LEE COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY BLUE SHEET NO: 20050175										
ACTION R axle walki	1. REQUESTED MOTION:  ACTION REQUESTED: Approve award of formal quotation and issuance of a purchase order to purchase ten (10) tandem axle walking-floor trailer to the low quoter meeting all specification requirements in an amount not-to-exceed \$64,500.00 per trailer. Approve transfer from reserves in the amount of \$645,000.00.									
WHY ACTI purchases	WHY ACTION IS NECESSARY: To realize a cost savings and better reliability on work currently being contracted and purchases exceeding \$50,000 require Board approval.									
WHAT ACTION ACCOMPLISHES: Provides trailers for the Solid Waste Division to haul solid waste from its three transfer stations. Calculated return on investment is approximately three years.										
2. DEPARTMENTAL CATEGORY: SOLID WASTE C 8 a 3. MEETING DATE: 2-22-05										
4. AGENDA:		5. REQUIRE	MENT/PURPOSE:	<u>6. 1</u>	REQUESTOR OF IN	FORMATIO	<u>N</u>			
CONSENT										
7. BACKGROUND:										
The Solid Waste Division has reviewed the advantages and disadvantages for providing self-service transport of solid waste from its three transfer stations. In addition to providing more reliable service, the Division has determined that a cost savings of approximately \$300,000.00 per year can be expected. Please see attached memo dated 1-10-05.  The Division has requested that Fleet Management and the Purchasing Division secure formal firm price quotes for the										
specified Division i	trailers. It is exp is requesting Boa is all purchasing	pected that the: ard approval to	se quotes will be purchase these	e received duri e trailer for a n	ng the month of Fo ot-to-exceed amou this fashion will e	ebruary. T int from th	'he Solid \ e lowest p	Waste riced vendor		
Upon transfer, fund will be available in: OB 53409 40100. 50XXX.183 - \$129,000.00 OB 53409 40100. 50XXX.184 - \$129,000.00 OB 53408 40100. 50XXX - \$387,000.00										
8. MANAGEM	8. MANAGEMENT RECOMMENDATIONS:									
9. RECOMMENDED APPROVAL										
A DEPARTMENT DIRECTOR	DEPARTMENT PURCH. OR HUMAN COUNTY BUDGET COUNTY									
Jamelle Jan of the hear 14 A										

2. 8.05	had the how	NA		OA 2 to 100	OM A COO	Risk 58	9/1/5/2/4/5	Hundr 2-8-05
10. COMMISS	DEN DEN	PROVED NIED FERRED HER	Rec. by Co. Date: Time:		ŀ	RECEIVEL COUNTY A 2/8/03 /20 yrss COUNTY AI	7	
s:\Bluesheets\wA	LKING FL TRIRS.DOC-	-2/7/05 6:46 PM	Personal Appropriate Control of the		E	37.75 V 37	2 10: T/C	

## **REQUEST FOR TRANSFER OF FUNDS**

FUND NAME:	Solid Waste System			DATE:	02/08/05	BATCH NO.			
FISCAL YEAR:	FY 04/05	FUND #:	40100	_ DOC TYPE:	YB	_LEDGER TYPE:		ВА	
TO:	Soli	d Waste	Ş	Solid Waste	Transfr Stations/Di	sposa	al		
		ON NAME)				OGRAM NAME)	<u></u>	<u></u>	
	NOTE: PLEASE LIS FUND #-DEPT/DIV # (EXAMPLE: 8B5120	-PROGRAM #-OE					#.		
	ACCOUNT NUMBE	ER		OE	BJECT NAM	1E		DEBIT	
	OB5340940100.5064 OB5340940100.5064 OB5340840100.5064	30.184		Vehicles & Ro Vehicles & Ro Vehicles & Ro	lling Stock		\$	129,000 129,000 387,000	
						TOTAL TO:	\$	645,000	
FROM:		n-Dept. ON NAME)		Solid Waste Operating Reserves (PROGRAM NAME)					
	ACCOU	NT NUMBER		OF	BJECT NAM	1E	CREDIT		
	GC5890140100.5099	Reserve for Fund Balances			\$	645,000			
						TOTAL FROM:	\$	645,000	
EXPLANATION:  DIVISIO  DBS	As per bluesheet #BS  N DIRECTOR SIGNATE  APPROVAL		2/22/05. DATE	DIV	Nille	TOR SIGNATURE		DATE DATE	
	APPROVAL _	DENIAL_		BUDGET OPER	Zara ations m	NAGER SIGNATU	_ <del>_</del>	2/9/05- DATE	
CO. ADMIN.	APPROVAL _	DENIAL_	<del></del>		ADMIN. SIG	GNATURE		DATE	
BCC APPROVAL D	ATE _				BCC CH	AIRMAN SIGNATU	RE		
BA NO:	<u>.</u>	UTH CODE:			TRANS D	ATE:		REV 05/93	



