic utilization.

This portion of the plan requests the FNSB Recycling Commission forward the Assembly the recommendation to allocate \$20,000 towards the production of a film that highlights and celebrates the materials reclamation community (dumpster divers or as they are becoming known “Makers”). Film has helped many social justice movements including the film about energy independence that helped Burlington, Vermont become of the first energy independent communities in the nation. We can use a similar format and a call for a Zero Waste Alaska Day as the motivation for involvement by the public.

Anticipated Impacts

Celebration of accomplishments have always been an effective means of education. It is not for the pioneers, entrepreneurs, and trail blazers that are the early adopters but the celebration of their accomplishments (including survival) that inspire others to follow their own dreams. In this case, the film is set to engage and inspire those with a talent and passion for starting a small recycling business to see what is and can be done here. The impacts of a Zero Waste Alaska Day are intended to shift the social compass when looking in their trash cans and at the landfill from “trash” to

“treasure”. Many communities are beginning to mine their landfill for the precious resources they contain and this film will inspire those things to eventually happen here.

Project Team

The Alliance for Reason and Knowledge, ARK, is a 501c3 organization established in 2011 here in Fairbanks. Our mission is to provide educational opportunities that empower individuals and enrich communities. The organization is managed by a board of directors and a volunteer staff. Zero Waste Alaska has been a program we have passively cultivated over the last several years. The current executive director, Robert Shields would be the primary agent and contact on this proposed plan. His 30 background is in dumpster diving; with an education in “garbology”; and 10 practical business experience in building reclamation and recycling in Portland, Oregon. Directly he is a founding member of the Sustainable Today TV program produced in Oregon City, Oregon, www.sustainabletoday.org.

We have engaged Tom Hopkins of Asia-Pacific Production in Milwaukie, Oregon to assist with production development and editing. Mr. Hopkins has an extensive background in filming all over the world and is the main production resource of the Sustainable Today cable broadcast show.

Anticipated Audience

This film is for the people of Alaska. We anticipate reaching out to communities all over the state and looking to establish economic solutions for community reclamation that are viable here and in rural communities throughout the state.

Project Timeframe

With funding in June the project would take 30 days to organize and script; three months of gathering footage and interviews, and three-five months to edit the footage into the final piece. Total estimated timeline for production is eight-twelve months.

Consistency with the Borough’s Overall Recycling Plan

The current Borough’s recycling plan is to ship to vendors outside of Alaska our highest value recycle material at the cost of tax payer funds, good paying jobs, and materials with which to build an industrial base. As a collective, these plans are a reverse of that material flow and begin an earnest search for economics solutions utilizing all wasted resources here locally to the maximum benefit of our citizens.

Deliverables

The final product will be 30 to 60-minute documentary.

Budget

The initial budget for this plan is \$20,000 with \$5,000 allocated for the social media campaign to capture footage; and \$15,000 for editing and final production of the film. Final contract pending approval from the committee.

For Office Use: Received: Date: _____ By: _____
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**APPLICATION FOR SPECIAL RECYCLING PROJECTS
PURSUANT TO FNSBC 8.12.034**

Please fill in all sections of this sheet. All starred items are required before the Recycling Commission will evaluate your proposal. Other relevant documents and your "Plan" should be attached.

1. * **COMPANY/ORGANIZATION NAME:** Alliance for Reason and Knowledge

2. * **TITLE OF PROPOSAL:** Zero Waste Alaska: Phase one Empowerment

3. * **BRIEF SUMMARY OF PROPOSAL:**

Allocate \$20,000 towards hosting a "Makers Fair" for the Fairbanks community that invite entrepreneurs to share and sell their creations for a day. \$5000 would be allocated for the organization and advertising of the event, and the remaining \$15,000 could be offered as prize money in a zero waste recycling micro-business plan competition. \$5000 top prize; two \$2,500 second place prizes; and five 3rd place \$1000 prizes. Even \$1000 is a jump on a micro business and can lead to economic prosperity for individuals and a reduction of the materials economy that reaches the landfill.

