



Fairbanks North Star Borough

Department of Public Works

Solid Waste Division

FY19 Year End Report

With Comparative Data
From Previous Years

Bob Jordan
Solid Waste Manager

Waste-to-Energy
Recycling
Solid Waste Facility



Ethan Eidenmiller, Solid Waste Technician, makes his way along the 14 acre slope that was closed in 2010. Smoke from the Shovel Creek Fire can be seen in the background that created many smoke filled summer days. Over 20,000 acres was burned in this lightning caused fire that started June 21, 2019, 20 miles northwest of Fairbanks.

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RECYCLING / WASTE-TO-ENERGY

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RECYCLING / HOUSEHOLD HAZARDOUS WASTE FACILITY

Recycling / Household Hazardous Waste Highlights
Graph - Types of Materials Accepted (2 pages)

CENTRAL RECYCLING FACILITY

Materials Accepted / Statistics

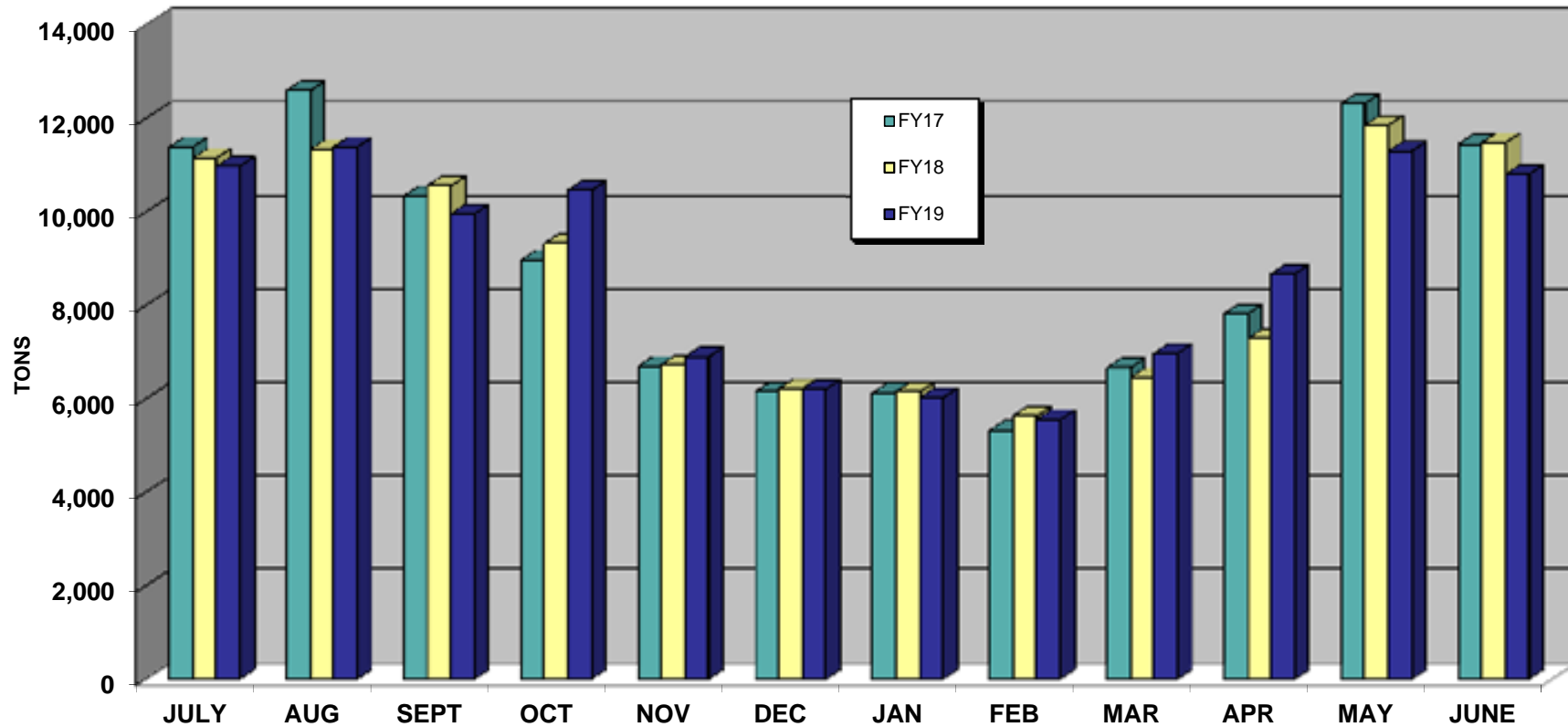
OTHER

Graph – Comparison of Gravel Usage
Additional Information

SOLID WASTE HIGHLIGHTS

- Solid Waste Facility tonnage up 1%
 - Collection District tonnage down 2%
 - Major customers: Alaska Waste 28%, Solid Waste Collection District 44%,
combined small commercial 9%
 - Major materials: MSW 73%, Construction Debris 15%
- MSW = 76,906 tons CD =15,443 tons

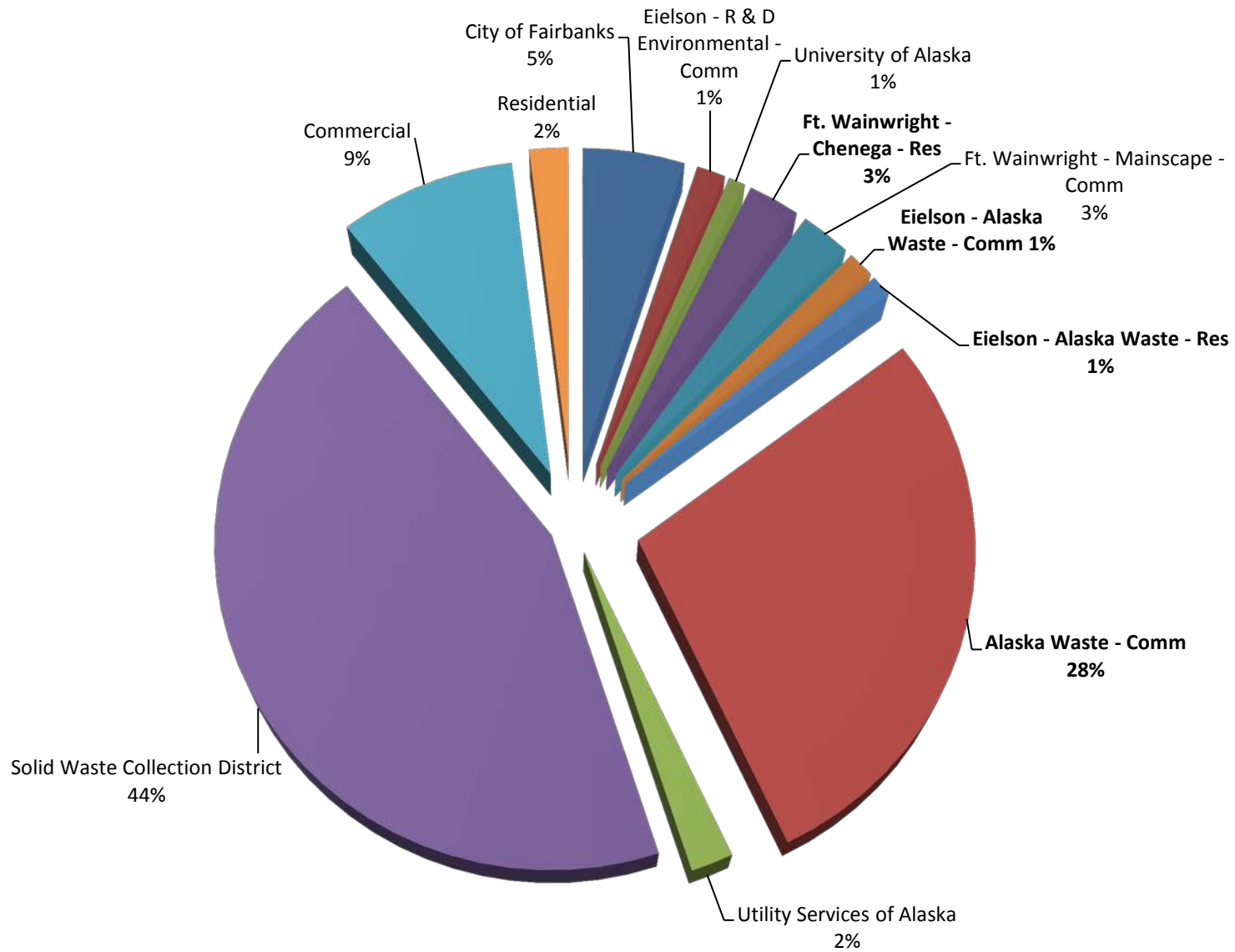
**FNSB DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
TOTAL TONNAGE INTO THE SOLID WASTE FACILITY
FY17 through FY19**