## INTEROFFICE MEMORANDUM FROM

## SOLID WASTE DIVISION

Phone: (239) 338-3302 Fax: (239) 461-5871

Data: January 1 2005

		Date.	January 1, 2005
TO:	Mr. Jim Lavender, Director	From:	Lindsey J. Sampson, P.E.
	Public Works		Director

## SUBJECT: Transport of MSW to the Lee Hendry Landfill

The Solid Waste Division has been experiencing an increasing degree of unreliable service from its contracted MSW transfer hauling company. The Division has made inquiries as to the availability of other trucking companies to either supplement the transfer operation or replace the contracted company. Companies performing this type of work are somewhat limited because of the requirement for specialty (walking-floor or live-bottom) trailers. To date, we have been unsuccessful in finding any company that is willing to do either.

Consequently we began analyzing the costs, advantages and disadvantages of performing the work "in-house". Results of our analysis are:

Advantages - Scheduling and reliability is internal and controlled. Sufficient CDL licensed

operators are on hand in the SW Division to provide back-up for regular assigned drivers during sick leave, vacations, etc. Cost is favorable compared

to contracting out.

Disadvantages - Requires additional in-house personnel of approximately 7, Class A CDL

licensed drivers. Will require revised management structure and dependable

expeditious maintenance program.

Costs - Projected operating costs are more economical than 'contracted costs'. The

County has a significant cost advantage for fuel, insurance, and replacement parts. The following summarizes in-house and contracted operating costs. The analysis indicates a three-year payback (ROI) of the capital cost. The analysis is separated into the tree transfer facilities but the overall transfer operation requires coordination between the facilities in order to maximize

efficiencies.

	MSW Transferred Tons / Yr	Capital Cost	FY 05 Contracted Operating Cost	Projected SW Division Operating Cost
WTE *	84,250	571,000	581,503	336,350
Clewiston	22,150	247,250	211,680	144,236
LaBelle	25,000	247,250	167,470	124,526
Total	131,400	\$1,065,500	\$960,650	\$605,115
		Operating Cos ROI = \$1,065	,500 / (\$960,000 - \$60	000 / yr 05,115)

 $<sup>= 3 \</sup>text{ Years}$ 

Detailed cost analysis for each facility is attached hereto.

The existing contract with CTI will expire in May, 2005. There is an optional 1 year term extension. The Division has requested, but has not received confirmation from the Contractor that it will continue the transfer service for an additional year at the same rates. We believe that it is unlikely given the recent significant increases for fuel, insurance, and maintenance parts.

Given the above review, it is apparent that in-house operation of the MSW transfer program will benefit the County on an economic basis. Further, the in-house operation will provide the Division with significantly more reliable service and will allow the Division to increase its operational efficiencies. The current situation with the contracted transfer company is problematic and will likely result in increased cost when the occasion arises that the Division must employee other companies to supplement or replace the contracted company due to breech or partial breech of contract. The Division recommends that the required equipment and personnel is obtained in order to bring the transfer operation to an in-house program.

<sup>\*</sup> Anticipates requirement for partial direct haul as per the RFP/Contract for SW Franchise haulers.

