Appendix 7-11 Safety and Training Record and Supporting Documents

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California Waste Solutions Safety Culture

INTERWEST
INSURANCE SERVICES, INC.

To Whom It May Concern:

We at InterWest Insurance Risk consulting group wish to recognize the exemplary safety programs developed by CWS. In 2009, CWS retained and partnered with InterWest Insurance Services Risk Consulting Group to develop internal management accountability practices to forward 'best practice' elements in safety culture leadership.

CWS has made an investment in their work force, recognizes the benefits of a strong safety culture and has utilized the growth of innovative human resource management tools, particularly in the area of safety compliance, leadership training and behavior-based learning. Research has demonstrated that behavior modification principles, properly applied, contribute to measurable reductions in unsafe acts, and consequent reductions in accidents and injuries. Leadership skills can be enhanced through training, and safety program implementation is an excellent platform for supervisors to exercise "transformational" leadership skills that can be applied to all aspects of their work.

Working with the premise that human factor risk reduction is the most effective approach to assuring a consistently safe workplace, we developed and implemented programs built around management and training systems that support and facilitate behavioral change. Integrating an adult learning focused methodology into training reaps benefits in improved safety performance. Additionally, as supervisors improved their training skills, production and quality gains have been made as well.

Specific knowledge areas that CWS has addressed include: Behavior-Based Safety approaches; Safety Culture Assessment; Organizational Change Management, Principles; methodologies and practices of adult education and instructional design; and, Web-based safety management.

Essential Elements of CWS Safety

Injury and Near-Miss trending and mitigation response	Safety culture survey and assessment; compliance audit
Train-the-Trainer courses for supervisors and managers (bilingual Spanish/English)	Integrated safety performance: bringing together inputs, delivery, management and organization of services related to diagnosis assessment

www.iwins.com
OFFICE PH: (925) 977-4100
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Lic.# 0B01094
North Tower
100 Pringle Avenue, Suite 550
Walnut Creek, CA 94596

Let our experience guide you.

Employee training (bilingual Spanish/English)	Adult learning styles and training tool development and delivery
Development of non-routine Hazardous Job Analysis	Behavior-based Safety leadership training for supervisors and managers
Accident investigation, Incident/Root Cause Analysis Review Committee	Safety One-On-One Behavioral Documentation on-line & in the "cloud"
Supervisorial development of Videoed Safety Training for Hazardous Processes	Online Safety Management System, Injury Report System, and Property Risk Manager System

California Waste Solutions is constantly looking for the most effective approach to work with the unique challenges of each job hazard. They provide professional training and bi-lingual assistance to meet the individual employee needs. CWS further employs safety approaches that have achieved excellent results by incorporating the best in technology, adult learning techniques and positive reinforcement.

Best Regards,

Connie Roberts, ARM, SPHR
Risk Consultant
INTERWEST INSURANCE SERVICES, INC.
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CALIFORNIA HIGHWAY PATROL

hereby awards this

Certificate of Achievement

to

CALIFORNIA WASTE SOLUTIONS

1819 10TH ST
OAKLAND, CA 94607

2 Consecutive Satisfactory Ratings
Since MARCH 14, 2005

There is established in the California Vehicle Code a biennial motor carrier safety compliance inspection program to be conducted by the California Highway Patrol. That program, known as the Biennial Inspection of Terminals (BIT) Program, requires all motor carriers operating trucks from terminals located in California to undergo an inspection of each operational terminal to rate their compliance with applicable laws and regulations relating to motor carrier safety.

This is to certify that this terminal has achieved consecutive satisfactory safety compliance ratings as indicated above. The California Highway Patrol congratulates this terminal on this meritorious achievement and recognizes the commitment to highway safety demonstrated by the personnel responsible for the operation of this terminal.

4-17-12

COMMISSIONER
DEPARTMENT OF CALIFORNIA HIGHWAY PATROL

CHP 341 (11-93) OPI 062

CALIFORNIA WASTE SOLUTIONS TRAINING CALENDAR 2011- 2012

	All	Collection	MRF	Mechanics
January	IIPP Work Right to Know MSDS - Secondary Containment	Defensive Driving Time Sensitive Zones Low roof, wires.	Material Handling	
February	LOTO Blood borne Pathogens	Citation Notification	Confined Space	Confined Space
March	Fire Prevention Fire Extinguisher Training Inspection	Commercial Vehicle Speed Limit Alley Ways/One Way Streets	Ladder Safety Hearing Conservation	Ladder Safety
April	Ergonomics/Body Postion PPE- High Visibility Clothing	Company Policy Backup Camera	Machine Guarding	Machine Guarding Face Shields Welding
May	Knowing Your Work Enviroment Heat Stress Prevention	Company Policy Battery Disconnect Switch	Bale Wire Cutting	
June	Emergency Action Plan Evacuation Drill	Company Policy Fuelling Trucks	Bale Cleaning	
July	Accident Investigation & Reporting Near Misses W.C. Fraud	Air Brake PTO Air Brake Type Check Air Brake Stopping Distance	Material Hairball removing	
August	Violence in the Workplace Sex Harassment Alcohol in the Workplace	Emergency Warning Devices	Use of hand Tools	Use of hand Tools
September	Pre-Post Trip Equipment Inspection DVIR Completion Seat Belts	Freeway Lane Choice Competing Traffic	Forklift Training	
October	Spill Prevention Storm Water Pollution Prevention	Inattention Driver Pro-action and Reporting		
November	Housekeeping		Cleaning Bales	
December	Slips Trip & Falls	Cell Phone Policy	Cell Phone Policy	Cell Phone Policy

CWS Compa Safety Record

CWS Year 2007, 2008, 2009,2010, 2011, 2012

	Year					
	2007	2008	*2009	2010	2011	**2012
MOD	99	121	101	109	106	85
TRIR	10.49	13.16	7.82	6.80	4.48	4.00
LWIR	7.38	8.13	5.95	5.67	3.59	2.66
Fatalities	0	0	0	0	0	0
Man-hours worked	514,774	516685	537425	432264	445970	337895

*See attached letter of explination of a thrid party related injury reported on CWS' TRIR & DART & LTC

** Represent January 2012 to September 2012

CNA Risk Control
555 Mission Street Suite 200
San Francisco, CA 94105

Robert Simon
Risk Control Consultant
Cell 916-730-5177
Facsimile 1-866-622-7519
Email Robert.Simon2@cna.com

September 27, 2012

Leticia Jauregui, Safety & Environmental Officer
California Waste Solutions
1005 Timothy Dr
San Jose, CA 95133

Re: Risk Control Service Visit on September 19, 2012
1005 Timothy Drive, San Jose, CA

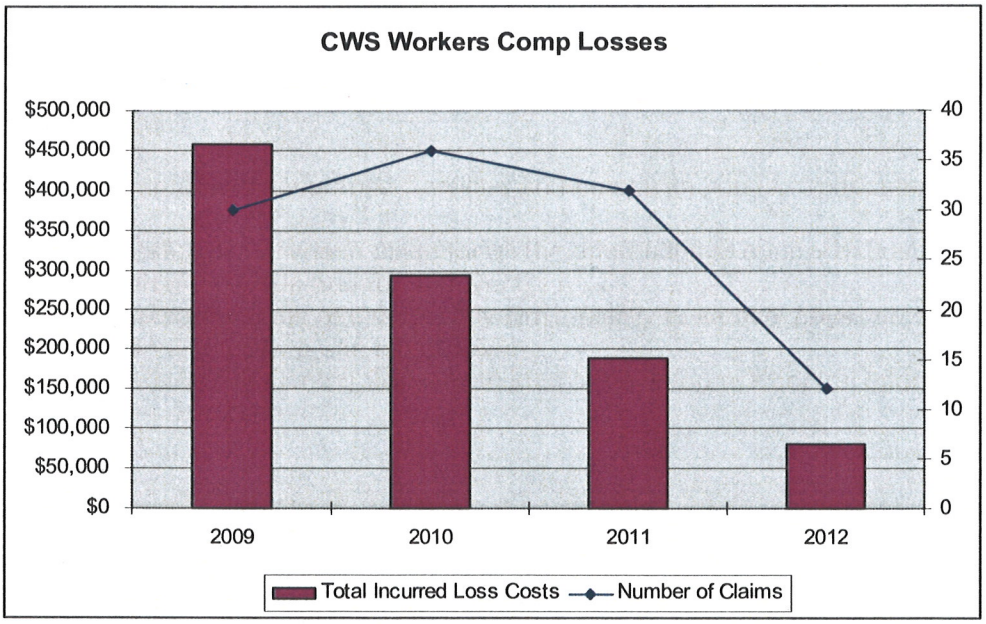
Dear Ms. Jauregui:

