

INTEGRATED WASTE

**TRANSITIONING TO
AUTOMATION AND BEYOND**

PRESENTED BY: JOHN PITTMAN

INTEGRATED WASTE FUND

WASTE COLLECTION

RECYCLING COLLECTION

RECYCLING CENTER

LANDFILL UPDATE: PINEGROVE, GRANITE BLUFF, WILSON CAMP & OXBOW

RATE STUDY – PRESENTED BY ABBY GOLDSMITH, ACTUARY

WASTE COLLECTION

NEW AUTOMATED SIDE LOADER (ASL) TRUCKS

ONE CART SYSTEM – WHAT IS IT?

“GETTING THE WORD OUT STARTS NOW”

AMENDING CURRENT ORDINANCE

AUTOMATION IMPLEMENTATION: PHASE 1-3, AUGUST - OCTOBER

YARD WASTE TRANSITION: OCTOBER – DECEMBER

CURRENT STAFFING LEVELS

OPERATIONS & SUSTAINABILITY/FUTURE PROGRAMS

AUTOMATED SIDE LOADERS WHERE ARE WE WITH DELIVERY?



- **19 CAB & CHASSIS HAVE PASSED INSPECTION. BODIES ARE BEING INSTALLED.**
- **21 CAB & CHASSIS TO BE INSPECTED W/BODIES**
- **FINAL PDI PROCESS & DECAL INSTALLATION- BIRMINGHAM, ALABAMA**
- **ANTICIPATE THE FIRST SET OF COMPLETED TRUCKS TO BE DELIVERED END OF JULY.**



CURRENT COLLECTION



FUTURE COLLECTIONS

ONE CART SYSTEM



EFFECTIVE JANUARY 1, 2024 ONLY CITY ISSUED CARTS COLLECTED

- **BLACK – HOUSEHOLD WASTE**
- **GREEN – YARD WASTE**
- **BLUE - RECYCLING**

GETTING THE WORD OUT BILLBOARD & DIRECT MAILER

BEGINNING JANUARY 1ST,

**ONLY CITY ISSUED CARTS WILL
BE COLLECTED CURBSIDE.**



BILLBOARD & DIRECT MAILER

Using The One Cart System Properly



OUTFRONT

BILLBOARD & DIRECT MAILER



**New Trucks
To Serve
You Better!**

COLUMBUS
GEORGIA
We do amazing.

**public
WORKS**

COLUMBUS
RECYCLES

“GETTING THE WORD OUT STARTS NOW”

MEDIA OUTLETS

- TV – CCG TV
 - - LOCAL NEWS
 - - LOCAL RADIO
 - - COMMUNITY MEETINGS

SOCIAL MEDIA

- CCG WEB SITE
- CCG/PUBLIC WORKS/FACEBOOK
- COMMUNITY MEETINGS, HOA’S & CHURCHES

PRINT MEDIA

- BILLBOARDS
- DIRECT MAILERS
- TV – COMMERCIALS
- FLYERS ON VARIOUS SOCIAL MEDIA APPS.



ORDINANCE AMENDMENTS

- **CHAPTER 13 – HEALTH & SANITATION**
 - **ARTICLE VII. - SOLID WASTE COLLECTION AND DISPOSAL**
 - **SECTION – 13-167.1 DEFINITIONS**
 - **#15 & #24**
 - **SECTION 13-167.2– GENERAL PROVISIONS**
 - **# 2(a) (b)**
 - **# 10**
 - **SECTION 13-167.3– CONTAINER SPECIFICATIONS**
 - **#1(a) Remove**
 - **#2 (a), (b), (c)**
- DETAILED VERBIAGE OF ORDINANCES (HANDOUT)**

WASTE COLLECTION STAFFING LEVELS

	FY22	FY23	FY24
• HOUSEHOLD WASTE	32	32	18
• RECYCLING	12	12	12
• YARD WASTE	0	0	14
• GRAB-ALL's	10	10	10
• STAFFED POSITIONS	54	54	42
• VACANCY	14	14	12
• TOTAL # OPERATORS	40	40	54

