

In This Issue:

- *Blueprint for Greater Levels of Diversion, Including Energy Recovery*
- *FleetRoute™ Helps ECUA Successfully Launch New Trash/Recycling Collection Services*
- *GBB Career Opportunities*
- *Conventions / Tradeshows*
- *GBB to Provide C&D Recycling Consulting for North Carolina's Mid-Currituck Bridge Project*
- *Recent GBB Assignments*
- *Updates from the Guam Receiver*
- *Chace Anderson a Regular Contributor to MSW Management*

GBB Career Opportunities

GBB is seeking professionals with strong experience and a background in one of the following areas of specialization to meet the growing needs of its clients:

- Technical Consultant
- Senior Project Managers with Collection Background/Experience
- Summer Internship in Solid Waste Management Consulting

This is a great opportunity to participate in GBB's growth and ownership.

Visit gbbinc.com/career to learn more and to send your résumé in confidence.

Equal Opportunity Employer, M/F/V

GBB Waste Outlook

Blueprint for Greater Levels of Diversion, Including Energy Recovery GBB Assisting Mojave Desert & Mountain Joint Powers Authority with Strategic Planning

The Mojave Desert and Mountain Recycling Authority is a California Joint Powers Authority (JPA), consisting of nine communities in the state's San Bernardino County high desert and mountain region. The JPA financed and manages the operations contract for the highly automated Victor Valley Material Recovery Facility (MRF). The MRF today receives and processes an average of 130 tons per day, five days per week, of single stream paper and containers and recyclable-rich commercial waste loads. The JPA has two strategies regarding process residue:

- Reducing residue rates from existing deliveries to optimize MRF operations;
- Increasing recovery for recycling by expanding the recyclable-rich and organics-dense waste load deliveries to the MRF and/or a composting facility.

In August 2008, the JPA contracted with GBB to prepare the Victor Valley Resource Management Strategy (Resource Management Strategy). Working with RRT Design and Construction, Inc., GBB prepared a coordinated forward-looking strategy to guide the JPA's future program and facilities decisions. The Resource Management Strategy focused on the Town of Apple Valley and the City of Victorville, the two largest JPA member communities with respective populations of 70,000 and 107,000, which have a combined total of more than 130,000 tons per year of material entering the JPA's recycling system and the Victorville Landfill.



Employees sorting material at Victor Valley MRF, located in Victorville, CA.

(Continued on page 2)

FleetRoute™ Route Optimization Software Helps Emerald Coast Utilities Authority Successfully Launch New Trash/Recycling Collection Services

Fast-Track Implementation of FleetRoute™ Contributes to Efficient Routing and Smooth Transition

In late 2008, the Emerald Coast Utilities Authority (ECUA) in Pensacola, FL, added 13,000 customers, made changes to trash collection services, and added recycling collection services. With the challenge of these upcoming major changes, and with very little time to react, ECUA selected GBB and technology partner C2Logix to assist in streamlining the operation, reducing costs, and ensuring a smooth transition. The fast-tracked implementation of the FleetRoute™ route optimization software resulted in balanced routes, reduced overtime, increased



trash/recycling collection efficiency, and easier integration of new clients to existing routes.

"We were facing a great challenge, and GBB's route optimization project team

(Continued on page 3)

Conventions & Tradeshows:

GBB will be present at the following industry events. We look forward to seeing you there!

North American Waste-to-Energy Conference

Chantilly, VA
May 18-20, 2009
Exhibitor (booth #109)
nawtec.org

SWANA's Landfill Planning & Management Symposium

Savannah, GA
June 1-4, 2009
John Roderique, Speaker
"Resurgence of WTE and Conversion Technologies."
"Planning for Greater Levels of Diversion Including Energy Recovery for the Mojave Desert and Mountain, California Region"
juneconference.swana.org

WasteExpo

Las Vegas, NV
June 9-11, 2009
Harvey Gershman, Speaker
"Waste Conversion Technologies: Fact or Fiction"
wasteexpo.com

MD Recycling Network & SWANA's Mid Atlantic Chapter Conference

College Park, MD
June 25-26, 2009
Frank Bernheisel & Kevin Callen, Speaker
"Routing innovations in Baltimore City"
marylandrecyclers.org

Biomass '09: Power, Fuels, and Chemicals Workshop

Grand Forks, ND
July 14-15, 2009
Harvey Gershman, Speaker
Waste-to-Energy
undeerc.org/biomass09/

Visit the conference / tradeshow section of our Website for a continuously updated list of events!

Blueprint for Greater Levels of Diversion, Including Energy Recovery

(Continued from page 1)

The Resource Management Strategy is underpinned by a visual characterization of nearly 300 waste loads delivered to the Victorville Landfill in the fall of 2008. The waste characterization indicated that as much as 80% of loads of residential and commercial waste landfilled could be processed for recycling and composting in a combination of manual and automated sorting facility. Loads sufficiently dry and containing primarily non-bulky materials were judged eligible for processing and recovery.