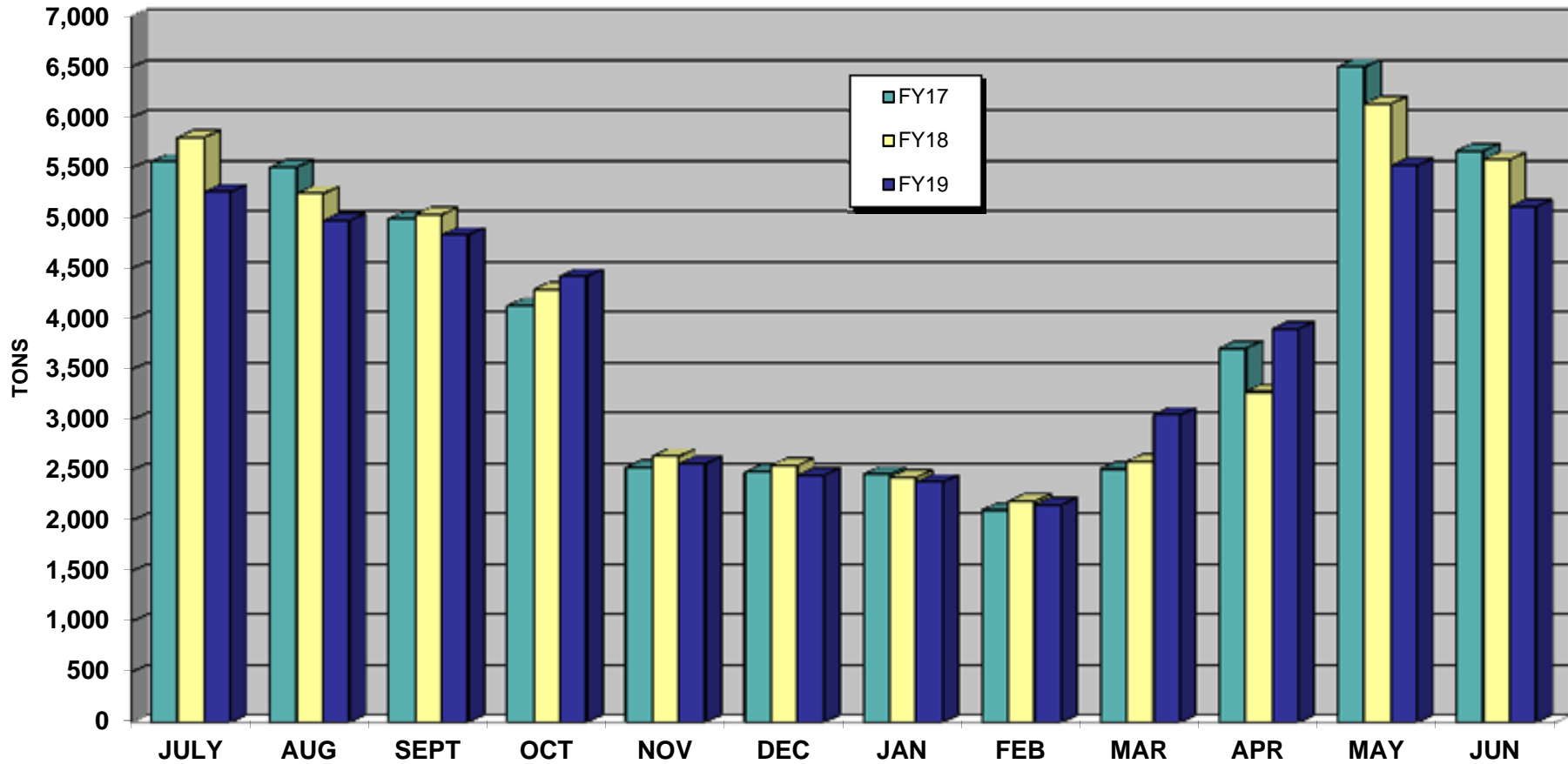
	6 Mos.	Change	12 Mos.	Change
FY17	56,113		105,791	
FY18	55,286	-1.47%	104,117	-1.58%
FY19	55,863	1.04%	105,160	1.00%
FY19 Budget	50,750	-9.15%	101,500	-3.48%

NOTE: Budget tons are net of waived tonnage.

**FNSB DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
FY19 CUSTOMER PROPORTIONAL TONNAGE**



**FNSB DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
TOTAL TONNAGE FROM COLLECTION DISTRICT
FY17 through FY19**



	6 Mos.	% Change	12 Mos.	% Change
FY17	25,193		48,145	
FY18	25,552	1.43%	47,751	-0.82%
FY19	24,505	-4.10%	46,627	-2.35%
FY19 Budget	25,738	5.03%	51,477	10.40%