Connie Roberts, Interwest Insurance Services and I met with you to conduct the following:

- Discuss safety initiatives in place for all the operations to control exposures to production employees and route drivers.
- Conduct a safety audit of the Timothy Drive facility to identify physical hazards and observe employee safety behaviors.
- Discuss CNA Risk Control Services to supplement you risk control efforts.

Loss Analysis

The workers compensation claims for the past four policy periods are shown below:



The loss costs have been declining over the past 4 years. The number of accidents for the current policy shows a significant decrease which if continues will be well below last year. The experience modifier has confirmed this trend. Implementation of the various safety initiatives is being reflected in the decreased losses.

Accomplishments/Evaluations

Safety Programs and Processes

Interwest Insurance Services continues to provide monthly service with focus on program improvement and behavior based safety. Highlights of this progress are listed below:

- The Injury & Illness Prevention Program has been revised with all employees trained in November 2011.
- Job Hazard Analysis' have been completed for various maintenance jobs that now have specific safe procedures. Employees have been trained on these procedures.
- Emergency Action Plans have been updated and expanded with training completed for all employees.
- Return to Work procedures have been updated to improve the process and ensure injured employees can be returned to work.
- There are good return to work procedures in place, but you will be improving the formal procedures. I sent you the most recent Risk Control Technical Bulletin on the Return to Work process as a reference.

Timothy Facility Safety Survey

- Evacuation routes posted throughout facility to assist with egress in event of an emergency.
- Adequate lighting was noted on stairwells and mezzanine areas.
- Eye wash stations provided throughout facility. These were tagged and inspected regularly with solution changed every 90 days.
- Portable fire extinguishers were noted to be properly mounted, tagged and inspected annually.
- Employees were wearing proper personal protective equipment and working in a safe manner.
- Proper railings provided for stairs and work platforms on the sorting lines. We did discuss the use of toeboards on platforms. OSHA regulations discusses the need for a toeboard when these conditions exist beneath the open sides-
    1. Persons can pass
    2. There is moving machinery
    3. Equipment with which falling materials could create a hazard.

  This does not seem to be the case in the platform in question. If so, then no toeboard would be required.
- The outside dock area also has an open side with approximately a 4 foot distance to the ground. There are no OSHA regulations that require a guardrail to protect the open edge of a loading dock. This does not mean you can go beyond OSHA regulations to protect the edge. At the very least, the edge should be painted a reflective yellow to provide a better view of the edge.

- The production line did have some restricted access with garbage cans full of items pulled off the line. Increased frequency of dumping these containers could help reduce the congestion.

Suggestions for Improvement

1. Paint the outdoor dock edge reflective yellow or similar color to help identify the change in elevation.

2. Increase the frequency of removal of the rejected items on the conveyor sorting lines as the full garbage containers restricted employee access along the mezzanine areas.

Recommendations

No formal recommendations warranted from this visit.

Risk Control Services

We discussed the various Risk Control Services available on our CNA website. We offer specific on-line safety training that may be able to supplement your existing programs. Our School of Risk Control Excellence (SORCE) provides Webinars, online training, and face-to-face classes covering emerging issues and industry-related topics. You can access all our safety materials and resources at: www.cna.com/riskcontrol.

If you have any questions or need any other Risk Control assistance, please give me a call.

Sincerely,

Bob Simon

Bob Simon, CSP, ALCM
CNA Risk Control Services
(916)730-5177
For safety information visit www.cna.com/riskcontrol

1cc: Kristina Duong – California Waste Solutions kristinaduong@calwaste.com
1cc: Joel Corona – COO California Waste Solutions joelcorona@calwaste.com
1cc: Antoinette Penton – HR Mgr California Waste Solutions antoinettepenton@calwaste.com
1cc: Michelle Goodwin – Interwest Insurance Services mgoodwin@iwins.com
1cc: Connie Roberts – Interwest Insurance Services croberts@iwins.com
1cc: Steve Morrow – CNA Underwriting

CNA Insuring Companies:
American Casualty Company

Appendix 7-12 Waste Characterization Reports

Single Family Solid Waste Generated, as Percentage of Whole			
Material *Notes: 0.0% ≠ 0 tons, values may be rounded to 0.* *Individual material percentages are as reported; categories may not add up to 100% due to methodologies and data reported.* *x Indicates this item not reported separately or as a category.*	**Sunnyvale** (City Waste Survey)	**Oakland** (RW Beck study)	**Alameda** (RW Beck study)
Paper			
Uncoated OCC	2.90%	0.81%	0.50%
High Grade Paper		0.32%	0.40%
ONP	1.60%	0.41%	0.90%
Mixed Recyclable Paper		3.01%	3.10%
Compostable Paper	6.50%	15.59%	17.50%
Other paper	4.4	0.80%	0.90%
Subtotal, all papers	**22.90%**	**20.94%**	**23.30%**
Plastic			
PET bottles	0.30%	0.52%	0.60%
HDPE containers (<1 gallon)	0.30%	0.46%	0.50%
Other plastic containers (3-7)	0.50%	0.85%	1.00%
Expanded polystyrene food packaging	0.50%		
Expanded polystyrene blocks	0.20%	0.23%	0.10%
Durable plastic items or mixed rigid plastics	1.20%	2.54%	3.10%
Plastic bags	0.70%	1.11%	1.70%
Other film (not bags, industrial, or merchandise)	1.70%	4.91%	5.10%
Other plastics	0.60%	1.34%	1.50%
Subtotal, all plastics	**7.70%**	**11.96%**	**13.60%**
Glass			
Glass containers	0.60%	2.76%	2.40%
Other glass	0.20%	0.39%	0.40%
Subtotal, all glass	**0.80%**	**3.15%**	**2.80%**
Metal			
AL cans	0.10%	0.13%	0.20%
Tin/steel cans	0.60%	0.89%	1.00%
Appliances	0.00%	0.01%	0.00%
Other ferrous	1.40%	1.61%	1.80%
Other non-ferrous	0.50%	0.39%	0.50%
Subtotal, all metal	**4.50%**	**3.04%**	**3.50%**
Organics			
Food	33%	33.84%	32.80%
Untreated lumber		0.81%	0.50%
Pallets		0.00%	0.00%
Diapers	4.20%	4.67%	5.70%
Manure	2.70%	2.33%	2.90%
Other organics		0.75%	0.90%
Leaves and Grass	1.60%	2.43%	1.70%
Prunings and trimmings	1.20%	1.27%	1.00%
Textiles	2.70%	4.46%	4.20%
Subtotal, all organics	**46.90%**	**50.56%**	**49.70%**
C&D			
Crushable inerts		1.37%	1.10%
Other inerts		2.06%	2.40%
Gypsum board	0.00%	1.18%	0.40%
Asphalt roofing	0.00%	0.00%	0.00%
Concrete	1.30%		
Treated wood (all)	2.70%	3.28%	1.40%
Carpet and carpet padding	0.50%	0.72%	0.30%
Rock soil and fines	2.10%		
Subtotal, all C&D	**9.70%**	**8.61%**	**5.60%**
HHW			
Paint/Adhesives	0.00%	0.04%	0.00%
Vehicle and equipment fluids	0.00%	0.00%	0.00%
Universal hazardous waste		0.21%	0.10%
Medical waste		0.06%	0.10%
Medicine		0.05%	0.10%
Other hazardous waste		0.00%	0.10%
Covered E-waste		0.01%	0.00%
Other E-waste		0.26%	0.30%
Electronics, undifferentiated	0.90%		
Subtotal, all HHW	**0.10%**	**0.63%**	**0.70%**
Special			
Brown goods		0.00%	0.30%
Composite Bulky Items	3.80%	0.12%	0.30%
Other special waste		0.20%	0.00%
Tires	0.20%	0.00%	0.00%
Subtotal, Special	**4.00%**	**0.32%**	**0.60%**