The Resource Management Strategy provided a conceptual design and cost that identified projected capital and operations costs that would be incurred to construct a new pre-processing system to separate out materials for recycling and composting from eligible loads. Based on the waste composition analysis, residue from a proposed system was estimated. This residue would be rich in combustible materials, sufficient to send to an energy recovery market.

Furthermore, the Resource Management Strategy sets the stage for JPA programs to address the December 2008 California Scoping Plan's mandates and priorities. The Scoping Plan, a roadmap for statewide greenhouse gas emission reduction efforts, specifically calls out mandatory commercial recycling, expanded organics composting, and inclusion of anaerobic digestion as renewable energy. The Resource Management Strategy assessed three cement manufacturers, located in the high desert region, for their potential to replace a portion of their coal fuel with residue from the MRF and potentially from other waste quantities generated in the region. Cement kilns are large consumers of fossil fuels, operate on a continuous basis, and collectively are California's largest source of greenhouse gas



Victor Valley MRF, located in Victorville, CA

emissions. Further processing requirements were also identified for size reduction and screening to remove non-combustible materials and produce a feasible refuse derived fuel (RDF). A conceptual design system to process residue and supply RDF to a cement kiln was developed, as were

estimated capital and operating costs to implement the RDF production system.

The Resource Management Strategy, by including separate collection of yard waste, food waste, and soiled paper, as well as the alternative to collect these materials in waste loads and recover them in a pre-processing system, successfully addressed the California Public Resources Code requirement that "all feasible source reduction, recycling, and composting measures" are implemented prior to approving any new "transformation" facility. This planning effort also provided a basis for greenhouse gas reduction analysis consistent with statewide initiatives to reduce landfill disposal.

As of Spring 2008, the JPA is implementing improvements to its MRF recommended by the Strategy, for reducing MRF residue. Also, the JPA is monitoring two food waste composting pilot projects being conducted at two regional facilities, while promoting the use of the commercial scale composting facility to commercial landscapers and other generators of commercial yard waste.

JPA Administrator John Davis is scheduled to make a presentation on this important project at the North American Waste-to-Energy Conference held May 18-20, 2009 in Chantilly, VA. John Roderique, GBB Vice President, will present the project at the SWANA Landfill Symposium and Planning & Management Conference to be held June 1-4, 2009, in Savannah, GA.

GBB to Provide C&D Recycling Consulting for North Carolina's Mid-Currituck Bridge Project

The North Carolina Turnpike Authority selected the Currituck Development Group (CDG) for the development of the Mid-Currituck Bridge project, a new 7-mile bridge in the Outer Banks of North Carolina. As part of the CDG, GBB will provide construction waste and demolition debris (C&D) recycling consulting services for the project.

One of the project's goals is to find a use, either on-site or elsewhere, for the C&D generated by the project. GBB will inventory the origin, type and quantities of all waste materials projected to be generated, including buildings, vehicles, and road materials to be removed. A specific waste management plan, including reuse/recycling opportunities and/or in some limited cases, disposal requirements, will be developed for each primary constituent material.

"GBB will also evaluate all construction materials needed for the project and incorporate on-site C&D materials wherever feasible," noted Bob Brickner, GBB Executive Vice President. "Typical examples include the grinding and processing of old concrete and asphalt materials into spec materials for reuse as base aggregate materials and/or Recycled Asphalt Pavement that can be easily incorporated into roadways, bike paths, walkways, and parking areas."

In addition, GBB will seek to reduce local stockpiles of recycled materials when and where it is feasible to do so. Being familiar with C&D processors in eastern North Carolina and Southeastern Virginia, the team will pursue opportunities to use third-party-generated recycled materials for various aspects of the project.

FleetRoute™ Route Optimization Software Helps Emerald Coast Utilities Authority Successfully Launch New Trash/Recycling Collection Services

(Continued from page 1)

greatly contributed to making the transition easier and successful," noted Randy Rudd, ECUA's Director of Sanitation. "We are now utilizing FleetRoute™ for both residential and commercial routes. The software makes route creation easier and more efficient than manual routing, especially given our high-growth environment."

ECUA, with its fleet of 80 trucks, provides solid waste and yard trash collection to 65,000 residential properties and commercial businesses within the unincorporated areas of Escambia County, Florida. Near the end of 2008, ECUA won the contract for the northern area of Escambia County, adding an additional 13,000 customers. At this time, ECUA also



changed to weekly trash collection from twice-a-week pickup and added weekly recycling collection. The GBB Project Team was able to incorporate the new customers, set up weekly recycling, and make the change to weekly collection in just over a month.

Since recycling collection was new to ECUA's customers, GBB added new customers and updated the recycling routes on a weekly basis for a month, with approximately 4,000 customers added each week. GBB then prepared the ECUA's data for use with FleetRoute™, and staff was trained to use the software and create/update routes in-house. GBB also implemented the Route Looker-Upper™, a web-based tool allowing residents to look up their new trash collection date.



