

# LOPEZ SOLID WASTE DISPOSAL DISTRICT REGULAR MANAGING BOARD MEETING

## MINUTES

Approved 5/16/18

WEDNESDAY, April 18, 2018  
LOPEZ ISLAND FIRE HALL MEETING ROOM  
1:00 PM to 3:00 PM

**Board members present:** Clark Johnson, Rhea Miller, Judy Meyer, Larry Bailey

**Board member absent:** none

**Others present:** District Manager Paul Andersson, Facilities Manager David Zapalac, Training Education and Outreach Coordinator Nikyta Palmisani, guest Clay Smith (skype)

Clark called the meeting to order at 1:01 PM, noting no changes to agenda.

**Rhea moved to approve the minutes from the March 14, 2018 regular meeting. The motion was approved unanimously.**

### Board business

**Financial Officer's report:** See Appendix 1 and 7 (below). Some of the reduced revenue is because of when revenue is received vs. when it was budgeted to be received, especially levy and excise tax revenue. Recycle tip fees are for items like appliances, for which we charge customers. Paul will send the board the best estimate of net recycling costs for each commodity.

The following voucher/warrants/electronic payments are approved for payment: Claim numbers 18010 through 18015 totaling \$ 16,091.01 and March payroll totaling \$11,920.15.

LSWDD passed the state audit with no written findings. There will be an exit interview with 1 or 2 board members and 1 member of the Governing Board, probably on May 7.

**Facility Manager's monthly report:** See Appendix 2 (below). Household hazardous waste collection will be June 24 from 11 AM – 2 PM. Because of the high cost for completely replacing aprons, David will look into simply replacing the broken sections.

The board had a long discussion about the need for more volunteers, particularly on Sundays. Several options were discussed: recruit new volunteers from seasonal residents emphasizing this as our annual recruitment time; need a letter to the editor

from a volunteer; consider temporary volunteering; Rhea is willing to talk with tourists about how to use the facility; an additional person is needed at TIOLI on Sunday; there should be a map of the facility at the kiosk; safety is a real concern; stop taking donations at TIOLI at 2:30; start summer hours the end of May rather than June 21; add \$1/bag if come in the last hour on Sunday. The board also discussed the impact of 90 Air BNB and VRBO rentals on the island. Should we require AirBNB to comingle their recyclables and then charge for that? The Chamber website should include information about the dump.

**Operations Committee** Fewer TVs are showing up in e-cycle. ORCO picks up oil and antifreeze twice per year, which costs us \$485. LSWDD collects 100 tons mixed paper per year, and Skagit Steel and Recycling has not yet explained why LSWDD was charged \$65/ton rather than \$30/ton. The committee recommends that we no longer accept printers for recycling, telling customers that Best Buy and Staples will take them for free. LSWDD gets 3-4 printers/day. The board will make a decision on this at the May meeting after Paul and Nikyta provide a report on what the other islands are doing and an analysis of the options.

**District Manager's monthly report:** See Appendix 7 (below). David and Nikyta are going to the WSRA conference May 21-22. Nikyta will be giving a talk at the conference on May 22 and also at a Maker conference in San Francisco on May 20. She will make a presentation to the community on May 9 as a rehearsal for these talks.

The board reviewed the capital improvements budget. David is revising the design for the glass container to get it closer to the budgeted amount.

The draft employee travel policy was discussed. **Judy moved approval of the policy with the modifications suggested by Clark.** Discussion clarified that the board puts restrictions on travel expenditures during the budget preparation and any changes have to be approved by the board. **The motion passed unanimously.** The approved policy can be found in Appendix 3.

LSWDD has had monumental IT problems this month, and Bill Clemens has put in over 80 hours trying to repair the situation. The board feels that he should be paid something for this work. Paul will discuss with Bill whether he would prefer an hourly rate (\$25/hour) or a retainer (\$500). This will be on the May agenda. Bill should receive a contribution receipt from SWAP for all the hours he has put in this month. The board discussed the need for remodeled interior of the kiosk and the possibility of automatic backup for the harddrives.

Povl Lasbo does not appear to have made any progress on LISSY documentation. Paul will follow up with him.

**Management Committee** did not meet.

**Administration Committee** did not meet.

**Public Relations Committee** did not meet.

**Plastics Committee** The committee has met twice, and their reports are attached as Appendix 4. **Clark moved that the committee be asked to provide action items to be voted on at the May board meeting.** The board needs to decide how LSWDD will handle plastics from July – December. **The motion passed unanimously.**

**Administrator's report:** See Appendix 8 (below). Garbage is going up and recycling is going down. Clark will analyze how this is evolving.

**Training, Education and Outreach Coordinator's report:** See Appendix 5 (below). The Great Islands Cleanup will be April 22 from 10 AM – 2 PM; separating recyclables from trash will begin at 11. Clark noted that the Year to Zero campaign is a brilliant idea and encouraged more contact with LVM. The bag campaign is going well. Bag donations are brought to TIOLI and cleaned by SWAP. It would be best if they could be returned to the container where they were picked up.

### **Other reports**

**Solid Waste Alternatives Program** See Appendix 6 (below).

**Solid Waste Advisory Committee** The county's response to Ecology's edits to the Solid Waste Management Plan have been sent in. The committee is considering including 2.5 mm bags in the plastic bag ban pending community outreach. LSWDD members of SWAC were asked to bring up the issue of the impact of vacation rentals on solid waste county-wide.

**Old business** handled during District Manager's report.

### **New business**

Clay Smith's application for board membership was sent to all board members. **Clark moved that his application be accepted. The motion passed unanimously.** Paul will send our decision to the Governing Board so that they can vote on his appointment.

Setting objectives for budget discussions in the next three board meetings: We want to show the community that this board is intent on having a balanced budget.

May -- What is the target balance for reserve funds? How much would be needed if the levy failed? Are these funds available to finance major purchases or capital improvements?

June -- What would a 3-4 year economic downturn mean? Are there ways to reduce our budget so that the 2019 budget is balanced (e.g., cut budget lines,

increase garbage fees, increase levy). Schedule special budget meeting for early July.

July – Approve 2019 budget.

Should LSWDD form a policy committee? This would be an advisory committee that brings potential alternatives to the board. Some of the obstacles LSWDD faces in working toward zero waste are because of governmental policies and manufacturer practices. One way to do something about these would be to form an advisory committee whose task would be to develop alternatives to tackle those “upstream” obstacles, present them to the board for approval, and then implement the chosen alternative. More details on this idea are needed before the board can act. What are the opportunities for interaction with SWAC and Washington State Recycling Association on policy issues? This may be more of a burden than this committee could handle.