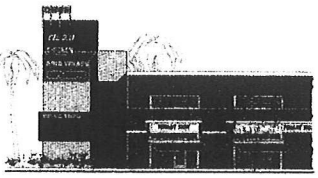
Multifamily Solid Waste Generated, as Percentage of Whole			
Material *Notes: 0.0% ≠ 0 tons, values may be rounded to 0.* *Individual material percentages are as reported; categories may not add up to 100% due to methodologies and data reported.* *x Indicates this item not reported separately or as a category.*	**Sunnyvale** (City Waste Survey)	**Oakland** (RW Beck study)	**Alameda** (RW Beck study)
Paper			
Uncoated OCC	6.60%	0.89%	1.30%
High Grade Paper		0.93%	0.70%
ONP	1.80%	0.79%	1.30%
Mixed Recyclable Paper		3.32%	4.30%
Compostable Paper		18.05%	17.10%
Other paper		0.81%	0.90%
Subtotal, all papers	**21%**	**24.78%**	**25.60%**
Plastic			
PET bottles	0.40%	0.71%	0.80%
HDPE containers (<1 gallon)	0.50%	0.67%	0.70%
Other plastic containers (3-7)	0.20%	0.87%	1.00%
Expanded polystyrene food packaging	0.40%		
Expanded polystyrene blocks	0.00%	0.20%	1.70%
Durable plastic items or mixed rigid plastics	1.90%	3.81%	3.60%
Plastic bags	0.80%	1.82%	1.70%
Other film (not bags, industrial, or merchandise)	1.00%	4.46%	4.50%
Other plastics	0.40%	1.13%	1.30%
Subtotal, all plastics	**7.60%**	**13.68%**	**15.30%**
Glass			
Glass containers	1.10%	3.19%	3.3
Other glass	0.10%	0.50%	0.6
Subtotal, all glass	**1.20%**	**3.70%**	**3.8**
Metal			
AL cans	0.50%	0.20%	0.30%
Tin/steel cans	0.50%	0.95%	0.90%
Appliances	0.00%	0.23%	0.20%
Other ferrous	0.10%	2.04%	2.40%
Other non-ferrous	0.10%	0.46%	0.60%
Subtotal, all metal	**1.70%**	**3.88%**	**4.40%**
Organics			
Food	21.30%	27.01%	25.90%
Untreated lumber	0.00%	0.34%	0.90%
Pallets	0.00%	0.00%	0.10%
Diapers	3.10%	4.67%	4.80%
Manure	0.20%	2.33%	1.80%
Other organics	0.20%	0.75%	0.70%
Leaves and Grass	10.20%	3.05%	2.70%
Prunings and trimmings	2%	1.25%	1.00%
Textiles	2.20%	6.60%	6.10%
Subtotal, all organics	**38%**	**46.00%**	**44.00%**
C&D			
Crushable inerts		0.86%	1.00%
Other inerts		4.13%	2.70%
Gypsum board	0.00%	0.21%	0.20%
Asphalt roofing	0.00%	0.00%	0.00%
Concrete	0.00%		
Treated wood (all)	1.40%	1.30%	1.80%
Carpet and carpet padding	0.60%	0.46%	0.60%
Rock soil and fines	0.00%		
Subtotal, all C&D	**19.10%**	**6.96%**	**6.30%**
HHW			
Paint/Adhesives	0.00%	0.18%	0.10%
Vehicle and equipment fluids	0.00%	0.14%	0.10%
Universal hazardous waste		0.02%	0.10%
Medical waste		0.01%	0.10%
Medicine		0.03%	0.00%
Other hazardous waste		0.02%	0.10%
Covered E-waste		0.00%	0.30%
Other E-waste		0.02%	0.30%
Electronics, undifferentiated	0.40%		
Subtotal, all HHW	**0.40%**	**0.42%**	**1.10%**
Special			
Brown goods		0.00%	0.40%
Composite Bulky Items	4.50%	0.12%	0.60%
Other special waste		0.20%	0.00%
Tires	0.20%	0.00%	0.10%
Subtotal, Special	**4.70%**	**0.32%**	**1.10%**

Commercial Solid Waste Generated, as Percentage of Whole			
Material *Notes: 0.0% ≠ 0 tons, values may be rounded to 0.* *Individual material percentages are as reported; categories may not add up to 100% due to methodologies and data reported.* *× Indicates this item not reported separately or as a category.*	**Sunnyvale** (City Waste Survey)	**Oakland** (RW Beck study)	**Alameda** (RW Beck study)
Paper			
Uncoated OCC	*2.90%*	1.09%	2.10%
High Grade Paper		0.67%	1.20%
ONP	*2.50%*	0.67%	0.90%
Mixed Recyclable Paper		3.81%	4.30%
Compostable Paper		19.99%	18.00%
Other paper		1.33%	1.20%
Subtotal, all papers	**22.50%**	**27.56%**	**27.70%**
Plastic			
PET bottles	*0.30%*	0.54%	0.60%
HDPE containers (<1 gallon)	*0.30%*	0.52%	0.60%
Other plastic containers (3-7)	*0.40%*	0.64%	0.80%
Expanded polystyrene food packaging	*0.40%*		
Expanded polystyrene blocks		0.18%	0.20%
Durable plastic items or mixed rigid plastics	*1.80%*	3.01%	3.60%
Plastic bags		1.11%	1.10%
Other film (not bags, industrial, or merchandise)	*2%*	5.98%	6.40%
Other plastics		1.43%	1.50%
Subtotal, all plastics		**13.41%**	**14.80%**
Glass			
Glass containers	1.20%	1.88%	1.90%
Other glass	0.20%	0.69%	0.70%
Subtotal, all glass	**1.50%**	**2.57%**	**2.60%**
Metal			
AL cans	*0.10%*	0.19%	0.20%
Tin/steel cans	*0.50%*	0.68%	0.70%
Appliances	*0.00%*	0.04%	0.10%
Other ferrous	*1.90%*	2.09%	2.50%
Other non-ferrous	*0.80%*	0.47%	0.50%
Subtotal, all metal	**5.40%**	**3.47%**	**4.00%**
Organics			
Food	*22.50%*	27.46%	26.10%
Untreated lumber		1.72%	2.10%
Pallets		0.40%	0.90%
Diapers		1.99%	2.20%
Manure		0.42%	0.60%
Other organics		2.27%	1.20%
Leaves and Grass	*4.50%*	4.35%	3.00%
Prunings and trimmings	*4.70%*	1.49%	1.30%
Textiles	*1.50%*	3.64%	3.10%
Subtotal, all organics	**35.50%**	**47.30%**	**40.50%**
C&D			
Crushable inerts		1.06%	2.10%
Other inerts		3.16%	2.10%
Gypsum board		0.08%	0.50%
Asphalt roofing		0.03%	0.20%
Concrete	*3.60%*		
Treated wood (all)	*6%*	3.34%	3.10%
Carpet and carpet padding	*2.60%*	0.00%	0.70%
Rock soil and fines	*0.40%*		
Subtotal, all C&D	**12.60%**	**7.67%**	**8.70%**
HHW			
Paint/Adhesives		0.17%	0.10%
Vehicle and equipment fluids		0.01%	0.00%
Universal hazardous waste		0.05%	0.10%
Medical waste		0.04%	0.10%
Medicine		0.03%	0.00%
Other hazardous waste		0.06%	0.10%
Covered E-waste		0.00%	0.40%
Other E-waste		0.67%	0.10%
Electronics, undifferentiated	0.60%		
Subtotal, all HHW	**0.60%**	**1.03%**	**0.90%**
Special			
Brown goods		0.00%	0.20%
Composite Bulky Items		0.12%	0.50%
Other special waste		0.20%	0.10%
Tires	0.00%	0.22%	0.20%
Subtotal, special	**0.00%**	**0.54%**	**1.00%**