4. * **NAME(S) AND TITLE OF PRINCIPALS OF COMPANY/ORGANIZATION:**

Name	Title
Bill St. Pierre	Board Member
Christy Lungaro	Board Member
Chistopher Ripple	Board Member

5. * **CONTACT PERSON:**

Name: Robert Shields
Address: 145 Marten Drive, Fairbanks, Alaska 99712
Phone: 907-456-3300
Email: robert@a-r-k.us

6. * **VALID ALASKA BUSINESS LICENSE:**

Copy attached: Yes No

In addition, a valid City Business License is required if doing business within the City boundaries. Attached: Yes No Not applicable

7. * **PROOF OF FINANCIAL RESOURCES IN PROPORTION TO THE BUSINESS PURPOSE** (additional pages may be attached or expound upon this in your business plan):
See Attached financial statement

8. * **AUTHORIZED SITE APPROVAL BY DEC AND FNSB, IF APPLICABLE.**
Not Applicable

9. * Submission of a Business Plan to Show (please attach)

See Attached ZWA- Empowerment Proposal

10. * ARE YOU ASKING FOR BOROUGH FUNDING? X Yes No

If Yes:

A. How much? \$20,000

B. For what time period? One year

C. One time or ongoing? One-time

D. What are estimated monetary needs for trial (first) period? \$ N/A

E. What are estimated monetary needs for further time-periods? \$ N/A

(NOTE: Approval of this plan at this level does NOT guarantee Borough funding)

11. * HOW DO YOU SEE YOUR PROPOSAL AFFECTING THE OVERALL IMPACT ON THE GOAL OF RECYCLING AND REDUCTION OF SOLID WASTE GENERATED IN THE BOROUGH?

The recycling industry is a booming billion dollar a year global economy. Because of innovations in the market those industrial opportunities, which have in the past required millions in capital and vast acreage of land can now be done with only a few thousand and a spare room of the house or garage. As an economically-driven educational nonprofit, ARK believes that coordinating a day event for local merchants and offering incentives to develop and present business plans, is the most cost effective way to empower industrious members of the community to step forward. If considered for funding, we can also reach out to SBDC and UAF SOM to offer support for contestants and develop a matrix for gauging submissions. Funded in June the event would likely happen the fall, depending on final scope and venue.

Date: March 31, 2016

Print Name: Robert Shields, Executive Director



Alliance for Reason and Knowledge

Planting the seeds of a sustainable tomorrow

145 Marten Dr. Fairbanks Alaska 99712 (907) 799-7045

www.a-r-k.us

Proposal for Funding from FNSB Recycling Commission

Zero Waste Alaska- Phase One: Empowerment

March 31, 2016

Executive Summary

The idea of a Zero Waste Alaska is the only economically viable option for Alaska. Our geographically remote communities relatively small populations require innovation in handling safely and efficiently our wasted resources. The vibrant “dumpster diving” community is the heart of that innovation and a natural solution to recycling in the Interior. The Fairbanks North Star Borough can be a leader in the global zero waste movement by making the concentrated effort to model to this natural economy and develop a scalable solution to total reclamation of materials brought into or generated in our region. The Zero Waste Alaska campaigns seeks to fulfill ARK’s mission by enriching the public good through a proposed update to the 2015 Recycling Report as necessary to develop a dynamic plan of action; educating the public with the creation of a film highlighting this special community with a general call for a Zero Waste Alaska Day; and empowering the public by hosting a Maker Fair and offering economic stimulus (prizes) for business proposals. These actions collectively are engineered to stimulate the local reclamation market by inspiring innovative solutions to seeing our waste as a resource and developing plans for its economic utilization.

This portion of the plan requests the FNSB Recycling Commission forward the Assembly the recommendation to allocate \$20,000 towards hosting a “Makers Fair” for the Fairbanks community that invite entrepreneurs to share and sell their creations for a day. Even \$1000 is a jump on a micro business and can lead to economic prosperity for individuals and a reduction of the materials economy that reaches the landfill.

Anticipated Impacts

The recycling industry is a booming billion dollar a year global economy. Because of innovations in the market those industrial opportunities, which have in the past required millions in capital and vast acreage of land can now be done with only a few thousand and a spare room of the house or garage. As an economically-driven educational nonprofit, ARK believes that coordinating a day event for local merchants and offering incentives to develop and present business plans, is the most cost effective way to empower industrious members of the community to step forward. If considered for funding, we can also reach out to SBDC and UAF SOM to offer support for contestants and develop a matrix for gauging submissions.

Project Team

The Alliance for Reason and Knowledge, ARK, is a 501c3 organization established in 2011 here in Fairbanks. Our mission is to provide educational opportunities that empower individuals and enrich communities. The organization is managed by a board of directors and a volunteer staff. Zero Waste Alaska has been a program we have passively cultivated over the last several years. The current executive director, Robert Shields would be the primary agent and contact on this proposed plan. His 30 background is in dumpster diving; with an education in “garbology”; and 10 practical business experience in building reclamation and recycling in Portland, Oregon.