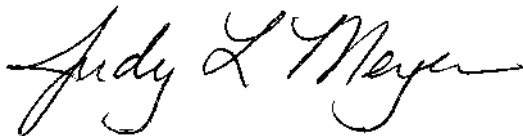
Nikyta asked that we put planning a volunteer appreciation event on the May agenda.

**Idea pot**

The board briefly discussed the current procedure that LSWDD implement changes only in January and July. Any pricing changes have to be approved by the Governing Board.

The meeting was adjourned at 3:15 pm. The next regular board meeting is May 16, 2018.

Respectfully submitted,



Judy Meyer,  
Secretary  
[judym@lopezsolidwaste.org](mailto:judym@lopezsolidwaste.org)

## Appendix 1

	Jan - Mar...	Budget	% of Bud...
LSWDD Profit & Loss Budget vs. Actual January through March 2018			
Income			
Tax Levy Revenue (311.10.00.0000)	16,928.14	19,422.00	87.2%
Timber Harvest Tax Revenue (317.40.00.0000)	0.00	0.00	0.0%
Excise Tax Revenue (318.45.00.0000)	10,808.60	12,359.00	87.5%
Garbage Tip Fee Revenue (343.70.00.0000)	34,178.25	30,643.00	111.5%
Recyclables Sales Revenue (343.70.00.0001)	2,697.07	2,747.00	98.2%
Recyclables Tip Fee Revenue (343.70.00.0002)	1,829.50	1,617.00	113.1%
Investment Interest, LGIP (361.11.00.0000)	662.64	249.00	266.1%
Donations (367.00.00.0000)	160.78	0.00	100.0%
Cash Over (Short) (369.81.00.0000)	-6.69	0.00	100.0%
Late and NSF Fees, Penalties (369.90.00.0000)	0.00	0.00	0.0%
Refuse Tax (386.37.00.0000)	1,227.14	1,100.00	111.6%
<b>Total Income</b>	<b>68,485.43</b>	<b>68,137.00</b>	<b>100.5%</b>
Expense			
Wages (537.00.10.0000)	33,487.69	37,962.00	88.2%
Overtime (537.00.10.0001)	0.00	0.00	0.0%
FICA (537.00.20.0001)	2,561.81	2,904.00	88.2%
L&I (537.00.20.0002)	1,396.32	2,127.00	65.6%
Retirement (537.00.20.0003)	3,541.59	4,176.00	84.8%
Medical Benefits (6675.537.00.20.0020)	2,250.00	2,250.00	100.0%
Personnel Benefits (537.00.20.0009)	46.72	0.00	100.0%
Office & Operating Supplies (537.00.31.0000)	356.46	874.97	40.7%
Fuel (537.00.32.0000)	520.48	716.00	72.7%
Small Tools & Equipment (537.00.35.0000)	413.62	1,249.97	33.1%
Accounting and Professional (537.00.41.0000)	2,460.65	600.00	410.1%
Advertising and Public Outreach (537.00.41.0...)	0.00	250.00	0.0%
SJC Admin. and Legacy Fees (537.00.41.0099)	6,311.98	6,312.00	100.0%
Communications (537.00.42.0000)	429.00	642.00	66.8%
Travel (537.00.43.0000)	0.00	0.00	0.0%
Taxes, Other (537.00.44.0000)	567.52	0.00	100.0%
Rentals and Leases (537.00.45.0000)	700.00	600.00	116.7%
Insurance (537.00.46.0000)	2,655.62	4,263.00	62.3%
Utility Services (537.00.47.0000)	185.93	249.00	74.7%
Garbage Tip Fees Paid (537.00.47.0001)	7,344.85	6,322.00	116.2%
Garbage Transportation Exp. (537.00.47.0002)	1,191.15	1,161.00	102.6%
Recyclables Tip Fees Paid (537.00.47.0003)	195.60	143.00	136.8%
Recyclables Transportation Exp. (537.00.47.0...)	1,208.70	1,263.00	95.7%
Reclamation-Disposal Fees Paid (537.00.47.0...)	956.03	814.00	117.4%
Repairs and Maintenance (537.00.48.0000)	0.00	3,000.00	0.0%
Fees & Dues (537.00.49.0001)	50.00	0.00	100.0%
Hazardous Waste Exp. Allowance (537.00.49....)	0.00	0.00	0.0%
Permits and Licenses (537.00.51.0000)	848.00	549.00	154.5%
Refuse Tax Payment (586.00.44.0000)	1,311.17	0.00	100.0%
Debt service, Principal (591.37.70.0000)	9,857.74	9,570.00	103.0%
Interest Expense (592.37.80.0000)	295.74	580.00	51.0%
Facility Improvements (594.37.63.0000)	0.00	2,751.00	0.0%
Computer and Software Exp. (594.37.64.0000)	0.00	189.00	0.0%
Machinery and Equipment (594.37.64.0001)	0.00	0.00	0.0%
<b>Total Expense</b>	<b>81,144.37</b>	<b>91,517.94</b>	<b>88.7%</b>
<b>Net Income</b>	<b>-12,658.94</b>	<b>-23,380.94</b>	<b>54.1%</b>

## Appendix 2

### Solid Waste Facility Manager's Monthly Report

Date Issued: April 15, 2018

#### **SAFETY**

New traffic safety cones have been ordered for the recycle parking and Z wall areas.

#### **GENERAL**

##### OPERATIONS/ONGOING ISSUES:

The annual household hazardous waste event signs have been posted. This year's event on Lopez will be held June 24th from 11a.m. to 2p.m.

The lower office has a new steel roof thanks to the volunteer labor and expertise of Ricky and Ryan Prewitt, who also volunteer at TIOLI. The roof, which matches the green steel of the other buildings, was needed after numerous wind storms had dislodged the aging asphalt shingles this past Winter.

Culled textiles are now being stored in IBC containers prior to shipment. This will make it easier for volunteers and staff to handle the 65 to 80 bags that we accumulate on site from TIOLI for each shipment to Goodwill Industries in Mount Vernon.

Dan Post has recovered from his surgery and is back at work driving the dumpster hauling truck.

Two new traction tires were purchased for the dumpster hauling truck. New LED rooftop marker lights were also purchased for the truck.

