

In This Issue:

- *GBB Assuming Responsibilities of the Guam Solid Waste Management Division*
- *C&D Recycling Facility a Confirmed Success Story in Portland, ME*
- *Speaker's Corner*
- *Conventions/Tradeshows*
- *Maui County's Draft Integrated Solid Waste Mgmt Plan Completed*
- *Transfer Services Procurement for Greater Detroit Resource Recovery Authority*
- *Recent GBB Assignments*
- *Santa Monica Approves Partnership Concept for Transfer & Recycling Services*
- *GBB Team Expands*

Speaker's Corner

**"Status of Waste-to-Energy and Conversion Technologies"
SWANA e-session**

This e-session, presented by Frank Bernheisel, GBB VP, provided a review of waste-to-energy (WTE) technologies as an element of integrated solid waste management systems. It included a brief look at plants worldwide with a focus on facilities, technologies and companies operating in the U.S. It also reviewed the results from the Clean Air Act retrofits in the U.S. and provided an overview of current economic parameters for WTE. Lastly, alternative technologies being promoted and considered in the U.S. in several active procurements and the risks and challenges associated with implementing these technologies were reviewed.

An overview of the presentation is available at: www.gbbinc.com/speaker/wte.pdf

GBB Waste Outlook

GBB Assuming Responsibilities of the Guam Solid Waste Management Division

United States District Court of Guam Appoints GBB as Receiver

On March 17, 2008, the United States District Court of Guam placed the Solid Waste Division of the Department of Public Works in Guam in Receivership for non-compliance with the Clean Water Act as set forth in a Consent Decree signed between the Government of Guam and the U.S. Environmental Protection Agency (U.S. EPA) on February 11, 2004. This Consent Decree ordered the Government of Guam to close the Ordot Dump, cease all discharges into the Lonfit River, open a new municipal solid waste landfill facility and develop and implement recycling and hazardous waste strategies to reduce the volume of materials disposed in the landfill.

In a Court Order, the Honorable Frances Tydingco-Gatewood, Chief Judge of the United States District Court of Guam, delegated full power and authority to GBB, as Receiver, to enforce the terms of the Consent Decree and assume all of the responsibilities, functions, duties, powers and authority of the Solid Waste Division.

The Territory of Guam is an island in the Western Pacific Ocean with a population



On-the-ground review of the Ordot Dump by GBB in Guam.

of over 173,000. The United States government is currently expanding the country's military presence on Guam, making the implementation of the Consent Decree of even greater importance to assure that Guam is able to effectively support all members of the Guam community, including the men and women of the armed services who will be based there.

Harvey Gershman, GBB President, is the overall Officer-in-Charge for this assignment; David L. Manning, GBB Special Principal Associate, serves as GBB's Receiver representative acting on behalf of GBB; and Chace Anderson, GBB Vice President, and Chris Lund, P.E., GBB Senior Project Engineer and former GEPA Chief Engineer, are other key members of the Project Team.

In early April, GBB launched the Guam Solid Waste Receivership Information Center Website, a resource providing information and documents on the project (www.GuamSolidWasteReceiver.org). After a comprehensive review of Court records and Department of Public Works docu-

(Continued on page 4)

C&D Recycling Facility a Confirmed Success Story in Portland, ME Not Just Going Through the Motions Yields Successful Public-Private Partnership

Almost three years after announcing the long-term agreement with a new contractor to run its C&D Riverside Recycling Facility, the City of Portland, ME, now has hard data confirming the educated hunch it had as the ink was still drying on the contract: they were entering into a public-private partnership that was destined to be a success for all involved.

Based on lower costs for operations and new revenues from more aggressive materials marketing, the bottom line is



(Continued on page 2)

Conventions & Tradeshows:

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

• MD Recyclers Coalition & SWANA Mid-Atlantic Chapter Conference

College Park, MD
June 25-26, 2008

• Old Dominion Chapter of SWANA Conference

Williamsburg, VA
June 25-27, 2008

Bob Brickner:

"State-of-the-Art C&D Recycling Facility in Fauquier County, VA"

• California Resource Recovery Association Conference

Burlingame, CA
August 3-6, 2008

Harvey Gershman:

Recycling Processing Panel

• Recycling & Sustainability Summit - Recycling Alliance of Texas

The Woodlands, TX
August 16-20, 2008

John Roderique:

"C&D Recycling Overview and Case Studies"

• North Carolina SWANA Fall Conference

Wrightsville Beach, NC
August 25-29, 2008

Harvey Gershman:

"Alternative Technologies to Landfilling"

• WTE Research & Technology Council Meeting

New York, NY

October 16-17, 2008

• Wastecon 2008

Tampa, FL

October 21-23, 2008

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

C&D Recycling Facility a Confirmed Success Story in Portland, ME

(Continued from page 1)

that the City is saving almost \$1,000,000/year under the new agreement. The expectations set forth in the summer of 2005 are finally becoming a reality.