AUTOMATION TRANSITION PHASES HOUSEHOLD WASTE

5 AUTOMATED SIDE
LOADERS DEPLOYED

- **10** REAR LOADERS
DELETED

SEPTEMBER

6 FINAL AUTOMATED
SIDE LOADERS
DEPLOYED

- **6** FINAL REAR
LOADERS DELETED
- TOTAL UPON
COMPLETION: 16
AUTOMATED ROUTES

AUGUST

OCTOBER

5 ADDITIONAL AUTOMATED
SIDE LOADERS DEPLOYED

- **10** ADDITIONAL REAR
LOADERS DELETED

YARD WASTE TRANSITION BACK TO CCG COLLECTION

**OCTOBER – IMPLEMENT 5 ASL YARD
WASTE ROUTES**

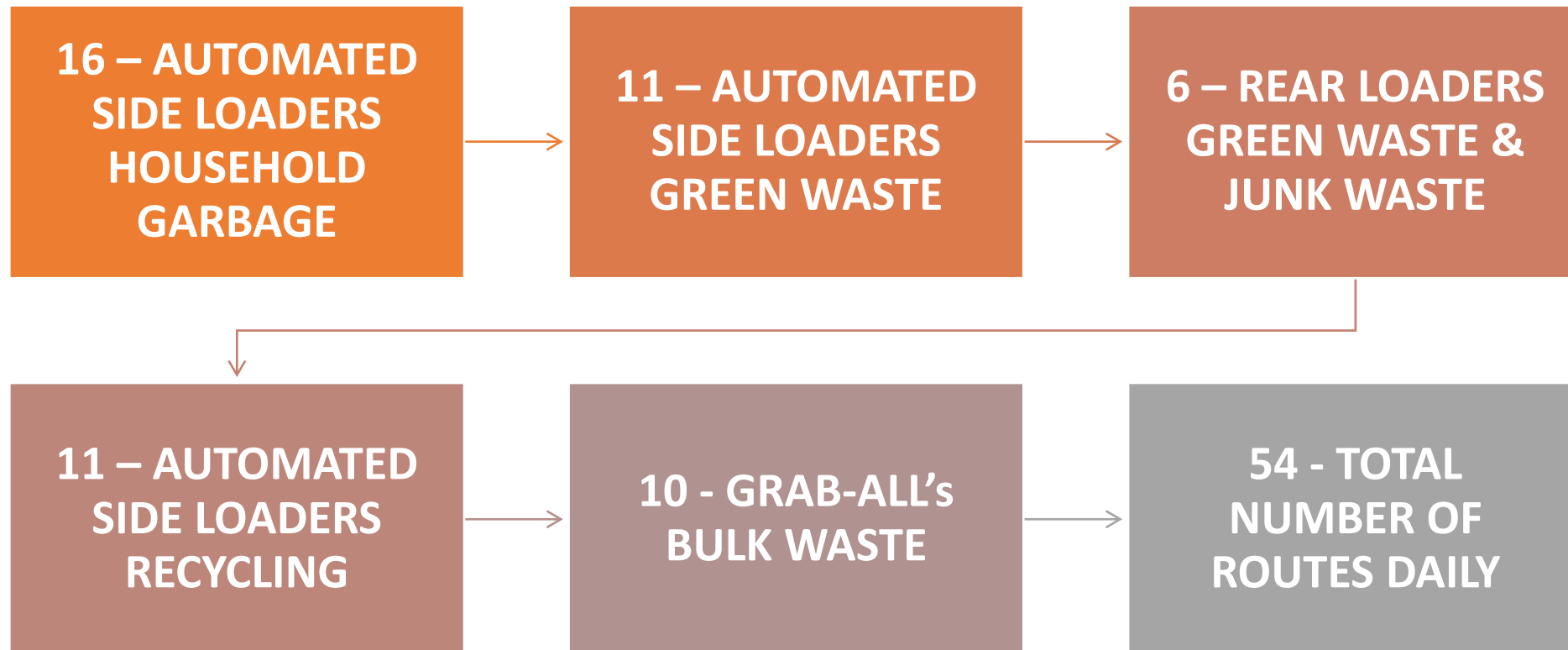
**REPLACE/PHASE OUT 7 AMWASTE
YARD WASTE ROUTES**

**NOVEMBER – IMPLEMENT FINAL 6 ASL
YARD WASTE ROUTES**

**REPLACE/PHASE OUT FINAL 7
AMWASTE YARD WASTE ROUTES**

**11 ASL YARD WASTE ROUTES
IMPLEMENTED INTO SERVICE**

AUTOMATED GARBAGE, RECYCLING, YARD WASTE & BULK WASTE



OPERATIONS SUSTAINABILITY THE FUTURE

REQUESTED 14 CIVILIAN
WORKERS (14) TO HANDLE
THE COLLECTION ON ALL
REAR LOADERS IN
PREPARATION OF PROVIDING
YARD WASTE COLLECTION