Directly, ARK has organized a Resilient Alaska conference in 2012. Additionally, we have hosted the Fairbanks Solar Tours in 2013 and 2015. ARK is the only local organization to also complete the Terra Cycle sales loop where innovative recycling of items like candy wrappers and chip bags were successfully shipped out for recycling in a cost neutral fashion where the revenue earned covered the cost of shipping. Finally, the Alaska Resiliency Institute (ARK’s flagship schools/job-training center) is nearing completion of our primary classroom and offices which have been constructed using 95% locally reclaimed material.

Anticipated Audience

This plan is geared toward potential entrepreneurs local to the FNSB. The intent is to engage the local manufacturing community to develop innovation solutions that convert our wasted resources into either a value added product or at least a value added material that can be used to create products of use and need to local clients.

Project Timeframe

With funding in June the event would likely happen the fall (perhaps following spring), depending on final scope and venue.

Consistency with the Borough’s Overall Recycling Plan

The current Borough’s recycling plan is to ship to vendors outside of Alaska our highest value recycle material at the cost of tax payer funds, good paying jobs, and materials with which to build an industrial base. As a collective, these plans are a reverse of that material flow and begin an earnest search for economics solutions utilizing all wasted resources here locally to the maximum benefit of our citizens.

Deliverables

The final product will be a one day, eight-hour fair, which concludes with an award ceremony. Once organized we can provide three months for people to submit proposals and the members of the Recycling commission can judge the winners a month before the event.

Budget

The initial budget for this plan is \$20,000 with \$5000 to be allocated for the organization and advertising of the event, and the remaining \$15,000 could be offered as prize money in a zero waste recycling micro-business plan competition. \$5000 top prize; two \$2,500 second place prizes; and five 3rd place \$1000 prizes.

For Office Use: Received: Date: _____ By: _____
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**APPLICATION FOR SPECIAL RECYCLING PROJECTS
PURSUANT TO FNSBC 8.12.034**

Please fill in all sections of this sheet. All starred items are required before the Recycling Commission will evaluate your proposal. Other relevant documents and your "Plan" should be attached.

1. * **COMPANY/ORGANIZATION NAME:** Alliance for Reason and Knowledge

2. * **TITLE OF PROPOSAL:** Zero Waste Alaska- Phase One: Enrichment

3. * **BRIEF SUMMARY OF PROPOSAL:**

Allocate \$10,000 towards the revisions of the Fairbanks Recycling plan released in 2015 as conducted by PDC. Currently technological advancements as well as process advancements make it possible to convert 99% of the material brought or generated in this community into marketable solutions that serve urban and rural communities alike. An update to the plan will include such opportunities as well as supportive policy options to nurture industrious activities that reduce the total amount of solid waste delivered to the transfer stations and/or landfills.

4. * **NAME(S) AND TITLE OF PRINCIPALS OF COMPANY/ORGANIZATION:**

Name	Title
Bill St. Pierre	Board Member
Christy Lungaro	Board Member
Christopher Ripple	Board Member

5. * **CONTACT PERSON:**

Name: Robert Shields
Address: 145 Marten Drive, Fairbanks, Alaska 99712
Phone: 907-456-3300
Email: robert@a-r-k.us

6. * **VALID ALASKA BUSINESS LICENSE:**

Copy attached: Yes No

In addition, a valid City Business License is required if doing business within the City boundaries. Attached: Yes No Not applicable

7. * **PROOF OF FINANCIAL RESOURCES IN PROPORTION TO THE BUSINESS PURPOSE** (additional pages may be attached or expound upon this in your business plan):

See Attached Financial Statement

8. * **AUTHORIZED SITE APPROVAL BY DEC AND FNSB, IF APPLICABLE.**

Not Applicable

9. * Submission of a Business Plan to Show (please attach)

See attached ZWA- Enrichment Proposal

10. * ARE YOU ASKING FOR BOROUGH FUNDING? X Yes No

If Yes:

A. How much? \$10,000

B. For what time period? One year

C. One time or ongoing? One-time

D. What are estimated monetary needs for trial (first) period? \$ N/A

E. What are estimated monetary needs for further time-periods? \$ N/A

(NOTE: Approval of this plan at this level does NOT guarantee Borough funding)

11. * HOW DO YOU SEE YOUR PROPOSAL AFFECTING THE OVERALL IMPACT ON THE GOAL OF RECYCLING AND REDUCTION OF SOLID WASTE GENERATED IN THE BOROUGH?

To make good decisions requires current information and that is what we hope to deliver to the borough. Contrary to the conclusion of the 2015 report, burying and shipping out our solid waste is not viable an option for reducing the generation of solid waste. We can utilize our extensive education and experience in waste management to properly inventory (in general) FNSB material economy and provide recommendations and potential challenges for various reclamation economic opportunities. Work expected to take approximately 6 months depending on final scope and conditions.

