

SOLID WASTE ADVISORY COMMISSION JUNE 9, 2010 6:30 P.M. CITY HALL, COUNCIL CHAMBERS 301 WEST 2ND STREET AUSTIN, TEXAS 78701

CURRENT BOARD MEMBERS:

Gerry Acuna, Chair

Rick Cofer, Co-Chair

Fayez Kazi

Brent Perdue

Bob Schafer

Maydelle Fason

AGENDA

CALL TO ORDER

1. CITIZEN COMMUNICATION: GENERAL

The first four speakers signed up prior to the meeting being called to order will each be allowed a three-minute allotment to address their concerns regarding items not posted on the agenda.

2. APPROVAL OF MAY MEETING MINUTES

3. NEW BUSINESS

Discussion and Action - Material Recovery Facility RFP Resolution

4. STAFF BRIEFINGS

- a. Discussion Toilet Recycling (AWU Staff)
- b. Discussion Fiscal Year 2011 Budget Presentation
- c. Discussion Single Stream Recycling Contract Update
- d. Discussion and Action FM 812 Landfill Closure (Change Order)

 Authorize execution of change order # 4 to the construction contract with RANGER EXCAVATING, L.P., Austin, TX, for FM 812 Landfill Final Closure and Erosion Control Improvements project in the amount of \$470,000, for a total contract amount not to exceed \$6,197,483.50.
- e. Discussion Director's Report
 - Performance Measures
 - Department Highlights/Awards
- f. Allied Waste Presentation on the Material Recovery Facility (MRF)
- g. Discussion Staff Recommendation to Council Regarding the Single Stream Contract

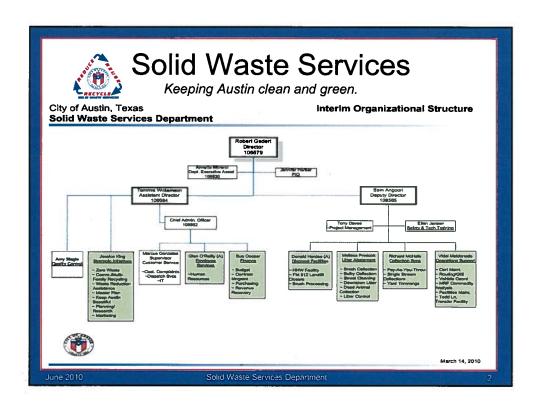
5. FUTURE AGENDA ITEMS

ADJOURNMENT

The City of Austin is committed to compliance with the American with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Meeting locations are planned with wheelchair access. If requiring Sign Language Interpreters or alternative formats, please give notice at least 4 days before the meeting date. Please call Annette Moreno at Solid Waste Services Department, at (512) 974-1987, for additional information; TTY users route through Relay Texas at 711.

For more information on the Solid Waste Advisory Commission, please contact Annette Moreno at (512) 974-1987.





Budget Highlights

- □ Pay-As-You-Throw Rates
- ☐ Single-Stream Curbside Recycling Processing
- □ Service Fleet Fuel Efficiency
- □ Zero Waste Initiatives

June 2010

Solid Waste Services Department

Proposed Rate Increase

	FY10	FY11		- 70
	Approved	Proposed	%	Monthly
Residential	Rate	Rate	Inc/Dec	Increase
Base Charge	\$9.10	\$9.10	0	\$0
30 gal cart	\$4.75	\$4.75	0	\$0
60 gal cart	\$10.00	\$9.65	(3.5)	(\$0.35)
90 gal cart	\$17.20	\$18.20	5.8	\$1.00
Anti-Litter Fee	\$5.20	\$5.20	0	\$0

June 2010

Solid Waste Services Department

Recycling Revenue Assessment

	Transportation Costs	Processing Costs	Revenue	Total
FY10 CYE	(\$1,133,385)	(\$4,438,394)	\$4,934,406	(\$637,373)
FY11 Proposed	(\$1,197,279)	(\$4,744,545)	\$5,454,238	(\$487,586)

June 2010

Solid Waste Services Department

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Revenues & Requirements

(Millions)

_	(Willions)			
	FY 2010 Estimated	FY 2011 Proposed		
Beginning Balance	\$9.5	\$15.6		
Revenues	\$75.7	\$76.0		
Transfers In	\$0.0	\$0.0		
Available Funds	\$85.2	\$91.6		
Total Program Requirements	(\$48.0)	(\$53.1)		
Other Requirements	(\$21.6)	(\$24.8)		
Total Requirements	(\$69.6)	(\$77.9)		
Ending Balance	\$15.6	\$13.7		
Required 1/12 th	\$4.5	\$5.7		
Over/(Under) Compliance	\$11.1	\$8.0		

June 2010

Solid Waste Services Department

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Proposed FY11 Budget Summary

- ☐ Proposed Operating Budget: \$53.1 million
 - 396 total SWS FTEs
- ☐ Fee Structure Changes:
 - 90 gallon fee increase of \$1.00 (+5.8%)
 - 60 gallon fee decrease of \$0.35 (-3.5%)
- □ Proposed FY11 Ending Balance
 - Proposed: \$13.7 million
 - Must set aside one-twelfth of the operating expenses and other requirements needed to operate for 30 days
 - ➤ Compliance = \$5.7 million

June 2010

Solid Waste Services Department

Seeking SWAC Input

- □ Rate Structure
 - 90 Gallon Cart Fee
 - 60 Gallon Cart Fee
- □ Program Implementation
- Master Plan
- □Zero Waste Initiatives

June 2010

Solid Waste Services Department

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Question & Answer

Solid Waste Services Department

June 2010

Solid Waste Services Department





Contract and Land Management CITY OF AUSTIN

AGENDA DATE: 6/24/2010

RECOMMENDATION FOR COUNCIL ACTION

Title: 062410 PW SWS FM 812 Landfill Closure **Subject:** Authorize execution of change order # 4 to the construction contract with RANGER EXCAVATING, L.P., Austin, TX, for FM 812 Landfill Final Closure and Erosion Control Improvements project in the amount of \$470,000, for a total contract amount not to exceed \$6,197,483.50.

Amount and Source of Funding: Funding in the amount of \$470,000 is available in the Fiscal Year 2009-2010 Capital Budget of the Solid Waste Services Department.

Agenda Category: Contract and Land Management

For More Information: Steve R. Nelson 974-7145; Tony Davee 974-1923; Susan Garnett, 974-7064; April Thedford 974-7141; Beatriz Guereca 974-7285

Prior Council Action: August 27, 2009 – Council approved original construction contract with Ranger Excavating, L.P.

Boards and Commission Action: To be reviewed by the Solid Waste Advisory Commission on June 9, 2010.

The purpose of this project is to achieve final closure of the City of Austin's FM 812 Municipal Solid Waste Landfill. The project includes placement of final cap and cover on four landfill waste cells and associated drainage improvements. The project also includes repair and improvements to an existing gabion erosion control system on Onion Creek along the northern boundary of the FM 812 Landfill. The gabions were initially installed in 1995 and were showing signs of failure.

Unforeseen conditions in the work area have necessitated redesign and substantial changes. It was initially anticipated that three of the four landfill cells would require only re-grading, and the existing in-situ cap would meet Texas Commission on Environmental Quality (TCEQ) requirements. Certification testing during closure has revealed that two landfill cells will require significant repairs. One landfill cell will require full reconstruction of the clay cap. TCEQ required changes to the landfill gas system will also be addressed as part of this additional work.

The erosion control portion of the project has also encountered unforeseen conditions, as competent bedrock occurs much deeper than anticipated in the central portion of the project, requiring redesign and installation of a modified, deeper gabion system.

Additional change orders may be required due to the nature and complexity of the work involved.

This project is located within zip code 78719.

AUTHORIZATION HISTORY

<u>AMOUNT</u>	DATE DESCRIPTION
\$5,404,270.00	8/27/09 (Council) Original construction contract
\$270,213.50	8/27/09 (Council) 5% Contingency
\$53,000.00	8/27/09 (Administrative Authority) – Change orders #1 through #3 are within the
	limits of Administrative Authority and Contingency
\$470,000.00	Proposed (Council) Change Order # 4
\$6,197,483.50	Total Contract Authorization

CONTRACT HISTORY

<u>AMOUNT</u>	DATE DESCRIPTION (CO% / CUMULATIVE CO%)
\$5,404,270.00	8/27/09 Original construction contract
\$-134,099.20	12/16/09 CO #1 – Excavation and fill quantity changes in landfill cells due to updated land survey completed prior to construction (-2.48% /-2.48%)
\$66,542.00	2/2/10 CO #2 - Additional excavation and fill to prevent waste contact with clay liner (1.23% /-1.25%)
\$195,026.30	4/27/10 CO #3 - Additional excavation and fill to fix thin spots in clay liner (3.61% /2.36%)
\$665,000.00	Proposed CO #4 – Repair or replacement of clay caps in two landfill cells, modification of the landfill gas system, and additional gabion structures (12.30%/14.66%)
\$6,196,739.10	Total Contract Expenditures
14.66 %	Cumulative Change Orders

CIP BUDGET FISCAL NOTE

DATE OF COUNCIL CONSIDERATION:

WHERE ON AGENDA:

DEPARTMENT:

6/24/2010 Ordinance Solid Waste Services Department

Authorize execution of change order # 4 to the construction contract with RANGER EXCAVATING, L.P., Austin, TX, for FM 812 Landfill Final Closure and Erosion Control Improvements project in the amount of \$470,000, for a total contract amount not to exceed \$6,197,483.50.

FINANCIAL INFORMATION:

Project Name:

SWS FM 812 CLOSE LANDFILL PROJ

Project Authorization:

Approved CIP Budget

Funding Source:

Fund/Dept/Unit

4800-1507-0707

Total Current Appropriation

\$11,694,184.00

Unobligated Balance

\$3,203,780.58

Amount of this Action

(\$470,000.00)

Remaining Balance

\$2,733,780.58

Financial Approval: Sue Cooper

Date: 06/02/2010

M/WBE Summary

Participation goals stated in the original approved compliance plan were 7.51%MBE and 7.25% WBE. Participation for this change order:

NON M/WBE TOTAL – PRIME	\$150,000.00	22.56%
Ranger Excavating, L.P. Austin, TX	\$150,000.00	22.56%
NON M/WBE TOTAL – SUBCONTRACTORS	\$515,000.00	77.44%
Austin Filter Systems, Inc. Austin, TX (gabions)	\$390,000.00	58.64%
SCS Field Services, Austin, TX (landfill gas system modifi	18.80%	

Overall participation for the entire project, including this change order:

PRIME:

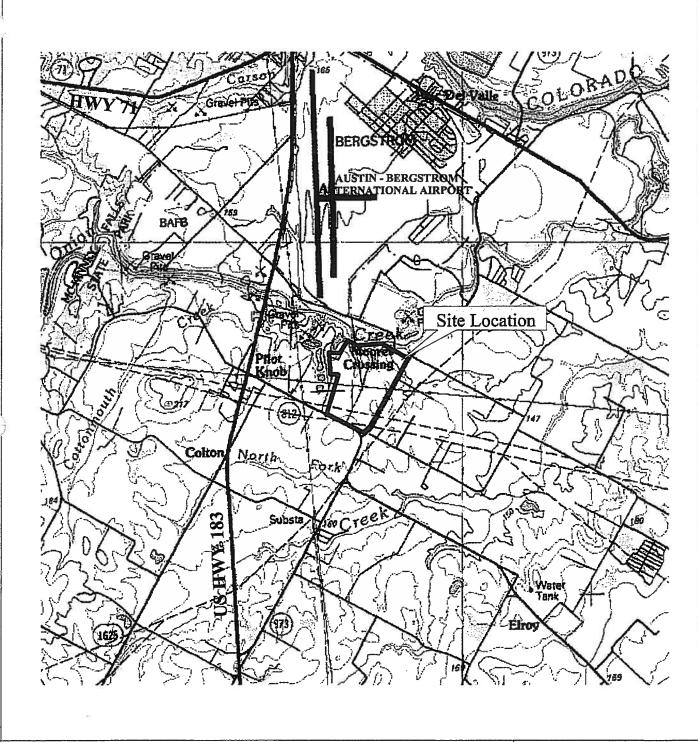
49.67 % Non M/WBE

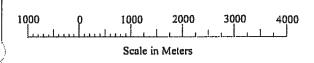
SUBCONTRACTORS:

6.55% MBE; 6.32% WBE; and 37.46% Non M/WBE

TOTAL:

6.55 % MBE; 6.32% WBE; and 87.13% Non M/WBE





Source: USGS 7.50 Minute Topographic Quadrangle Map Montopolis, Texas 1988





FIGURE 1-1

FIGURE 1-1
Site Location Map
FM 812 Landfill
City of Austin
Austin, TX

WO# 06141.011.008

October 2003



To:

Solid Waste Advisory Commission

From:

Bob Gedert, Director, Solid Waste Services Department

Date:

June 9, 2010

Subject:

Director's Report

FY11 Budget Presentation

The proposed budget will be presented at the June SWAC Meeting for your review and comment.