We continue to see many empty volunteer shifts, particularly on Saturdays. Seasonal residents are beginning to return to the island to get their properties ready for the year. Last Sunday, April 8th, there were 243 vehicles that came through the Pay Kiosk line. This was our busiest day so far this year.

Due to the collapse of the mixed paper market, SRSR has begun charging us for the recycling of our shipments of loose mixed paper. It is uncertain at this time whether this is a long term issue since the market is quite volatile as new Asian markets deal with a back log of paper as a result of China's National Sword directive. Steel prices, however, have begun to rise as a result of the U.S. threat to impose tariffs on imported steel.

Skagit River Steel and Recycling prices for March were:  
Baled corrugated cardboard \$34/ton (down \$10/ton)

**Mixed paper -\$65/ton**

Insulated copper wire \$0.39/lb. (down \$0.02)

**Bulk Appliance steel \$80/ton (up \$30/ton)**

#2 Copper \$2.10/lb.

Irony Brass \$0.85/lb.

Yellow brass \$1.35/lb.

Lead \$0.22/lb.

Aluminum cans \$0.37/lb. (down \$0.05)

All other plastic containers sold \$0.0/lb. (unchanged)

**CUSTOMER/VOLUNTEER FEEDBACK:**

None to report



## Appendix 3

### TRAVEL AND MEAL POLICY

(original policy was developed by San Juan County and has been modified for LSWDD use)

Approved [4/18/18]

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## I. INTRODUCTION

It is the general policy of LSWDD that officers and employees of the LSWDD should be reimbursed for reasonable expenses incurred in the conduct of LSWDD business, including travel for LSWDD business and certain non-travel meals and events at which LSWDD business is conducted.

“Reasonable” must be interpreted in light of Federal and State statute and guidelines, and the recognition that LSWDD travel is paid with public funds. The purpose of this policy is, to the extent possible, to apply those statutes and guidelines to our local organization and situation. Ultimately, many decisions as to the reasonableness of travel and meal expenditures are left to the discretion of the District Manager.

## II. TRAVEL AUTHORIZATION

All travel on official LSWDD business must be authorized in advance by the District Manager or elected official, within the guidelines of this document and the constraints of the District’s budget. Approval of travel and expenses will be indicated by the District Manager/elected official’s signature on the Advance Travel Approval line of the travel Claim of Expense form.

## III. TRANSPORTATION

### A. Travel by Private Vehicle

1. Properly insured privately-owned vehicles may be used for official travel.
2. The District will reimburse employees for the use of private vehicles on District business. If two or more employees travel in the same vehicle, only one employee may request mileage reimbursement.
3. Two or more employees traveling to the same location on District business should travel in one car whenever it is feasible to do so. It is the responsibility of the District Manager to ensure that travel is made in the most efficient and cost-effective way possible. When carpooling is an option, but personal errands or non-employee companions necessitate taking an additional vehicle, mileage will not be reimbursed. If an employee has contiguous personal travel before or after a trip for District business, mileage for personal travel will be excluded from the mileage calculation.
4. Mileage between travel points may be calculated from actual odometer readings or from mileage charts or maps.
5. The reimbursement rate is the allowable IRS rate, which is typically adjusted at the beginning of each calendar year. Contact the District Manager or refer to the current Claim of Expense to find the current mileage reimbursement rate.
6. The District will not reimburse gas, oil, or other maintenance costs of personal vehicles; these expenses are factored into the mileage reimbursement rate.

### B. Travel by Rental Vehicle

The use of rental cars for off-island travel is encouraged when efficient and cost effective. The use of a vehicle rented under this program will be billed directly to the District.

The cost of a rental vehicle at the travel destination, when travel has been by common carrier, is reimbursable. Multiple travelers at the same destination should share the same rental. Upgrades to premium or luxury vehicles will not be reimbursed without justification.

## IV. LODGING

When employees are away from home overnight on District business, the District will reimburse lodging expense at a rate not to exceed 150% of the per diem rates established annually by the State Office of Financial Management (current rates are available from the District Manager), or at a documented conference rate, whichever is greater. Applicable taxes are in addition to the stated rate.

The itemized lodging receipt must accompany the credit card statement when it is submitted for payment. Under no circumstances may any personal expenses, including meals, bar tabs, movie rentals, etc., be reimbursed.

If family members accompany the employee and there is an additional charge for the extra person(s), the employee must pay the extra charge. In that case, the cost of lodging must not be charged on a District credit card. If the hotel is paid by personal credit card, the itemized hotel receipt must be included with the Claim of Expense.

## V. TRAVEL MEALS

### A. Reimbursement Rates

Meals will be reimbursed at actual cost, limited by the current per-meal, per diem rates for Snohomish District, as set by the State Office of Financial Management. Rates are typically adjusted annually.

If an employee attends a business meal at which a fixed per-person price is charged, the employee will be reimbursed the full cost of that meal, with documentation.

### B. Reimbursement Guidelines

1. Travel time begins when the employee leaves his or her residence or workstation. Time and date of departure and return must be shown on the expense claim form.
2. The District will reimburse employees for travel expenses for only the time involved in completing District business as promptly as possible. Meal and mileage reimbursements are not available for side trips to accomplish personal errands on a business trip.
3. Eligibility for reimbursement for specific meals is based on travel times as delineated below.
  - a) On the first and last day of travel:
    - i. If travel time begins before 6 am, the employee is eligible for reimbursement for breakfast.
    - ii. If travel time includes all of the time between 11:30 am and 1:30 pm, the employee is eligible for reimbursement for lunch.
    - iii. If travel time extends two hours beyond the regular workday, the employee is eligible for reimbursement for dinner.
  - b) On all other travel days, the employee is eligible for reimbursement for breakfast, lunch, and dinner.
4. Meal reimbursement is not provided when:
  - a) Meals are furnished by the host facility visited.
  - b) Meals are included in the lodging rate for the hotel where the employee stays.

- c) Meals are included in the registration fee for a meeting, conference, or convention, whether or not the employee attends the meal.
5. Meal reimbursement may be paid for otherwise ineligible meals under the following circumstances:
    - a) A dietary restriction, such as religious beliefs or vegetarianism, makes the provided meal inappropriate.
    - b) A “continental” breakfast is provided in lieu of a full breakfast.
  6. Receipts are required to document meal reimbursements. When submitting for reimbursement of meal expenses, please note the following guidelines:
    - a) Detailed receipts are required. Credit card receipts which show only the total meal and tip amount are not adequate.
    - b) Alcoholic beverages are not reimbursable expenses.
    - c) Sales tax and a reasonable tip (not more than 20%) are reimbursable, to the allowed limits.
    - d) District employees may not be reimbursed for meals of other District employees, or of non-employees, except as noted below.
    - e) Employees may be reimbursed for guests of the District, such as event speakers, at actual cost, limited to current per diem rates. Most speakers are on expense accounts, however, and it is recommended that employees allow them to purchase their own meals.