**Solid Waste Tonnage Report
Analysis by Customer
FY19 Inbound Material**

		July	August	September	October	November	December	Subtotal							
CUSTOMERS	ACCT	%	%	%	%	%	%	%	%	%	%	%	%	%	
Residents	#0	304.97	2.78%	298.85	2.63%	223.05	2.24%	253.27	2.42%	69.04	1.00%	17.55	0.28%	1,166.73	2.09%
Commercial - other		1,028.26	9.37%	1,198.50	10.53%	805.15	8.09%	1,255.14	12.00%	607.71	8.81%	344.67	5.56%	5,239.43	9.38%
City of Fairbanks	#1003	587.88	5.36%	489.53	4.30%	460.09	4.62%	539.84	5.16%	351.25	5.09%	344.73	5.56%	2,773.32	4.96%
University of Alaska	#1160	60.57	0.55%	94.98	0.83%	93.57	0.94%	92.96	0.89%	68.86	1.00%	52.85	0.85%	463.79	0.83%
Utility Services of Alaska	#1244	178.53	1.63%	185.01	1.63%	153.38	1.54%	178.34	1.71%	137.55	2.00%	165.02	2.66%	997.83	1.79%
R & D Environmental	#1263	179.19	1.63%	205.16	1.80%	162.04	1.63%	175.45	1.68%	101.31	1.47%	79.35	1.28%	902.50	1.62%
Ft Wainwright - Bearing Strait	#1624	226.03	2.06%	277.98	2.44%	234.52	2.36%	251.07	2.40%	233.76	3.39%	197.01	3.18%	1,420.37	2.54%
Ft Wainwright - Mainscape	#1838	242.86	2.21%	247.19	2.17%	201.13	2.02%	204.23	1.95%	210.84	3.06%	197.12	3.18%	1,303.37	2.33%
Alaska Waste - Waste Conn	#1880	2,680.34	24.42%	3,136.23	27.55%	2,566.72	25.79%	2,845.64	27.21%	2,371.99	34.40%	2,184.15	35.22%	15,785.07	28.26%
Eielson - AK Waste-Comm	#1893	123.94	1.13%	162.28	1.43%	128.92	1.30%	132.14	1.26%	97.36	1.41%	87.07	1.40%	731.71	1.31%
Eielson - AK Waste-Res	#1704	102.27	0.93%	111.80	0.98%	89.88	0.90%	105.44	1.01%	82.58	1.20%	82.53	1.33%	574.50	1.03%
Subtotal		5,714.84	52.07%	6,407.51	56.29%	5,118.45	51.43%	6,033.52	57.70%	4,332.25	62.83%	3,752.05	60.50%	31,358.62	56.13%
TRANSFER SITES															
Chena Pump	#8000	565.67	5.15%	566.51	4.98%	548.89	5.52%	508.26	4.86%	266.72	3.87%	272.53	4.39%	2,728.58	4.88%
Dale Road	#8001	130.11	1.19%	144.59	1.27%	126.78	1.27%	117.69	1.13%	34.80	0.50%	42.75	0.69%	596.72	1.07%
Ester	#8002	185.09	1.69%	277.21	2.44%	270.11	2.71%	232.59	2.22%	163.64	2.37%	147.67	2.38%	1,276.31	2.28%
Farmer's Loop West	#8004	1,031.03	9.39%	867.13	7.62%	773.33	7.77%	672.85	6.43%	405.85	5.89%	373.87	6.03%	4,124.06	7.38%
Subtotal - West Side		1,911.90	17.42%	1,855.44	16.30%	1,719.11	17.27%	1,531.39	14.65%	871.01	12.63%	836.82	13.49%	8,725.67	15.62%
Chatanika	#8010	19.63	0.18%	10.21	0.09%	19.64	0.20%	7.88	0.08%	8.50	0.12%	19.34	0.31%	85.20	0.15%
Farmer's Loop East	#8011	1,040.80	9.48%	1,005.00	8.83%	1,089.96	10.95%	951.11	9.10%	513.41	7.45%	485.42	7.83%	5,085.70	9.10%
Fox	#8012	178.06	1.62%	90.74	0.80%	62.25	0.63%	132.89	1.27%	67.98	0.99%	52.40	0.84%	584.32	1.05%
Two Rivers	#8013	214.93	1.96%	226.56	1.99%	169.13	1.70%	158.11	1.51%	75.61	1.10%	85.20	1.37%	929.54	1.66%
Subtotal - East Side		1,453.42	13.24%	1,332.51	11.71%	1,340.98	13.47%	1,249.99	11.95%	665.50	9.65%	642.36	10.36%	6,684.76	11.97%
Badger	#8021	1,277.76	11.64%	369.92	3.25%	478.80	4.81%	564.84	5.40%	333.76	4.84%	375.36	6.05%	3,400.44	6.09%
North Pole	#8025	0.00	0.00%	900.22	7.91%	940.96	9.45%	731.13	6.99%	482.11	6.99%	414.71	6.69%	3,469.13	6.21%
South Side Sites	#8026	617.50	5.63%	517.37	4.55%	353.87	3.56%	345.57	3.30%	210.04	3.05%	180.16	2.91%	2,224.51	3.98%
Subtotal - South Side		1,895.26	17.27%	1,787.51	15.70%	1,773.63	17.82%	1,641.54	15.70%	1,025.91	14.88%	970.23	15.65%	9,094.08	16.28%
Transfer Sites Total		5,260.58	47.93%	4,975.46	43.71%	4,833.72	48.57%	4,422.92	42.30%	2,562.42	37.17%	2,449.41	39.50%	24,504.51	43.87%
Grand Total		10,975.42	100.00%	11,382.97	100.00%	9,952.17	100.00%	10,456.44	100.00%	6,894.67	100.00%	6,201.46	100.00%	55,863.13	100.00%

Note: Includes all inbound tonnage (MSW, recyclables, etc.) See "Material Analysis Report by Material" for detail.

#8025 - North Pole Closed for Improvement Project 6/4/18 - 8/3/18

#8021 - Badger Road Closed for Improvement Project Phase 1 - 8/13/18 - 9/6/18

#8012 - Fox Closed for Improvement Project 8/20/18 - 9/14/18

**Solid Waste Tonnage Report
Analysis by Customer
FY19 Inbound Material**

		January		February		March		April		May		June		YTD Total	
CUSTOMERS	ACCT	%		%		%		%		%		%		%	
Residents	#0	6.76	0.11%	10.55	0.19%	26.56	0.38%	76.26	0.88%	334.18	2.96%	410.42	3.80%	2,031.46	1.93%
Commercial - other		363.24	6.04%	380.42	6.85%	448.75	6.44%	680.01	7.85%	1,049.52	9.29%	1,044.98	9.67%	9,206.35	8.75%
City of Fairbanks	#1003	386.15	6.42%	303.15	5.46%	323.85	4.65%	451.65	5.21%	512.66	4.54%	553.18	5.12%	5,303.96	5.04%
University of Alaska	#1160	63.04	1.05%	60.20	1.08%	63.87	0.92%	74.15	0.86%	87.41	0.77%	58.48	0.54%	870.94	0.83%
Utility Services of Alaska	#1244	125.78	2.09%	158.25	2.85%	186.18	2.67%	206.15	2.38%	222.84	1.97%	204.41	1.89%	2,101.44	2.00%
R&D Environmental	#1263	48.59	0.81%	62.75	1.13%	129.01	1.85%	80.21	0.93%	127.13	1.13%	154.76	1.43%	1,504.95	1.43%
Ft Wainwright - Chenega	#1624	182.02	3.02%	136.21	2.45%	212.72	3.05%	258.93	2.99%	243.02	2.15%	243.27	2.25%	2,696.54	2.56%
Ft Wainwright - Mainscape	#1838	229.84	3.82%	160.58	2.89%	234.43	3.37%	238.07	2.75%	255.41	2.26%	218.70	2.02%	2,640.40	2.51%
Alaska Waste - Waste Conn	#1880	2,036.70	33.84%	1,947.32	35.08%	2,115.06	30.36%	2,487.26	28.71%	2,699.89	23.90%	2,582.05	23.91%	29,653.35	28.20%
Eielson - AK Waste - Comm	#1893	103.05	1.71%	103.80	1.87%	93.53	1.34%	110.78	1.28%	139.05	1.23%	122.27	1.13%	1,404.19	1.34%
Eielson - AK Waste - Res	#1704	91.30	1.52%	71.99	1.30%	84.56	1.21%	98.29	1.13%	103.22	0.91%	95.40	0.88%	1,119.26	1.06%
Subtotal		3,636.47	60.43%	3,395.22	61.17%	3,918.52	56.25%	4,761.76	54.96%	5,774.33	51.12%	5,687.92	52.66%	58,532.84	55.66%
TRANSFER SITES															
Chena Pump	#8000	235.90	3.92%	200.48	3.61%	314.22	4.51%	388.00	4.48%	604.02	5.35%	595.52	5.51%	5,066.72	4.82%
Dale Road	#8001	58.29	0.97%	33.94	0.61%	32.29	0.46%	63.02	0.73%	128.21	1.13%	197.44	1.83%	1,109.91	1.06%
Ester	#8002	162.52	2.70%	147.40	2.66%	188.70	2.71%	231.75	2.67%	261.28	2.31%	30.23	0.28%	2,298.19	2.19%
Farmer's Loop West	#8004	356.88	5.93%	345.85	6.23%	463.54	6.65%	615.04	7.10%	1,034.96	9.16%	1,053.88	9.76%	7,994.21	7.60%
Subtotal - West Side		813.59	13.52%	727.67	13.11%	998.75	14.34%	1,297.81	14.98%	2,028.47	17.96%	1,877.07	17.38%	16,469.03	15.66%
Chatanika	#8010	0.00	0.00%	8.36	0.15%	15.21	0.22%	8.50	0.10%	7.29	0.06%	16.14	0.15%	140.70	0.13%
Farmer's Loop East	#8011	452.03	7.51%	383.07	6.90%	601.52	8.63%	757.38	8.74%	1,107.36	9.80%	1,070.75	9.91%	9,457.81	8.99%
Fox	#8012	86.28	1.43%	72.00	1.30%	95.50	1.37%	142.90	1.65%	179.07	1.59%	167.08	1.55%	1,327.15	1.26%
Two Rivers	#8013	73.99	1.23%	83.51	1.50%	112.54	1.62%	114.31	1.32%	165.69	1.47%	187.96	1.74%	1,667.54	1.59%
Subtotal - East Side		612.30	10.17%	546.94	9.85%	824.77	11.84%	1,023.09	11.81%	1,459.41	12.92%	1,441.93	13.35%	12,593.20	11.98%
Badger	#8021	328.57	5.46%	276.93	4.99%	457.13	6.56%	553.22	6.38%	736.94	6.52%	251.37	2.33%	6,004.60	5.71%
North Pole	#8025	417.48	6.94%	449.76	8.10%	513.70	7.37%	708.00	8.17%	868.92	7.69%	1,106.82	10.25%	7,533.81	7.16%
South Side Sites	#8026	209.42	3.48%	154.25	2.78%	253.39	3.64%	320.70	3.70%	428.53	3.79%	436.01	4.04%	4,026.81	3.83%
Subtotal - South Side		955.47	15.88%	880.94	15.87%	1,224.22	17.57%	1,581.92	18.26%	2,034.39	18.01%	1,794.20	16.61%	17,565.22	16.70%
Transfer Sites Total		2,381.36	39.57%	2,155.55	38.83%	3,047.74	43.75%	3,902.82	45.04%	5,522.27	48.88%	5,113.20	47.34%	46,627.45	44.34%
Grand Total		6,017.83	100.00%	5,550.77	100.00%	6,966.26	100.00%	8,664.58	100.00%	11,296.60	100.00%	10,801.12	100.00%	105,160.29	100.00%