Actual		_		MSW Hauling		aВ	elle TS							
# weeks		49	50	<u> </u>		1	50	48						
LaBelle	mon		tue	Wed	thu	fri		sat	total		avg/6			
lds/y	3:	28.00	244.00				183.00	113.00	1,	427.00	237.83			
lds/d	1	7.00	5.00				4.00	2.00		29.00	4.83			
tns/y tns/d		63.32 18.49	4,240.03 17.38				3,057.20	1,821.25		942.98	4,157.16			
tris/u		10.49	17.38	17.14	17.70	J	16.71	16.12		103.54	17.26			
	MSW Tons	·~-		24.042.00			Mon	<u>Tue</u>	We		<u>Thu</u>	<u>Fri</u>	Sat	<u>Total</u>
	MOVV TORS	5/11	Loads @ T/Load	<b>24,942.98</b> 17.25			6,063.32	4,240.03		045.99	5,715.19	3,057.20	1,821.25	24,942.98
			Loads @ 1/Load	17.25	By#weeks		351.50	245.80		234.55	331.32	177.23	105.58	1,445.97
	Hrs/Day		Hrs/Trip	Loads/Day	By day Reg. Trucks		7.17 1.59	4.92 1.09	1.0	4.51	6,50 1,44	3.54 0.79	2.20	28.84
M-F	ni5/Day	9.00	2.00				1.58	1,09	1.0	<u> </u>	1,44	0.79	0.88	Tons/Day
Sat		5.00	2.00											77.63
Oat		5.00	2.00	2.50										
Miles	Miles/ld Lds/Wk			Miles/ Wk Miles/ Yr	1,730.43 89,982.35									
Capital			Tractors Walkingfloors	76,500.00 53,000.00 Total	132,500.00	}		′ears Use ′ears Use			Depreciation / T Depreciation / T		16,392.86 13,250,00	
Labor	Drivers	I	Hrs/Day (M-F)	Hrs/Day (Sat)	Wages	Re	eg Hrs/Wk/D	rvr	OT Hrs/V	Vk				
		1.50	9.00	5.00	13.00	)	60.00			7.50				
				Labor Cost / Wk Fringes / Wk Tot Lab / Wk			780.00 273.00 1.053.00			146.25 29.25 175.50	1,228.50	Labor	<u>\$ / Yr</u> 63,882,00	
Maintenan	ıce		3,000.00	Per Trl/Yr Per Trk/Yr							1,220.00	Labor	7,500.00 11,250.00	
Tires			8.00	Per Trl/Yr	200.00								4,000.00	
Insurance	& IGS, etc		1,000.00	Tires/Trk/Yr Per Trl/Yr Per Truck	200.00	) pe	er Tire						2,400.00 2,500.00	
Fuel			·	Per Gal	6.00	) Mi	/ Gal						3,000.00 29,994.12	
											Tot Cost / Yr		124,526.12	

5.76 Years

Return on Truck Invest

FY05

167,470.10 CTI Cst/Tn

Save per Yr

6.71

42,943.98

Actual MSW Hauling Analysis Clewiston TS # weeks 51 52 51 50 40 Clew mon51 tue52 wed51 thu50 fri51 sat40 total avg/6 ids/y 178 268 236 180 231 96 1,189.00 198.17 lds/d 3 5 5 5 24.00 4.00 3232.70 tns/y 5251.98 4284.28 3154.04 4431.68 1790.06 22,144.74 3,690.79 tns/d 18.16 19.60 18.15 17.52 18.54 19.18 18,65 111.26 Mon Wed Tue Thu <u>Fri</u> <u>Sat</u> Total MSW Tons/Yr 22,144.74 3,232.70 5,251.98 4,284.28 3,154.04 4,431.68 1,790.06 22,144,74 Loads @ T/Load 18.54 By#weeks 174.33 283.23 231.04 170.09 238.99 96.53 1,194.22 By day 3.42 5.45 4.53 3.40 4.69 2.41 23.90 Hrs/Day Hrs/Trip Loads/Day Req. Trucks 0.95 0.94 1.26 1.51 1.30 1.21 Tons/Day M-F 9.00 2.50 3.60 66.76 5.00 Sat 2.50 2.00 Miles Miles/ld 120.00 Miles/ Wk 2,867.57 Lds/Wk 23.90 Miles/ Yr 149,113.69 Capital 1.50 Tractors 76,500.00 114.750.00 7.00 Years Use Depreciation / Trk 16.392.86 2.50 Walkingfloors 53,000.00 132,500.00 10.00 Years Use Depreciation / Trl 13,250.00 247,250.00 Total Labor Drivers Hrs/Day (M-F) Hrs/Day (Sat) Wages Reg Hrs/Wk/Drvr OT Hrs/Wk 1.50 9.00 5.00 13.00 60.00 7.50 Labor Cost / Wk 780.00 146.25 Fringes / Wk 273.00 29.25 \$/Yr Tot Lab / Wk 1,053.00 175.50 1,228.50 63,882.00 Labor Maintenance 3.000.00 Per Trl/Yr 7,500.00 7,500.00 Per Trk/Yr 11,250.00 Tires 8.00 Per Trl/Yr 200.00 per Tire 4.000.00 8.00 Tires/Trk/Yr 200.00 per Tire 2,400.00 Insurance & IGS, etc 1,000.00 Per Trl/Yr 2,500,00 2,000.00 Per Truck 3,000.00 Fuel 2.00 Per Gal 6.00 Mi / Gal 49,704.56 Tot Cost / Yr 144,236.56 Tot Cost / Ton 6.51