PURCHASE ADDITIONAL
BLACK CARTS
PROVIDE RESIDENTIAL
WASTE AUDITS TO ENHANCE
RECYCLING

LIMIT THE NUMBER OF BAGS
AND THE TYPE OF BAGS
PLACED CURBSIDE FOR YARD
WASTE COLLECTION
(ORDINANCE CHANGE
REQUIRED)

ALL COLLECTIONS WILL BE
DONE ON THE SAME DAY
EFFECTIVE JANUARY 1, 2024

CHANGE COLLECTION DAYS
FROM MONDAY, TUESDAY,
THURSDAY, FRIDAY TO
MONDAY, TUESDAY,
WEDNESDAY, THURSDAY.

**OPERATIONS
SUSTAINABILITY
THE FUTURE
(CONT.)**

NEW HOLIDAY COLLECTION SCHEDULE: IF YOUR COLLECTION DAY FALLS ON A MONDAY HOLIDAY, YOUR COLLECTION DAY WILL BE TUESDAY.

FRIDAY – OFF/VEHICLE MAINTENANCE

OPPORTUNITY FOR CONTINUED PUBLIC/PRIVATE PARTNERSHIP WITH UPTOWN.

INVEST IN APPROPRIATE HIGH VOLUME “SOLAR” DIGITAL COMPACTION CANS FOR UPTOWN.

INVEST IN COMPACTORS, OPEN TOPS, ROLL OFF’S FOR CITY HALL, UPTOWN AND SPECIAL EVENTS TO LEASE AT A COST.

HIDE WASTE & CONTAIN WASTE

Cleaner, safer public spaces and improved guest experience

Fully Enclosed – Total Waste Containment

- No visible waste
- No windblown litter
- No pest access or pilfering

High-Capacity Compactors

- For High waste volume locations
- Reduced bin footprint
- Fewer interruptions due to waste collections

Smart – Fullness & Overflow Notifications

- Eliminates overflows
- Notifies when to collect

Hygienic

- Hands-free, no-touch interface
- No public exposure to waste
- Reduces workforce exposure to waste

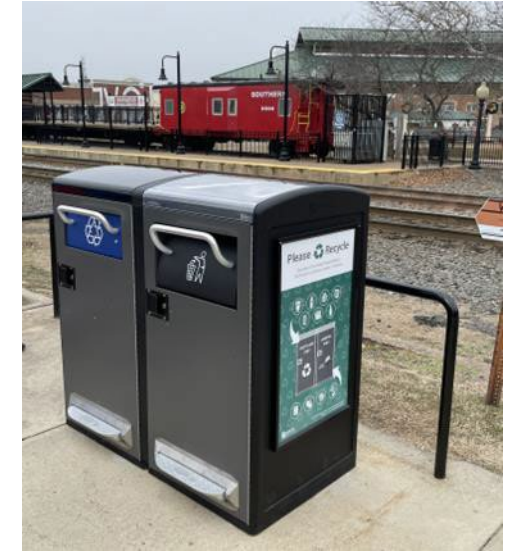
Traditional Bin



A TOTAL WASTE SOLUTION FOR PUBLIC SPACES



- ✓ Cleaner More Appealing Public Spaces
- ✓ Increased Productivity
- ✓ Achieve Sustainability Goals



Cleaner More Appealing Public Spaces • Bigbelly transforms public space cleanliness and aesthetics with total waste containment – eliminating overflows, visible waste, windblown litter, and critter access. Create cleaner, greener, safer pedestrian spaces with reduced truck traffic, noise & congestion.

Increased Productivity • Communities experience up to 80% collection reductions with a smart waste fleet and compaction technology. This results in decreased truck rolls, vehicle wear, and fuel consumption. Informed decision making with data and analytics enables labor to be reallocated to more meaningful projects. **3-5x the amount of waste as a standard bin (a Compaction Station holds as much as 150 gallons vs. standard traditional bin's 30-gallon capacity)**

Achieve Sustainability Goals • Introduce and measure the diversion rate of a public space recycling program. Bigbelly offers multiple streams at each station to encourage proper recycling. Reduce carbon footprint & greenhouse gas emissions with decreased fuel usage and vehicle pollution.