#8002 - Ester Closed for Improvement Project Phase 2 - 6/3/19 - 7/2/19

#8021 - Badger Road Closed for Improvement Project Phase 2 - 6/10/19 - 7/15/19

Material Analysis Report by Material

Inbound and outbound materials for the period 07/01/2018 - 06/30/2019

Summary Report for Sites: 1, 2, 3, 10

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	ASB-ASBTS			Total	33	0	103040	0	51.52	51.52	8,603.84
				Average		0	3122	0	1.56	1.56	260.72
	ASB-DISCRP			Total	3	3	0	0	0.00	0.00	600.00
				Average		1	0	0	0.00	0.00	200.00
	ASB-LD FEE			Total	44	48	0	0	0.00	0.00	2,400.00
				Average		1	0	0	0.00	0.00	54.55
	ASH			Total	84	0	196200	0	98.25	98.25	10,905.75
				Average		0	2336	0	1.17	1.17	129.83
	AUTOMOBILE			Total	75	75	0	0	0.00	0.00	2,250.00
				Average		1	0	0	0.00	0.00	30.00
	BRUSH			Total	5420	0	21856904	0	10928.45	10928.45	1,213,057.95
				Average		0	4033	0	2.02	2.02	223.81
	CASH +/-			Total	9	0	0	0	0.00	0.00	-28.86
				Average		0	0	0	0.00	0.00	-3.21
	CONST MAT			Total	7660	1	28190573	0	14095.32	14095.32	1,564,580.52
				Average		0	3680	0	1.84	1.84	204.25
	GRAVEL			Total	5	3	80140	0	40.07	40.07	0.00
				Average		1	16028	0	8.01	8.01	0.00
	GRAVEL-ASB			Total	335	0	8749520	0	4374.76	4374.76	0.00
				Average		0	26118	0	13.06	13.06	0.00
	GRAVEL-C3			Total	4643	1	122032307	0	61016.16	61016.16	0.00
				Average		0	26283	0	13.14	13.14	0.00
	GRAVEL-CM			Total	2243	1	61103020	0	30551.51	30551.51	0.00
				Average		0	27242	0	13.62	13.62	0.00
	GRAVEL-RP			Total	215	0	8464562	0	4232.29	4232.29	0.00
				Average		0	39370	0	19.69	19.69	0.00
	GRIT			Total	15	0	4480	0	2.24	2.24	248.64
				Average		0	299	0	0.15	0.15	16.58

Material Analysis Report by Material

Inbound and outbound materials for the period 07/01/2018 - 06/30/2019

Summary Report for Sites: 1, 2, 3, 10

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	H-ANTIFREZ			Total	27	0	904	904	0.00	0.00	3,164.00
				Average		0	33	33	0.00	0.00	117.19
	H-BATT-LD			Total	2	14	0	0	0.00	0.00	42.00
				Average		7	0	0	0.00	0.00	21.00
	H-BATT-OTH			Total	2	6	0	0	0.00	0.00	18.00
				Average		3	0	0	0.00	0.00	9.00
	H-CORROS			Total	7	0	160	160	0.00	0.00	720.00
				Average		0	23	23	0.00	0.00	102.86
	H-FLAMMABL			Total	15	0	334	334	0.00	0.00	1,336.00
				Average		0	22	22	0.00	0.00	89.07
	H-MISCELL			Total	77	5087	0	0	0.00	0.00	15,261.00
				Average		66	0	0	0.00	0.00	198.19
	H-NC-ANTFZ			Total	827	0	8826	8826	0.00	0.00	0.00
				Average		0	11	11	0.00	0.00	0.00
	H-NC-BAT-L			Total	29	45	0	0	0.00	0.00	0.00
				Average		2	0	0	0.00	0.00	0.00
	H-NC-BAT-O			Total	2	2	0	0	0.00	0.00	0.00
				Average		1	0	0	0.00	0.00	0.00
	H-NC-CORRO			Total	66	0	339	339	0.00	0.00	0.00
				Average		0	5	5	0.00	0.00	0.00
	H-NC-FLAMM			Total	738	0	4813	4813	0.00	0.00	0.00
				Average		0	7	7	0.00	0.00	0.00
	H-NC-MISC			Total	731	6994	1	1	0.00	0.00	0.00
				Average		10	0	0	0.00	0.00	0.00
	H-NC-OIL			Total	859	0	19231	19231	0.00	0.00	0.00
				Average		0	22	22	0.00	0.00	0.00
	H-NC-OILWT			Total	323	0	13859	13859	0.00	0.00	0.00