In 2004, the City of Portland faced a situation where the operator's contract from 1996 had been amended several times and was set to expire. Major issues included little to no data regarding tonnages - overwhelmed immediately; no scales - all transactions initially by estimated volumes - lot of "freebie" tonnages; operator received a set management fee per month - no incentives to perform well; contract artificially limited operator's cash flow and hindered his ability to move materials; lack of direct City involvement with site management operation; material not moving; poor record keeping; fires; and unpleasant customer experience.

The City hired GBB to review the history and evolution of the existing Riverside Recycling Facility, evaluate the services being provided at Riverside, review the economics of the business arrangement with the Contractor and recommend options for moving forward once the current contract term expires.

In a press release published in August 2005, GBB Executive Vice President Bob Brickner noted something that rings even more true today, with the luxury of hindsight: "Jurisdictions that take a close look at the details of their operations and options can often generate important savings. The City of Portland had the foresight of questioning what they were doing and looking for expert opinions. They avoided simply going through the motions, and this decision will pay off for years to come."

Ultimately, GBB developed a Request for Proposals to find a partner with expertise in material handling; equipment or available capital to get equipment; demonstrated commitment to recycling and the ability to help the City clean up and rede-



velop the site. A new and improved Riverside Recycling Facility was born with a public-private partnership with the selected contractor, CPRC Group (formerly Commercial Paving and Recycling).

With the new contract, the City pays the contractor a set fee per ton on material leaving the facility (with exceptions); the contractor has financial incentive to recycle; the City controls the scale, the money and the customer service experience; the City keeps all tip fee revenue; and the contractor accepts ownership of the material as soon as it hits the ground. Incentives for the contractor are fees per ton equal to landfill transfer and disposal cost and raising their profit margin by finding lower cost alternatives to landfill.

Annual Savings of Almost \$1 Million

Two and a half years after starting the new and improved facility, approximate annual costs are \$350,000 (CRPC costs of \$3,000,000 minus revenue from commercial customers of \$2,650,000) as opposed to approximate former costs of \$1,280,000 (city operations of 16,000 tons + Resident "freebies" of 16,000 tons = 32,000 tons x \$40/ton) for an annual savings of almost \$1 million plus better customer service.

Mission accomplished!

An overview of a case study entitled "Evolution of Managing C&D in Portland Maine" is available at: www.gbbinc.com/speaker/portland.pdf

Maui County's Draft Integrated Solid Waste Management Plan Completed Plan Aims at 60% Diversion Rate from Current 36%

In mid-May, Maui County's draft Integrated Solid Waste Management Plan was completed and made available to the public. The Plan is the result of 10 months of concerted effort by the County's Department of Environmental Management and Solid Waste Division, the Solid Waste Resource Advisory Committee (SWRAC), and GBB. A series of public hearings will be held over the summer before the Plan is revised, if necessary, and submitted to the Hawaii Department of Health for final approval.

With a current state goal of 50% diversion, Maui County currently diverts 36% of its solid waste, which the SWRAC voted to improve to 60%. The major recommendations of the draft plan include:

- Providing single-stream curbside recycling collection and weekly trash collection;
- Providing residential curbside collection of white goods, bulky waste and household hazardous waste ;

- Developing MRFs to process recyclables and C&D waste;
- Implementing a landfill gas collection system and generating electricity from it;
- Increasing environmental education;
- Developing a transfer facility and convenience/recycling center;
- Consolidating certain base yards and developing a centrally located solid waste campus;
- Initiating C&D waste recycling programs; and
- Investigating technologies to convert waste to electricity.

The Draft Plan can be found via www.gbbinc.com/maui/

Transfer Services Procurement Underway for Greater Detroit Resource Recovery Authority GBB Assisting GDRRA with Extensive Procurement and Detroit-Area Expertise

The Greater Detroit Resource Recovery Authority (GDRRA) selected GBB to assist with the procurement process for transfer and disposal services for all of the waste stream currently coming into the large Authority refuse-derived fuel plant. By the end of the summer, and based on the current schedule, GBB will have helped complete a fast-track transfer services procurement for new 10-year contract(s) that will take effect on July 1, 2009.

"With Authority staff, we are approaching the GDRRA procurement from a strategic standpoint, rather than a simple call-for-bids, to foster proposers' participation and creativity in responses in order to maximize the Authority's return on investment and create win-win partnerships with selected contractors," noted Bob Brickner, GBB Executive Vice President. "Prices for six (6) options are being solicited, including certain yard waste composting and landfilling responsibilities."