## VI. MISCELLANEOUS EXPENSES

### A. Receipts Required

In addition to allowable expenses named above, the following miscellaneous expenses are reimbursable. Original receipts are required for reimbursement.

- a) Registration fees

- b) Room rental, to transact official District business
- c) Printing or copying services, to transact District business
- d) Fax charges for District business
- e) Temporary Internet access, if used for District business
- f) Foreign currency exchange fees
- g) Taxi, shuttle or limousine fares
- h) Ferry fares within the San Juan routes at single-ticket prices
- i) Any ferry fares on non-San Juan routes

## B. Receipts Not Required

The following miscellaneous expenses are reimbursable without receipts:

- a) Day parking fees. Receipts are required for overnight parking
- b) Ferry fares within the San Juan Routes at Wave-2-Go (“commute book”) prices
- c) Mass transit fares
- d) Bridge tolls
- e) Telephone calls between employee and District for business, or to employee’s family to advise of a change in travel plans

## C. Not Reimbursable

- a) Valet services such as bellhops, laundry, etc.
- b) Alcoholic beverages
- c) Personal phone calls, unless to advise family members of a change in travel plans
- d) Entertainment expenses, such as movie rentals or show entries
- e) Any expense which requires a receipt and is submitted without a receipt will also not be reimbursed.

## VII. CLAIM OF EXPENSE

All reimbursable expenses including transportation, lodging, meal expenses, and eligible miscellaneous expenses, must be detailed on a District Claim of Expense form.

Original receipts are required for all expenses except as noted above. For meals, documentation must show individual items and the total. Sales tax and a reasonable tip are reimbursable subject to the limits. Credit card receipts or credit card statements that show only the total amount are not adequate.

The Claim of Expense form, with proper documentation attached, must be submitted to the District Manager as soon as possible after the travel takes place and no later than 45 days following the return to work after completion of travel. Claims submitted after 45 days may not be reimbursed.

Claim of Expense forms are available through the District Manager. If advance travel funds are used, the claim for reimbursement must be submitted to the District Manager within 15 days of the return to work following travel. Claims of Expense must be approved by the District Manager or elected official. The claims of the District Manager must be approved by the Facility Manager.

## VIII. COMPENSABILITY OF TRAVEL TIME

Travel time is compensated consistent with guidelines established by the Fair Labor Standards Board (FLSB).

### A. One-Day Trips

1. Hourly pay starts at the time the employee leaves the home or the workplace, whichever is closer to the ferry terminal, airport, or other point of departure.
2. Hourly pay stops at the time the employee returns home or to the workplace, whichever is closer to the ferry terminal, airport, or other point of departure.

### B. Overnight Trips

1. Hourly pay starts at the time the employee leaves the home or the workplace, whichever is closer to the ferry terminal, airport, or other point of departure.
2. Hourly pay stops at the end of the official meetings for day 1, or when employee arrives at the destination for the meetings.
3. Hourly pay starts again when the meeting starts on day 2, or, if no meeting, when the person begins travel back to the home island.
4. Hourly pay stops on day 2 (and subsequent days) at the conclusion of the day's meetings, if the employee is not returning home that day; or, if the employee is returning home that day, at the time the employee returns to the home or workplace, whichever is closer to the ferry terminal, airport, or other point of departure.
5. Time spent at conference meals, unless business is being transacted, is not compensable.
6. Notwithstanding the above, the employee shall be deemed to have worked at least 8 hours on any day during which he or she is away from home the entire day.

### C. Weekends

1. When an employee is transacting District business on a scheduled weekend work day, the same guidelines for hours worked shall apply as for Overnight Trips, above.

## Appendix 4

LSWDD Plastics Solution Committee 3-23-18 meeting -- Report to LSWDD Board

**Attending:** Nikyta, Paul, Page, Tom, Brad, Judy, and David (for the last couple minutes)

### **Merlin financials and logistics;**

Paul shared a "blue-sky" scenario based on current prices for various types of plastics and some guesses about transportation costs (the big unknown). In that scenario, LSWDD shows about \$1500 in net income. One transportation possibility is that Todd at Skagit River Steel and Recycling knows of a Canadian hauler who carries loads to Port Townsend and might be able to transport plastics on the way back to Canada. We may need to store bales at the old county landfill on Port Stanley Road.

**Sorting more 1's and 5's:** Page reported on the findings of Paul and his sorting of the mixed plastics bin. 75% of the weight is composed of # 1 and #5 plastics. #1 are 44% of the weight in the bin, #5 are 30%, and #2 are 10%. There are difficulties in separating #1 and #5 clamshells and some tubs. We discussed signage and the advantages and disadvantages of showing examples vs. just using numbers without reaching any conclusions.

**Updates on education, upstream actions, prevention:** In addition to her work with Blossom and LVM, Nikyta has been trying to talk with Costco's sustainability director. Paul reported on the SWAC meeting in which a campaign to eliminate plastic straws is being discussed.

**Printers:** Page shared Jim Lombard's report on the Recycle Dawgs experiment in dismantling printers. It is a messy and time-consuming process, which generates a volume of plastic waste. This problem could be solved legislatively by including them in e-waste. This led to a discussion about the possibility of forming an LSWDD policy committee

**Appoint new committee chair:** Judy agreed to be chair for the next couple months.

**Next meeting is April 18 at 9 AM** in the Meeting Room above Blossom. We hope to have more information from Merlin by then as well as possible transportation and bale storage options.

Plastics Solutions Committee Meeting 4-18-18 9-10;30 AM

Report to LSWDD Board

Paul, Judy, Tom, Nikyta, Larry, David, and Page attended

We are thinking about short- and long-term solutions.

**In the short term we are focusing on #1-7 mixed plastics:**

We are continuing to explore shipping mixed plastics #1-7 to Merlin in BC. We generate 10,000 lb/yr, which translates to 20 bales/yr. Merlin will charge us 7 cents/lb to sort and pay us 3-5 cents for usable plastics sorted. They do not accept clamshells, which are a large part of the #1-7 mixed plastics. Transportation remains an issue. In addition, long-term storage of bales is of concern because they degrade over time. We are exploring the possibility of purchasing a used compacting container and using that to take the plastics to Merlin.