Material Analysis Report by Material

Inbound and outbound materials for the period 07/01/2018 - 06/30/2019

Summary Report for Sites: 1, 2, 3, 10

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		0	43	43	0.00	0.00	0.00
	H-NC-PAINT			Total	1017	0	15076	15076	0.00	0.00	0.00
				Average		0	15	15	0.00	0.00	0.00
	H-NC-TOXIC			Total	52	0	106	106	0.00	0.00	0.00
				Average		0	2	2	0.00	0.00	0.00
	H-PAINT			Total	32	0	600	600	0.00	0.00	3,000.00
				Average		0	19	19	0.00	0.00	93.75
	H-TOXICS			Total	4	0	11	11	0.00	0.00	143.00
				Average		0	3	3	0.00	0.00	35.75
	LNDFL-COMM			Total	128	0	0	0	0.00	0.00	0.00
				Average		0	0	0	0.00	0.00	0.00
	LOADER TME			Total	84	579	0	0	0.00	0.00	1,158.00
				Average		7	0	0	0.00	0.00	13.79
	MISCELLNS			Total	10	0	0	0	0.00	0.00	410.00
				Average		0	0	0	0.00	0.00	41.00
	MUNICIPAL			Total	16150	0	151479029	0	75739.62	75739.62	8,407,097.82
				Average		0	9380	0	4.69	4.69	520.56
	NC-ASB			Total	7	0	0	0	17.80	17.80	0.00
				Average		0	0	0	2.54	2.54	0.00
	NC-ASB LD			Total	1	1	0	0	0.00	0.00	0.00
				Average		1	0	0	0.00	0.00	0.00
	NC-ASB MAY			Total	12	0	305960	0	152.98	152.98	0.00
				Average		0	25497	0	12.75	12.75	0.00
	NC-ASH			Total	3	0	320	0	0.16	0.16	0.00
				Average		0	107	0	0.05	0.05	0.00
	NC-AUTO MA			Total	77	70	0	0	0.00	0.00	0.00
				Average		1	0	0	0.00	0.00	0.00

Material Analysis Report by Material

Inbound and outbound materials for the period 07/01/2018 - 06/30/2019

Summary Report for Sites: 1, 2, 3, 10

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	NC-AUTOMBL			Total	431	431	0	0	0.00	0.00	0.00
				Average		1	0	0	0.00	0.00	0.00
	NC-BRSH MA			Total	2	0	460	0	0.23	0.23	0.00
				Average		0	230	0	0.12	0.12	0.00
	NC-BRUSH			Total	1467	0	2109416	0	1054.79	1054.79	0.00
				Average		0	1438	0	0.72	0.72	0.00
	NC-CON MAT			Total	1049	0	1318104	0	659.11	659.11	0.00
				Average		0	1257	0	0.63	0.63	0.00
	NC-CON MAY			Total	85	0	269940	0	134.97	134.97	0.00
				Average		0	3176	0	1.59	1.59	0.00
	NC-MSW			Total	857	0	1320398	0	660.30	660.30	0.00
				Average		0	1541	0	0.77	0.77	0.00
	NC-MSW MAY			Total	368	0	449750	0	224.88	224.88	0.00
				Average		0	1222	0	0.61	0.61	0.00
	NC-SC M MY			Total	9	0	5550	0	2.78	2.78	0.00
				Average		0	617	0	0.31	0.31	0.00
	NC-SCP MTL			Total	324	0	115814	0	57.95	57.95	0.00
				Average		0	357	0	0.18	0.18	0.00
	NC-WGHTSLP			Total	48	43	140480	0	70.24	70.24	0.00
				Average		1	2927	0	1.46	1.46	0.00
	NON-FNSB A			Total	11	0	53160	0	26.58	26.58	5,900.76
				Average		0	4833	0	2.42	2.42	536.43
	NON-FNSB C			Total	135	0	1106460	0	553.23	553.23	122,817.06
				Average		0	8196	0	4.10	4.10	909.76
	NON-FNSB M			Total	116	0	562860	0	281.43	281.43	62,477.46
				Average		0	4852	0	2.43	2.43	538.60
	SAL-ALUM			Total	1	0	743	0	0.37	0.37	0.00
				Average		0	743	0	0.37	0.37	0.00

Material Analysis Report by Material

Inbound and outbound materials for the period 07/01/2018 - 06/30/2019

Summary Report for Sites: 1, 2, 3, 10

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	SAL-BATTRS			Total	1	0	4120	0	2.06	2.06	0.00
				Average		0	4120	0	2.06	2.06	0.00
	SAL-MISC			Total	1	0	0	0	0.00	0.00	0.00
				Average		0	0	0	0.00	0.00	0.00
	SAL-SCP ML			Total	300	0	2514820	0	1257.41	1257.41	0.00
				Average		0	8383	0	4.19	4.19	0.00
	SCRAP METL			Total	573	1	974839	0	487.47	487.47	54,109.17
				Average		0	1701	0	0.85	0.85	94.43
	WEIGHT SLP			Total	37	37	201482	2	103.27	103.27	185.00
				Average		1	5445	0	2.79	2.79	5.00
	WHT GD-CHG			Total	137	419	155	0	0.08	0.08	8,380.00
				Average		3	1	0	0.00	0.00	61.17
	Z-DOL			Total	4	1	0	0	0.00	0.00	-8,001.61
				Average		0	0	0	0.00	0.00	-2,000.40
				Report Total	48022	13862	413778866	64262	206878.28	206878.28	11,480,835.50
				Report Average		0	8616	1	4.31	4.31	239.07

FNSB PUBLIC WORKS DEPARTMENT | SOLID WASTE DIVISION
HISTORICAL DATA
FY10 through FY20

	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
SWD:											
Total Tonnage into Solid Waste Facility ⁽²⁾	111,784	108,026	107,353	100,289	105,038	102,600	104,693	105,791	104,117	105,160	100,500 (Bud.)
Percentage Change	7.54%	-3.36%	-0.62%	-6.58%	4.74%	-2.32%	2.04%	1.05%	-1.58%	1.00%	-4.43%
Operating and Non-Operating Revenue	6,771,183	7,345,351	8,114,063	8,309,557	9,358,124	10,341,063	12,331,199	10,689,604	11,357,371	11,644,240 (Bud.)	(Bud.)
Operating Expenses	5,877,290	7,750,139	6,061,688	6,355,264	8,695,318	9,473,200	12,944,322	9,928,894	11,170,497	9,804,840 (Bud.)	(Bud.)
Difference	893,893	(404,788)	2,052,375	1,954,293	662,806	867,863	(613,123)	760,710	186,874	1,839,400	0
Net Position	6,178,685	6,113,897	8,221,210	10,527,988	10,044,850 (3)	10,912,712	10,299,590	11,060,300	10,822,892	(1)	N/A
Fee	\$64	\$71	\$78	\$85	\$92	\$95	\$97	\$101	\$107	\$111	\$115
SWCD:											
Total Tonnage from SWCD	44,735	44,040	43,848	41,410	43,838	44,559	46,292	48,145	47,751	46,627	49,232 (Bud.)
Percentage Change	7.31%	-1.55%	-0.44%	-5.56%	5.86%	1.64%	3.89%	4.00%	-0.82%	-2.35%	5.59%
Revenues	5,659,014	6,548,671	7,032,382	6,690,039	7,022,838	7,462,603	7,762,445	8,082,668	8,316,977	8,617,610 (Bud.)	(Bud.)
Expenditures	5,368,693	5,596,615	5,906,761	5,942,482	6,580,713	6,342,914	6,796,757	7,275,088	7,702,495	8,422,480 (Bud.)	(Bud.)
Difference	290,321	952,056	1,125,621	747,557	442,125	1,119,689	965,688	807,580	614,482	195,130	0
Fund Balance	3,136,749	4,088,805	5,190,426	5,937,984	5,293,609	6,329,202	4,138,390	4,965,563	1,429,634	(1)	N/A
Budgeted Hauling/Fees	5,238,990	5,618,840	5,896,030	6,177,450	6,475,420	5,878,450	6,243,440	6,537,370	7,119,670	7,441,780	7,659,960
Percentage Change	4.98%	7.25%	4.93%	4.77%	4.82%	-9.22%	6.21%	4.71%	8.91%	4.52%	2.93%
Actual Hauling/Fees	4,967,022	5,218,826	5,523,332	5,540,791	6,217,744	6,026,392	6,286,946	6,722,538	7,006,788	7,090,307	
Percentage Change	18.31%	5.07%	5.83%	0.32%	12.22%	-3.08%	4.32%	6.93%	4.23%	1.19%	
Budgeted Hauling/Fees	5,238,990	5,615,840	5,896,030	6,177,450	6,475,420	5,878,450	6,243,440	6,537,370	7,119,670	7,441,780	7,659,960
Actual Hauling/Fees	4,967,022	5,218,826	5,523,332	5,540,791	6,217,744	6,026,392	6,286,946	6,722,538	7,006,788	7,090,307	
Difference	271,968	397,014	372,698	636,659	257,676	(147,942)	(43,506)	(185,168)	112,882	351,473	7,659,960