ISWM Master Plan;

HDR consultants and their sub-consultants are in their research phase, gathering information integral to the Master Plan process. Additionally, CAPCOG and the City are partnering on a research project that will supplement the research being performed by HDR and contribute to the CAPCOG Regional Solid Waste Plan. Six temporary researchers have been hired, each with community and regional planning backgrounds, to identify and perform surveys of businesses that play an integral role to managing the waste stream of our community.

A public meeting is scheduled for August 31st to gather additional input from the public. Details will be announced at a later date.

Performance Measures

See attachments for detailed Performance Measures.

Employee Recognition:

The Austin Critics' Table Awards were given out Monday, June 8th The group of arts critics from the American-Statesman, the Austin Chronicle and Might Be Good recognized Allison Orr's **The Trash Project**.

The Trash Project was awarded Most Outstanding Dance Concert. Solid Waste Services employee Don Anderson also won a special citation, entitled "Graced in the Machine Award" for his duet with the crane. The lighting designer, Stephen Pruitt, was awarded best lighting design and the sound designer, William Meadows, was awarded best sound design. Graham Reynolds, composer, won a special award for overall achievement- entitled the "John Bustin Award for Conspicuous Versatility."

We thank Allison Orr, Artistic Director of Forklift Danceworks, for the superb artistic work presented in The Trash Project, which highlights Solid Waste Services employees in a "truck ballet" video. The film will receive a full showing and recognition at the 2011 South-by-Southwest Festival.

To see the entire list of awards visit:

http://www.austin360.com/blogs/content/shared-gen/blogs/austin/seeingthings/entries/2010/06/07/austin critics table 20092010.html#jump

Litter Abatement Division April 2010

Highlights:

- The Litter Abatement Team completed 47 special cleanups for the month of April: 44 KAB cleanups and 3 Code Compliance requests.
- Total revenue for Brush/Bulk Out-of-Cycle Requests is \$ 1,340.00

Performance Measures	Brush	_			Street Cleaning		Control	Dead Animal
	Collection	Bu	lk Collection	on	<u> </u>	اما	lection	Removal
Results:	4-7							
Number of Complaints (SM Codes)	17		62 1		45			
Number of Justifiable Complaints Number of Invalid Complaints	16		61		0 45			
# Other Service Requests (Out of cycle, etc)	18		8					
Number of Dead Animal Requests (DAR) processed	10 10	267- P.St		To all				484
Number of Service Requests								479
Number of other DAR (email, drive by, etc.) % Dead Animals collected w/in 24 hr period								5
Based on actual collected & not found			Carlow Ca					93.0%
Output:		Bulk	Recycle	Tires		Tires	Litter	
Total Tons collected	602	751	0	21		0	30	
Total Tons of Bulk Recycled			21					
Total Tons diverted from Landfill (Brush\Recyled\YT)			623					
Tons of material removed from roadway		Service 1		and si	554			
Illegal Dumpsites deaned	CONTROL DATE					6.6.24	59	
Demand: Tons or dead animals removed from City's right-or-								
								10
way and the animal shelter Number or dead animais removed from City's right-or-								10
way and the animal shelter								891
Revenue:								
Number of Out-of-Cycle Pick-ups	9		2					MAN THE PARTY
Revenue from Out-of-Cycle Pick-ups	\$1,100.00		\$240.00			COLUMB !		
Number of Feral Hog Pick -ups		2017		E-1760				0
Revenue from Feral Hog Pick-ups								\$0.00
Other:								
Participation Rate	14%	22%	0%	0%				
Number of Set-outs	3,715	5,419	4	504				
Special cleanups (CC,Dumpster,Citizen Requests)	0	S. 250	0				47	
Number of Rights-of Way cleaned				U. Carrier			147	
Number Tires collected			MARIO.	1447			0	
Routes Completed	4		4		70			
Residential Sweeper Miles		Carlo Carlo	NAME OF STREET		1,734		774	
Blvd sweeper miles							530	TOP THE PARTY
Downtown sweeper miles							912	

Issues/Opportunities:

- Litter Abatement recognized 9 employee birthdays by mailing cards to each employee.
- Litter Abatement employees attended Litter Abatement's Employee Appreciation BBQ.
- Assistant Division Manager, Mike Lewis traveled to Greensboro, NC for the 2010 NFBPA Conference.
- Bulk Supervisor, Eladio Romero and Street Sweeping Crew Leader, Franklin Farr attended the 2010 TXSWANA Annual Conference in Corpus Christi.

Recycling Monthly Report for April 2010

Account Types (Residential, Commerci	al and City Facilit	ies)
Number of Accounts Serviced		179,564
Total Recycle Monthly Expendit	ures	\$569,298.45
Total Tons Collected		
2008-2009	4396	decrease of
2009-2010	4371	-0.57%
Average Pound Per Account		20.90
Cost Per Ton		\$130.24
Cost Per Account		\$3.17
Average Cost Per Account		\$1.95
Automated		
Number of Accounts Serviced		114,964
Bi-Weekly Average Pounds per	Account	22.31
Average Pound per Hour		1.04
Semi-Automated	则为此为多种人	
Number of Accounts Serviced		69,851
Bi-Weekly Average Pounds per	Account	18.96
Average Pound per Hour		0.47
Employee Issues		
Total Number of Hours Worked	•	6137.25
Overtime Hours Worked		203.75
Downtime Hours		123
Cause - Personnel	60	
Cause - Vehicle	63	
Attendance		
Absentee Percentage Rate	•	19%
Average Scheduled Off per day	3.2	
Average Unscheduled Off per day	4	
Average FMLA/LTD per day	2	
Service Orders		
All		417
Valid		86
Tagged for Improper Set Out		70
Justifiable Complaints per 1000		0.48

Yard Trimmings Monthly Report for April 2010

Account Types (Residential, Commercial and City Facilities)					
Number of Accounts Serviced		178,783			
Total Yard Trimmings Monthly E	xpenditures	\$302,413.93			
Total Tons Collected					
2008-2009	3282	increase of			
2009-2010	4214	22.12%			
Average Pound Per Account		10.89			
Cost Per Ton		\$71.76			
Cost Per Account		\$1.69			
Average Cost Per Account		\$0.99			
Employee Issues					
Total Number of Hours Worked		5576.25			
Overtime Hours Worked		710			
Downtime Hours		66.5			
Cause - Personnel	31				
Cause - Vehicle	35.5				
Attendance					
Absentee Percentage Rate		16%			
Average Scheduled Off per day	1				
Average Unscheduled Off per day	2.6				
Average FMLA/LTD per day	0.9				
Service Orders					
All		206			
Valid		74			
Tagged for Improper Set Out		19			
Justifiable Complaints per 1000		0.41			

Garbage Collection Operations Apr-10

	Residential Households	177,796	
	Commercial Customers	2,189	
	Monthly Expenses	\$6,771,436	
	FYTD Expenses	\$1,265,767	
	Monthly Tonnage	11,543	
	FYTD Tonnage	76,261	
	Commercial Tonnage	279	
	City Facility Tonnage	15	
	Hours Worked - Month	24,668	
Residential			
	Households serviced	177,796	4
	Monthly expenses	\$6,636,007.67	
	Cost per household -ytd monthly average	\$1.00	
	Average pounds per household per week	29.22	
	Cost per ton - ytd	\$16.68	
	2010 tonnage	11,249	1.14%
	2009 tonnage	11,122	
Commercial/City			
	Cost per customer - ytd monthly average	\$1.65	<u>,</u>
38	Cost per ton - ytd	\$13.46	
	Commercial total	279	
	City Facility total	15	
	2010 tonnage	294	9.26%
	2009 tonnage	269	
Tonnage Collected			
Tomage Conected	Residential Garbage	11,249	
	Commercial Garbage	279	
	City Facility	15	
	Totals	11,543	
Operational Issues			
Operational issues	Unstickered trash revenue	\$50,289	
	Automated daily work hours per employee	9.42	
	Semi automated work hours per employee	7.67	
	Tons/hours/employee	0.47	
		V.71	
	Total number of dead routes (personnel)	11	

HOUSEHOLD HAZARDOUS WASTE COLLECTION PROGRAM MONTHLY REPORT April-10

HIGHLIGHTS

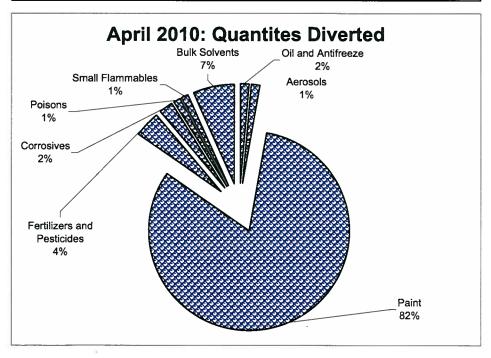
	Apr-10	Mar-10	Apr-09	Revenue Receiv	ed
Number of Households					
(Includes Saturday)	1066	1205	1015	Used Oil	\$476.50
Total Waste Collected (lbs)	72,673.16	91,240.94	101,579.34	Batteries	\$1,087.01
Haz. Waste Disposed (lbs)	59,613.00	69,064.00	79,370.00	Cell Phones	
Waste Recycled (lbs)	13,060.16	22,176.94	22,209.34	Invoiced HHW	\$164.00
Est. Disposal Cost	\$28,136.50	\$29,746.00	\$33,846.21	Scrap Metal	
Saturday Collection					
Number of Households	180	139	107	Total Received	\$1,727.51

PROGRAM STATUS: (FISCAL YEAR TO DATE TOTALS)

TROOMS (TOOKE TEAK TO DATE TO TALO)					
	Fiscal Year 09-10	Fiscal Year 08-09	FY 09-10 vs. 08-09		
	(Year to Date)	(Year to Date)			
Participation	6,738	6,463	4.08%		
Total Waste Collected (lbs)	519,013.74	508,000.02	2.12%		
Waste Recycled (lbs)	118,770.74	126,933.02	-6.87%		
Avg. Waste/Household (lbs)	77.03	78.60	-2.04%		
Disposal Costs/Pound	\$0.36	\$0.33	7.34%		
Disposal Cost/Household	\$27.43	\$25.74	6.17%		

REUSE ACTIVITY (includes dispersal of re-blended latex paint through Paint Program):

	April-10	March-10	TOTAL FY 09-10
Participation	86	64	342
Volume Diverted (lbs)	4,527.16	1,526.94	12,183.22
Cost Avoided	\$888.57	\$503.71	\$3,246.83



DISPOSAL SERVICES DIVISION April 2010

LANDFILL OPERATIONS - Closure activities began on October 15, 2009.

FM 812 RESOURCE RECOVERY CENTER

Materials Accepted		Materials to Public	
Total Tons	31	Total Tons	34
Appliances	4 ton	Recycled Glass Sand	12
Metal	16 ton	Mulch	22
* # of Tires Whole SWS	1467#		
**Weight Tires Recycled	11 ton		

Accounts Receiv	able
Waste Works Total	\$275
Cash Customers	\$263

WASTE WORKS Money Order \$11.38 lost Inter-office mail

Scrap Materials Sold	
Total Tons	23
Scrap Metal-Heavy Melt #2	10
Aluminum	2
Copper	
Scrap Metal Heavy Melt #1	11
April Revenue Received	\$3,181
FY 09-10 Revenue to date	\$22,735

^{*}No revenues received **To Liberty Tire for recycling

DISPOSAL FACILITIES DIVISION MONTHLY REPORT HORNSBY BEND BRUSH PROCESSING FACILITY March-10

Hornsby Bend Brush Processing Facility Brush Cubic Yards Received

- -	Mar-10	Feb-10	Jan-10	Dec-09	Nov-09	Mar 09 Volume
Brush - \$6.50 Mulch (Travis County)	4,470.1	6 1,231.20	1,913.56	2,166.07	1,618.08	2,225.35
Total Cubic Yards Rec'd	4,470.1	6 1,231.20	1,913.56	2,166.07	1,618.08	2,225.35

• Hornsby Bend Brush Processing Facility Revenue by Dept.

	Tons	Mar-10	Feb-10	Jan-10	 Dec-09	Nov-09	 Mar 09 Revenue
Public Works	10	\$ 65.00	\$ -	\$ 78.00	\$ 78.00	\$ 78.00	\$ 117.00
Aviation	239	\$ 1,553.50	\$ 650.00	\$ 1,670.50	\$ 2,138.50	\$ 442.00	\$ 1,267.50
Water/Wastewater	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Shed	140	\$ 910.00	\$ 1,683.50	\$ 305.50	\$ 877.50	\$ 2,554.50	\$ 559.00
Parks & Recreation *	0	\$ -	\$ -	\$ -	\$ -	\$ 19.50	\$ 266.50
Total Revenue		\$ 2,528.50	\$ 2,333.50	\$ 2,054.00	\$ 3,094.00	\$ 3,094.00	\$ 2,210.00
Total Tons	389						

^{*} Effective 2/1/10 PARD charges are credited by Finance.