3.67 Years

Return on Truck Invest

FY05

211,677.66 CTI Cst/Tn

Save per Yr

9.56

67,441.10

MSW Hauling Analysis WTE TS # weeks 52 52 52 52 52 52 WTE mon tue wed thu fri sat total avg/5 lds/y 936 936 936 936 936 936.00 4,680.00 lds/d 18 18 18 18 18 90.00 18.00 16848.00 16848.00 tns/y 16848.00 16848.00 16848.00 84,240.00 16,848.00 18.00 tns/ld 18.00 18.00 18.00 18.00 90.00 18.00 Tue <u>Mon</u> Wed <u>Thu</u> <u>Eri</u> MSW Tons/Yr 84,240.00 16,848.00 16,848.00 16,848.00 16,848.00 16,848.00 Loads @ T/Load 18.00 324.00 Tns /day 324.00 324.00 324.00 324.00 lds/ day 18.00 18.00 18.00 18.00 18.00 Hrs/Day Hrs/Trip Loads/Day Reg. Trucks 4.00 4.00 4.00 4.00 4.00 M-F 9.00 2.00 4.50 Sat 0.00 2.00 0.00 Miles Miles/Id 60.00 Miles/ Wk 5,400.00 Lds/Wk 90.00 Miles/ Yr 280,800.00 Capital 4.00 Tractors 76,500.00 306,000.00 7.00 Years Use Depreciation / Trk 5.00 Walkingfloors 53,000.00 265,000.00 10.00 Years Use Depreciation / Trl Total 571,000.00

Sat

#DIV/0!

43,714.29

26,500.00

0.00

0.00

0.00

<u>Total</u>

84,240.00

4,680.00

Tons/Day

90.00

81.00

				i Otal	07 1,000.0	00						
Labor	Drivers	Hrs/Day (M-F)	Hrs	/Day (Sat)	Wages	R	eg Hrs/Wk/D	rvr (	OT Hrs/Wk			
	4.	00	9.00	0.00	13.0	00	160.00		20.00			
			Fring	or Cost / Wk ges / Wk Lab / Wk			2,080.00 728.00 2,808.00		390.00 78.00 468.00	3,276.00	Lobor	\$ / Yr
Maintena	ance		0.00 Per 0.00 Per	Trl/Yr			2,000.00 - -		400.00	3,276.00	Labor	170,352.00 15,000.00 30,000.00
Tires			8.00 Per 8.00 Tires				er Tire - er Tire -					8,000.00 6,400.00
	e & IGS, etc	•	0.00 Per 0.00 Per				-					5,000.00 8,000.00
Fuel			2.00 Per	Gal	6.0	00 M.	i/Gal -					93,600.00
										Tot Cost / Yr Tot Cost / Ton		336,352.00 3.99
								FY05	581,503.76	CTI Cst/Tn		6.90
Return or	n Truck Invest			2.33	Years					Save per Yr		245,151.76

	Available	Begin	Receive	Burn	Haul	Total	End
	MSW	Inventory	@ WTE		. ,	Disposal	Inventory
Jan	41080		41080	36,000	7015		
Feb	41080	10,065	41080	,		,	•
Mar	41080	12,130	41080	•		•	,
Apr	41080	10,195	41080	•		43,015	8,260
May	41080	8,260	考 28500	18,000		•	11,745
Jun	41080	11,745	41080	36,000			9,810
Jul	41080	9,810	41080	34,000	7015		9,875
Aug	41080	9,875	41080	32,000	7015	39,015	11,940
Sep	41080	11,940	41080	36,000	7015	43,015	10,005
Oct	41080	10,005	41080	34,000	7015	41,015	10,070
Nov	41080	10,070	\chi 28500	18,000	7015	25,015	13,555
Dec	41080	13,555	41080	36,000	7015	43,015	11,620
							•
		11,620	41080	36,000	7015	43,015	9,685
		9,685	41080	32,000	7015	39,015	11,750
		11,750	41080	36,000	7015	43,015	9,815
		9,815	41080	36,000	7015	43,015	7,880
	Second	7,880	28500	18,000	7015	25,015	11,365
	Year	11,365	41080	36,000	7015	43,015	9,430
		9,430	41080	34,000	7015	41,015	9,495
		9,495	41080	32,000	7015	39,015	11,560
		11,560	41080	36,000	7015	43,015	9,625
		9,625	41080	34,000	7015	41,015	9,690
		9,690	28500	18,000	7015	25,015	13,175
		13,175	41080	36,000	7015	43,015	11,240
Totals Per Year	492960		467800	384,000	84180	468,180	

Total Avail 492960 Direct Haul Cty Port. 330283.2 132113.3 25406.4

Transfer Haul Assumes 18 Loads Avg / Day and 4 Trucks

5 days/wk and 3 Trucks in Hendry = 90 / wk need 10 trailers total

Loads / Yr WTE	\$/	Ld (	Cost/Yr
Current w/o Direct HI	5777	112	647,024
Loads / Yr Clew Loads / Yr LaBelle	1530 1530	155 110	237,150 168,300
		•	1,052,474

NOTE! ASSUMES FRACHISC HADLERS - DIRECT HADL to L.F 212,600 T DURING MAJOR OUTAGES PER NEW FRANCHISC CONTRACT