(1) Pending FY19 Audit

(2) Net tonnage for current year

RECYCLING / WASTE-TO-ENERGY

OPPORTUNITIES

RECYCLING		WASTE - TO - ENERGY	
◆ ALUMINUM	◆ SCRAP METAL	◆ FLAMMABLE LIQUIDS	◆ OILY WATER
◆ ANTIFREEZE	◆ VEHICLE BATTERIES	◆ FUELS	◆ USED OIL

RECYCLING / WASTE-TO-ENERGY

STATISTICS

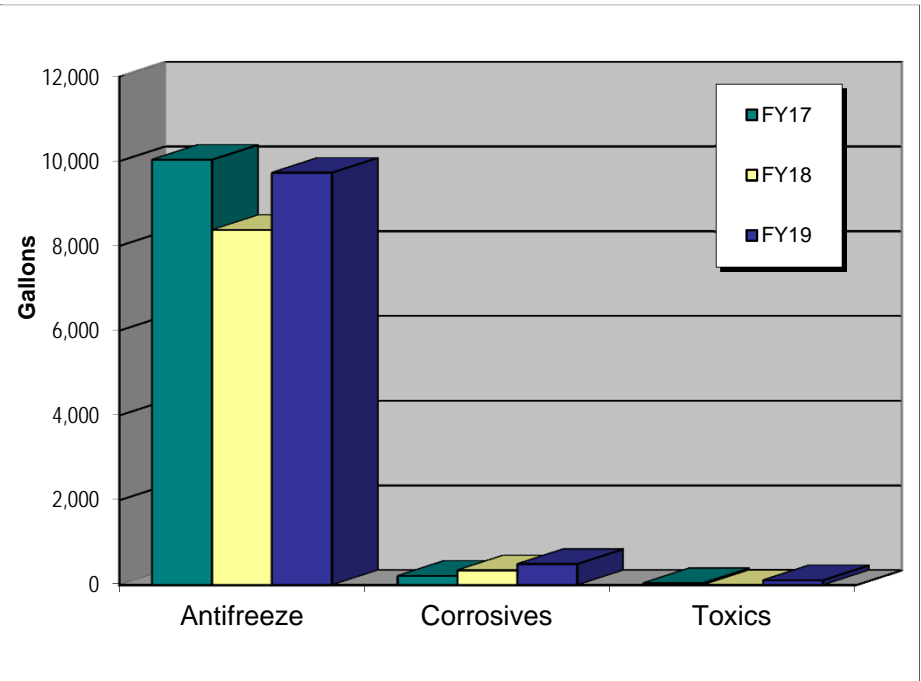
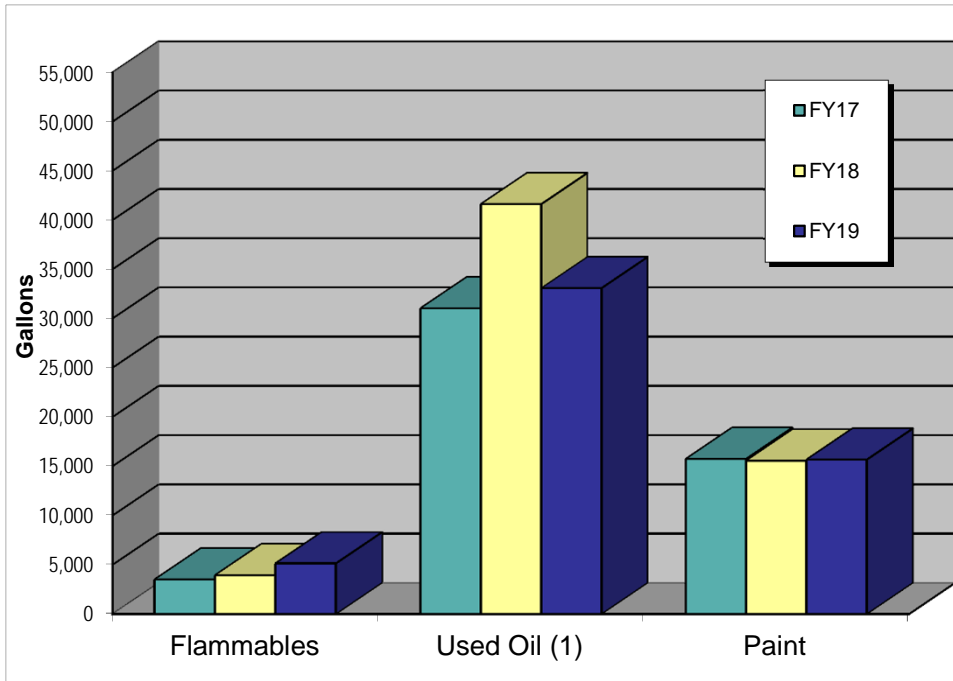
MATERIAL	FY17 QUANTITIES	FY18 QUANTITIES	FY19 QUANTITIES	TOTALS	COMMENTS / EXPLANATION
Aluminum	262 lbs.	604 lbs.	743 lbs.	1,609 lbs.	Aluminum cans and miscellaneous pieces are recycled through a contractor.
Antifreeze	13,967 gallons	15,898 gallons	14,521 gallons	44,386 gallons	Antifreeze is collected, consolidated, and recycled through a hazardous waste contractor.
Scrap Metal / Automobile Program	252 tons 437 automobiles	644 tons 502 automobiles	1257 tons 600 automobiles	2,153 tons 1,539 automobiles	Junk automobiles along with other miscellaneous metal are recycled as scrap metal after hazardous materials are removed.
Vehicle Batteries	3 tons / 6,000 lbs. 150 vehicle batteries	0	2.06 tons / 4,120 lbs. 103 vehicle batteries	5.06 tons / 10,120 lbs. 253 vehicle batteries	Batteries are collected and recycled through a contractor.
Flammable Liquids	3,520 gallons	5,115 gallons	4,510 gallons	13,145 gallons	Old gasoline, oil-based paints, paint thinner, and other hazardous wastes that are combustible, are used as a waste-to-energy fuel.
Fuels	46 – 1,000 lb. boxes	39 – 1,000 lb. boxes	39 – 1,000 lb. boxes	124 – 1,000 lb. boxes	Old gasoline, oil-based paints, paint thinner, and other hazardous wastes that are combustible, are used as a waste-to-energy fuel.
Oily Water	689 gallons	0 gallons	1,925 gallons	2,614 gallons	The Solid Waste Facility utilizes a contractor to transport the oily water to an energy recovery facility, where the oil is separated from the water and used in a used oil boiler.
Used Oil	23,523 gallons	19,544 gallons	19,361 gallons	62,428 gallons	Used oil is collected and burned for energy recovery in used-oil space heaters that heat onsite buildings. The USED OIL RECOVERY PROGRAM has resulted in significant savings of used oil disposal costs and reduced the need to purchase heating fuel.
Used Cooking Oil & Grease	5,280 gallons	4,675 gallons	6,270 gallons	16,225 gallons	Generally not accepted. Cooking oil & grease can be recycled and properly disposed in Fairbanks. ▶▶ SEE WEBSITE FOR OPTIONS.