C&D Solid Waste Generated, as Percentage of Whole			
Material *Notes: 0.0% ≠ 0 tons, values may be rounded to 0.* *Individual material percentages are as reported; categories may not add up to 100% due to methodologies and data reported.* *× Indicates this item not reported separately or as a category.*	**Sunnyvale** (City Waste Survey)	**Oakland*** (RW Beck study)	**Alameda*** (RW Beck study)
Paper			
Uncoated OCC	*0.90%*		
ONP	*0.00%*		
Subtotal, all papers	**1.80%**		
Plastic			
PET bottles	*0.00%*		
HDPE containers (<1 gallon)	*0.00%*		
Other plastic containers (3-7)	*0.00%*		
Expanded polystyrene food packaging	*0.00%*		
Durable plastic items	*0.30%*		
Other film (not bags, industrial, or merchandise)	*0.00%*		
Subtotal, all plastics	**2.30%**		
Glass			
Glass containers	0.00%		
Other glass	0.10%		
Subtotal, all glass	**0.70%**		
Metal			
AL cans	*0.00%*		
Tin/steel cans	*0.00%*		
Appliances	*0.10%*		
Other ferrous	*2.00%*		
Other non-ferrous	*0.10%*		
Subtotal, all metal	**3.90%**		
Electronics	**0.70%**		
Organics			
Food	*0.40%*		
Leaves and Grass	*2.80%*		
Prunings and trimmings	*1.70%*		
Textiles	*0.10%*		
Subtotal, all organics	**5.50%**		
C&D			
Concrete	*3.20%*		
Treated wood (all)	*3.10%*		
Carpet and carpet padding	*0.50%*		
Rock soil and fines	*41.60%*		
Subtotal, all C&D	**83.90%**		
Subtotal, all HHW	**0.30%**		
Subtotal, tires	**0.00%**		

*This category of generator was combined with all generators utilizing roll-off containers, including all open-tops and compactors, and also including multi-family and commercial generators. For this reason, C&D generation cannot be isolated in the published data.

Appendix 7-13 Letter From OMSS



OMSS
Oakland Maritime Support Services, Inc.

Oakland Maritime Support Services Center

December 15, 2012

SENT VIA E-MAIL & U.S. MAIL

Ms. Kristina Duong
California Waste Solutions
1820 10th Street
Oakland, California 94607

Dear Ms. Duong:

Oakland Maritime Support Services (OMSS) is pleased to learn about the progress of your expansion to the Oakland Army Base property near the Port of Oakland. We would be pleased to accommodate your firm with parking for your collection and transport fleet during the transitional period of time before you occupy your new facility in the North Gateway at Wake Avenue and Engineers Road.

Our new OMSS facility will provide 17 acres of premium parking and support service for trucks. Upon completion of the facility, OMSS agrees to lease to California Waste Solutions (CWS) land with available Diesel, Biodiesel, CNG and LNG fueling capability for the domicile and support for between 50 and 150 collection vehicles. We will have more than ample space for your fleet during the period of time that you described -- beginning January 2015 through December 2016, or at such date when the new CWS facility is fully operational at the new North Gateway location.

Services for CWS trucks will include the following in General Terms:

OMSS will provide:

- Fenced & lighted parking spaces
- 24-hour security & camera
- 24-hour access for CWS employees
- Access to Fueling and Service by CWS representative
- Facilities for CWS drivers

CWS will provide:

- List of all trucks and trailers to be domiciled with CA & DOT numbers, registration and insurance information
- DTSC list for equipment, Fluid and Fuel in trucks

A formal agreement between OMSS and CWS will follow this Term Sheet to include the terms of parking and leasing amount.

Please call me at (510) 604-0466 if you should have any questions.