Approved:	Date:

Single Stream Material Recovery Facility (SSMRF)

Presentation to Solid Waste Advisory Committee June 9, 2010

Bob Gedert Director, Solid Waste Services City of Austin

SSMRF Recommendation

- 8 proposals received
 - 6 Public/Private
 - 1 Private only
 - 1 Public only
- Reviewed by 12member team
- Evaluation Criteria
- □ Top 3 proposals presented to Council 5/13
- Requesting award & negotiation 6/10

Evaluation Criteria

- Community Values
- Total Evaluated Cost
- Demonstrated Experience
- Implementation Schedule
- Operations, Equipment & Facility
- Financial Capability & Capacity
- Team Interviews & Council

SSMRF Recommendation

Allied Proposal - Community Values

- □ Silver LEED Building
- □ Solar, Water Conservation, Street View
- Onsite Sustainability & Education Center
- Full-Time Sustainability Coordinator
- □ K-12 Education Curriculum Program

- Annual GHG Reduction Goals
- □ Litter Pickup Programs
- □ Adopt-A-Street Program
- North Austin Civic Assn.Partnership

3

SSMRF Recommendation Allied Proposal – Total Evaluated Cost

□ \$60/Ton Processing Fee

- 80% Market Value Rebate
- No City Investment in Construction
- Allied responsible for all Equipment & Facility Operations for Term of Agreement
- City Ownership of Facility at end of Contract
- Monthly Value Assessment = \$154K for March 2010 Market Value
- Net Present Value
 Assessment = \$10.5M Net
 Revenue for Transition
 Year plus first 10 Years of
 Operations

4

SSMRF Recommendation

Balcones Proposal - Community Values

- Silver LEED Building
- Water Conservation, **Street View**
- □ Onsite Education Center
- MBE/WBE Commitment
- Annual GHG Reduction Goals
- Living Wage & Health **Insurance**
- □ Local Ownership
- □ 11th Street **Revitalization Efforts**

SSMRF Recommendation

Balcones Proposal - Total Evaluated Cost

- □ 94% Market Value Rebate
- No City Investment in Construction
- Balcones responsible for all Equipment & Facility Operations for Term of **Agreement**
- □ \$118/Ton Processing Fee □ Balcones Ownership of Facility at end of Contract
 - Monthly Value Assessment = \$31K for March 2010 Market Value
 - Net Present Value Assessment = -\$13.4M**Net Revenue for Transition Year plus first** 10 Years of Operations

SSMRF Recommendation Timetables – Short- and Long-Term

Long-Term

6/10/10 - Council approval to negotiate

7/29/10 - Request Council approval for execution

10/1/10 - Includes transition to period for short-term

9/30/11 agreement or continuation of Greenstar contract

10/2011 - Full operation of SSMRF

Short-Term

6/10/10 - Council direction on alternatives

6/24/10 - Council approval of RFP

6/25/10 - Release of RFP

7/09/10 - Bids due to City

7/29/10 - Council approval to negotiate

8/26/10 - Council approval to execute

8/31/10 - Notification to current vendor

7

SSMRF Recommendation

Council Questions?

Legal Issues – Cary Grace

Purchasing Process - Byron Johnson

SSMRF Review Team - David Smythe-McCaulay

Staff Recommendation - Howard Lazarus/Bob Gedert



TO:

Mayor and Council Members

FROM:

Robert Gedert, Director, Solid Waste Services Department

CC:

Marc Ott, City Manager

Robert Goode, Assistant City Manager

Howard Lazarus, Acting Assistant City Manager

DATE:

June 4, 2010

SUBJECT:

Recommendation for SSMRF Construction and Operation

Purpose

This memorandum is provided in response to Council's request for information regarding the Single Stream Material Recovery Facility (SSMRF) recommendation and the selection process.

Action Requested

The recommendation from the SSMRF Review Team is to request approval from the City Council to negotiate with Allied Waste Services of Austin to finance, build, and operate an SSMRF. We anticipate it will take approximately sixty (60) days to complete negotiations and return to Council with a request to execute an agreement. Attachment A details the evaluation criteria and points that led to the staff recommendation. Attachment B provides a summary of the top three bidders. Attachment C provides a Net Present Value (NPV) comparison of the three offers under consideration.

Background

On November 16, 2009, the City of Austin Purchasing Office (on behalf of the Solid Waste Services Department (SWS)) advertised a Request for Proposal (RFP) seeking entities qualified and experienced in recyclable materials processing and marketing services to accomplish the following: receiving, sorting, processing, storing, marketing, selling, and transporting of recyclable material collected from the City's curbside and office recycling programs. The RFP also included a data sharing requirement to collect, analyze and disseminate information regarding the processing and marketing of recyclable material. The RFP specifically excluded collection services which are provided by SWS.

Respondents to the RFP were grouped into two service solution types: (1) Partnership (Public/Private) Service Solution and/or (2) Private Service Solution. Respondents were allowed to submit multiple, alternate responses to each Service Solution type. The City of Austin

encouraged respondents to introduce dynamic, creative recycling solutions that would contribute towards the City's Climate Protection Plan and Zero Waste Initiative.

A cross functional team of twelve (12) members was put together to evaluate areas of the RFP in order to determine points and ranking. The City of Austin considered all eligible and responsive proposals. Each proposal was requested to demonstrate how it provided the best value to the City, achieved the City's long-term goals, and demonstrated a progressive vision for the City of Austin and the community.

This request allows for the development of a service agreement with the recommended firm. Should the City be unsuccessful in negotiating a satisfactory agreement with the recommended firm, negotiations will cease with that firm. Staff will then return to Council and request authorization to begin negotiations with the next best proposal.

Evaluation Criteria and Key Responses from Top Three Selected Proposals

Community Values - 25 Points

This criterion evaluated Proposers' competency for socially responsible corporate governance and sustainability programs in the communities they service. Proposers were strongly encouraged to comply with or exceed these requirements. Two major components were evaluated: Social Responsibility and Sustainability Program.

<u>Social Responsibility:</u> Proposers were asked to demonstrate all management policies and procedures related to the proposed services including, living wages, equal employment opportunities, employee and public safety, creation of local markets for recyclable material, good neighbor policies, compliance with City Code Chapters 2-9A and 2-9B, as amended, the Minority-owned and Women-owned Business Enterprise (MBE/WBE) Procurement Program, and a commitment to improving the quality of life in the Austin metropolitan area.

<u>Sustainability Program:</u> Proposers were requested to demonstrate their Sustainability Plans regarding all environmental management policies and procedures related to the proposed services including the use of alternative fuel vehicles, use of recycled products, especially products with post-consumer recycled content, throughout its operations, internal waste reduction and reuse protocol, water and resource conservation activities within facilities (design, construction and operation), complying or exceeding local development codes, protection of waterways, future expansion capabilities for handling non-traditional materials such as organics and construction demolition debris, and use of non-toxic products when possible.

Top Three Selected Proposals:

Allied Waste Services of Austin = 21.50 points

Key Responses: Silver LEED Building with solar, water conservation, onsite sustainability/education center, full-time sustainability coordinator, K-12 education

curriculum program, GHG reduction goals, North Austin Civic Assn Partnership, Litter pickup programs, adopt a street program, parks improvement fund donations.

Waste Management Recycle America = 19.50 points

Key Responses: Silver/Gold LEED Building with solar, water conservation, MBE/WBE demonstrated commitment, GHG reduction goals, education center on-site.

Balcones Resources = 19.25 points

Key Responses: Silver LEED Building, water conservation, energy conservation, 11th Street revitalization efforts, MBE/WBE demonstrated commitment.

As a point of reference, the review team could not explore externalities that were not identified within the RFP request.

Total Evaluated Cost - 15 Points

The cost evaluation is intended to provide an equitable basis for cost comparison between proposals and an evaluation of the effect of those costs on customer rates. All cost information used in this evaluation was restricted to responses as stated in the proposal. The proposals were reviewed to verify that the proposed costs are consistent with the activities described in the proposal and the Offerors' Work Plans.

A Net Present Value (NPV) analysis was incorporated into the financial evaluation. NPV represents the value of the project in current (2010) dollars. A positive NPV indicates the offer will provide a net income to the City, whereas a negative NPV indicates a net cost to the City. Values of future year cash flows were discounted at 3% per year, reflecting the impact of inflation on revenues and costs.

Top Three Selected Proposals:

Allied Waste Services of Austin = 14.67 points

Key Responses: \$60/ton with 80% market share (based on March market values, City would have received \$154,000 for March recycling tonnage). Net Present Value = \$10,524,368 (transition year plus first ten years of operations).

Waste Management Recycle America = 7.33 points

Key Responses: \$65.52/ton (Option 1) or \$98.90 (Option 2) with 80% market share (based on March market values, City would have received \$154,000 for March recycling tonnage). Net Present Value = -\$18,952,811 (Option 1) or -\$24,903,573 (Option 2) (transition year plus first ten years of operations).

Balcones Resources = 7.33 points

Key Responses: \$118/ton with 94% market share (based on March market values, City would have paid out to Balcones \$31,300 for March recycling tonnage). Net Present Value = negative (-)\$13,400,907 (transition year plus first ten years of operations).

As a point of reference, the City received \$24,000 from Green Star in March 2010.

Demonstrated Applicable Experience and Personnel Qualifications – 15 Points

The experience of each Offeror was evaluated to determine the relative ability of each Proposer to implement the service requirements described in this RFP and to attain the City objectives for Single Stream Recycling. Experience evaluation factors and areas of experience were considered, including: qualifications, previous experience, demonstrated expertise, and reference history.

Top Three Selected Proposals:

Allied Waste Services of Austin = 14.50 points

Key Responses: Demonstrated high level of qualifications, experience and references.

Waste Management Recycle America = 13.25 points

Key Responses: Demonstrated high level of qualifications, experience and references.

Balcones Resources = 10.75 points

Key Responses: Demonstrated moderate level of qualifications, experience and references.

Implementation Schedule - 15 Points

The implementation schedule component is intended to ensure the Offerors' understanding of the critical milestones and how the services will be delivered. The proposals were reviewed to verify that the proposed schedule is consistent with the implementation activities described in the proposal and the Proposer's work plans. Review of the Offerors' detailed schedule data were used to confirm the transition plan and the ability to meet implementation schedule estimates as represented in the proposal.

Top Three Selected Proposals:

Allied Waste Services of Austin = 11.50 points

Key Responses: Realistic construction timetable, scheduled completion date of fall 2011, transition plan at \$25/ton fee with various negotiable elements including long haul or local processing.

Waste Management Recycle America = 12.25 points

Key Responses: Realistic construction timetable, scheduled completion date of spring 2012, transition plan with various negotiable elements including long haul or local processing.

Balcones Resources = 12.75 points

Key Responses: Realistic construction timetable, scheduled completion date of fall 2011, transition plan with various negotiable elements including long haul or local processing.

As a point of reference, all transition proposals are negotiable.

Operations, Equipment and Facility - 20 Points

The purpose of the operations, equipment and facility evaluation factor was to verify that the Offeror can meet the proposed performance specifications and criteria on a long-term basis.

Operations evaluation factors included: experience of the MRF operator, Review of the Offerors' past performance of similar services, staffing plans for the proposed facility, and previous labor relations history. Equipment evaluation factors included: design and technical support data, schematic system design and integration, demonstrated technical feasibility of equipment, processing data collection, analysis and reporting. Facility evaluation factors included: capacity of proposed facility, expansion ability, accessibility of proposed facility's location, adequate entrances, exits and unloading area (height and width) to ensure timely and efficient unloading of City deliveries, maintenance plan for facility and equipment, and hours of operation.

Top Three Selected Proposals:

Allied Waste Services of Austin = 11.00 points

Key Responses: No OSHA violations on record, past experience strong, operates 78 recycling facilities, demonstrated equipment design and operational knowledge, 240 tons/day capacity, 60 dedicated employees, 100,000 sq. ft. facility, to be located at City FM 812 Landfill site.

Waste Management Recycle America = 10.67 points

Key Responses: No OSHA violations on record, past experience strong, operates numerous facilities, demonstrated equipment design and operational knowledge, 210 tons/day capacity, 29 dedicated employees, 123,000 sq. ft. facility, to be located at City FM 812 Landfill site.

Balcones Resources = 11.00 points

Key Responses: No OSHA violations on record, past experience strong, operates numerous facilities, demonstrated equipment design and operational knowledge, 262 tons/day capacity, 35 dedicated employees, 122,000 sq. ft. facility, to be located at Balcones-owned site in North Austin.

As point of reference, the City will need expanded capacity beyond 250 tons/day by 2015.

Financial Capability and Capacity - 15 Points

In order to demonstrate access to equity capital and financing resources to carry out the proposed project, each proposal was required to provide detailed financial information about the company and its parent relationships. The City recognizes that under certain circumstances, this information could be construed as proprietary and sensitive. Therefore, the City will treat this portion of the submission as proprietary, to the extent that it is not already public and to the extent allowed by law.

Top Three Selected Proposals:

Allied Waste Services of Austin = 11.67 points

Key Responses: Demonstrated very strong financial reserves and capital capacity through parent company.

Waste Management Recycle America = 12.67 points

Key Responses: Demonstrated very strong financial reserves and capital capacity through parent company.

Balcones Resources = 6.00 points

Key Responses: Demonstrated limited financial reserves and capital capacity through parent company. Concern expressed about capacity to survive long-term market depression.

In-Person Team Interviews - 20 points

The Review Team selected the top five proposals for in-person interviews, based on total points of the scoring matrix noted above. The interviews were scheduled for 90 minutes each, and the same lists of questions were asked of each company. The responses were scored based on detail, knowledge and responsiveness. A follow-up list of clarification questions were sent to each respondent to ensure proper evaluation and clarify any issues not fully addressed.