We are checking with another potential recycler in Everett.

We are considering recommending that LSWDD only accept clamshells as garbage, but are exploring a couple other options before making that recommendation to the Board.

We are exploring the option of separating #5, baling them, and sending them to Skagit.

Nikyta is planning a community meeting in early May to talk about remake lab and other solutions we are pursuing.

### **In the longer term:**

There has been progress in the remake lab, but more experiments are needed. There is student interest in continuing this exploration.

## **Appendix 5**

### **March 2018 Board Report -- Training, Education and Outreach Coordinator**

#### **Training / Volunteers:**

Metrics: 75% shifts filled for January. See Administrators report attached.

#### **Training & Recruitment:**

- 2 new Volunteers scheduled for training this month.

#### **Education:**

- Facility tour conducted for Kindergarten class on March 13.
- Methow Recyclables Operations Manager from Twisp, WA given a site tour, co-facilitated with David Zapalac.
- Filastruder and Filawinder installed in LSWDD office, first successful #1 PET print made this week!
- Collaboration with Lopez Island Conservation Corps for marine microplastics education & prevention in conjunction with Earth Day and Great Islands Clean Up. Focus on native sea star species.
- Possible Earth Day assemblies at Lopez School for elementary and secondary. Waiting for confirmation with Superintendent.
- Facebook posts have been doing very well, read and shared often. Many articles posted there often regarding both education & prevention of waste and recycling.

#### **Outreach:**

- Blossom currently has a large, front of the store display of zero waste reducing home infrastructure of reusable produce bags, bamboo utensils, products with smart or no packaging, etc.

- Holly B's Bakery and Lopez Coffee Shop are doing an April promotion: \$1 for drip coffee in your own cup. Both are carrying "Lopez Reuses" mason jars & cozies.
- Isabel's Espresso, Southend Market & Café, and Vortex are all on board to carry mason jars also. Vortex has helped us to order in bulk for retailers.
- Up-cycled fleece cozies made by volunteer Jessica McCullough, with iron on logos done by WadeCo.
- Published April Y2Z article "Lopez, get ready to Reuse!" in Islands Weekly with DM and PR committee.
- TEOC collaborated with SWAP to launch first "borrow a bag" bin for reusable bags. Beautifully designed bin placed in front of Blossom, who reports customers are very pleased and grateful for the ability to borrow a bag when needed. Bins are still in R & D and comments and changes will be added for bins scheduled to be made for LVM and Southend.

### Ongoing:

- **Lopez Island Tool Lending Library** waiting for next meeting time.
- **PR Committee** is working on plastic reduction strategies, Y2Z programming, FB and publications.
- **Plastics Committee:** Spoke to Sustainability director from Costco who offered some helpful leads on possible local recyclers. He did not have any solutions to offer for clamshell replacements, and Costco has no intention of changing their packaging at this time.
- **TIOLI:** New volunteer Georgeana Cook has done an **incredible** job Spring Cleaning the whole TIOLI. Our new Rock Star volunteer, and she recruits her husband and other friends and family members as well! Shelves have been ordered for TIOLI and will be arriving soon.
- **Data Collection:** Will be taken in April for Spring quarter.



**March 2018 Volunteer Analysis**

<b>Volunteer Hours/Rate</b>	
<b>Potential Volunteer Shift Hours</b>	<b>Number of Open Days</b>
280	14
<b>Total Shift Hours Volunteered</b>	<b>Participation Rate</b>
209.5	75%
<b>Potential TIOLI Shift Hours</b>	<b>Potential Recycle Shift Hours</b>
140	140
<b>TIOLI Shift Hours Volunteered</b>	<b>Recycle Shift Hours Volunteered</b>
119.5	90
<b>TIOLI Participation Rate</b>	<b>Recycle Participation Rate</b>
85%	64%
<b>Special Project TIOLI</b>	<b>Special Project Recycling</b>
31	32.5
<b>Total Hours Volunteered</b>	
273.0	

<b>Unfilled Shifts</b>	
<b>All Shifts</b>	
Total	112
Unfilled	31
% Filled	72%

<b>Tioli Shifts</b>	
Total	56
Unfilled	15
Filled %	73%

<b>Recycle Shifts</b>	
Total	56
Unfilled	16
Filled %	71%

<b>Number of Shift Volunteers Participating</b>	
TIOLI	20
Recycling	15
<b>Total</b>	<b>35</b>

## **Appendix 6**

SWAP Notes -- Lopez Solid Waste Disposal District Meeting – April 2018

Treasurer Status - Alex Nellie has agreed to take care of 2017 income tax filing for SWAP, as Kevin Utt will not take on treasurer responsibilities until July 1.

2018 Junk Bond is ready to print. Artist is Janet Yang.

Twenty-seven skirts completed. At least nineteen more are designed, cut, and being sewn.

SWAP is signed up for the 2018 summer Farmers Market.

Bags for reuse are in place at Blossom. Nikyta is the point person while Kim is off island.

**Appendix 7 and Appendix 8 – see next pages**

# Board Materials – 4/18/18

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## Financial Officer's Report

### 1. Financial Updates – Monthly and YTD summary:

Summary:

We were 10% below budgeted revenues for March (\$3,024) and are at 100.5% of actual vs. budgeted revenues for the year to date. March expenditures were 17% below budgeted and year to date expenditures are 11% below budget.

No investments were bought or sold this month (\$20,000 sold this year to date, from \$200,000 to \$180,000).

We have \$28,419.73 in our cash account; \$208,419.73 total.

(Reference Income Statement and Statement of Cash Flows attached.)

### 2. Audit Update

We have passed the audit with no written "findings." The only issue that stuck out this time, as well as three years ago, was a 5-hour discrepancy between one employee's timesheets and wages. This was likely due to a faulty Excel spreadsheet that was consistently used for many years. This spreadsheet has been retired and we now track time in the new SJC online timesheet format. The amount is immaterial and did not result in a loss of wages to the employee.

Audit paperwork submitted to the SAO has been retrieved from Bellingham offices and is back in the office file cabinets.

An official Exit Interview with the SAO will take place on or around Friday, April 27<sup>th</sup> with SAO employees and some of LSWDDs managing and governing board members

## Manager's Monthly Report

### 1. Action items:

**Travel Reimbursement Policy and Form** – LSWDD Draft travel reimbursement policy and form are attached for review, discussion, and approval.