RECYCLING / HOUSEHOLD HAZARDOUS WASTE HIGHLIGHTS

- Miscellaneous accepted materials increased for the third straight year.
- Quantity of hazardous material accepted down 7% from FY18.
- Used oil, paint and antifreeze constitute the majority of the hazardous waste stream.

**FNSB DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
RECYCLING / HOUSEHOLD HAZARDOUS WASTE FACILITY**

**TYPES OF MATERIALS ACCEPTED
FY17 through FY19
Page 1 of 2**



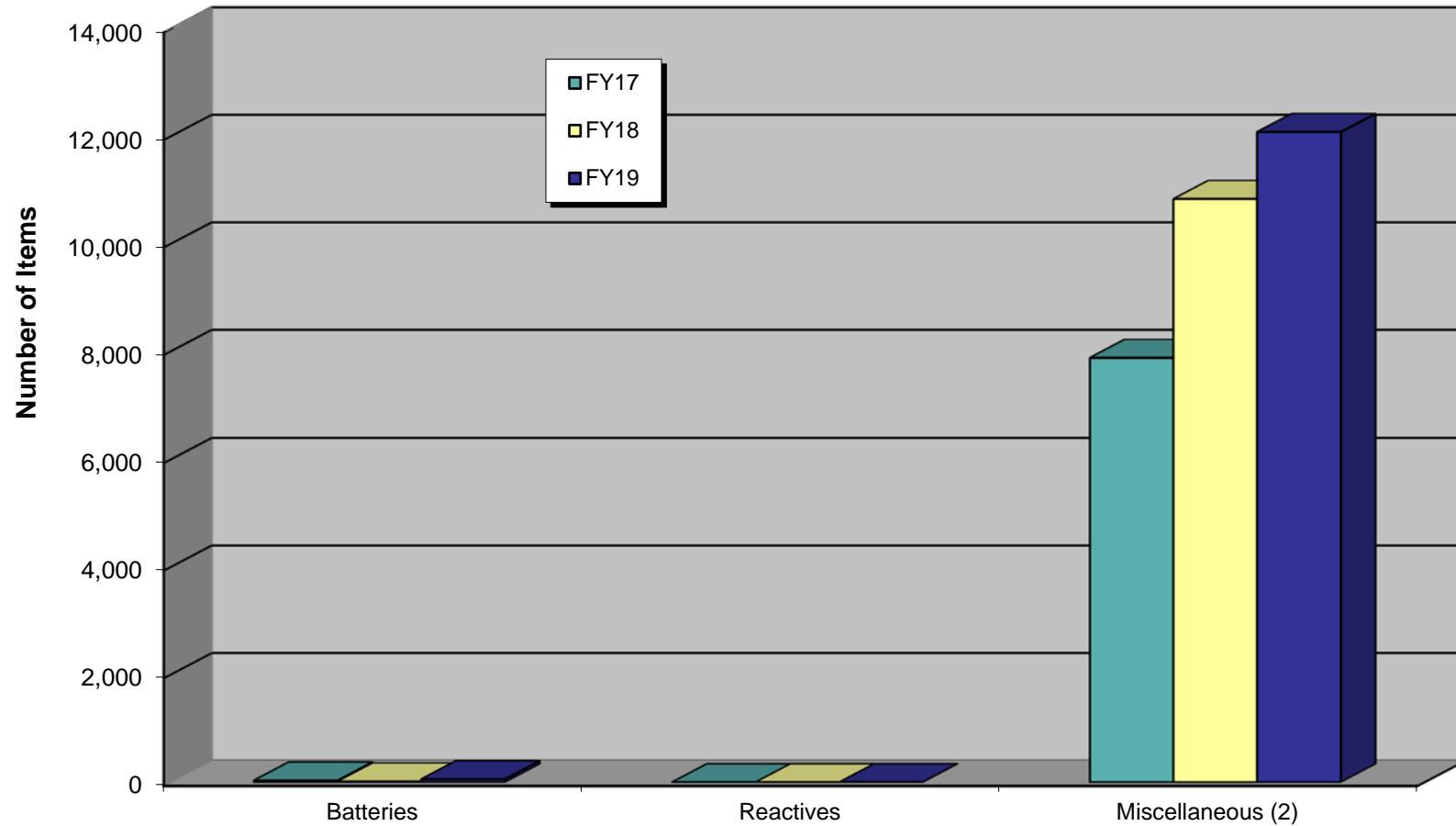
TOTAL POUNDS ACCEPTED	
FY17 =	494,217
FY18 =	570,396
FY19 =	528,529

CUSTOMER TRANSACTIONS	
FY17 =	3,822
FY18 =	3,859
FY19 =	4,808

⁽¹⁾ Used Oil = used oil & oily water

FNSB DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
RECYCLING / HOUSEHOLD HAZARDOUS WASTE FACILITY

TYPES OF MATERIALS ACCEPTED
FY17 through FY19
Page 2 of 2



(2) Grease, Absorbent Pads, Aerosol Cans, Propane Tanks, etc.