<u>Top Three Selected Proposals:</u>

Allied Waste Services of Austin = 17.53 points

Key Responses: Addressed key points, demonstrated staff experience, noted green features, interacted well as team, and clarified answers well with clear pricing options.

Waste Management Recycle America = 15.16 points

Key Responses: Addressed key points, demonstrated staff experience, noted green features, interacted well as team, and clarified answers well with clear pricing options.

Balcones Resources = 14.07 points

Key Responses: Addressed key points, demonstrated staff experience, noted green features, interacted well as team, and clarified answers well with rigid pricing option.

Council Presentations - 8 Points

The Council was presented with the top two proposals from the Public/Private Partnership Category and the top proposal from the Private Service Category. These three companies were invited to present to City Council a PowerPoint restricted to twenty minutes that addressed key components such as community values, environmental stewardship, financials, and details of

the operations proposed. The Review Team scored the presentations based on detail, consistency to RFP submittal, and demonstrated knowledge of the proposed project.

Top Three Selected Proposals:

Allied Waste Services of Austin = 7.00 points

Key Responses: Presentation included all elements requested.

Waste Management Recycle America = 3.27 points

Key Responses: Presentation lacked some elements requested.

Balcones Resources = 7.25 points

Key Responses: Proposal included all elements requested.

As a point of reference, transition plans presented included long-haul options. The City intends to negotiate with the selected company to explore local options to reduce its carbon footprint.

Next Steps

After Council authorization is granted, a negotiation team will be selected to develop a final agreement. Key terms anticipated to be negotiated include: Transition Plan (including reduced carbon footprint), processing fees, market share revenues, MBE/WBE requirements, site conditions, land offer from City, conditions for termination, audit procedures, and other conditions. The staff anticipates returning to Council in August 2010 with a request to execute the negotiated agreement.

Attachments (3)

ATTACHMENT A

PURCHASING RDR0005 RECYCLING SERVICES FINAL EVALUATION MATRIX

	Item 1	Item 2	Item 3	Item 4	Item 5	ttem 6		Item 7		Item 8	
Points:	[25]	[15]	[15]	[15]	[15]	[15]	[100]	[20]	[120]	[8]	[128]
Firm (or Joint Venture)	Community Values	Community Total Evaluated Values Cost	Demonstrated Applicable Experience and Personnel Qualifications	Implementation Schedule	Operations, Equipment and Facilities	Financial Capability and Capacity	SUB TOTAL	Interviews	SUB TOTAL	Council	TOTAL
Evaluators:	TEAM 2	TEAM 1	TEAM 3	TEAM 4	TEAM 3	TEAM 1		ALL TEAMS		ALL TEAMS	
PARTNERSHIP (Public/Private) SERVICE SOLUTION	WICE SOLUT	NOI									
Allied Waste Services of Austin	21.50	14.67	14.50	11.50	11.00	11.67	84.83	17.53	102.36	7.00	109.36
WM Recycle America, LLC	19.50	7.33	13.25	12.25	10.67	12.67	75.67	15.16	90.83	3.27	94.10
FCRLLC	17.50	3.83	13.50	14.75	11.33	8.67	69.58	15.36	84.94		84.94
Hudson Baylor Corp.	10.50	12.00	12.50	8.75	11.67	10.00	65.42	13.16	78.58		78.58
Greenstar Mid-America, LLC	10.50	7.33	12.00	8.75	8.67	8.33	55.58		55.58		55.58
PRIVATE SERVICE SOLUTION											
Balcones Resources Inc.	19.25	7.33	10.75	12.75	11.00	6.00	67.08	14.07	81.15	7.25	88.40
IESI Texas Corp.	12.50	6.33	10.25	6.75	7.67	10.00	53.50	,	53.50		53.50

ATTACHMENT B

EVALUATION PANEL QUESTIONS - April/May 2010	ALLIED WASTE SERVICES	BALCONES RECYCLING	WASTE MANAGEMENT RECYCLE AMERICA	CITY STAFF NOTES
Fee and Advente One; Restate your tipping fee charge in \$ per incoming scaled weight (\$/ton)	\$60.00 / ton of incoming city delivered tonnage	\$118 / ton of incoming city delivered tonnage	in Option One (1) - City supplies all capital the tipping fee charge would be \$65.32. in Option Two (2) - City supplies building capital and WM supplies and owns equipment capital the tipping fee charge would be \$98.90.	Negotiable - City desires low tipping fees
Restate your market share revenue %, in terms of % market value.	80% to the city, 20% to the company	94% to the city, 6% to the company	in Option One (1) - City supplies all capital the market share revenue % would be 80% to the City and 20% to WMRA. in Option I'wo (2) - City supplies building capital and WM supplies and owns equipment capital the market share revenue % would be the same as option one (1),80% to the City and 20% to WMRA.	
Explain the source of market value for revenue share offer.	actual sales price or published price, whichever is greater actual sales price		The source of market value for revenue share offer will be based off the actual value per for IOB 8 the plant in the previous month. Because of WMRA's industry leading recyclables processor and marketer, we consistently receive above market pricing on most commodities. With an actual price per ton share, the City will realize the cost benefit of WMRA's industry leader position.	Negotiable - City desires the least amount of "self-reporting" and the most verifiable sources of info - perhaps set to published market indices.
Explain the method of cakulation for revenue share offer.	Actual sales price or published market index, whichever is greater	Sales price x 94% for the city	Prior Month Actual Average Value by Individual material lattures % of each material. A base material stream analysis will be completed initially to determine the City's inbound Single Stream composition. Percentages will be assigned to each commodity At the end of each month the sales price for each commodity will be assigned that percentage to caiculate the blended value of the City's material. The City will receive 80% of that blended value. Periodic material stream analyses gat least 2x per year) will be completed to account for changes in the material stream. The City and WMRA will and/or participate in all material stream analyses.	
City Revenues or (losses) for March 2010 tonnage and market pricing. (City Staff Estimation)	\$154,000		(\$31,300.00) (Option one: +\$103,000, Option two: (\$132,000)	CoA Revenues from Greenstar in March 2010 (Net Revenues minus expenses) = +\$24,000
10 year Net Present Value (includes City direct cost in calculation)	\$2,643,544		(53,172,253.00) Option one: (\$3,824,525.00) Option two: (\$5,248,319.00)	CoA desires a positive Net Present Value over ten years
Transition Plan				
e.	AWS proposes to use the Todd Lane Transfer Station as the receiving facility for the transition period. AWS will supply the necessary trucks, drivers, supervision, fuel to transport the City's recyclable's to a processing facility during the transition period.	Balcones proposes to redeploy the City's Todd Lane Recycling Processing Plant to process curbside collected recyclables during the period between the expiration of the City's contract with Greenstar and the opening of the new Balcones/City of Austin Material Recovery Fadility.	WMRA respectfully has offered immediate defined processing expactly for transfer and processing of Single processing expactly for transfer and processing of Single bream as of the RPP submission, up to and through the transition period required for worst case construction, and start up of the new fadility proposed. WMRA understood before that Todd Lane was an option the City wanted vendors to consider and our proposal reflects its use for staging and loading Single Stream material in trailers provided by WMRA.	CoA requires continuation of single stream processing from Oct 1st 2010 through occupancy of new facility. CoA offers continues use of Todd Lane Facility - with no improvements at City expense.

EVALUATION DANE! DIJECTIONS - AMIL/May 2010	ALLIED WASTE SERVICES	BALCONES RECYCLING	WASTE MANAGEMENT RECYCLE AMERICA	CITY STAFF NOTES
		uipment ily E-stream	wm has two Single Stream facilities which will be able to accept Austin program material, with the primary facility being Arlington, Texas. Both wher reserved primary capacity for Austin City material. Houston will be starting up in Jan 2010 and material could go there as a back up. Presently, no other Single Stream options are available in Austim and, due to the bonding capacity required for this project in the RFP, WMRA could not propose any other alternative, which we could not guarantee would be operable by the required Sept date. Finally, GHG savings between the existing City contractor and Arlington are negligible. If a closer option is the City's preference, WMRA is flexible in that regard.	
	CITY COST, REVENUE SHARE, TRANSPORTATION			
Provide operational costs to city for transition period.	Fixed \$25/fon Fee for transportation, separation, delivery, and marketing for up to 100% of City's total recycling volume during the transition period.		568.63.Ton Tip Fee 90% Fiber 75% Commingled Containers. 1 The City will pay a fixed rate of \$22.25 T for transport. 2	
	As an alternative, AWS would agree to either an actual cost pass through or negotiate an alternative fixed fee with rebate of actual sales price of marketed recycled with:		urrent April market conditions, the City today would an estimated rebate over "\$18 per ton for its lafter costs, based on historical composition.	CoA Revenues from Greenstar in March 2010 (Net Revenues minus expenses) = +\$24,000 (approx \$5.00 per ton net revenues over expenses)
	AWS would make its accounting records for these activities available to the City for verification.	\$100,000.00 in Motor Control coordination and electrical loommissioning	NOTES:	
		ditional baler	 In order for the City to make valid comparisons, WMRA used the current City contract as a model for this proposal since there was not a defined pricing page. WMRA is open to other options the City may want to pursue. 	
		Baicones will make the approximate \$1.7M capital investment. The City will receive 94% of the actual sales prices of the commodities and reimburse Baicones for all operating expenses plus 10%. Balcones will share all financial and operational data with the City throughout the process.	2.) If the City requires WMRA to load the trailers, add \$2.50 per to the cost.	
		Upon completion of the transition period and the opening of the new Balcones/ City of Austin MRF. Balcones will remove the equipment added to the Todd Lane system and return plant to original condition, as required.		
Operational Standards input dally tonnage limit (tpd)	240.0 tons per shift	262.5 tons per shift	210.0 tons per shift	Current CoA recycling flow requires 200 tons per day processing facility. 250 tons/day will be require in 2012, and 300 ton/day required in 2015.
Daily Staff number - Operations Floor (Including sort line)	55 processing employees	27 processing employees	24 processing employees	
Overall Staff count (admin/operations/etc)	60 total dedicated employees	35 total dedicated employees	29 total dedicated employees	50 - 100 staff is typical for this type operation

EVALUATION PANEL QUESTIONS - April/May 2010	ALLIED WASTE SERVICES	BALCONES RECYCLING	WASTE MANAGEMENT RECYCLE AMERICA	CITY STAFF NOTES
Anticipated residuals caused by contaminants from residents (% of incoming tonnage)	7%			7% 7 - 12 % is typical from single stream
Anticipated residuals other than residential contaminants (% of incoming tonnage)	less than 5%	4%		2.50% 5 - 8 % is typical with current processing technology
Daily operating hours for the facility (including baling, clean-up & 16 hours/day light PM)	16 hours/day	10 hours/day	12 hours/day	
Number of shifts anticipated to process current volume	2	1		
				v
Facility Specs				
Overall under-roof area (sq ft)	100,000 sq ft	122,595 sq ft		100,000 min required - 150,000 desirable
Total footprint area (building/parking/land) (sqft)	39.6 acres	461,388 sq ft	1,725,684 sq ft	
Operational under-roof area - including material storage and staging areas (sq ft)	97,500 sq ft	99,415 sq ft	112,700 sq ft	
Overall Building/Developments Costs (\$ up to occupancy - no maint/operations)	\$13,106,900	\$14,174,941	\$17,992,288	
Overall Equipment Costs (\$ up to occupancy - no maint/operations) LEED Silver	\$6,765,000	\$10,219,319	\$13,389,000	
Do you propose public financing option?	No	Travis County industrial Development Bonds	WMRA proposes both public and public/private financing options. Option One (1) on page 215 of our proposal, proposes that the City complex all huilding and actionment	
			capital. Option Two (2) for our proposal, also on page 215, proposes a public/private partnership option where the City supplies the building capital and WMRA supplies the equipment capital. The breakdown of those costs are reflected in the previous questions.	s .
If yes, please explain city role.	Corporate Resources	No city guarantees or expense		
Do you propose to utilize public land option?	Yes, AWS proposes to build the Austin MRF on the City's FM 812 Landfill closed site at 10108 FM 812, Austin, TX 78719.	No	Yes, WMRA proposes to build the Austin MRF on the City's FM 812 Landfill closed site at 10108 FM 812, Austin, TX 78719.	CoA FM B12 Landfill site was offered in RFP as a possible site location.