### 2. Discussions

- **WSRA Conference** – Registrations are complete for Nikyta and David. Page and/or Ashi are also hoping to attend with registrations fees possibly coming from SWAP. David and Nikyta will likely attend Monday and Tuesday.
- **2018 Capital Projects spending plan** – see attached spreadsheet.
- **Increasing cost of recycling** - paper \$30/ton = \$3,000/yr; \$65/ton = \$6,500/yr

## Management Committee Report

COMMITTEE DID NOT MEET

## Admin Committee Report

No formal committee meeting took place, but many aspects of IT went poorly this month:

**Website** was hacked. New website has been published with fully restored functionality of old site, plus improved aesthetic and webmaster experience.

**Email** went down for a 24-hour period as a website transition went underway. Email has been restored.

### **Kiosk Hard Drive Failure**

The kiosk computer hard drive crashed and backups could not be restored.

Bill Clemens has spent two weeks now attempting to repair the situation.

We will purchase two new hard drives and update to windows 10 on a completely new hard drive system.

## PR Committee Report

Committee did not meet.

Refer to TEOC staff report, recent newspaper articles and Year to Zero discussion.

## TIOLI Committee Report

COMMITTEE DID NOT MEET

## Plastics Solutions Committee Report

Committee met two times. See notes attached.

In Tons	Total Year 2013	YTD Through				March
		2014	2015	2016	2017	2018
Aluminum Cans	2.7	0.72	0.27	0.74	0.70	1.47
Cardboard	48.0	11.68	13.27	11.96	15.25	16.91
Commingled Recyclables	14.5	5.26	4.20	-	-	-
E-Cycle	5.0	-	-	-	-	1.32
Ferrous Metals	30.5	0.68	4.40	11.85	11.98	12.01
Glass	95.8	-	-	-	-	-
Mixed Paper/Newsprint	81.5	23.86	10.90	23.78	20.62	17.88
Non-Ferrous Metals	1.4	0.19	0.71	0.25	0.42	0.76
Other	4.9	2.13	3.75	3.33	4.39	3.88
Plastics	14.0	4.54	3.37	3.57	3.24	2.47
<b>Recycle Subtotal</b>	<b>298.3</b>	<b>49.1</b>	<b>40.9</b>	<b>55.48</b>	<b>56.6</b>	<b>56.7</b>
Garbage	425.0	103.04	100.87	94.82	115.10	115.06
Glass - reclamation project	15.0	16.00	16.00	14.90	29.02	26.14
<b>Garbage/Glass Subtotal</b>	<b>440.0</b>	<b>119.0</b>	<b>116.87</b>	<b>109.72</b>	<b>144.11</b>	<b>141.20</b>
<b>Grand Total Without TIOLI</b>	<b>738.3</b>	<b>168.1</b>	<b>157.73</b>	<b>165.19</b>	<b>200.70</b>	<b>197.90</b>
TIOLI Intake	-	-	18.15	31.71	29.21	38.26
TIOLI Discards	-	-	(0.47)	(1.46)	(1.00)	(1.29)
<b>Grand Total With TIOLI</b>	<b>-</b>	<b>-</b>	<b>175.41</b>	<b>195.45</b>	<b>228.91</b>	<b>234.86</b>

Full Year Annual Rate	2013 Full Year Rate	2014 Full Year Rate	2015 Full Year Rate	2016 Full Year Rate	2017 Full Year Rate
<b>Recycle/Reuse Garbage/Glass</b>	40%	37%	39%	40%	41%
	60%	63%	61%	60%	59%

Year to Date			
Garbage/Glass	Tons	Recycle/Reuse	Tons
2014	119		49
2015	117		59
2016	110		86
2017	144		85
2018	141		94

Garbage/Glass Rate	%	Rate	%
2014	71%	2014	29%
2015	67%	2015	33%
2016	56%	2016	44%
2017	63%	2017	37%
2018	60%	2018	40%

2018 Monthly in lbs	January	February	March	April	May	June	July	August	September	October	November	December	Total	Tons
Aluminum Cans	959	-	1,986	-	-	-	-	-	-	-	-	-	2,945	1.47
Cardboard	13,913	8,488	11,411	-	-	-	-	-	-	-	-	-	33,812	16.91
E-Cycle	-	-	2,643	-	-	-	-	-	-	-	-	-	2,643	1.32
Ferrous Metal	-	11,165	12,860	-	-	-	-	-	-	-	-	-	24,025	12.01
Mixed Paper	18,700	-	17,056	-	-	-	-	-	-	-	-	-	35,756	17.88
Non-Ferrous Metal	40	799	682	-	-	-	-	-	-	-	-	-	1,521	0.76
Other	2,640	440	4,675	-	-	-	-	-	-	-	-	-	7,755	3.88
Plastics	2,210	665	2,072	-	-	-	-	-	-	-	-	-	4,947	2.47
<b>Recycle Subtotal</b>	<b>38,462</b>	<b>21,557</b>	<b>53,385</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>113,404</b>	<b>56.70</b>
Garbage	86,060	67,200	76,860	-	-	-	-	-	-	-	-	-	230,120	115.06
Glass - reclamation project	21,110	13,940	17,220	-	-	-	-	-	-	-	-	-	52,270	26.14
<b>Garbage/Glass Subtotal</b>	<b>107,170</b>	<b>81,140</b>	<b>94,080</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>282,390</b>	<b>141.20</b>
<b>Grand Total Without TIOLI</b>	<b>145,632</b>	<b>102,697</b>	<b>147,465</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>395,794</b>	<b>197.90</b>
TIOLI Intake	28,629	18,224	29,667	-	-	-	-	-	-	-	-	-	76,520	38.26
TIOLI Discards	(1,195)	(385)	(1,007)	-	-	-	-	-	-	-	-	-	(2,587)	(1.29)
<b>Grand Total with TIOLI</b>	<b>173,066</b>	<b>120,536</b>	<b>176,126</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>469,727</b>	<b>234.86</b>