SMART WASTE BENEFITS

OPERATIONAL EFFICIENCY



Increased Capacity
(5x Traditional Bin)



Automated Real-Time
Collection Notifications



Real-Time Insights,
Analytics & Reporting

PUBLIC HEALTH, SAFETY & BEAUTIFICATION



Eliminates Food
Source, Reducing
Pests



No Visible Waste
or Overflows



Eliminates Pilfering
with Total Waste
Containment

SUSTAINABILITY



Uniform Public Space
Recycling Programs

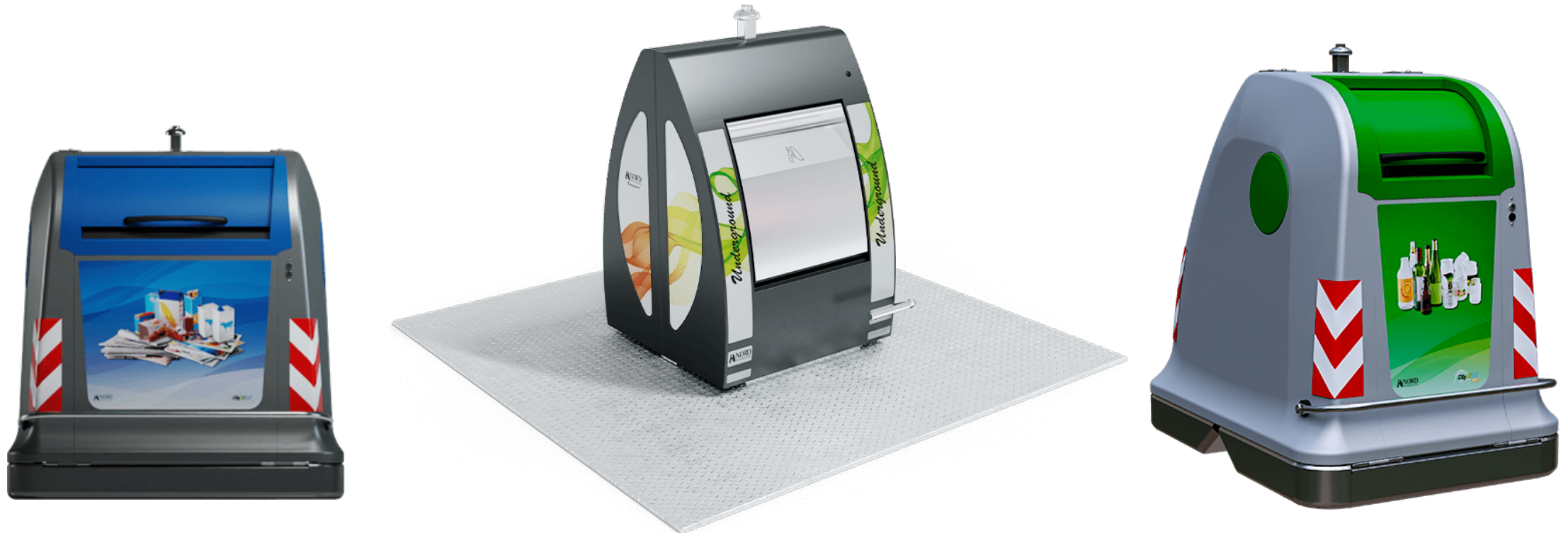


Measurable Recycling
Diversion Rates



Reduced Pollution &
Carbon Footprint

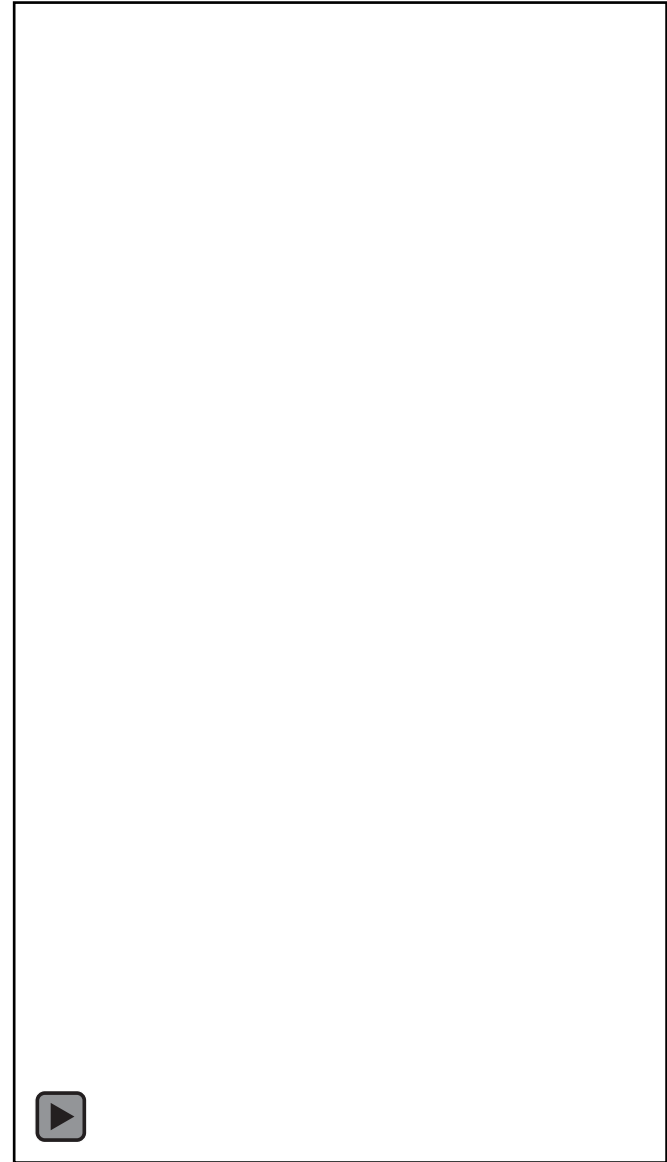
THE FUTURE OF INTEGRATED WASTE



ABOVEGROUND UNITS



EASE OF USE AND ADA COMPLIANT





RECYCLING COLLECTION

- **WE HAVE DISTRIBUTED APPROXIMATELY 35,000 CARTS TO CUSTOMERS**
- **ON AVERAGE WE SERVICE APPROXIMATELY 24,000 CUSTOMERS WEEKLY**
- **OUR RESIDENTIAL PARTICIPATION RATE IS APPROXIMATELY 35%**
- **RECYCLING PARTNERSHIP GRANT \$90,000 FOR CARTS, EDUCATION & OUTREACH PROGRAM**
- **SERDC: SOUTHEAST RECYCLING DEVELOPMENT COUNCIL GRANT \$25,000 FOR CARTS**
- **ENVIRONMENTAL PROTECTION DIVISION OF THE GEORGIA DEPARTMENT OF NATURAL RESOURCES GRANT \$187,872**

RECYCLING COLLECTION