EVALUATION DANEL CHECTIONS - Andi/May 2010	ALLIED WASTE SERVICES	BALCONES RECYCLING	WASTE MANAGEMENT RECYCLE AMERICA	CITY STAFF NOTES
Becurine Market Onestions				
please itemize all paper grades you propose to accept in year 1 of MRF operations.	AWS will accept newspaper and advertising We can recycle all paper gr supplements; Mixed Paper: magazines, Junk mail, Scrap Recycling Industries, paperboard, telephone directories, office paper, association. Please see att corrugated boxes and containers, and aseptic containers descriptions of the grades.	ades defined by the institute of an international trade ached exhibit (1) for	WMRA proposes to accept the following paper grades in year 1 of MRF operations. ALL FIBERS INCLUDING: Old accept the MRS operations. ALL FIBERS INCLUDING: Old advertising supplements; Mixed Paper: magazines, Junk mail, paperboard, telephone directories, anything that tears; Sorted Office Paper (SOP): high grade paper from offices such as computer paper, sorted white ledger, copier paper and office stationary; Old Corrugated Containers (OCC): Kraft cardboard boxes and Aseptic Containers.	
Please note paper grades accepted, but <u>not able</u> to recycle in today's markets.	AWS has markets for all the materials accepted in the proposal	None	WM has markets for all the materials accepted in the proposal (page 90). Markets change over time. WM would notify the City on a regular basis (formalized and stipulated in a final operating agreement) plastic items that do become recyclable and items that no longer have positive value or have negative value and reduce Austin's proposed revenue share.	
Please itemize all plastic grades you propose to accept in year 1 All rigid plastic containers #1.7 up to two gallons in size. of MRF operations.	All rigid plastic containers #1-7 up to two gallons in size.	containers of NHDPE, CHDPE, PETE, PVC#3, LDPE#4, PP#5, WMRA proposes to accept the following plastic grades in year 1 of MRF operations. All Plastic Containers #1-7, including PET, HDPE, PVC, LDPE, PP and PS; Plastic Bags in bags and Household Rigid Plastics.	WMRA proposes to accept the following plastic grades in year 1 of MRC operations. All Plastic Containers #1-7, including PET, HDPE, PVC, LDPE, PP and PS; Plastic Bags in bags and Household Rigid Plastics.	
Please note plastic grades accepted, bu <u>t not able</u> to recycle in today's markets.	We will not accept containers that contained hazardous materials such as pesticides or reactive chemicals.	None	WM has markets for all the materials accepted in the proposal (page 90). Markets change over time. WM would notify the City on a regular basis (formalized and stipulated in final operating agreement) plastic items that do become recyclable and items that no longer have positive value or have negative value and reduce Austin's proposed revenue share.	
Please itemize alimetal grades you propose to accept in year 1 of MRF operations.	All aiuminum, steet, bi-metal, and tin metal containers up to two gailons in size and clean foll pans and sheets.	UBC, Tin, Steel, B-metai	WMRA proposes to accept the following metal grades in year 1 of MRF operations. Ferrous Metals (Tin.) Steel and Bi-Metal Containers); food and beverage, non-food and serosol cans made of mixed metal such as tin and steel; Used Beverage Cans (UBC); household beverage cans made of aluminum; Statal Household Appliances: list of acceptable small appliances is to be determined and mutually agreed upon by both the City and WMRA. WMRA is flexible to other grades of metals which will not harm the equipment and/or are not hazardous in nature.	
Please note metal grades accepted, but <u>not able</u> to recycle in today's markets.	We will not accept containers that contained hazardous materials such as pesticides or reactive chemicals.	None	WM has markets for all the materials accepted in the proposal (page 90). Markets change over time. WM would notify the City on a regular basis (formalized and stjudiated in a finatoperating agreement) plastic items that do become recyclable and items that no longer have positive value or have negative value and reduce Austin's proposed revenue share.	

EVALUATION PANEL QUESTIONS - April/May 2010	ALLIED WASTE SERVICES	BALCONES RECYCLING	WASTE MANAGEMENT RECYCLE AMERICA	CITY STAFF NOTES
	All non-recycled materials will be disposed of in AWS Sunset Farms Landfill until that facility closes in November 2015. After that facility closes, residuals will be disposed of in another authorized solid waste disposal facility.	Local landfills	WMRA proposed Austin Community Landfill. WM of Texas also has a back up facility in Williamson County in the unlikely event of disruption.	
if multiple locations/uses, please explain.		NA .	N/A	
Do you propose Pyrolysis, Waste to Energy (WTE) or Refuse Derived Fire! (RDE) component?	ON	Yes, see narrative below	ON	CoA Zero Waste Plan requires highest and best use of material.
if yes, note material type, quantity per year, and why WTE.		All residuals except glass could become engineered fuel.		
Note: City of Austin prefers Highest and Best Use of collected recyclables.		We estimate that 34,265 tons could be reclaimed.	WMRA also prefers highest and best use of collected recydables.	
		Phase 1 - Non-recyclable residuals would be combined with similar material that Balcones handles (including biomass). The combined recipe would be converted to		CoA desires to avoid Waste to Energy options in favor of advanced material recovery.
		an engineered product (similar to the fuel that Balcones has been producing for B years and is still producing in Little Rock, AR). The engineered fuel would then		
		be shipped to several local coal-fired operations to be used as a cleaner coal replacement.		
		Phase 2 - For the past five years Balcones and it's subsidiary, Balcones Fuel Technology have been investigating a number of pyrolysis platforms. We expect		
		several of these technologies to be commercialized in the next 1 to 2 years. Upon successful commercialization of one or more of these processes, Balcones		
		pians to install and operate one or more local, distributed generation co-gen operations. The system would be designed to produce a combination of syn-gas,		
		bio-char and pyrolysis oil.		
	Var	٨	Yes	Designated Safety Officer on site will be
Do you have a designated balety Representative:	9			required by contract.
			MAN DOWN A PROPERTY OF THE PRO	All OSHA requisitions are projectived - CoA will
OSHA citations: Provide a list of any pending or past OSHA No OSHA Citations or Notices or Violations issued its proposer, its principals and associates within the safety related issues within the past five years; past 5 years in the state of Texas.	No OSHA Citations or Notices of Violations issued for safety related issues within the past five years.	No pending or past UPDA crations in our company's history. In fact, Baicones has been recognized by OSHA as an exemplary operation and has been awarded the Safety & Health Achievement Recognition Program for 2009 2011.		inspect facility and safety records monthly.