2017 Monthly in lbs	January	February	March	April	May	June	July	August	September	October	November	December	Total	Tons
Aluminum Cans	940	-	457	924	442	428	1,252	1,705	885	411	927	935	9,306	4.65
Cardboard	15,395	5,636	9,462	11,907	10,084	12,318	17,407	15,887	15,445	5,717	15,372	10,701	145,331	72.67
Commingled Recyclables	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E-Cycle	-	-	-	6,412	-	-	1,800	-	-	-	-	2,400	10,612	5.31
Ferrous Metal	12,500	319	11,140	14,700	12,360	12,240	11,880	22,160	12,820	12,980	11,420	10,960	145,479	72.74
Mixed Paper	16,040	-	25,200	16,534	17,960	-	20,020	18,840	17,040	21,880	-	25,460	178,974	89.49
Non-Ferrous Metal	97	371	377	383	-	4,434	92	97	311	481	-	271	6,914	3.46
Other	1,134	4,256	3,390	170	4,145	3,192	5,844	1,488	3,149	8,355	4,986	1,361	41,470	20.74
Plastics	3,678	1,681	1,112	5,629	2,490	5,132	4,391	5,822	4,461	2,649	3,888	1,842	42,775	21.39
<b>Recycle Subtotal</b>	<b>49,784</b>	<b>12,263</b>	<b>51,138</b>	<b>56,659</b>	<b>47,481</b>	<b>37,744</b>	<b>62,686</b>	<b>65,999</b>	<b>54,111</b>	<b>52,473</b>	<b>36,593</b>	<b>53,930</b>	<b>580,861</b>	<b>290.43</b>
Garbage	74,700	70,750	84,740	74,880	85,560	87,120	139,880	112,960	110,540	67,420	88,100	70,980	1,067,630	533.8

Glass - reclamation project	27,680	14,080	16,270	15,680	17,750	18,240	44,960	20,100	18,260	22,280	19,490	19,580	254,370	127.2
<b>Garbage/Glass Subtotal</b>	<b>102,380</b>	<b>84,830</b>	<b>101,010</b>	<b>90,560</b>	<b>103,310</b>	<b>105,360</b>	<b>184,840</b>	<b>133,060</b>	<b>128,800</b>	<b>89,700</b>	<b>107,590</b>	<b>90,560</b>	<b>1,322,000</b>	<b>661.00</b>
<b>Grand Total Without TIOLI</b>	<b>152,164</b>	<b>97,093</b>	<b>152,148</b>	<b>147,219</b>	<b>150,791</b>	<b>143,104</b>	<b>247,526</b>	<b>199,059</b>	<b>182,911</b>	<b>142,173</b>	<b>144,183</b>	<b>144,490</b>	<b>1,902,861</b>	<b>951.43</b>
TIOLI Intake	22,376	16,567	19,478	29,659	24,746	36,099	31,429	32,681	38,925	24,908	19,061	37,632	333,560	166.78
TIOLI Discards	(483)	(605)	(915)	(795)	(2,010)	(1,335)	(1,471)	(456)	(1,620)	(390)	(675)	(1,095)	(11,850)	(5.93)
<b>Grand Total with TIOLI</b>	<b>174,057</b>	<b>113,055</b>	<b>170,711</b>	<b>176,083</b>	<b>173,527</b>	<b>177,868</b>	<b>277,484</b>	<b>231,284</b>	<b>220,216</b>	<b>166,691</b>	<b>162,569</b>	<b>181,027</b>	<b>2,224,571</b>	<b>1,112.29</b>

2016 Monthly in lbs	January	February	March	April	May	June	July	August	September	October	November	December	Total	Tons
Aluminum Cans	480	460	541	-	906	425	877	802	1,339	459	980	496	7,765	3.88
Cardboard	11,437	8,553	3,932	5,206	15,522	10,319	15,378	11,102	16,445	9,137	13,692	7,202	127,944	63.97
Commingle Recyclables	-	-	-	-	-	-	-	-	-	-	8,560	-	8,560	4.28
E-Cycle	-	-	-	4,936	-	-	5,200	-	-	-	5,200	-	15,336	7.67
Ferrous Metal	-	-	23,700	-	13,640	10,600	11,200	11,170	14,580	23,600	13,580	-	122,070	61.04
Mixed Paper	-	24,320	23,240	-	22,180	21,260	19,100	19,360	20,500	-	27,260	19,640	196,860	98.43
Non-Ferrous Metal	508	-	-	4,200	728	-	-	441	-	483	485	67	6,912	3.46
Other	4,300	2,202	150	322	4,485	2,855	1,825	240	6,891	152	2,265	2,685	28,372	14.19
Plastics	2,783	2,394	1,955	2,037	6,455	1,930	4,250	4,777	5,318	2,168	4,308	3,642	42,017	21.01
<b>Recycle Subtotal</b>	<b>19,318</b>	<b>37,929</b>	<b>53,537</b>	<b>16,701</b>	<b>63,916</b>	<b>47,389</b>	<b>57,830</b>	<b>47,892</b>	<b>63,173</b>	<b>35,999</b>	<b>76,330</b>	<b>33,732</b>	<b>555,836</b>	<b>277.92</b>
Garbage	53,480	57,160	79,000	69,380	93,960	102,340	99,140	89,500	105,490	117,240	54,000	74,860	995,531	497.8
Glass - reclamation project	14,790	15,000	-	30,990	17,130	19,310	47,350	33,010	19,170	10,670	21,340	16,720	245,480	122.7
<b>Garbage/Glass Subtotal</b>	<b>68,270</b>	<b>72,160</b>	<b>79,000</b>	<b>100,370</b>	<b>111,090</b>	<b>121,650</b>	<b>146,490</b>	<b>122,320</b>	<b>124,660</b>	<b>127,910</b>	<b>75,340</b>	<b>91,580</b>	<b>1,241,030</b>	<b>620.33</b>
<b>Grand Total Without TIOLI</b>	<b>87,778</b>	<b>110,089</b>	<b>132,537</b>	<b>117,071</b>	<b>173,106</b>	<b>169,039</b>	<b>204,320</b>	<b>170,402</b>	<b>189,733</b>	<b>163,909</b>	<b>132,670</b>	<b>125,312</b>	<b>1,796,866</b>	<b>898.43</b>
TIOLI Intake	23,016	20,540	19,871	21,514	24,200	20,556	33,061	30,137	28,765	23,938	21,649	9,836	277,083	138.54
TIOLI Discards	(2,000)	(776)	(151)	(965)	(1,154)	(775)	(1,005)	(705)	(1,410)	(2,375)	(645)	(925)	(12,886)	(6.44)
<b>Grand Total with TIOLI</b>	<b>108,794</b>	<b>129,853</b>	<b>152,257</b>	<b>137,620</b>	<b>198,033</b>	<b>188,820</b>	<b>236,376</b>	<b>199,834</b>	<b>217,088</b>	<b>185,472</b>	<b>172,674</b>	<b>134,223</b>	<b>2,061,063</b>	<b>1,030.53</b>