- **THE RECYCLING COLLECTION SECTION CURRENTLY HAS 8 AUTOMATIC SIDE LOADERS THAT HAVE BEEN OPERATING SINCE 2020**
- **FUTURE: TOTAL NUMBER OF 11 ROUTES TO HANDLE THE ENTIRE CITY BECAUSE WE ARE USING ASL TRUCKS & 4 REAR LOADERS TO HANDLE THIS COLLECTION.**

RECYCLING CENTER



RECYCLING CENTER

• RECYCLE CENTER TONNAGE FIGURES FY23

- **10,584.05 TOTAL TONS INTAKE**
- **8,171 TOTAL TONS PROCESSED**
- **962 TONS PER MONTH PROCESSED**
- **221 TONS PER WEEK PROCESSED**
- **5.5 TONS PER HOUR PROCESSED**
- **\$428,676.54 TOTAL REBATE/REVENUE**
- **\$38,970.59 MONTHLY AVERAGE REBATE/REVENUE**

**RECYCLING
CENTER**

STAFFING LEVELS

NO VACANCIES

LANDFILLS

FIVE VARIOUS LANDFILLS

1. PINEGROVE – MSW/ACTIVE

2. GRANITE BLUFF – INERT/ACTIVE

3. SCHATULGA RD – MSW/CLOSED

4. OXBOW MEADOWS – INERT/CLOSED

5. WILSON CAMP- CLOSED

LANDFILLS PINE GROVE & GRANITE BLUFF STAFFING

STAFFING LEVELS

- **1 DIVISION MANAGER**
- **2 MAINTENANCE WORKERS**

INTEGRATED WASTE NEEDED EQUIPMENT/ REPLACEMENT

COMPACTOR

(3ea) \$1,031,145

D-7

(3ea) \$650,342

SKID STEER

(2ea) \$38,160

FRONT LOADER

(3ea) \$258,035

OFF ROAD TRUCKS

(4ea) \$422,329



RATE STUDY PRESENTATION
ABBY GOLDSMITH



QUESTIONS