ATTACHMENT C

Finalists for Austin Material Recovery Facility Cost Summary

Color of States of Color (3) Total Cost (3) Status (3) </th <th> Processing Cost Cay DiS Cost 3 Total Cost Principles Principles Processing Cost Cay DiS Cost 3 Total Cost Principles Princip</th> <th> Processing Cost Chy Dis Cost C</th> <th>Allied Waste</th> <th>ite</th> <th>O-constitution Face</th> <th></th> <th></th> <th></th> <th>Weinhted Avo</th> <th></th> <th></th> <th>2</th> <th>Net Revenue to</th>	Processing Cost Cay DiS Cost 3 Total Cost Principles Principles Processing Cost Cay DiS Cost 3 Total Cost Principles Princip	Processing Cost Chy Dis Cost C	Allied Waste	ite	O-constitution Face				Weinhted Avo			2	Net Revenue to
12.000 10.000 1	12.000 10.000 1	10.00000000000000000000000000000000000	Material (tons) (1)		(periton) (2)	Processing Cost	City D/S Cost (3)	Total Cost	Price (per ton) (2)	Total Revenue	% Share to City		City
102.00 3778.300 0.00000 0.0000 0.00000 0.00000 0.00000 0.0000 0.00000 0.0000 0.00000 0.00000 0	12.00 3.790,090	200 3.778 300 3.789 3.78 300 3.78 3	55,000	Acres 1	\$25:00		0\$	\$1,375,000	\$100.00		%00°0	_	Γ
1,20, 3,570,389 0, 3,570,389 108,12 0,000; 3,500,489 0,000;	Color Colo	10 10 10 10 10 10 10 10	56,650	SHAPE S	00'09			3,399,000	102.00	5,778,300	80'00%	4,622,640	1,223,640
2.2 3.751,681 0 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 10 3.751,681 3.00,058 3.5	2.27 3.751,681 0 3.751,681 10 2.771,681 0.0.00% 5.102,287 5.502,483 6.502,483 6.502,483 6.502,483 6.502,483 6.502,483	100 100	58,350	-	61.20		0	3,570,989	104.04	6,070,682	80,00%	4,856,546	1,285,556
100 100	3.941.517	3.941.517 0 3.941.517 110.624 5.70.0.578 80.00% 5.350.463 5.350.46	60,100	1111	62.42		0	3,751,681	106.12	6,377,858	80.00%	5,102,287	1,350,605
1,12,12 1,12	1,550 1,500 1,40,1057 1,104 1,70,0052 1,505,003 1,50	1,500 1,50	61,903		63.67		0	3,941,517	108.24	6,700,578	80.00%	5,360,463	1,418,946
17.20 17.7	1,12,12	14.87 1.770 1.81 1.82 1.72 1.82	63,760		56.95		0	4,140,957	110.41	7,039,627	80.00%	207,150,5	1,490,740
14.570 625 14.570 625 14.54 14.54 14.71 14.54 14.71 14.54 14.71 14.54 14.71 14.54 14.71 14.54 14.52 14.54 14	Color Colo	Columbia	65,673	~	66.24		0 '	4,350,490	112.62	550,085,7	90000	0,910,000	1,300,170
Control Cont	11.1 11.51 12.12	17.17 1.19 1.10	67,643	8	12.79		~ (4,5/0,625	114.8/	7,770,002	800'00 800'00	6,210,043	1,045,425
5,300,145 10 5,300,145 119,51 8,578,286 80,005 7,286,142 119,51 8,578,286 80,005 7,286,143 119,51 8,578,286 80,005 7,286,145 119,51 8,578,286 80,005 7,286,145 119,51 8,578,280 80,005 7,286,145 119,51 8,578,280 80,005 7,286,146 110,41 1	5,300,145 0 5,300,145 119,51 8,578,226 80,005 5,300,145 119,51 8,578,226 80,005 5,300,145 119,51 8,578,226 80,005 5,300,145 119,51 8,578,226 80,005 5,300,145 110,41 119,51 8,578,226 80,005 5,300,145 110,41 119,51 110,41	5,300,145 0 5,404,874 119,51 8,576,286 90,000,246 90,000,2	69,67	7	68.92		•	4,801,898	71.711	6,103,227	200,00	0,030,00	1,720,000
Processing Cost City DIS Cost (3) Total Cost Price (per ton) (2) Total Cost City DIS Cost (3) Total Cost Price (per ton) (2) Total Cost City DIS Cost (3) Total Cost City DIS Cost (466.129 City	Processing Cost City D/S Cost 3) Total Cost Price (per bin) (2) Total Revenue % Share to City Res. 546 104.1 104.1 104.2 104	Processing Cost City D/S Cost (3) Total Cost Price (per Inn) [2] Total Revenue Seaso, 200 Seaso	7,78	ري د	70.30		0	5,044,874	119.51	8,5/6,286	80,00%	7 208 192	1,010,133
Processing Cost City DIS Cost (3) Total Cost Price (per tan) (2) Total Revenue % Share to City S	Processing Cost City DiS Cost 3 Total Cost Price (per Inn) 2 Total Revenue % Share to City S	Processing Cost City DIS Cost (3) Total Cost Total Revenue State City DIS Cost (3) Total Cost Total Revenue State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State City DIS Cost (3) Total Cost Total Revenue State State Total Cost Total Cost Total Cost Total Revenue State State Total Cost Total Cost Total Revenue State Total Cost Total Cost Total Cost Total Revenue State Total Cost Total Revenue State Total Cost Total Cost Total Revenue State Total Cost Total Cost Total Revenue State	73,91	2	W.M	5,300,145	>	5,300,145	06.121	9,010,240	20000	1,505,131	300,000,1
Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City D/S Cost (3) Total Cost Total Revenue % Share to City D/S Cost (3) Tota	Processing Cost City DIS Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City S	Processing Cost City DIS Cost (3) Total Cost Price (per Inn) (2) Total Revenue % Share to City S										2237	100
Processing Cost (ity DIS Cost (3) Total Cost (1) Total Cost (1) Total Cost (2) Total Cost (3) Total Cost (3) Total Cost (4) Total Cost (5) Total Cost (6) Total Cost (6) Total Cost (7) Total Cost (7) Total Cost (7) Total Cost (8) Total Cost (8) Total Cost (8) Total Cost (8) Total Cost (10, DIS Cost (3) Total Cost (3) Total Cost (10, DIS Cost (3) Total Cost (3) Total Cost (10, DIS Cost (3) Total Cost (10, DIS Cost (3) Total Cost (3) To	Processing Cost City D/S Cost (3) Total Cost Price (per ton) [2] Total Revenue % Share to City % Share to	Processing Cost City DiS Cost (3) Total Cost Price (per ton) [2] Total Revenue % Share to City										1923	100
Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue Share to City September Share to City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue Share to City September Septemb	Processing Cost City DIS Cost (3) Total Cost Price (per Inn) (2) Total Revenue % Share to City S	Processing Cost City D/S Cost (3) Total Cost Price (par Inn) (2) Total Revenue % Share to City Share to City Nate of City D/S Cost (3) Total Cost Processing Cost City D/S Cost (3) Total Cost Price (par Inn) (2) Price (par Inn)	Aan	30	ement (a)								
Processing Cost (3) Total Cost Price (per lon) (2) Total Revenue % Share to City S	Processing Cost City DIS Cost (3) Total Cost (4) Total Cost (4) Total Cost (5)	Processing Cost City DIS Cost (3) Total Cost Tota		3	Processing Fee				Weighted Avg				let Revenue to
\$18.00 \$100000 80.0000 \$1.0000	\$18.00 \$590,000 \$1000\$* \$18.00 \$518.00 \$590,000 \$1000\$* \$18.00 \$24,947.212 \$18.00 \$27,858 \$1000\$* \$1.717,08 \$23,042,504 \$1,749.342 \$1.717,08 \$23,042,504 \$1,749.342 \$1.717,08 \$23,042,504 \$1,749.342 \$1.717,08 \$1,740.342 \$1.717,09 \$1,740.342 \$1.717,00 \$1,740	\$4587.300 0 \$4.997.300 \$18.00 \$590,000 0 \$10.00% \$7 792,000 \$1.00 \$2.00 \$1.0	Material (tons) (1)	1)	(per ton) (2)			Total Cost	Price (per ton) (2)	Total Revenue	% Share	hare to City	- 1
5.82 3.711,708 \$3.042,504 6.776,202 102.00 5.778,300 80.00% 4.622,640 5.83 3.899,520 3.042,504 6.942,025 104.04 6.070,682 80.00% 5.366,463 5.53 4.096,886 3.042,504 7.346,640 106.12 6.377,888 80.00% 5.360,463 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.366,546 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 5.300,00% 6.210,02% 5.300,00% 5.300,00% 6.210,00% 6.210,00% 5.300,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00% 6.310,00%	5.77 102.00 5.778,300 80.00% 4.622,640 5.83 3.494,564 6.794,256 6.942,025 104.04 6.070,682 80.00% 4.622,640 5.83 3.042,564 7.136,543 106.12 6.377,838 80.00% 5.102,287 5.83 4.304,136 3.042,564 7.736,543 110.41 7.036,627 80.00% 5.102,287 5.84 4.507,735 3.042,504 7.734,239 110.41 7.700,62 80.00% 5.106,049 5.24 67.345 3.042,504 8.033,626 114.87 7.770,62 80.00% 6.216,049 5.24 67.345 3.042,504 8.261,507 119.51 8.762.86 80.00% 6.216,049 5.24 67.345 7.770,622 80.00% 6.216,049 6.216,049 5.24 67.347 8.117.77 119.51 8.762.86 80.00% 6.216,049 5.24 67.347 111.71 8.163,042,04 8.261,047 7.700,02 80.00% 8.216,049	3.771,708 \$3.042,504 6.742,025 104.04 6.070,682 80.00% 4.885,546 4.865,546 4.066,835 3.042,504 7.138,340 106.12 6.377,888 80.00% 5.102,287 4.306,438 3.042,504 7.138,340 110.41 7.038,627 80.00% 5.102,287 5.102,287 5.304,463 3.042,504 7.738,340 110.41 7.038,627 80.00% 5.102,287 5.304,463 3.042,504 8.033,625 4.7738,239 112.62 7.308,683 80.00% 5.216,049 8.033,625 4.304,132 3.042,504 8.635,507 113.951 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,777 113.51 8.183,227 80.00% 6.216,049 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,129 8.216,149 8.216,129 8.216,149 8.	55	000	\$90.86			\$4,997,300	\$18.00			792,000	
8.83 3.899,200 3.042,504 6.942,025 104,04 6.070,682 80.00% 4.826,346 6.942,025 104,04 6.070,682 80.00% 5.380,466 6.953,042,504 7.346,430 10.041 7.039,627 80.00% 5.380,430 10.041 7.039,627 80.00% 5.380,430 10.042,504 7.346,430 110.41 7.039,627 80.00% 5.380,430 10.042,504 7.346,430 110.41 7.039,627 80.00% 5.380,430 10.042,504 8.033,626 111.487 7.770,022 80.00% 6.530,581 8.00 8.00% 6.530,581 8.00 8.00% 6.530,581 8.00 8.00% 8.000% 6.530,581 8.00 8.00% 8.000% 6.530,581 8.00 8.00% 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.530,581 8.00 8.000% 6.330,581 8.000% 6.330,581 8.000% 6.330,481 8.000% 6.337,888 80.00% 6.331,702 80.00% 6.331,	8.83 3.899.520 3.042.504 6.942.025 104.04 6.070.882 80.00% 4.1826.485 6.170.882 80.00% 5.182.287 5.182.288 5.182.287 5.182.287 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 5.182.288 6.182.288 6.182.288 6.182.288 6.182.288 6.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 8.182.288 </td <td>3. 3889,520 3.042,504 7.139,340 106.12 6.377,858 80.00% 5.102,387 7.139,340 106.12 6.370,578 80.00% 5.102,387 7.139,340 106.12 6.370,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.700,450 80.00% 5.360,463 80.00% 5.360,463 80.00% 5.360,463 80.00% 5.342,504 8.286,177 112.62 7.395,833 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 119.51 8.576,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,187 119.51 8.376,286 80.00% 6.216,049 8.286,181 1.458,129 7.060,814 112.62 7.395,833 80.00% 6.216,049 8.286,181 1.458,129 7.060,814 112.62 7.395,833 80.00% 6.216,049 8.300,0% 6.216,049 8.300,0% 6.316,00 80.00% 6.300,0% 6.300,0% 6.300,0% 6.316,049 8.316,</td> <td>8</td> <td>920</td> <td>65.52</td> <td></td> <td>\$3,042,504</td> <td>6,754,212</td> <td>102.00</td> <td></td> <td>80,00%</td> <td></td> <td>(2,131,572)</td>	3. 3889,520 3.042,504 7.139,340 106.12 6.377,858 80.00% 5.102,387 7.139,340 106.12 6.370,578 80.00% 5.102,387 7.139,340 106.12 6.370,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.346,640 108.24 6.700,578 80.00% 5.360,463 7.700,450 80.00% 5.360,463 80.00% 5.360,463 80.00% 5.360,463 80.00% 5.342,504 8.286,177 112.62 7.395,833 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 117.77 8.163,227 80.00% 6.216,049 8.286,177 119.51 8.576,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,177 119.51 8.376,286 80.00% 6.216,049 8.286,187 119.51 8.376,286 80.00% 6.216,049 8.286,181 1.458,129 7.060,814 112.62 7.395,833 80.00% 6.216,049 8.286,181 1.458,129 7.060,814 112.62 7.395,833 80.00% 6.216,049 8.300,0% 6.216,049 8.300,0% 6.316,00 80.00% 6.300,0% 6.300,0% 6.300,0% 6.316,049 8.316,	8	920	65.52		\$3,042,504	6,754,212	102.00		80,00%		(2,131,572)
## 4,096,886 3,042,504 7,139,340 106,12 6,377,858 80,00% 5,102,287 7,396,4136 3,042,504 7,346,640 108,24 6,700,578 80,00% 5,316,666 2,316,643 102,234 4,750,735 3,042,504 7,793,239 112,23 0,42,504 8,236,77 110,41 7,036,27 80,00% 6,216,049 6,216,049 112,23 0,42,504 8,286,177 111,487 7,770,62 80,00% 6,216,049 112,23 0,42,504 8,286,177 111,487 7,770,62 80,00% 6,216,049 112,23 0,42,504 8,830,262 114,87 7,770,62 80,00% 6,316,649 112,51 8,756,30,33 1,42,504 8,830,262 112,90 9,010,246 80,00% 6,316,31	8.57 6.000% 5.102.287 10.000% 5.102.287 10.000% 5.300.463 8.53 4.304.136 3.042.504 7.139.340 106.12 6.377.888 80.00% 5.300.463 3.000% 5.300.463 3.000% 5.310.287 5.300.463 3.000% 5.310.287 5.300.463 3.000% 5.310.287 80.000% 5.310.287 5.300.00% 5.310.287 80.000% 5.310.280 5.310.287 80.000% 5.310.280 5.310.287 80.000% 5.310.280 5.310.280 7.700.082 80.000% 5.310.280 8.300.08 5.310.280 7.700.082 80.000% 5.310.280 8.300.08 5.310.280 7.700.082 80.000% 5.310.280 7.700.082 8.300.08 6.530.581 7.700.082 8.300.08 <th< td=""><td>8.30 5,778,103,287</td><td>88</td><td>တ္ထ</td><td>66.83</td><td></td><td>3,042,504</td><td>6,942,025</td><td>104.04</td><td>6,070,682</td><td>80.00%</td><td></td><td>(2,085,479)</td></th<>	8.30 5,778,103,287	88	တ္ထ	66.83		3,042,504	6,942,025	104.04	6,070,682	80.00%		(2,085,479)
4,750,755 3,042,504 7,366,430 110,41 7,039,627 80,00% 5,391,456 2,346,430 110,41 7,039,627 80,00% 5,391,669 5,391,702 2,347,504,303 3,042,504 7,564,430 110,41 7,039,627 80,00% 5,391,699 5,391,699 2,3042,504 8,236,177 111,487 7,770,062 80,00% 6,216,049 6,216,049 8,296,177 111,487 7,770,062 80,00% 6,216,049 6,310,00% 6,391,699 1,391,122 3,042,504 8,390,262 114,87 7,770,062 80,00% 6,216,049 8,390,200 3,042,504 8,390,262 12,190 9,010,246 80,00% 6,216,049 8,390,262 12,190 9,010,246 80,00% 6,881,029 1,22,390 6,184,022 14,681,129 7,943,310 102,00 5,778,300 80,00% 6,5178,300 80,00% 6,5178,300 80,00% 6,5178,300 80,00% 6,5178,300 80,00% 6,537,898 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,530,891 112,62 7,395,333 114,881,29 7,344,310 104,04 6,706,682 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,530,891 112,62 7,395,333 114,881,29 7,344,310 104,04 6,706,578 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,537,895 80,00% 6,530,891 112,62 7,395,333 114,881,29 10,194,831 12 112,62 7,395,333 114,881,29 10,194,831 12 114,87 7,770,062 80,00% 6,537,895 80,00% 6,530,891 112,63 114,881,29 10,194,831 12 12,90 100,102,46 80,00% 6,537,895 80,00% 6,530,891 12,96,406 14,881,29 10,194,834 121,90 100,102,46 80,00% 6,530,891 12,96,406 14,881,29 10,194,834 121,90 100,102,46 80,00% 6,591,997 121,90 100,102,46 80,00% 6,391,997 121,90 100,102,46 80,00% 6,391,997 121,90 100,102,46 80,00% 6,391,997 121,90 100,102,46 80,00% 6,391,997 121,90 100,102,46 80,00% 6,391,997 121,90 100,194,834 121,90 100,102,46 80,00% 6,391,997 121,90 1,904,834 121,90 100,102,46 80,00% 6,391,997 121,904,834 121,90 100,102,46 80,00% 6,391,997 121,904,834 121,90 100,102,46 80,00% 6,391,997 121,904,834 121,90 100,102,46 80,00% 6,391,997 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 121,904,834 1	9.53 4,304,136 3,042,504 7,346,640 108.24 6,700,578 80,00% 5,380,463 2.34 4,521,925 3,042,504 7,346,643 110,41 7,039,627 80,00% 6,216,049 5,380,463 2.34 4,591,125 3,042,504 8,033,626 111,262 7,396,837 80,00% 6,216,049	9.35 4,304,136 3,042,504 7,346,840 108,24 6,700,578 80,00% 5,390,463 5,390,463 5,390,463 5,390,463 5,390,463 5,390,463 5,390,463 5,390,463 5,390,463 5,304,2504 7,783,264 8,033,626 114,87 7,770,062 80,00% 6,216,049 6,207 6,209,003 3,042,504 8,280,177 119,51 8,76,286 80,00% 6,216,049 8,297,300 80,00% 6,397,366 8,397,300 10,448,129 7,344,310 8,492,300 10,448,129 7,344,310 10,41 7,709,62 80,00% 6,307,682 80,00% 6,496,933 1,458,129 7,344,310 10,42 6,496,833 10,00% 6,307,868 80,00% 6,496,833 1,458,129 1,458,129 8,923,442 114,87 7,770,062 80,00% 6,216,049 6,216,049 8,397,300 10,194,534 114,87 7,770,062 80,00% 6,216,049 8,300,00% 6,307,868 80,00% 6,307,868 80,00% 6,307,868 80,00% 6,307,809 80,00% 6,30	6	8	68.17		3,042,504	7,139,340	106.12	6,377,858	80.00%		(2,037,054)
4, 221, 925 3, 042, 504 7, 554, 430 110, 41 7, 039, 827 80,00% 5, 531, 702 2, 34 4, 702, 735 3, 042, 504 8, 286, 177 112, 62 7, 395, 833 80,00% 6, 216, 666 6, 24, 753 3, 042, 504 8, 286, 177 117, 7, 770, 622 80,00% 6, 216, 666 6, 243, 573 3, 042, 504 8, 286, 177 117, 7, 770, 622 80,00% 6, 216, 666 6, 243, 573 3, 042, 504 8, 830, 262 1143, 51 8, 576, 286 8, 80,00% 6, 81, 623, 581 117, 17 8, 163, 227 80,00% 6, 510, 681, 029 8, 623, 581 118, 51 8, 770, 622 8, 881, 731, 732 8, 100, 244, 81, 29 7, 304, 2504 8, 830, 262 8, 830, 262 8, 830, 262 8, 830, 262 8, 830, 262 8, 830, 262 8, 830, 262 8, 262, 263 8, 262, 263 8, 262, 263 8, 262, 263 8, 262, 264 8,	98 4,521,925 3,042,504 7,564,430 110,41 7,039,627 80,00% 5,531,702 2.34 4,751,735 3,042,504 7,732,239 112,62 7,739,833 80,00% 6,531,702 2.36 4,931,12 3,042,504 8,286,177 117,17 8,163,227 80,00% 6,530,581 5.77 5,509,003 3,042,504 8,530,262 113,51 8,76,286 80,00% 6,530,581 8.77 5,509,003 3,042,504 8,530,262 121.90 9,010,246 80,00% 7,208,197 8.77 5,509,003 3,042,504 8,530,262 121.90 9,010,246 80,00% 7,208,197 8.77 5,509,003 3,042,504 8,830,262 121.90 9,010,246 80,00% 6,530,581 8.78 5,609,003 3,042,504 8,830,262 121.90 9,010,246 80,00% 6,530,691 8.78 5,609,003 3,042,504 8,830,000 \$10,006 \$10,006 \$10,006 \$10,006 \$10,006 \$10,006	4,521,925 3,042,504 7,564,430 110,41 7,033,627 80,00% 6,515,017,02 112,62 7,395,833 80,00% 6,216,049 6,216,049 8,286,177 112,62 7,395,833 80,00% 6,216,049 8,286,177 117,17 8,163,227 80,00% 6,216,049 8,286,177 117,17 8,163,227 80,00% 6,216,049 8,286,177 117,17 8,163,227 80,00% 6,216,049 8,286,177 117,17 8,163,227 80,00% 6,216,049 8,286,177 119,51 8,562,886 80,00% 6,216,049 8,286,181 117,17 8,163,227 80,00% 6,216,049 8,286,181 117,17 8,163,227 80,00% 6,216,049 8,286,181 117,17 8,163,227 80,00% 6,216,049 8,286,181 117,17 8,163,227 80,00% 6,216,049 8,286,181 117,17 8,163,227 80,00% 6,216,049 8,286,182 114,81 7 7,703,62 80,00% 6,216,049 8,292,046 114,87 7 770,067 80,00% 6,216,049 8,292,046 114,81 7 7,770,067 80,00% 6,216,049 8,216,287 81,292 114,581,29 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 114,581,58 1	61,5	93	69.53	-50	3,042,504	7,346,640	108.24	6,700,578	80.00%		(1,986,178)