2015 Monthly in lbs	January	February	March	April	May	June	July	August	September	October	November	December	Total	Tons
Aluminum Cans	-	541	-	-	-	1,789	867	1,270	431	326	482	523	6,419	3.21
Cardboard	7,713	9,049	9,769	5,817	6,325	16,033	13,216	13,194	14,054	8,407	9,464	9,831	124,981	62.49
Commingle Recyclables	-	-	8,400	-	-	-	5,460	-	-	-	-	8,400	22,260	11.13
E-Cycle	-	-	-	-	3,522	-	-	5,204	-	-	4,783	-	13,319	6.73
Ferrous Metal	-	8,800	-	-	22,600	-	-	22,584	-	-	24,829	300	79,113	39.56
Mixed Paper	-	21,800	-	23,440	-	22,320	21,280	21,260	20,560	24,220	-	22,688	177,368	88.78
Non-Ferrous Metal	1,291	123	-	-	-	234	-	183	97	73	236	3,000	5,237	2.62
Other	3,037	560	3,895	1,055	2,707	6,364	2,354	1,430	884	2,979	679	1,265	27,209	13.60
Plastics	3,943	2,380	422	1,627	4,153	9,349	4,852	4,074	4,852	2,684	3,036	3,486	40,006	20.00
TIOLI Intake	10,881	12,093	13,332	22,039	31,568	27,476	30,007	24,977	24,871	21,736	16,542	14,626	231,147	125.07
TIOLI Discards	-	(160)	(775)	(183)	(470)	(1,094)	(533)	(514)	(266)	(930)	(1,579)	(218)	(6,722)	(3.36)
<b>Recycle/Resuse Subtotal</b>	<b>26,865</b>	<b>55,186</b>	<b>35,043</b>	<b>52,168</b>	<b>67,879</b>	<b>82,471</b>	<b>76,804</b>	<b>94,440</b>	<b>64,705</b>	<b>59,495</b>	<b>58,472</b>	<b>63,901</b>	<b>739,727</b>	<b>369.86</b>
Garbage	54,310	56,400	91,020	72,800	66,700	79,300	121,040	88,880	71,460	72,780	78,460	78,480	931,820	465.91
Glass - reclamation project	16,000	-	16,000	16,000	16,000	13,260	47,370	29,010	17,360	12,470	19,330	30,360	233,160	117.91
<b>Garbage/Glass Subtotal</b>	<b>70,310</b>	<b>56,400</b>	<b>107,020</b>	<b>88,800</b>	<b>82,700</b>	<b>94,460</b>	<b>168,610</b>	<b>117,890</b>	<b>88,820</b>	<b>85,231</b>	<b>97,790</b>	<b>109,400</b>	<b>1,167,640</b>	<b>583.82</b>
<b>Grand Total</b>	<b>97,365</b>	<b>111,586</b>	<b>142,063</b>	<b>140,968</b>	<b>131,769</b>	<b>176,931</b>	<b>247,314</b>	<b>212,330</b>	<b>153,525</b>	<b>144,935</b>	<b>156,262</b>	<b>173,320</b>	<b>1,907,367</b>	<b>953.68</b>

2014 Monthly in lbs	January	February	March	April	May	June	July	August	September	October	November	December	Total	Tons
Aluminum Cans	1,017	427	-	443	449	543	870	932	895	431	-	989	6,996	3.50
Cardboard	10,845	3,569	8,939	6,077	8,643	4,884	16,796	9,040	13,232	7,341	6,315	11,032	106,932	53.50
Commingle Recyclables	10,520	-	-	-	-	-	8,980	-	4,900	-	-	-	24,400	12.20
E-Cycle	-	-	-	3,273	-	-	-	7,041	-	-	-	-	14,536	7.30
Ferrous Metal	1,360	-	-	35,310	-	-	33,480	-	16,680	-	16,700	-	103,720	51.90
Mixed Paper	26,936	17,944	2,846	47,318	-	21,040	38,620	-	17,640	22,260	21,360	22,480	238,444	119.20
Non-Ferrous Metal	-	-	371	988	-	-	-	-	198	194	365	4,127	6,243	3.10
Other	-	3,431	825	2,125	80	7,268	40	40	605	2,373	2,735	2,735	21,628	10.50
Plastics	4,603	1,277	3,199	4,245	5,462	2,919	8,798	3,030	5,535	2,177	2,445	1,632	45,341	22.60
TIOLI Intake	-	-	-	-	-	-	-	28,922	13,160	13,212	25,331	12,333	94,858	47.40
<b>Recycle/Resuse Subtotal</b>	<b>55,281</b>	<b>26,667</b>	<b>16,532</b>	<b>102,859</b>	<b>14,634</b>	<b>36,654</b>	<b>109,569</b>	<b>41,964</b>	<b>81,280</b>	<b>46,614</b>	<b>73,256</b>	<b>61,814</b>	<b>663,098</b>	<b>331.30</b>
Garbage	78,940	56,420	70,720	61,460	72,040	94,720	99,310	91,680	100,800	76,160	85,700	53,620	941,760	471.00
Glass - reclamation project	16,000	-	16,000	16,000	16,000	16,000	32,000	16,000	16,000	16,000	16,000	16,000	192,000	96.00
<b>Garbage/Glass Subtotal</b>	<b>94,940</b>	<b>56,420</b>	<b>86,720</b>	<b>77,460</b>	<b>88,040</b>	<b>110,720</b>	<b>131,310</b>	<b>107,680</b>	<b>116,800</b>	<b>92,160</b>	<b>101,700</b>	<b>69,620</b>	<b>1,133,760</b>	<b>567.00</b>
<b>Grand Total</b>	<b>131,221</b>	<b>83,087</b>	<b>103,271</b>	<b>180,319</b>	<b>102,674</b>	<b>147,374</b>	<b>241,069</b>	<b>149,644</b>	<b>198,080</b>	<b>138,774</b>	<b>176,956</b>	<b>131,434</b>	<b>1,796,858</b>	<b>898.30</b>

Notes on 2018  
 Other is composed of Fluorescent lights, Rechargeable Batteries, Oil Waste, Refrigerators, Textiles, Tires  
 Based on total intake % growth TIOLI Intake is an estimation based on a 10% growth rate above 2017.