Proposal for

Sanitation Department
Solid Waste Baler Replacement
Due 2:00 PM April 18th, 2019

PETERSBURG
PUBLIC WORKS

By
Recycle Systems LLC
12828 Willows Road
P.O. Box 201
Kirkland WA 98083-0201
Toll-Free 888 453-9300

Project Manager -Steve Anderson- Cell 425 241-7746

Recycle Systems LLC

Mr. Chris Cotta
Assistant Public Works Director
The Petersburg Borough
303 2nd Street
Petersburg, AK 99833

April 10,2019

Dear Mr. Cotta,

Please let this letter serve as Recycle Systems LLC's commitment to provide equipment and services in response to your RFP for the Solid Waste Baler Replacement Project plus addendums 1 and 2. ***We will provide a new Harris Badger Baler, and REM baler feed conveyor with hot dipped galvanized supports, delivered and installed at your facility providing you the equipment exactly as called out in the RFP***.

Recycle Systems, Harris, and REM have extensive experience and expertise in MSW baling and will make sure your new system enhances employee productivity and safety and has a long service life. We are not newcomers to work in Alaska or Petersburg. Benefits to Petersburg in selecting Recycle Systems for this project include:

- Recycle Systems has over **35 years' experience** in providing MSW Harris balers and REM conveyors
- We are providing the **exact baler and conveyor per RFP specifications**
- The Harris Badger baler comes with an **extended factory warranty including a 5 year structural** warranty, and category 3 safety protection circuit.
- Recycle Systems knows that MSW handling is a time critical function and **during install we will accommodate your loose loading of MSW** in the southeast quarter of the building.
- For the long-haul Recycle Systems has **full time service technicians and parts support in Seattle** and can also provide **remote troubleshooting via Ethernet**
- The same people that sell the equipment will be on site during installation and start-up to assure that nothing gets "lost in translation".
- Members of our team have already visited your facility and **have on site experience** working at your facility.

We look forward to working with you and your staff. If you have any questions or comments, please feel free to contact me or Steve Anderson of Recycle Systems LLC. Steve works out of our Kirkland office but will be on site before, during, and after this project to assure your expectations are fulfilled.

Sincerely,

Greg Matheson
President
Recycle Systems LLC

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4.4 Experience

Recycle Systems has been in business since 1981 and during the last 38 years has worked to meet customers equipment needs in 14 western states including Alaska and in Western Canada. We have sold balers, baler feed conveyors, sorting systems, compactors, and MSW handling equipment. Our job starts by listening to customers and helping them define their needs and then working with equipment manufacturers to meet them. For us completing a project includes installation and start-up and demonstrating and training our customers to meet their goals. Once equipment is in place we have experienced service technicians to take care of equipment maintenance and repair. Many common parts are available in our inventory or from our vendor network in Seattle so they can be shipped via Alaska Gold Streak up to Petersburg on same day or second day. We also have an electrical controls expert so that once your baler is installed and provided with an Ethernet connection quick trouble shooting help can be given directly to your maintenance staff. **We are focused on keeping your machine running with minimum down time with easily accessible product support.**

Harris Equipment built the current Badger baler installed in 1996 which is still running today. Today's Badger is the most popular two ram baler in North America. For over 100 years, Harris has been an industry leader in manufacturing scrap recycling and processing equipment. Harris is a world class front-runner in manufacturing two ram balers to process recovered papers, paperboard, plastics, solid waste, and non-ferrous metals. Working in these industries they know the impact of downtime and for this reason have a strong distributor network and maintain large parts inventories at distributor sites and the manufacturing plants for prompt availability of replacement parts. **Harris continues to support machines out in the field that are 35 – 40 years old which is a testament to equipment longevity and a the company's continuing product support.**