4,750,735 3,042,504 7,793,239 112,62 7,395,833 80,00% 5,916,666 6,216,049 6,226,436,73 3,042,504 8,033,626 114.87 7,770,062 80,00% 6,216,049 6,20,637,758 3,042,504 8,536,262 12.90 9,010,246 80,00% 6,816,1029 7,208,197 119.51 8,776,286 80,00% 6,816,1029 7,208,197 119.51 8,776,286 80,00% 6,816,1029 8,830,262 12.90 9,010,246 80,00% 7,208,197 12.90 9,010,246 80,00% 7,208,197 12.90 8,000 8,495,300 80,00% 8,495,400 80,4	2.34 4,750,735 3,042,564 7,733,239 112.62 7,395,833 80,00% 5,5,916,666 6,216,049 6,230,581 3,042,564 8,530,581 114.87 7,770,662 80,00% 6,530,581 8,75,504 8,530,564 8,530,564 114.87 7,770,662 80,00% 6,530,581 8,50,00% 6,	2.34 4,750,735 3,042,504 7,793,239 112,62 7,395,833 80,00% 6,510,699 6,216,049 6,224,673 3,042,504 8,033,626 111,17 7 8,163,227 80,00% 6,530,581 6,530,581 6,530,581 7 119,51 8,163,227 80,00% 6,530,581 6,530,581 7 119,51 8,550,003 3,042,504 8,830,262 121,90 9,010,246 80,00% 6,861,029 7,208,197 7 121,90 9,010,246 80,00% 6,861,029 8,300,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,861,029 121,90 9,010,246 80,00% 6,100,578 80,00% 6,100,578 80,00% 6,100,287 80,00% 6,100,287 1458,129 7,642,151 106,12 6,377,858 80,00% 6,100,287 1458,129 7,642,151 106,12 6,377,858 80,00% 6,100,287 1458,129 7,642,151 106,12 6,377,858 80,00% 6,100,287 1458,129 7,642,151 119,17 7,170,052 80,00% 6,216,049 117,17 8,163,229 114,451,129 14,458,129 9,373,258 1119,51 8,576,286 80,00% 6,216,049 80,00% 6,216,049 81,16,129 11,184,129 8,010,126 80,00% 6,216,049 81,16,129 11,184,121 11,185 11	63,7	8	70.92		3,042,504	7,564,430	110.41	7,039,627	80.00%	5,631,702	(1,932,728)
3.79 4,991,122 3,042,504 8,033,628 114,87 7,770,052 80,00% 6,520,581 6,530,581 119,51 8,163,227 80,00% 6,530,581 6,530,581 119,51 8,163,227 80,00% 6,530,581 6,530,581 119,51 8,163,227 80,00% 6,530,581 6,530,581 119,51 8,163,227 80,00% 6,530,581 6,530,581 119,51 8,163,227 80,00% 6,530,581 119,51 8,163,227 80,00% 6,530,581 119,51 8,163,227 80,00% 6,530,581 119,51 8,163,227 80,00% 6,531,702 81 112,62 7,395,833 14,581,129 7,965,062 110,41 7,039,627 80,00% 6,531,702 81,90 81,315,534 14,581,29 10,194,534 121,30 10,194,63 81,000% 7,208,197 80,00% 7,208,197 81,000 81,300 81,	3.79 4,991,122 3,042,504 8,033,625 114,87 7,770,082 80,00% 6,530,581 6,530,581 11,23 3,042,504 8,286,177 119,51 8,576,286 80,00% 6,530,581 7,208,197 7,208,197 119,51 8,576,286 80,00% 7,208,197 7,208,197 7,208,197 119,51 8,590,000 8,000% 7,208,197 119,51 8,590,000 8,000% 7,208,197 119,51 8,590,000 8,000% 7,208,197 110,200 5,778,300 80,00% 4,856,546 8,496,730 114,68,129 7,945,151 114,68,129 8,525,180 112,62 7,770,062 80,00% 6,516,049 114,68,129 8,525,180 114,67 7,770,062 80,00% 6,516,049 114,68,129 114,68,129 8,525,180 114,67 7,770,062 80,00% 6,516,049 114,68,129 114,68,129 8,532,180 111,117 8,170,067 80,00% 6,516,049 114,68,129 114,68,129 8,532,180 111,117 8,170,062 80,00% 7,700,00% 114,68,129 8,525,180 111,117 8,170,062 80,00% 7,700,00% 114,68,129 114,68,129 8,770,062 80,000% 6,861,029 8,315,634 114,68,129 110,194,534 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 7,208,197 112,190 9,010,246 80,000% 112,190 9,01	3.79 4,991,122 3,042,504 8,033,678 1144,87 7,770,062 800,00% 6,530,581 114,87 7,770,062 800,00% 6,530,581 114,87 7,590,003 3,042,504 8,830,262 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 7,208,197 1121,30 9,010,246 80,00% 80	65,	573	72.34		3,042,504	7,793,239	112.62	7,395,833	80.00%	5,916,666	(1,8/6,5/3)
5.26 5.243.673 3.042.504 8.286,177 117.17 8.193,227 60.00% 6.350,209 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,200 6.350,2	5.26 5.243.673 3.042.504 8.286,177 117.17 8.193.227 6.350.036 6.861,029 6.86	5.26 5.243,673 3,042,504 8,286,777 117.17 8,176,226 80,00% 6,861,029 8.30,003 3,042,504 8,830,262 121.30 9,010,246 80,00% 7,208,197 8.690,003 3,042,504 8,830,262 121.30 9,010,246 80,00% 7,208,197 8.00 80,00% 5,786,129 7,060,814 1458,129 7,060,814 1458,129 7,966,825,673 14,58,129 7,966,825,673 14,58,129 7,965,139 11,262 7,396,833 14,58,129 7,364,932 11,458,129 7,364,932 11,458,129 8,932,042 117,17 8,163,227 80,00% 6,530,686 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,458,129 11,194,534 11,17 8,163,227 80,00% 6,530,687 110,194,54 11,458,129 11,194,534 11,190 9,010,246 80,00% 6,530,681 11,458,129 11,194,534 11,190 9,010,246 80,00% 6,530,681 11,458,129 11,194,534 11,190 9,010,246 80,00% 6,530,681 11,458,129 11,194,534 11,190 9,010,246 80,00% 6,530,681 11,190 11,194,534 11,190 9,010,246 80,00% 6,700,190 11,190,190 11,190,190 11,194,534 11,190 9,010,246 80,00% 6,700,190 11,190,190	67,	843	73.79		3,042,504	8,033,626	114.87	7,770,062	80.00%		(1,011,011)
8.30 5,787,758 3,042,504 8,830,262 121.90 9,010,246 80.00% 7,208,197 8.40 5,787,758 3,042,504 8,830,262 121.90 9,010,246 80.00% 7,208,197 8.50 5,787,758 3,042,504 8,830,262 121.90 9,010,246 80.00% 7,208,197 8.50 6,1458,129 7,345,310 10.41 7,039,627 80.00% 5,310,666 11,458,129 7,345,310 10.41 7,039,627 80.00% 5,310,287 1,458,129 8,292,042 114.87 7,770,662 80.00% 6,216,049 1,458,129 10.773,63 114.87 7,770,662 80.00% 6,216,049 117.17 8,163,22 80.00% 6,216,049 117.17 8,163,22 80.00% 6,216,049 117.17 8,163,22 80.00% 6,216,049 117.17 8,163,22 80.00% 7,208,197 119.0 9,010,246 80.00% 7,208,197 12.90 9,010,246 80.00% 7,208,197 12.90	Sample S	8.30 5,787,758 3,042,504 8,830,262 121.30 9,010,246 80.00% 7,208,197 Neighted Avg Processing Cost (3) Total Cost (4) Total	ල් :	672	75.26		3,042,504	8,286,177	117.17	8,103,227	90.00%		(1,733,333)
Net Fig. 1, 190 5,042,034 1,042 1,458,129 1,	Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue Share to City Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue Share to City Price (per ton) (2) Total Revenue Share to City Price (per ton) (2) Total Revenue Share to City Price (per ton) (2) Total Revenue Share to City Price (2000) Share to City Share to City Price (2000)	Processing Cost (3) Total Cost (4) Total Cost (5)	- 1	2 2	76.77		3,042,504	70C'1CC'9	121 90	9,57,0,200	80.00%	7.208.197	(1,622,065)
Neelghted Avg Neighted Avg Nei	Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share	Processing Cost (3) Total Cost (4) Total Cost (5) Total Cost (6) Total Cost (7) Total Cost (8) Total Cost (9)	Š	1016	70.30		5,044,304	202,000,0	26:131	254000			(analysis)
Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City Net F 0.88 \$4,997,300 \$4,997,300 \$18.00 \$990,000 \$100% \$772,000 \$100,00%	Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City Net F 0.88 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,000	Processing Cost (3) Total Revenue % Share to City Sha										Average =	
Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City S	Processing Cost City D/S Cost (3) Total Cost Price (per ron) (2) Total Revenue % Share to City S	Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Revenue % Share to City Share to City Price (per ton) (2) Total Revenue % Share to City Share to	è										
Processing Fee Processing Fee Weighted Avg Processing Fee Not The per ton) (2) Total Cost (3) Tot	Processing Cost City D/S Cost (3) Total Cost Price (per ton) (2) Total Cost (3) Total Cost (3) Total Cost (4) Total Cost (5) Total Cost (6) Total Cost (7) Total Cost	Processing Fee Processing Fee Weighted Avg Weighted Avg Note (per ton) (2) Total Revenue % Share to City Included Avg Note (per ton) (2) Total Revenue % Share to City Included Avg Note (per ton) (2) Total Revenue % Share to City Included Avg Note (per ton) (2) Total Revenue % Share to City Processing Cost Included Avg	\$	nag	ement (b)								
Section 2	Secondary Processing Cost Jay	100.000 1,			Processing Fee		(6) 1-0		Weighted Avg	Total Dougla	% Cham to City		Vet Kevenue to
\$90.86 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,997,300 \$4,627,642 \$4,627,642<	\$80.86 \$4,997,300 \$4,817,300 \$78,000 \$7,000 <t< td=""><td>\$80.08 \$4,997,300 0 \$4,997,300</td><td>8</td><td></td><td>(ber ton) (z)</td><td></td><td>City Dia Cost (a)</td><td>rotal Cost</td><td>Line (per m</td><td>Spiroven into</td><td>200</td><td>1000 002</td><td>ı</td></t<>	\$80.08 \$4,997,300 0 \$4,997,300	8		(ber ton) (z)		City Dia Cost (a)	rotal Cost	Line (per m	Spiroven into	200	1000 002	ı
98.30 5,602,083 1,436,129 7,344,310 104.04 6,707,682 80.00% 4,856,546 102.88 5,866,181 1,458,129 7,344,310 104.04 6,377,858 80.00% 5,102,287 102.80 6,496,933 1,458,129 7,955,062 108.24 6,700,578 80.00% 5,102,287 107.05 6,825,678 1,458,129 8,283,807 110.41 7,039,627 80.00% 5,631,702 103.19 8,283,807 112.62 7,395,833 80.00% 5,916,666 6,216,049 111.38 7,533,913 1,458,129 8,992,042 114.87 7,770,062 80.00% 6,216,049 111.38 7,533,913 1,458,129 9,373,258 117.17 8,165,286 80.00% 6,216,049 115.86 7,915,129 1,458,129 9,773,758 80.00% 6,536,581 116.58 8,315,34 1,458,129 9,773,758 119.458 12.90 9,010,246 80.00% 7,208,197	98.30 5,60,000 1,350,129 7,000,014 1,000,000 4,856,564 4,856,564 4,856,564 4,856,564 4,856,564 4,856,662 1,000,000 5,102,287 4,856,564 5,102,287 4,856,564 5,102,287 1,000,000 5,102,049 1,100,11 1,100,11 1,100,11 1,100,11 1,100,11 1,100,11 1,100,11<	100.86 5,886,181 1,458,129 7,344,310 104,04 6,070,682 80,00% 4,856,546 102,287 102,287 104,04 6,170,682 80,00% 5,102,287 104,04 6,144,022 1,458,129 7,542,151 106,12 6,377,858 80,00% 5,360,463 5,360,463 1,458,129 7,471,057 1,458,129 8,283,807 110,41 7,039,627 80,00% 5,360,463 1,458,129 1,458,149,129 1,458,149,149 1,458,149,149 1,458,149,149 1,458,149,149 1,458,149,149 1,458,149,149 1,458,149,149 1,458,	3	00	\$90.86		•	7,060,944	·	\$990,000 5 778 300		\$2,000 \$4 622 640	
100.88 5,886,181 1,536,129 7,542,151 104,232 1,536,129 7,542,151 106,12 6,777,868 80.00% 5,102,287 100.89 6,486,933 1,458,129 7,945,057 108,44 6,700,578 80.00% 5,360,463 107.05 6,825,678 1,458,129 8,283,807 110,41 7,039,627 80.00% 5,631,702 108.19 7,171,057 1,458,129 8,529,186 112,62 7,395,833 80.00% 5,916,666 111.38 7,533,913 1,458,129 8,992,042 114,87 7,770,062 80.00% 6,216,049 113.61 7,915,129 1,458,129 9,373,258 117,17 8,165,228 80.00% 6,536,381 116.88 8,315,634 1,458,129 9,773,763 80.00% 6,530,581 116.88 8,315,634 1,458,129 9,773,763 80.00% 6,530,581 118.89 8,316,634 1,458,129 9,773,763 80.00% 6,530,581	100.86 6,184,022 1,458,129 7,542,151 106.12 6,777,858 80.00% 5,102,287 104.96 6,496,333 1,458,129 7,955,062 108.24 6,700,578 80.00% 5,360,463 109.19 7,171,057 1,458,129 8,823,987 112.62 7,395,833 80.00% 5,916,666 1113.8 7,533,913 1,458,129 8,922,042 114.87 7,770,062 80.00% 6,516,049 115.86 1,458,129 8,373,258 117.17 8,163,227 80.00% 6,851,29 118.18 8,315,634 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	100.86 5,880,181 1,458,129 7,642,151 106.12 6,377,888 80.00% 5,102,287 102.87 1	g i	2	80.80		1,450,129	7,000,014		6 070 682	80 00%		(2 487 764)
102.80 6,184,022 1,458,129 7,642,151 106.12 0,377,833 90.00% 5,102,201 104.85 6,496,933 1,458,129 7,955,062 108.24 6,700,578 80.00% 5,360,463 107.05 6,826,678 1,458,129 8,283,807 110.41 7,035,627 80.00% 5,916,666 117.38 7,777,057 1,458,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,530,581 118.8 8,736,465 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,610,29 118.19 8,736,465 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	102.80 6,184,022 1,458,129 7,642,151 106.12 0,377,836 00.00% 5,104,201 104.85 6,496,933 1,458,129 7,955,062 108.24 6,700,578 80.00% 5,360,463 107.05 6,825,678 1,458,129 8,283,807 110.41 7,039,627 80.00% 5,916,666 113.8 7,171,057 1,458,129 8,920,042 114.77 7,770,062 80.00% 6,216,049 113.81 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,861,029 116.88 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	102.80 6,184,022 1,458,129 7,542,151 106,12 0,377,636 0,000% 5,360,463 1,458,129 7,955,165 108.24 6,000% 5,360,463 1,458,129 7,955,682 1,458,129 7,955,833 80.00% 5,360,463 1,458,129	S	3	700.88		671,004,1	010,440,7	5.40	0,070,002	20000		(50.0000)
104.95 6,496,333 1,458,129 7,955,062 108.24 6,700,578 80.00% 5,360,463 107.05 6,825,678 1,458,129 8,223,807 110.41 7,038,627 80.00% 5,361,702 108.19 7,177,057 1,458,129 8,229,86 112.62 7,370,062 80.00% 5,916,666 111.38 7,533,913 1,458,129 8,992,042 117.17 8,163,227 80.00% 6,216,049 113.81 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	104.86 6,496,333 1,458,129 7,565,062 108.24 6,700,578 80.00% 5,360,463 107.05 6,825,678 1,458,129 8,283,807 110.41 7,038,627 80.00% 5,360,463 107.05 6,825,678 1,458,129 8,283,807 110.41 7,038,627 80.00% 5,631,702 111.38 7,171,057 1,458,129 8,292,042 114.87 7,770,052 80.00% 6,530,581 115.81 7,915,129 1,458,129 9,373,258 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	104.95 6,496,933 1,456,129 7,956,062 108.24 6,700,578 80.00% 5,360,403 107.05 6,825,678 1,458,129 8,283,807 110.41 7,039,627 80.00% 5,31702 109.19 7,171,057 1,458,129 8,920,42 114.87 7,770,052 80.00% 6,216,049 115.86 115.84 1,458,129 9,373,289 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197 Noverage = \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$	8	8	102.90		1,458,129	7,642,151	106.12	908/1/80	80.00%		(2,339,004)
107.05 6,825,678 1,458,129 8,283,807 110.41 7,039,627 80.00% 5,631,702 109.19 7,171,057 1,458,129 8,283,807 112.62 7,395,833 80.00% 5,916,666 111.38 7,533,913 1,458,129 8,992,042 114.87 7,770,062 80.00% 6,216,049 113.61 7,915,129 1,458,129 9,373,258 117.17 8,165,227 80.00% 6,530,581 116.38 8,315,34 1,458,129 9,773,763 119,51 8,762,286 80.00% 7,208,197 118.18 8,736,405 16,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	107.05 6,825,678 1,458,129 8,283,807 110.41 7,039,627 80.00% 5,631,702 108.19 1,171,057 1,458,129 8,283,807 112.62 7,395,833 80.00% 5,916,666 111.38 7,171,067 1,458,129 8,922,042 114.87 7,770,062 80.00% 6,216,049 115.81 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,651,029 116.18 8,736,645 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	107.05 6,825,678 1,456,129 8,283,807 110.41 7,039,627 80,00% 5,631,702 109.19 7,171,057 1,458,129 8,629,166 112.62 7,395,833 80,00% 6,516,666 111.83 7,533,913 1,458,129 8,932,042 114.87 7,770,062 80,00% 6,216,049 115.88 8,315,634 1,458,129 9,373,735 119.51 8,576,286 80,00% 6,861,029 116.88 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80,00% 7,208,197 Noverside \$	61,9	8	104.95		1,458,129	7,955,062	108.24	6,700,578	80.00%		(2,594,600)
109.19 7,171,057 1,458,129 8,629,186 112,62 7,395,833 80,00% 5,916,666 6216,649 111.38 7,533,913 1,458,129 8,992,042 114,87 7,770,062 80,00% 6,216,049 113.61 7,915,129 1,458,129 9,373,258 117,17 8,163,227 80,00% 6,530,581 116.88 8,315,34 1,458,129 9,773,763 119,51 876,286 80,00% 7,208,197	109.19 7,171,057 1,458,129 8,629,186 112,62 7,395,833 80,00% 5,916,666 5,916,666 6216,049 111.38 7,533,913 1,458,129 8,922,042 114,87 7,770,062 80,00% 6,216,049 8,216,049 113.61 7,915,129 1,458,129 9,373,258 117,17 8,163,227 80,00% 6,530,581 116.88 8,315,634 1,458,129 9,773,763 119,51 8,776,286 80,00% 7,208,197 148.19 1,458,129 10,194,534 121.90 9,010,246 80,00% 7,208,197	109.19 7,171,057 1,458,129 8,629,186 112.62 7,395,833 80.00% 5,916,666 111.38 7,533,913 1,458,129 8,992,042 114.87 7,770,062 80.00% 6,530,681 113.61 7,513,913 1,458,129 9,373,558 117.17 8,163,227 80.00% 6,530,581 115.86 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,881,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	63.7	99	107.05		1,458,129	8,283,807	110.41	7,039,627	80.00%	1200	(2,652,105)
111.38 7,533.913 1,458.129 8,992,042 114.87 7,770,062 80.00% 6,216,049 113.61 7,915,129 1,458.129 9,373,258 117.17 8,163,227 80.00% 6,530,581 115.88 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	111.38 7,533,913 1,458,129 8,992,042 114.87 7,770,062 80.00% 6,216,049 113.61 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,530,581 116.88 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	111.38 7,533,913 1,458,129 8,992,042 114.87 7,770,062 80.00% 6,216,049 113.61 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,5861,029 115.88 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	65.6	73	109.19		1,458,129	8,629,186	112.62	7,395,833	80.00%		(2,712,520)
113.61 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,530,581 116.88 8,315,634 1,458,129 9,773,763 119,51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	113.61 7,915,129 1,458,129 9,373,258 117.17 8,163,227 80.00% 6,530,581 116.86 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	113.61 7.915,129 1.458,129 9,373,258 117.17 8,163,227 80.00% 6,530,581 116.86 8,315,634 1.458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 7,208,197 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197 Average = \$ 113.61 7.915,129 1.458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197 121.90 9,010,246 80.00% 7,208,197 121.90 9,010,246 1	67.6	43	111.38		1,458,129	8,992,042	114.87	7,770,062	80.00%	6,216,049	(2,775,993)
115.86 8.315.634 1.458.129 9,773,763 119.51 8,576.286 80.00% 6,861,029 118.19 8,736,405 1.458.129 10,194,534 121.90 9,010,246 80.00% 7,208,197	115.88 8,315,634 1,458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	116.36 8.315,634 1.458,129 9,773,763 119.51 8,576,286 80.00% 6,861,029 118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197 Average = \$ Average	9	22	113.61		1,458,129	9,373,258	117.17	8,163,227	%00'08		(2,842,676)
118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197	118.19 8,736,405 1,458,129 10,194,534 121.90 9,010,246 80.00% 7,208,197 Average = \$	717	23	115.88		1,458,129	9,773,763	119.51	8,576,286	80.00%		(2,912,735)
	Avances	Average = \$ Nub/= ¢	73	15	118.19		1,458,129	10,194,534	121.90	9,010,246	80.00%	7,208,197	(2,986,338)