Sincerely,

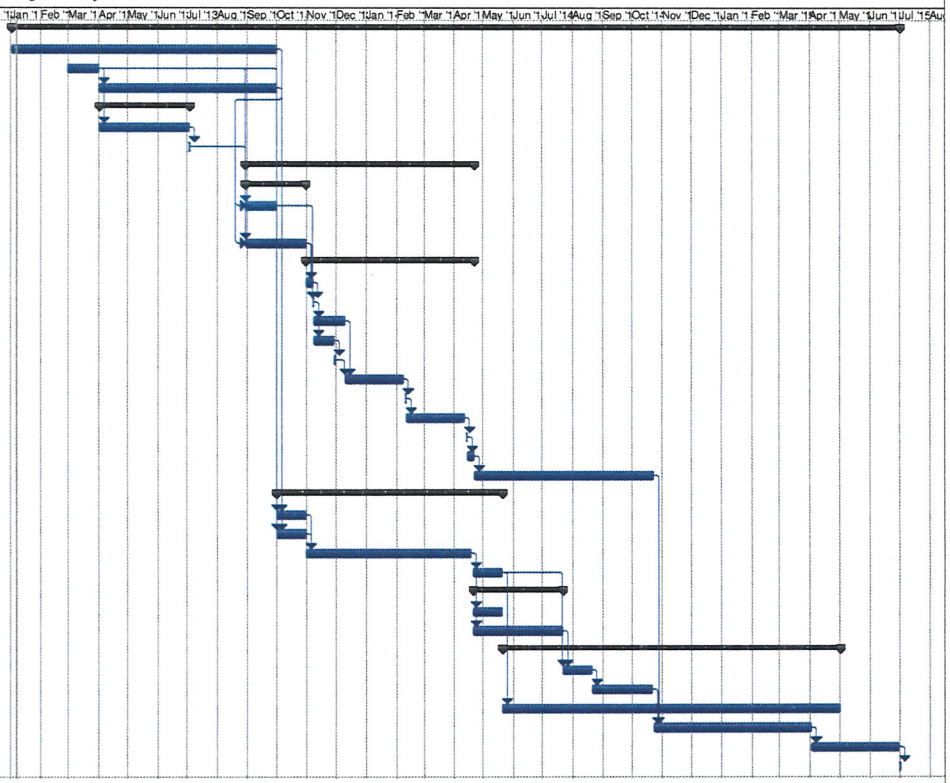
William I. Aboudi
President

bill@oaklandmss.com | (510) 604-0466

Appendix 7-14 Oakland Gateway Facility Supporting Materials

California Waste Solutions
North Gateway Recycling Facility

ID	Task Name	Duration	Start	Finish	Predecessors
1	**CWS North Gateway Recycling Facility Project (NGRF)**	**651 days**	**Wed 1/2/13**	**Wed 7/1/15**	
2	Complete Property Acquisition with City of Oakland	194 days	Wed 1/2/13	Mon 9/30/13	
3	Prepare Permit Level Facility Design Drawings	22 days	Fri 3/1/13	Mon 4/1/13	
4	Complete Enviromental Review Process and Zoning through City of Oakland	130 days	Tue 4/2/13	Mon 9/30/13	3
5	**Facility Included in Countywide Siting Element**	**67 days**	**Tue 4/2/13**	**Wed 7/3/13**	
6	Application for Inclusion in Countywide Non-disposal Facility Siting Element and Public Meeting Notification	66 days	Tue 4/2/13	Tue 7/2/13	3
7	Public Meeting and Approval for Inclusion in Siting Element	1 day	Wed 7/3/13	Wed 7/3/13	6
8	**Receive Facility Operating Permits**	**167 days**	**Fri 8/30/13**	**Mon 4/21/14**	
9	**Prepare Transfer Processing Report**	**44 days**	**Fri 8/30/13**	**Wed 10/30/13**	
10	Meet with Local Enforcement Agency (LEA) (County of Alameda, Department of Environmental Health) and Cal Recycle to Dicuss the Project	22 days	Fri 8/30/13	Mon 9/30/13	4FS-22 days,7
11	Update Drawings and Prepare Transfer Processing Report (TPR)	44 days	Fri 8/30/13	Wed 10/30/13	3,4FS-22 days
12	**Solid Waste Facility Permit (SWFP) for NGRG**	**123 days**	**Thu 10/31/13**	**Mon 4/21/14**	
13	Prepare Application for a SWFP w/ TPR	5 days	Thu 10/31/13	Wed 11/6/13	11
14	Submit Complete Application w/ TPR to LEA	1 day	Thu 11/7/13	Thu 11/7/13	13,10
15	LEA Reviews Application and Deems Complete	22 days	Fri 11/8/13	Mon 12/9/13	14
16	Informational Meeting Notification for SWFP	15 days	Fri 11/8/13	Thu 11/28/13	14
17	LEA Conducts Informational Meeting	1 day	Fri 11/29/13	Fri 11/29/13	16
18	LEA Writes Proposed SWFP	44 days	Tue 12/10/13	Fri 2/7/14	15,17
19	LEA Submits Proposed SWFP and Application Package to CAL Recycle	1 day	Mon 2/10/14	Mon 2/10/14	18
20	CAL Recycle Reviews Proposed SWFP and Conformance with CEQA/Standards	44 days	Tue 2/11/14	Fri 4/11/14	19
21	CAL Recycle Concurs w/ Issuance of Final SWFP	1 day	Mon 4/14/14	Mon 4/14/14	20
22	LEA Issues SWFP	5 days	Tue 4/15/14	Mon 4/21/14	21
23	Purchase, Fabricate and Deliver Equipment	132 days	Tue 4/22/14	Wed 10/22/14	22
24	**Detail Design**	**166 days**	**Tue 10/1/13**	**Tue 5/20/14**	
25	Prepare Geotechnical Report	22 days	Tue 10/1/13	Wed 10/30/13	2,3,4
26	Conduct Utility Supply Review and Incorporate into Facility Design	22 days	Tue 10/1/13	Wed 10/30/13	2,3,4
27	Prepare Facility Design Drawings, Specifications and Construction Bid Package	122 days	Thu 10/31/13	Fri 4/18/14	25,26
28	Select General Contractor	22 days	Mon 4/21/14	Tue 5/20/14	27
29	**Building Permits**	**66 days**	**Mon 4/21/14**	**Mon 7/21/14**	
30	Receive Industrial Waste Discharge Permits	22 days	Mon 4/21/14	Tue 5/20/14	27
31	Receive Building Permits	66 days	Mon 4/21/14	Mon 7/21/14	27
32	**Construction**	**248 days**	**Wed 5/21/14**	**Fri 5/1/15**	
33	Grading and Site Preparation	22 days	Tue 7/22/14	Wed 8/20/14	28,31
34	Civil Construction	44 days	Thu 8/21/14	Tue 10/21/14	33
35	Facility Construction (Including Building Fabrication)	248 days	Wed 5/21/14	Fri 5/1/15	28
36	Recycling Equipment Installation	115 days	Thu 10/23/14	Wed 4/1/15	34,23
37	Facility Start-up and Training	64 days	Thu 4/2/15	Tue 6/30/15	36
38	Continuous Operation and Receipt of City of Oakland Material	1 day	Wed 7/1/15	Wed 7/1/15	37



California Waste Solutions
North Gateway Recycling Facility Project Schedule
Revision Date January 3, 2013

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Progress
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Deadline

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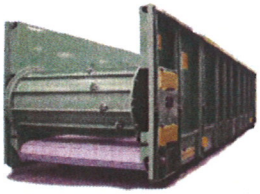
Recycling Specialists

OAKLAND RECYCLES.COM

DEI
D. Edwards, Incorporated

Bollegraaf
RECYCLING MACHINERY

EQUIPMENT DESCRIPTION – Drum Feeder



*Drum Feeder, Type HBST-1200/2000 * 20000*

Bollegraaf has developed a unique rotating drum feed system to provide a much easier and less time consuming method of feeding your system, while providing a more evenly distributed flow of material on the incline belt.

Conveyor

Capacity	- 30 tons/hour.
Material to be processed	- Glass, plastics, paper and/or cans (Single stream).
Belt width	- 2000 mm (6'7")
Belt length	- floor length 20000mm (65'7")
Side height	- floor 2000mm (6'7")
Loading height	- 2850 mm (9'4")
Motor	- 0,75 kW (1,1 pk) - KA107/1,3.
Belt speed	- 2' – 6'/minute. - the motor can be used with a frequency regulator to be able to control the speed.
Color	- RAL 6011 (reseda green).

Drum

Drum width	- 2000 mm (6'7")
Drum diameter	- 1360 mm (4'6"0
Motor drum	- 15 kW (20 pk) - KA97/63.
Speed	- 40 - 70 rotations/minute. - the motor is suitable for the utilization of a frequency regulator in order to be able to control the speed. -the frequency control also ensures a soft start of the drum.
Carriers	- 12 transversely placed carriers, 80 mm high, (6'7") long. - 48 Hardox cams, 160 mm high, per 2 mounted in a double spiral shape, removable, can be used on 4-sides.
Color	- RAL 6011 (reseda green).

Refernces:

Waste Management Recycle America
20701 Pembroke Pines
Pembroke Pines, FL 33209
Contact: Frank Casagrande
Tel: 954-520-6486

Greenstar / Vista Fibers
1228 Cornerway Blvd
San Antonio, TX 78219
Contact: John Rabon
Tel: 210-913-3438 john.rabon@greenstar-na.com

Bollegraaf
RECYCLING MACHINERY

EQUIPMENT DESCRIPTION – 3-D Trommel Screen large

Trommel screen 3D type ø 2800 – 10.000 / 180

Consists of:

- Support frame
- Enclosure with screening hopper
- Trommel infeed cone of Ø2400mm.
- Screen overs cone hopper
- Inspection/maintenance platform on both sides
- Trommel construction with removable screen plates
- 4 powered tandem axle drive units

Construction details:

Capacity (nominal)	:	45 tons/hour
Length trommel	:	28'6"
Length screen deck fract. 0 - 180 mm	:	44'11" (8 x rotation ring of the 4'1" long screen deck)
Drum Shape	:	Octogon
Diameter (short octogon) trommel	:	9'2"
Diameter (max octogon) trommel	:	9'10"
Diameter trommel	:	ca. 9'10"
Incline – decline angle	:	- 3º
Trommel rpm	:	12-20 rpm (VFD controlled)
Rotation direction	:	counter clockwise
Carrier wheels screen deck	:	4 x 4 rubber air tires in tandem configuration
Drive system screen deck	:	indirect crankshaft driven
Motor	:	4 x 18 kW = 72 kW

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The heavy duty screen deck is constructed from 4 longitudinal mounted tube steel beams connected to specially constructed driven rotation rings. Tube steel frame has removable wear surfaces on 3 side for long life and periodic replacement. Total surface area is divided in 7 equal areas with heavy duty T-shaped profiles to which screen decks are mounted. Individual screen decks are approx 3ft wide and are replaceable/changeable. Screen decks are constructed from perforated Ø50 mm steel plate of 6 mm. Diameter of the screen deck is fixed but can be replaced with larger /smaller openings.