Recycling Equipment Manufacturing, Inc. got its start in Spokane in 1978. REM strives to enforce high standards in the equipment we build. REM is continuously upgrading to more modern production machinery and by striving to promote high morale among the employees. These factors allow REM to sell equipment at affordable prices in a competitive marketplace. The REM® OSCAR Chain Belt Conveyor we are proposing here is part of their line of tough, heavy-duty feed conveyors. **REM®'s Oscar Chain Belt Conveyor is built for years of service and low maintenance, featuring time-proven, field-tested designs that will last for the long run—your belt will have even more enhanced durability due to galvanized support structure in the conveyor pit.**

References for Recycle Systems REM Conveyor Belt Collaboration:

Town of Banff **Ken Crerar 403 762-1244**
120 Hawk Ave.
Banff AB Canada 2008 provided a sort system, baler, and REM rubber drag chain baler feed conveyor

Skagit River Steel and Recycling **Todd Reynolds 360 757-6096**
PO Box 376
Burlington WA 2009 provided a baler and REM rubber drag chain baler feed conveyor

Saskatchewan Abilities Council **Sandy Bilan 306 621-2761**
180 Ball Road
Yorkton SK 2012--Provided baler and REM rubber drag chain baler feed conveyor

American Recycling Corporation **Glen Dart 509 535-4271**
PO Box 11337
Spokane, WA 99211 2012 ---Provided baler feed conveyor. Steel hinge pan type to feed Badger Baler.

References Continued.....

Columbia Recycling **Hai Nguyen 503 232-2216**
11402 NE Marx
Portland, OR 97220 2014 ---Installed baler and REM rubber slider bed feed conveyor

4.5 Project Manager

Steve Anderson- Recycle Systems-Technical Sales
Steve Anderson entered the recycling equipment industry in 1989 and has served as a technical sales representative for Recycle Systems Alaska customers since 1994 when he was involved with the sale and installation of a large Harris HRB baler for baling of MSW at Prudhoe Bay. Steve has also worked with Anchorage Recycling Center now Rock Tenn Anchorage plant, and numerous small villages. One of the more interesting projects we had was providing compaction equipment for Bristol Environmental to do clean up on Saint Laurence Island. "Not quite in Russia, but close." The point is that Recycle Systems and Steve Anderson have plenty of experience working on Alaska projects

4.6 Key Project Staff and Subcontractors

Jeremy Cornelson – Recycle Systems Site Superintendent
Jeremy has been with Recycle Systems for 7 years and before that worked maintaining equipment in the sand, gravel, and quarry industry. Working with Recycle Systems he has done over a dozen two ram baler installations. Working on these complicated projects Jeremy has distinguished himself by helping out others on the job site and getting a lot of harmony and coordination. Jeremy has received OSHA 10 training, is qualified on confined space protocols, and a certified forklift instructor.

Joshua Burns- REM --- Josh Burns began in the aerospace industry and during an industry downturn began working for REM in Spokane in 2003. Working with Josh, customers benefit from his deep background and understanding of engineering and design. Josh was on site in Petersburg in 2016 in connection with a prior conveyor RFP, and will also be on site this time at project outset to make sure his layout drawings reflect site conditions and then be back to assist during installation.

Petersburg Tonka Toy Rentals, Will be providing lifting and welding equipment for the project.

Mattingly Electric, Will be providing electrical work disconnecting current power supply and hooking up the new equipment.

Accent Wire Tie. Bobby Fields of Accent will be on site during the installation, start up and training on the wire tie.

4.7 Available Resources

Please see the previous sections on project staff and subcontractors which indicate the equipment, supplies and services which we will devote to this project. Recycle Systems has a **staff of 15 including, 7 full time service technicians** equipped with the tools and knowledge to install and maintain recycling and MSW handling equipment. We have a **parts inventory in Seattle** with common baler items and staff that can get **"online" with your machine for trouble-shooting** help. If we don't have the parts needed then we have **parts from Harris** and access to a **local supply base** in the Puget Sound and nationally with hundreds of sources for parts and service support.