(1) Assumes 3% annual increase (2) FYE 2011 includes Transition Plan costs only. All other years assume 2% annual increase. (3) Assumes 5% annual interest cost for buildings and 3% annual interest cost for equipment.

Finalists for Austin Material Recovery Facility Cost Summary

	Net Revenue to	Share to City City	\$ 5,170,000 \$ (1,320,00	\$5,431,602	5,706,441 (1	5,995,187		6,617,250	6,952,083	7,303,858 (1,685,037	_	8,061,709 (1,859,877)	8,469,631	Average = \$ (1,712,554	TAC 001 01/ 4 11011
		% Share to City	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	84.00%	84.00%	94.00%	84.00%	94.00%		
		Total Revenue	\$5,500,000	5,778,300	6,070,682	6,377,858	6,700,578	7,039,627	7,395,833	7,770,062	8,163,227	8,576,286	9,010,246		
	Weighted Avg	Price (per ton) (2)	100.00	102.00	104.04	106.12	108.24	110.41	112.62	114.87	117.17	119.51	121.90		
		Total Cost	\$6,490,000	6,684,700	7,022,946	7,378,307	7,751,649	8,143,883	8,555,963	8,988,895	9,443,733	9,921,586	10,423,618		
		City D/S Cost (3)	0	0	0	0	0	0	0	0	0	0	0		
		Processing Cost City D/S Cost (3)	\$6.490,000	6,684,700	7,022,946	7,378,307	7,751,649	8,143,883	8,555,963	8,988,895	9,443,733	9,921,586	10,423,618		
	Processing Fee	13	\$118.00	118,00	120.36	122.77	125.22	127.73	130.28	132.89	135.54	138.26	141.02		
Balcones		Material (tons) (1)	55.000	56.650	58,350	60,100	61,903	63,760	65.673	67.643	69.672	71.763	73,915	•	
-	Year	Ending	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		

⁽¹⁾ Assumes 3% annual increase (2) FYE 2011 includes Transition Plan costs only. All other years assume 2% annual increase. (3) Assumes 5% annual interest cost for buildings and 3% annual interest cost for equipment.