Recent GBB Assignments

In the past few months, GBB has been selected for several new assignments, including:

- **Solid Waste Collection Cost Analysis**
City of Falls Church, VA
- **Co-Composting Financial Audit and Operations Performance Audit**
County of Maui, HI
- **Master Plan for Recycling Center**
Lexington-Fayette Urban County Government, KY
- **C&D Recycling Consulting**
(GBB as member of Currituck Development Group) North Carolina Turnpike Authority, NC
- **Solid Waste Procurement Services**
Rockbridge County, VA
- **Trash and Recycling Program Evaluation**
University of Virginia

We appreciate the opportunity to assist these clients with their needs.

Chace Anderson a Regular Contributor to *MSW Management*



GBB Vice President Chace Anderson has been a regular contributor to *MSW Management*, the journal for municipal solid waste professionals, for the past few years. Mr. Anderson has over 20 years of experience in the solid waste management field and has been placed in positions of turning around broken systems. In Nashville, TN, he was hired to undertake the reorganization of a broken waste management system that included neglected landfill management, a poorly working Waste to Energy facility, and an operational force with low morale with little positive management. Currently he is the Receiver Operations Manager for the United States Territory of Guam, as the United States Federal District Court has appointed GBB as the Receiver of Guam's Solid Waste Management Division.

Some of his articles include the following, which are available via the Media and Publications subsection of GBB's website at www.gbbinc.com/media_publications/

- The Characteristics of Waste Studies
- The World of Commercial and Institutional Collections
- Have You Heard The Latest About Automated Collection
- Retirement Tsunami
- HHW Professionalism
- Preventing a Nuisance



8550 Arlington Boulevard, Suite 304
Fairfax, VA 22031
800.573.5801 / Fax: 703.698.1306

www.gbbinc.com

Updates from the Guam Receiver GBB Completes First Year of Receivership

In a Court Order dated March 17, 2008, U.S. District Court Judge Frances M. Tydingco-Gatewood appointed GBB to be Receiver with full responsibility for bringing the Guam Solid Waste Management Division into compliance with the 2004 Consent Decree for violation of the Clean Water Act. The latest information about the receivership is available at: www.GuamSolidWasteReceiver.org

Start of Layon Landfill Construction

On January 30, a contract in the amount of \$8,360,000 was awarded, following an Invitation for Bid, to Guam-based Maeda Pacific Corporation for construction of the Landfill Operations Road and Mass Grading for Cells 1 and 2. Construction began February 25, 2009.

Special Report

On February 5, 2009, the Receiver submitted its comments on the Government of Guam's Response to the Receiver's Proposed Financing Plan. The Report concluded by reiterating that the Receiver continues to believe that certainty of capital funding is a fundamental and essential requirement of compliance with the Consent Decree. The Receiver stood by its recommendations to the Court for a cash payment plan, and added that it has always preferred and clearly stated its belief that a financing plan based on Section 30 backed revenue bonds is the best approach and the approach that is least disruptive to the Government of Guam and in the best interests of the people of Guam.

Court Order Requiring Government to Deposit Nearly \$1M/week for Landfill Projects

On February 13, 2009, the District Court of Guam Chief Judge Frances Tydingco-Gatewood issued an order requiring the government of Guam to begin weekly deposits of nearly \$1M for the landfill projects. On March 23, the Government started to comply with the Court Order with an initial payment of approximately \$4M to account for the current and past 3 missed payments. Subsequent to this Order the Guam Legislature authorized Section 30 backed Bonds and the Court suspended the weekly payments pending the sale of the bonds.

Community Meetings for Residential Services

In March 2009, three community meetings were held with Guam residents. The meetings were intentionally small in order to provide opportunities for candid, in - depth discussion of solid waste issues and the residential trash cart rollout plans. A series of stakeholder discussions was also held to obtain input from a select number of Mayors, environmentalists, school officials, business representatives and media regarding the Receiver's plans for implementing a new, cart - based collection system for customers of the SWMD.



obtaining input from a select number of Mayors, environmentalists, school officials, business representatives and media regarding the Receiver's plans for implementing a new, cart - based collection system for customers of the SWMD.

Transfer Stations Changing Schedule to Increase Convenience for Residents

As of April 5, 2009, the 3 Guam transfer stations are now open on Sundays and Mondays and closed on Tuesdays and Wednesdays. Based on feedback from Guam's Mayors and residents, the new schedule is more convenient for residents and will be an improvement for the entire community.

Quarterly Report

On April 14, 2009, the Receiver submitted its fourth Quarterly Report to the U.S. District Court of Guam. The complete Report is available in the documents section of www.GuamSolidWasteReceiver.org

RFP for Customer Service System

On April 22, 2009, an RFP was issued to purchase a customer service software for Guam's Solid Waste Division. This software will allow customer service representatives to accurately and quickly respond and track customers' needs.