In addition to its national procurement expertise, GBB is very familiar with the Detroit area, having assisted the neighboring Southeastern Oakland County Resource Recovery Authority (SOCRRA) in obtaining more competitive costs for collection, transfer station operation and disposal services in 2006. The SOCRRA effort led to impressive results that included:

- Long-term agreements yielding expected overall savings exceeding 16% as a whole when the proposed 2007/08 total cost of service is compared to 2006/07;
- Assured landfill disposal capacity; and
- The ability to expand recycling efforts.

Recent GBB Assignments

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

- **FleetRoute™ Route Optimization Software**
City of Stillwater, OK
- **Material Recovery Facility Feasibility Study**
City of Tucson, AZ
- **Development of Preliminary Implementation Plan for Cart-based Residential Trash Collection System**
City of Wilmington, DE
- **Landfill Assessment**
Emerald Coast Utilities Authority, Pensacola, FL
- **Transfer Procurement Services**
Greater Detroit Resource Recovery Authority, MI
- **C&D Webinar**
Lorman Education Services
- **Data Development**
National Demolition Association
- **Alternative Technologies**
Olver Associates/Orange County, NC
- **Guam Solid Waste Receivership**
United States District Court of Guam

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

Santa Monica Approves Public/Private Partnership Concept for Transfer and Recycling Services

The Mayor and City Council of Santa Monica, CA, conceptually approved a public/private partnership for transfer and recycling services that will help the City increase diversion rates and improve its infrastructure for handling solid waste and recyclables. The unanimous approval of GBB's recommendations triggers the next stage of negotiations based on the current Preliminary Term Sheet.

"The effort by the City of Santa Monica to modernize its solid waste recycling and disposal through a public private partnership extends back a full decade," said P. Lamont Ewell, Santa Monica City Manager. "A renewed effort by the City with professional guidance and support from GBB over the past two years has brought us to the goal line. We have an executed Preliminary Term Sheet with which to finalize Service Agreements so that implementation can go forward with our private partners. The City looks forward to its solid waste and recycling infrastructure becoming a model for decades to come."

Advantages of the partnership include making maximum use of the existing private facility; avoiding duplication of transfer capability; reducing total capital investment required by the City; providing the ability to receive and process selected commercial waste loads for greater diversion and recyclable revenues; lowering cost per ton transferred; and possibility of receiving a Host Fee for all non-City waste transferred.

Link to video of the presentation and City staff report at: gbbinc.com/santamonica/



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GBB Assuming Responsibilities of the Guam Solid Waste Management Division

(Continued from page 1)

ments, the Receiver team began on-the-ground operations in Guam in April 2008, which will continue without interruption until full compliance with the Consent Decree is achieved. While in Guam, the Receiver team conferred extensively with the Court, Guam's government officials and other key groups. The team also held a media briefing on April 25, during which they outlined the Receiver's objectives and provided an overview of solid waste management best practices.

A summary of the Receiver's initial findings is provided on the Receivership Website. To date, the Receivership has addressed the condition of equipment; realigned the Solid Waste Division organization; improved Ordot Dump operations; explored cooperation with military authorities on the new landfill and recycling; and began work on a draft Action Plan to be submitted to the Court in July 2008.

"We are honored to have been selected by the Chief Judge for this important assignment," said Harvey Gershman. "This will be challenging work for all involved, and GBB is up to the task. Our selection, we believe, is a testament to GBB's innovation, leadership, track record and proven ability to make change happen and generate success stories. In this assignment, GBB is responsible solely to the U.S. District Court of Guam but will work closely with the elected officials, public works, financial advisors, and other stakeholders in Guam to achieve full compliance with the terms of the Consent Decree in the most cost-effective and expeditious manner possible."

GBB Team Expands

John Roderique, P.E. - Vice President

Mr. Roderique is re-joining GBB as a Vice President. Originally with the firm in its early years and over the past ten years as a GBB Principal Associate, he has more than 30 years experience in solid waste management consulting, manufacturing industries, and business management. He holds a M.B.A., Finance, from New York University, and a B.S., Mechanical Engineering, from Louisiana State University.

Chris Lund, P.E. - Senior Project Engineer

Mr. Lund joins GBB as Sr. Project Engineer. Formerly Chief Engineer at the Guam Environmental Protection Agency, he is a key member of the GBB Guam Receivership Project Team. He has a B.S., Civil and Environmental Engineering, from the University of Wisconsin, Madison.

Jack L. Tucker - Senior Project Manager

Mr. Tucker joins GBB as Sr. Project Manager. He has over 27 years of experience in various levels of management and administration, and is the former Director of Operations at the Department of Public Works of the Metropolitan Government of Nashville and Davidson County. He will be a key member of the GBB Guam Receivership Project Team

Camilo Restrepo - Intern

Mr. Restrepo joins the firm for the summer as part of GBB's Internship Program. Originally from Colombia, he is currently a graduate student at the University of Maryland pursuing a Master's Degree in Environmental Engineering. A Fulbright Scholar, he has a Bachelor's degree in Environmental Engineering.

More information in the Press Release section of GBB's website.