Enclosure of the trommel consists of 2 halves. Bottom half of the trommel enclosure is constructed from reinforced 5mm plate with entry door, maintenance gantry and lighting. Top half is constructed of 4mm plate steel with inspection doors for periodic maintenance/inspection. Heavier construction is available if required. Platforms provide access to all inspection and access doors, lower platform is supplied for maintenance to the drive system. Drive system is outfitted with a "flat tire" sensor. Total drive system for each trommel consist of 16 wheels. A hydraulic lifting device is mounted to provide easy access and replacement of worn tires.

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Lubo Systems
SCREENING & RECYCLING

EQUIPMENT DESCRIPTION – Double ONP Screen System

*Commingled ONP Screen, Type French Banana - 2540*5100/6850 (Extra wide)*

The French Banana was developed to separate paper, bottles/cans and glass. The screen has two screening decks that are placed at an angle. Each deck can be adjusted independently from the other. Deck 1 can be set at angles of between 38° and 45°, and Deck 2 between 38° and 48°.

Width screening deck:	2540 mm (8'4")
Length top deck:	5100 mm (16'9")
Length bottom deck:	6850 mm (22'6")
Feed height:	6900 mm (22'8")
Total height:	9400 mm (30'10")
Screen size top deck:	Din A5 (Standard setting)
Screen size bottom deck:	< 50 mm, and rolling parts (Standard setting)
Screen angle top deck:	Adjustable between 38° and 45°
Screen angle bottom deck:	Adjustable between 38° and 48°
Star diameter:	330 mm, Lubo stars
Quick Disconnect:	Included
Drive:	7 * 5.5 kW (7,5 HP)
Degree of protection:	IP-65
Return brake:	the motors are equipped with an electromagnetic return brake.
Speed control:	Adjustable by means of frequency regulators

References:

Greenstar / Vista Fibers
1228 Cornerway Blvd
San Antonio, TX 78219
Contact: John Rabon
Tel: 210-913-3438
john.rabon@greenstar-na.com

GLR (Buffalo Recycling Entreprises)
266 Hopkins Street
Buffalo, NY 14220
Contact: John Hawthorne
Tel: 586-779-1310
John@go-glr.com

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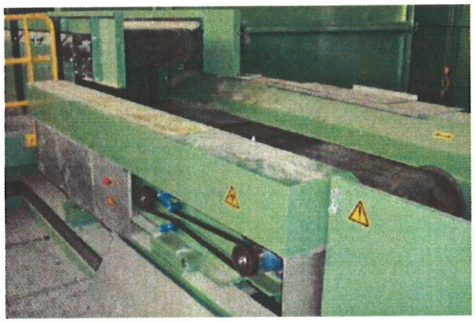
RECYCLING MACHINERY

EQUIPMENT DESCRIPTION – Eddy Current



Eddy Current, Type HBM 29.713/12

In an eddy-current separator, use is made of electric conductivity and relative density of the parts to be separated. An eddying magnetic field is generated by magnets that rotate quickly. This causes an eddy in metal particles that pass the field. This eddy causes an opposite magnetic field. As a result of the repellent effect of the two magnetic fields, metal particles can be moved and thus separated from the flow of material.

Version	- Non-Ferro separator type ECSM800/12.
<u>Belt conveyor:</u>	
Belt width	- 2'7"
Belt speed	- 0,26 to 2 m/s continuously variable.
Belt	- Rubber, type 400/2, 2+0 RA
	- fitted with overflow edges.
	- to be fitted with carriers in consultation with client.
Belt control	- by means of curved drive roller and belt-control rollers.
Drive	- make Euronorm, gear wheel/chain.
Power	- 4,00 kW (5,5 HP).
Drive drum	- 1'
Return drum	- 11". Made of polyester reinforced with fiberglass with a ceramic layer.

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Magnet system:

Drive	- loose drive, mounted on the inside of the belt conveyor with toothed-belt transmission.
Power	- 7,50 kW (10 HP).
Bearings magnet system	- Make SKF.
Weight	- 1291 kg.
Surface treatment	- steel parts : anti-corrosion primer; varnish finish : RAL 6011 (Reseda green). - stainless steel parts sandblasted.
Life test	- 3 x 8 hours.
Degree of protection	- IP-54.

References:

Friedman Recycling
5835 E. Wren Avenue
El Paso, TX 79924
Tel: 602-484-4966
Contact: David Friedman
dfriedman@friedmanrecycling.com

Great Lakes Recycling
30615 Groesbeck Highway
Roseville, MI 48066
Tel: 586-779-1310
Contact: John Hawthorne
John@go-glr.com

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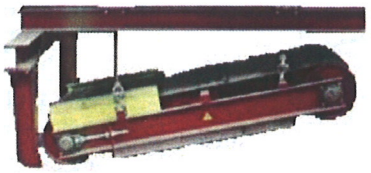
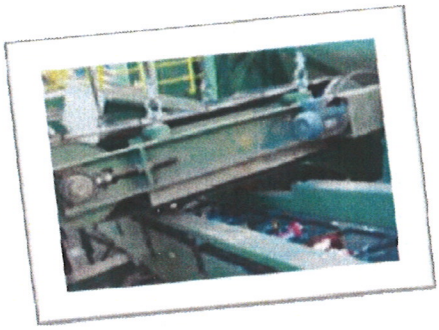
RECYCLING MACHINERY

EQUIPMENT DESCRIPTION – Magnet Separator





Magnet: Type HBM 28.043

This permanent top belt magnet is used to defreeze material on conveyor belts. To this end, the magnet is suspended above the conveyor belt, so that the magnet can remove ferrous parts from the passing flow of materials. The top belt system has a synthetic rubber cloth with vulcanized carriers and is self-guiding due to the use of curved drums. The belt has a belt-tensioning system.

Type	- top belt system type BVP.
Total length	- 2700 mm (8'10")
Magnetic part	- 1450 (4'9") x 900 (2'11") x 410 mm (1'4")
Diameter drums	- 500 mm (1'8")
Drive	- slip-on gear motor SEW
Power	- 3,70 kW (5 HP).
Supply	- 480 VAC, 60 Hz.
Belt	- synthetic rubber with vulcanized carriers.
	- Make : Continental; type Transconti.
Belt width	- 1.050 mm (3'5")
Surface treatment	- anti-corrosion primer
	- varnish finish : RAL 6011 (reseda green)
Weight	- 2819 kg.

The magnetic part is made up of anisotropic ceramic magnets; BM8 quality. With a Œ label.

The Magnet is equipped with:

- Protection.
- A support.
- An overflow/funnel at the end, length 1500 mm (4'11") , width 1500 mm (4'11"), height 2500 mm (8'2") for the outlet of the separated materials.

References:

Allied Waste Industries
5757 Oates Road
Houston, TX 77078
Contact: Mitch Noto
Tel: 713-671-1565
mitch.noto@awin.com

Waste Management Recycle America
4550 Steelway Blvd
Liverpool, NY 13090
Contact: Robert Comi
Tel: 315-461-9323

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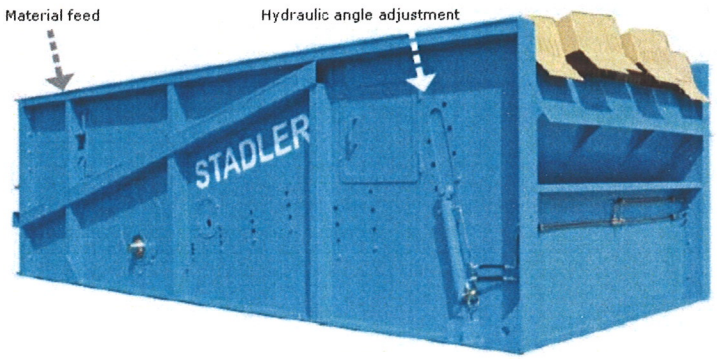
RECYCLING MACHINERY

EQUIPMENT DESCRIPTION – Ballistic Separator



Separating of the most different material compositions in three material fractions. By throwing the material up and forward by a paddle, the Ballistic Separator sorts the materials due to their ballistic properties. A 90% precise material separation into heavy, screen and light fraction is achieved. In addition, the material is cleaned from dirt and dust.