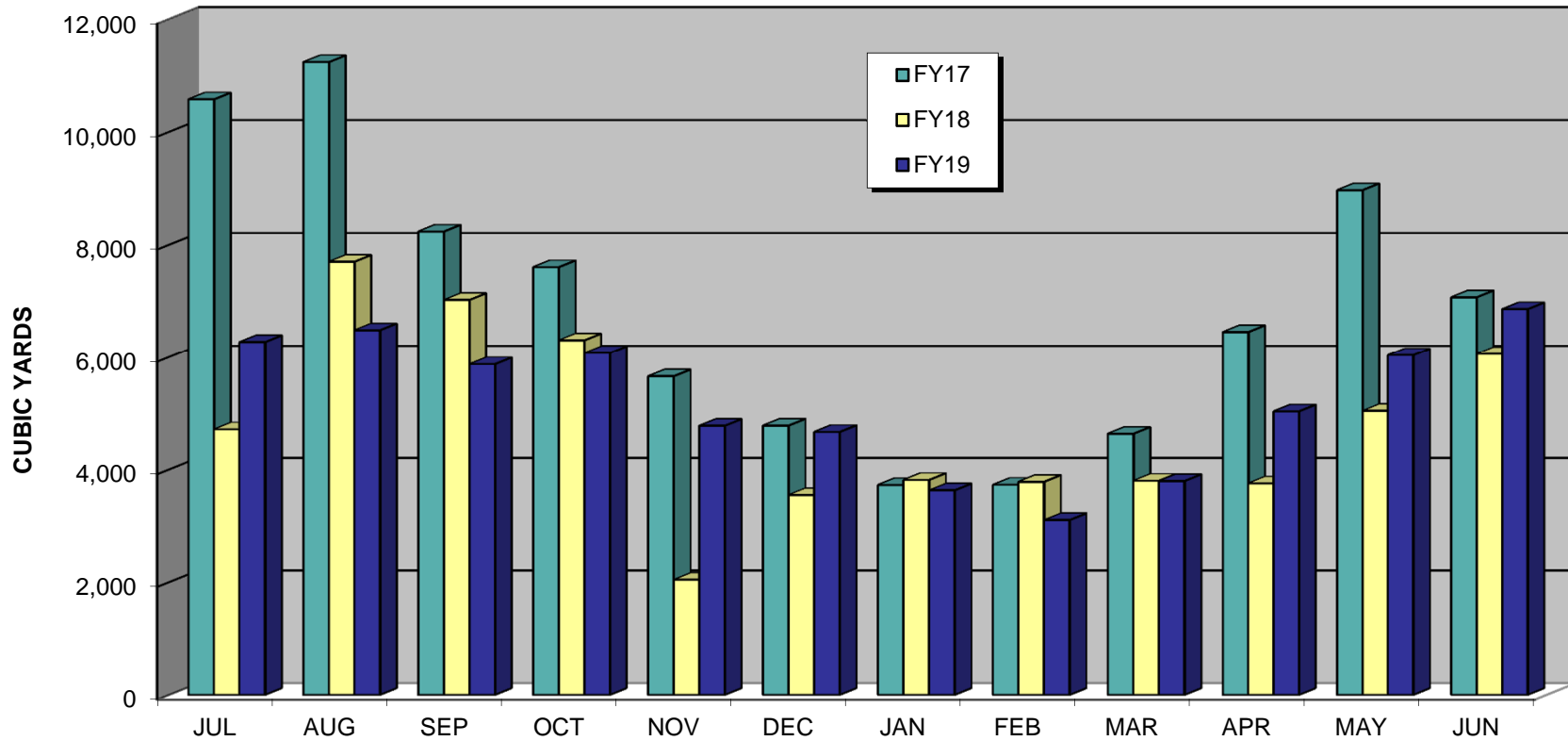
**PUBLIC WORKS DEPARTMENT | SOLID WASTE DIVISION
CENTRAL RECYCLING FACILITY**

MATERIALS ACCEPTED

♦ Aluminum Cans	♦ Electronics	♦ Newspaper	♦ Plastic # 1 PETE (bottles)		
♦ Cardboard	♦ Mixed Paper	♦ Office Paper	♦ Plastic # 2 HDPE (jugs)		
STATISTICS (lbs)					
MATERIAL	FY18 QUANTITIES	FY19 QUANTITIES	FY20 QUANTITIES	TOTALS	Comment
Aluminum Cans	21,809	31,414	N/A	53,223	
Cardboard	459,150	556,897	N/A	1,016,047	
Electronics	201,159	203,974	N/A	405,133	
Mixed Paper	597,792	590,213	N/A	1,188,005	
Newspaper	82,362	0	N/A	82,362	Baled as Mixed Paper. Existing balers not capable of baling loose newspaper.
Office Paper	0	0	N/A	0	Baled as Mixed Paper. Existing balers not capable of baling loose office paper.
Plastic #1	30,762	41,947	N/A	72,709	
Plastic #2	14,848	20,509	N/A	35,357	
TOTAL (LBS.)	1,407,882	1,444,954	N/A	2,852,836	
TOTAL (TONS)	703.9	722.5	N/A	1,426.4	

* The Central Recycling Facility opened 9/1/17

**FNSB PUBLIC WORKS DEPARTMENT
SOLID WASTE DIVISION
COMPARISON OF GRAVEL USAGE
FY17 through FY19**



Note: Gravel conversion = 2,832 - 4,287 lbs/cubic yard (FY17-FY19)

	Cubic Yards	% Change
FY17	82,642	
FY18	57,557	-30.35%
FY19	62,576	8.72%

ADDITIONAL INFORMATION

SIGNIFICANT DATES:

- 1) South Cushman Landfill (Solid Waste Facility/SWF) began in 1963
- 2) City of Fairbanks operated the SWF 1963 – 1973
- 3) FNSB operated the SWF 1973 – present
- 4) Recycling/Household Hazardous Waste Facility opened August 1996
- 5) Waste Paper Program began June 1, 1998, and ended January 2007
- 6) Cell 1 opened October 20, 1999, and closed August 31, 2008
- 7) Used Oil Energy Recovery Program began October 24, 2002, becoming the primary heat source for the Main Landfill building and at the R/HHW Facility beginning December 2007
- 8) Cell 2 opened October 2006, base layer placed October 2, 2006 – April 5, 2007, resumed use September 1, 2008-June 30, 2015
- 9) Cell 3 opened July 1, 2015
- 10) Cell 2 leachate generation began April 2007
- 11) Cell 3 leachate generation began July 1, 2015
- 12) New scale facility opened October 19, 2011
- 13) Projected capacity of the MSW Disposal Areas is the year 2054 including C&D Disposal; current C&D Disposal Area is 2023
- 14) RD&D Leachate Recirculation started May 22, 2013
- 15) Central Recycling Facility opened September 1, 2017.

ACREAGE:

- 1) C&D Disposal Area - 88 acres
- 2) MSW Disposal Area - 164 acres
- 3) Total 252 acres

SOLID WASTE FACILITY COVER WAIVERS:

- 1) Alternative Daily Cover - Enviro® Cover System
1.75-mil thick & 16' wide degradable geosynthetic plastic film approved April 1 – October 31
- 2) Extreme Weather Waiver – Between October 31 and April 1, compacted municipal waste does not have to be covered until an entire lift is finished or if an area has been inactive for at least seven days

LAGOON LEACHATE CAPACITIES:

- 1) Lagoon A – 163,184 gallons, including overflow 311,826 gallons
- 2) Lagoon B – 500,255 gallons, including overflow 813,293 gallons
- 3) Total: 1,125,119 gallons

LEACHATE – RESEARCH, DEVELOPMENT, AND DEMONSTRATION (RD&D):

- 1) RD&D started May 22, 2013
- 2) Fluorescein dye added June 6, 2013
- 3) FY13 – 681,302 gallons recirculated
- 4) FY14 – 678,670 gallons recirculated
- 5) FY15 – 955,414 gallons recirculated
- 6) FY16 – 3,789,422 gallons recirculated
- 7) FY17 – 4,298,123 gallons recirculated
- 8) FY18 – 6,265,733 gallons recirculated
- 9) FY19 – 8,552,746 gallons recirculated
- 10) Total recirculated @ June 30, 2019 – 25,221,410 gallons

MSW DISPOSAL AREA CONSTRUCTION:

- 1) Geosynthetic clay liner (GCL)
- 2) 45-mil scrim reinforced polypropylene geomembrane liner
- 3) 6-inch diameter High Density Polyethylene (HDPE) Leachate Collection Pipe

WASTE TRACKING/TONNAGE INFORMATION:

- 1) 48,022 tickets generated in FY19 for the entire Solid Waste Facility
- 2) FY19 – 105,160 tons
- 3) FY19 Average – 290 tons/day
- 4) High August 2018 – 367 tons/day
- 5) Low February 2019 – 198 tons/day
- 6) 10,611 tickets (solid waste) generated for Transfer Sites – 46,627 tons total for an average of 4.39 tons (8,780 lbs) per load

GENERAL:

- 1) 579.98' approved closure elevation for MSW and C & D Disposal Areas

PER CAPITA MSW GENERATION:

- 1) National 2019 4.60 lbs. per person/day
- 2) FNSB FY19 5.93 lbs. per person/day