Date: March 31, 2016

Print Name: Robert Shields, Executive Director



Alliance for Reason and Knowledge

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Proposal for Funding from FNSB Recycling Commission

Zero Waste Alaska- Phase One: Enrichment

March 31, 2016

Executive Summary

The idea of a Zero Waste Alaska is the only economically viable option for Alaska. Our geographically remote communities relatively small populations require innovation in handling safely and efficiently our wasted resources. The vibrant “dumpster diving” community is the heart of that innovation and a natural solution to recycling in the Interior. The Fairbanks North Star Borough can be a leader in the global zero waste movement by making the concentrated effort to model to this natural economy and develop a scalable solution to total reclamation of materials brought into or generated in our region. The Zero Waste Alaska campaigns seeks to fulfill ARK’s mission by enriching the public good through a proposed update to the 2015 Recycling Report as necessary to develop a dynamic plan of action; educating the public with the creation of a film highlighting this special community with a general call for a Zero Waste Alaska Day; and empowering the public by hosting a Maker Fair and offering economic stimulus (prizes) for business proposals. These actions collectively are engineered to stimulate the local reclamation market by inspiring innovative solutions to seeing our waste as a resource and developing plans for its economic utilization.

This portion of the plan requests the FNSB Recycling Commission forward the Assembly the recommendation to allocate \$10,000 towards the revisions of the Fairbanks Recycling plan released in 2015 as conducted by PDC. Currently technological advancements as well as process advancements make it possible to convert 99% of the material brought or generated in this community into marketable solutions that serve urban and rural communities alike. An update to the plan will include such opportunities as well as supportive policy options to nurture industrious activities that reduce the total amount of solid waste delivered to the transfer stations and/or landfills.

Anticipated Impacts

In our waste is the first treasure trove of resources to reverse economic instability in the region and put us collectively on a path toward generational prosperity. The anticipated impacts of this report is that to make good decisions requires current information and that is what we hope to deliver to the borough through a final written report. Contrary to the conclusion of the 2015 report, burying and shipping out our solid waste is not viable an option for reducing the generation of solid waste. We can utilize our extensive education and experience in waste management to properly inventory (in

general) FNSB material economy and provide recommendations and potential challenges for various reclamation economic opportunities.

Project Team

The Alliance for Reason and Knowledge, ARK, is a 501c3 organization established in 2011 here in Fairbanks. Our mission is to provide educational opportunities that empower individuals and enrich communities. The organization is managed by a board of directors and a volunteer staff. Zero Waste Alaska has been a program we have passively cultivated over the last several years. The current executive director, Robert Shields would be the primary agent and contact on this proposed plan. His 30 background is in dumpster diving; with an education in “garbology”; and 10 practical business experience in building reclamation and recycling in Portland, Oregon.

Directly, ARK has organized a Resilient Alaska conference in 2012. Additionally, we have hosted the Fairbanks Solar Tours in 2013 and 2015. ARK is the only local organization to also complete the Terra Cycle sales loop where innovative recycling of items like candy wrappers and chip bags were successfully shipped out for recycling in a cost neutral fashion where the revenue earned covered the cost of shipping. Finally, the Alaska Resiliency Institute (ARK’s flagship schools/job-training center) is nearing completion of our primary classroom and offices which have been constructed using 95% locally reclaimed material.

Anticipated Audience

This plan is geared toward the FNSB Recycling Commission and the FNSB Assembly at large. To provide the relevant case studies, facts, and updated industry information as needed to recommend effective policy and support operations that reduce the amount of solid waste ending up in the landfill and provides value added economic benefit to the community at large. In our waste is the first treasure trove of resources to reverse economic instability in the region and puts us collectively on a path toward generational prosperity.

Project Timeframe

With funding in June work expected to take approximately 6 months depending on final scope and conditions.

Consistency with the Borough’s Overall Recycling Plan

The current Borough’s recycling plan is to ship to vendors outside of Alaska our highest value recycle material at the cost of tax payer funds, good paying jobs, and materials with which to build an industrial base. As a collective, these plans are a reverse of that material flow and begin an earnest search for economics solutions utilizing all wasted resources here locally to the maximum benefit of our citizens.

Deliverables

The final product will be a one day, eight-hour fair, which concludes with an award ceremony. Once organized we can provide three months for people to submit proposals and the members of the Recycling commission can judge the winners a month before the event.

Budget

The initial budget for this plan is \$10,000 to be paid to ARK for roughly 118 hours of consulting services related to the scope of work in developing and delivering the final product.