The possibility to adjust the separation parameters of the Ballistic Separator while the machine is working enables a fast and easy adaptation of the machine to changing input material compositions. For cleaning the paddle, a cleaning device is available as additional equipment.

Areas of application:

Model	STT 5000_101	*STT5000_102
Area of application	Industrial waste systems with or without pre-shredding, bulk waste processing, domestic waste systems – organic separation, processing of construction and demolition waste	
Task	Creation of 3 sub-flows (fine, flat, rolling) *with STT5000_102 four sub-flows possible	
Position in the system	1. Directly after the feeding hopper 2. Directly after pre-shredding 3. In medium grade range (<300 mm) after a possible screen drum	
Results	The rolling fraction contains hollow bodies, metals, stones, wood and solid plastic. The flat fraction contains paper, cardboard, textiles and films in an even flow.	

Van Dyk Baler Corp. & Bollegraaf Recycling Machinery
78 Halloween Blvd., Stamford, CT 06902, Tel: (203) 967-1100, Fax: (203) 967-1199

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RECYCLING MACHINERY

Technical Data of STT5000:

Application:	Household Waste, Biowaste, Commercial Waste, Construction Waste, etc.
Working Width:	8'2"
Drive Power:	11 kW
Throughput Rate:	60 m^3/ h*

Features

- This machine model was specifically developed for use on construction and demolition material as well as domestic and industrial waste
- An extremely robust steel construction with a support frame made of 40 mm thick steel plate and 10 mm thick side walls gives the ballistic separator sufficient stability for screening materials
- The screen paddles are made of 10 mm thick special profiles
- The screen coverings are made of highly wear resistant steel
- Adjustment of the paddles is possible through a hydraulic system (see picture above)
- A new, modular shaft design reduces costs for replacement and wear parts
- Achieves higher throughputs

Variety of models available :

Data	STT2000_101	STT2000_102	STT2000_103	STT5000_101	PPK
LxBxH	5,5 x 2,5** x 2,3 m	5,5 x 2,5** x 4,0 m	5,5 x 2,5** x 5,7 m	5,8 x 2,5** x 2,5 m	6,5 x 2,5** x 2,0 m
Drive	4kW 400V	2 x 4kW 400V	3 x 4kW 400V	11 kW 400V	4kW 400V
Work Area	8,4 m^2	2 x 8,4 m^2	3 x 8,4 m^2	10,9 m^2	12,6 m^2
Weight	4t	8t	12t	13t	4t
Angle Adjustment	10 - 25 °	10 - 25 °	10 - 25 °	15 - 25 °	-

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EQUIPMENT DESCRIPTION – Drum Air Separator

Drum Air Separator

- A role separation unit for the fraction 50-250 mm suitable to separate a heavy fraction, a middle heavy fraction and a light fraction.
- A dust filter suitable for the separation system.
- Rotary valve for an optimal adjustment of the separation unit

The unit consist of the following head components:

- A role which separates the heavy fraction from the middle heavy and light fraction.
- The unit is directly connected to the sedimentation room with discharge conveyor
- to transport the middle heavy and light fraction to the second separation unit.
- A second role separation unit to separate the middle heavy from the light fraction.
- A sedimentation room with discharge conveyor for the light fraction.
- An automatically cleaned dust filter.

The five head components are constructed with the next part components:

- A conveyor which must be regulated in speed, width 3'11", lengths 9'10", role motor diam. 215 mm, 2.2 kW. The conveyor is simply adjustable in a vertical and horizontal position and in an angle. Adjustable speed of the conveyor 40 – 80 m/min by frequentation.
- A rotating role separator, diam. 3'7", with a totally adjustable in- and outlet openings and separation valves. Drive 2,2 kW with a reduction of revolutions to 14 r.p.m. and frequentation controlled. Bearings outside the unit.
- Blow mouth width 3'11", height 250 mm, executed with 2 air regulation valves. The blow mouth is adjustable in height and angle.

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- A discharge conveyor (delivered by you) with a width of 2'7", for the heavy fraction. Execution to discuss.
- A fan separator, capacity 32.500 m3/h, motor 40 kW, V-belt driven, inlet opening 2'2" outlet opening 2', dust outlet diam. 325 mm. Executed with a regulation valve and air divide valve.
- A galvanized sedimentation room, dimensions: length 21'8", width 7'10", height 9'2", 1,5 mm thick steel plate, 6 extraction opening of 275 mm, divided in 6 extraction sections.
- A conveyor for the discharge of the middle heavy and the light fraction to the mini role separator, length 19', width 3'3", motor 4 kW, conveyor speed 40 m/min.
- Blow mouth, width 3'11", height 10", executed with 2 air regulation valves. The blow mouth is adjustable in height and angle.
- A rotating role separator diam. 1'4" with totally adjustable in- and outlet openings ad separation valve. A horizontal and vertical adjustable role motor 2.2 kW, 18 r.p.m.
- A conveyor (delivered by you) for the heavy middle fraction. Execution to discuss.
- A fan separator, capacity 17.500 m3/h, motor 15 kW, V-belt driven, inlet opening diam. 550 mm, outlet diam. 500 mm, dust outlet diam. 250 mm. Executed with a regulation valve and air divide valve.
- A galvanized sedimentation room, dimensions: length 21'8", width 7'10", height 9'2", 7 extraction openings diam. 275 mm, divided in 7 extraction sections. 1,5 mm thick steel plate.
- A conveyor width 3'3" to discharge the light fraction, motor 4 kW, speed 131'/min.
- A rotary valve Wa 900, 4 kW, diam. 2'11", length 3'11", height 3'11". The purpose of the rotary valve is to close the sedimentation room (4l) air tight.
- All air dust ducts to the sedimentation rooms, blow mouths and dust filter. The ducts are constructed in galvanized steel and connected by flanges and clamps.
- A dust filter, dimensions: length 10'10", width 7'3", height 9'2", constructed in galvanized panels, capacity max. 15.000 m3/h. 3 Filter sections of 50 m2, totally 150 m2. Cleaning automatically by 3 air return blow fans each with 1,5 kW motor. Inlet diam. 450 mm. Executed with 3 combined inspection/explosion doors. The filter sections are installed on a connection chute in steel which is installed in a profile steel frame. Below the chute a rotary valve, described in 5q, is installed.
- A rotary valve Wa 500, drive 2.2. kW., diam. 500 mm, width 3'11', height 2'4", The purpose of the rotary valve is to discharge rests of paper without pressure.

Van Dyk Baler Corp. & Bollegraaf Recycling Machinery
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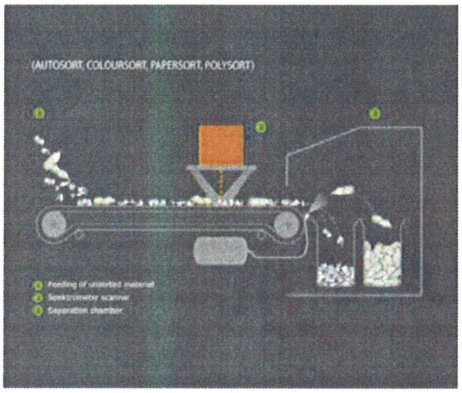
VAN DYK
recycling solutions

BOLLEGRAAF SYSTEMS ▪ LUBO SCREENS ▪ TITECH OPTICAL SORTING

EQUIPMENT DESCRIPTION – TITECH Optical Sorter



The TITECH autosort 4 is a multifunctional sorting system to recover a wide range of valuable material from different waste streams like single stream, packaging, municipal solid waste and other. The new generation with FLYING BEAM® technology makes a significant simplification to the system as a whole. This way the TITECH autosort 4 sorts extremely reliable and can be maintained very easy.