4.8 Contractor Location

Recycle Systems is located in Kirkland Washington. We are experienced working with customers over a wide geographic area and will make sure that distance isn't a factor in working with Petersburg. We are always sure to "be there in person" to do the site survey and for installation and start-up. Note also that your methodology has clear procedure for three site visits to get good involvement and input from all parties to assure project success.

4.9 Project Methodology and Approach

The sequential steps in this project are as follows:

1. Site Survey
2. Baler/Conveyor Layout and Draft Installation plan
3. Comparison of Design with Site Parameters – Checking clearances etc.
4. Modifications as Required
5. Final Design Approval Drawing
6. Manufacturing
7. Written installation plan and sequence.
8. All Parties Sign off on Actual Shipment and Installation Dates
9. Arrival of Equipment --- Installation
10. Start-Up, Safety Review and Training
11. Provision of all Manuals, Warranty Procedures, Training Materials etc. for Petersburg's permanent files.

Each step in this process is designed for a collaborative approach to move the project towards a successful completion.

We know that shipment and delivery to the site must be coordinated with all parties well in advance. When manufacturing nears completion, we look at shipment schedules and possible installation dates, and get a "sign-off" from everyone involved before the equipment ships out from the manufacturer. *The idea is to minimize surprises and maximize prior planning and communication*

From experience we know a ***written installation plan*** is important to get out in front of everyone involved early in the planning process. This allows for their input as to preparation, sequencing, and avoiding interference with operations. For example; In this case conveyor placement taking one day early in the installation will be potentially the most disruptive aspect of the installation. We know we need to avoid impact on loose loading of trash in the south east corner of the building. Most access will need to be through the other door and we can work late in the evening if necessary to accommodate continuing operations. Once the conveyor is in place then the baler portion of the installation and most other steps can be conducted entirely out of the way of operations.

4.10 Equipment and Warranty Information

The proposed Badger 50 HP S2 baler is exactly the machine specified in the RFP. This machine is the updated model to the current 1996 Badger on site with a 10 inch main cylinder and 8 inch eject. At this point, we are proposing a baler layout and configuration that puts the baler and the hydraulic power unit in approximately the same basic positions as they sit currently. With the new baler the main electrical feed goes into the panel on the HPU, not into the control console. This will require wiring the current electrical feed to the new location which can easily be done. As an alternate idea we can look at positioning the HPU between the main cylinder and the conveyor to see the savings versus access issues this might involve. **One other electrical note is new baler may require upgrading the current 125 AMP main breaker to 150 AMP. Our cost proposal includes cost of this upgrade to avoid surprises later.** Detailed baler specifications are provided in the appendix to this proposal. Some of the highlights are as follows:

<u>Harris Badger Baler Model Badger L 50 S-2 10-8</u>

- Safe 3500 psi operating system with 239 psi ram face pressure on gatherer
- 85" x 42" clear top opening on charge box
- Combo door for closed door baling and oversize bale release – can also run in plug bale mode
- **Fully integrated control system** including laser locating system for main platen, eject platen, combo door positioning baler runs automatically with conveyor and All functions shown on a HMI touch screen.
- Smart Knife gap adjustment system and externally bolted hold-down bars on side of hopper allows easier **safer knife and hold down adjustments** with less time for personnel inside the machine
- Baler has updated guarding and **Category 3 safety interlock circuit for utmost protection of operators**
- Harris flame hardened main cylinder rod and over thick cylinder walls with Teflon piston packing.
- Standard oil reservoir heater, non-ferrous floor strips, conveyor starter controls- Shipping weight 28.5 tons
- **5 year factory warranty on structure, 2 year factory warranty on cylinder rod and tube, 1 year or 2,000 hours on labor. See appendix to proposal for actual warranty coverage and limitations**

<u>REM OSCAR – Combo Belt Conveyor</u>

Recycle Systems has worked with REM on belt specifications that are beefed up to withstand operating in tough environments. A drawing of the proposed belt is included in the appendix to this proposal. Here are some technical points where REM equipment is superior:

- **Conveyor support frame and legs with leveling supports are all hot dipped galvanized ASTM-123 for an 8 foot deep pit.** Conveyor is primed with 86850 Duraprime primer and painted with Alkyd all-purpose equipment enamel for superior corrosion resistance
- Belt is constructed of 3 ply 330 rubber belt 3/16th x 60 with 40 durometer flange on both sides
- WH- 111 plus drag chain on the edges with welded flat bar supports every 38".
- Cleats are ¼" thick angles with 4" and 3" alternating heights.
- **Chain tracks are lined with ½ inch UHMW**
- Loading area and first 6 feet of incline is beefed up to protect against impact with lengthwise runners extending 6' up the incline with 8"X1/2" UHMW glides to reduce wear on the belt and the machine.
- **UHMW return rollers support the returning conveyor belt but allow dirt and grit to drop free of belt.**
- Side walls are constructed of 1/4" plate.---**1/2 inch thick pit plates are provided to support your loader**
- Legs are constructed of structural steel square tube with adjustable telescoping feet for leveling.
- The drive consists of a motor connected to a planetary gear reducer using V-belts. Having a V- belt is essential to serve as a "fusible link" in the event the belt is mechanically jammed.
- Belt speed approximately 38 fpm driven by a 7.5 HP motor
- **Two emergency shut off buttons and cable pull safety shut downs along conveyor sides to top of the belt.**

Please see detailed product specifications for both baler and conveyor plus warranty information in the appendix.

4.11 Cost/Fee Schedule

Lump sum cost to complete all services required in Section 3 and subsequent addenda including:
3 Survey trips to site to confirm job details with Installation Job Supervisor
Approval drawing for Petersburg review
Freight, Unloading
Installation of New Conveyor and baler, installing current wire tie on new baler. (Removed by Petersburg)
New Electrical conductors to New 150 Amp Baler Disconnect and wiring to HPU main electrical panel close to current position. All field wiring by Mattingly Electric.
Start-Up one day and Training 2 days
1% filing fee to State of Alaska Department of Labor for Little Davis Bacon Act, Bonding and prevailing wages.
(If all or part of the job could be equipment purchase not construction project –this amount may be reduced)

LUMP SUM COST $535,327.00

Customer responsibilities include:
Removing current baler and separating the Accent wire tier. (Preserving and labeling control wiring.)
Storing wire tie inside – Also need wire tie wire to be preserved from corrosion.
Free and clear access to the site for extended 12 hour working days during first week of installation.
Clearing all combustible material from conveyor and baler area
Fire watch hoses and extinguishers
Condition of floor, baler foundation embeds and pit walls and angle iron on side of pit
Equipment will be supplied with emergency stop buttons or pull cords --- customer is responsible to determine if any other safety features or equipment are required to comply with local or state requirements and for the cost of any additional items required.
Permits and Certifications if required

4.12 Project Schedule

Proposal due	April 18, 2019
Proposal Evaluation Completed	May 2nd, 2019
Preliminary baler order placed with Harris	May 6th, 2019 -- Assures August Completion at Factory
Site Survey/ Finalize Contract/Drawings	May 20, 2019
Manufacturing	(14 weeks) Completed August 15th 2019
Arriving Seattle at AML	August 22nd 2019
Arriving in Petersburg	August 30th 2019
Installation and Start-up	Weeks of September 9th and 16th
Actual installation, start up days	7 days plus 2 days training
Project Completion	**September 20th 2019**

Installation on site will begin with equipment unloading on a specified Monday. Conveyor placement will be on Tuesday and baler on Wednesday. Electrical work and assembly will continue for the balance of the work week. Our crew will work over the weekend on Saturday and Sunday only if required. Accent wire tie will be on site Monday to install wire tie and the baler and wire tie will be energized. Tuesday of the second week will be for start-up and testing. Training will be held on Wednesday and Thursday of that week. We would want to bale material on Tuesday, Wednesday, and Thursday of the second week of the installation.

Our baler and conveyor installation will only take 7 days from Tuesday through the following Tuesday