Sophisticated near infrared (NIR) and visible light (VIS) spectrometer based sensors take in the characteristic spectra with a very high optical resolution. Innovative FYLING BEAM® lighting technology focuses only on the area of the conveyor belt that is being scanned. The result: Up to 70% energy savings.

The advanced NIR spectrometer based detector recognizes materials based on their specific and unique spectral properties of reflected light. There are two detectors available for different spectral ranges.

The VIS spectrometer based detector recognizes materials based on their specific colour properties. These detectors can be used in combination depending on the application.

In addition the TITECH autosort 4 technology covers a broader temperature range. Passive heat sinks replace active cooling equipment for temperature of up to 50°C.

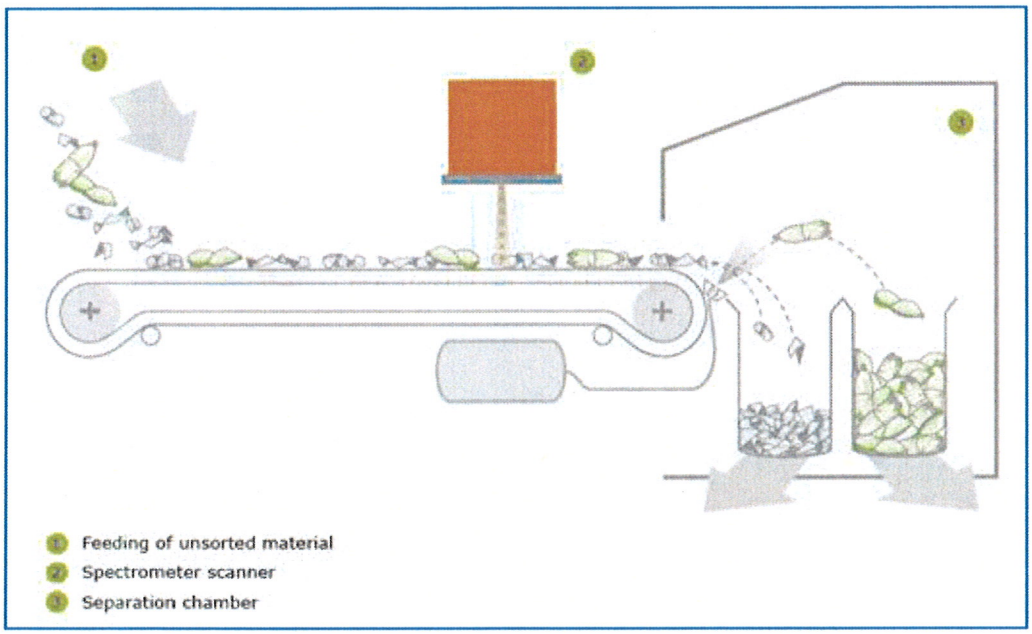
The system can be quickly optimized for the required sorting tasks by the selection of sorting programs.

VAN DYK Recycling Solutions
78 Halloween Blvd., Stamford, CT 06902, Tel: (203) 967-1100, Fax: (203) 967-1199

VAN DYK
recycling solutions
BOLLEGRAAF SYSTEMS ▪ LUBO SCREENS ▪ TITECH OPTICAL SORTING

EQUIPMENT DESCRIPTION – TITECH Optical Sorter

The figure below shows the functional principle of the TITECH autosort 4:



Input material (1) is evenly fed onto a conveyor belt, where it is detected by the NIR and/or VIS spectrometer based detector (2). If the sensors detect material to be sorted out, it commands the control unit to blow the appropriate valves of the ejection module at the end of the conveyor belt. The detected materials are separated from the material flow by jets of compressed air. The sorted material is divided into two or three fractions in the separation chamber (3).

Unit sizes available: 600, 1000, 1400, 2000 and 2800

VAN DYK Recycling Solutions
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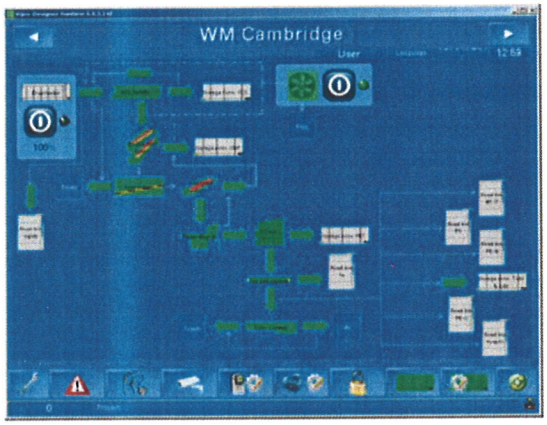
VAN DYK
recycling solutions

BOLLEGRAAF SYSTEMS ▪ LUBO SCREENS ▪ TITECH OPTICAL SORTING

EQUIPMENT DESCRIPTION – Visual SCADA



Visual SCADA

The Visual SCADA is developed as a user-friendly SCADA interface that is scalable in plant size and is visual orientated. For that we developed the SCADA application in four full integrated layers. Each layer can be purchased separately. So small systems do not need to buy an expensive over the top control systems and the large recycling MRF's can have all the necessary control, service, data collection and management information they can ask for.

You will only pay for what you need!

VISUAL SCADA four layers are:

1. BRS Visual Plant
2. BRS Visual Service
3. BRS Visual Management
4. BRS Visual MRF Data Collector

Benefits include:

- Reduced downtime
- Increased productivity
- Increased safety standards
- Reduced energy usage
- Reduced inventory cost
- UL /CSA Certification
- Follows green initiatives

Features:

- power-supply redundancy providing emergency backup
- E-stop zone indication allowing immediate identification of E-stop location
- Early warnings to operator, substantially reducing downtime
- PLC flash-card backup allows immediate recovery from a PLC failure
- All motor data available to both operator and the control logic for intelligent PLC responses and avoidance of lost productivity
- Modular construction allows for instant replacement of failed components

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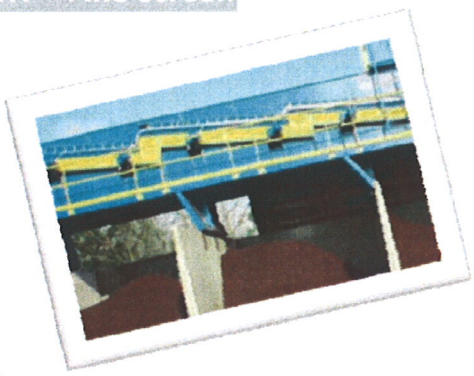
EQUIPMENT DESCRIPTION – Fine Screen



*Fine screen, Type 1640*4000*

Lubo Systems is specialized in the design and construction of the star screen and has years of experience in building star screens for various applications.

Four different star sizes have been developed, so that a screening deck can be designed for almost every material. The variety in star sizes offers solutions for many screening problems. See the table below for a list of applications.

Star diameter	Fraction	Application
165	± 6 to 30 mm	Compost, sand/rubble, construction and demolition waste, asphalt, sludge, peat, soil and wood
235	± 30 to 80 mm	Compost, sand/rubble, construction and demolition waste, asphalt, sludge, peat, soil and wood
330	± 50 to 150 mm	Compost, construction and demolition waste, special paper flow, mixed waste, incineration slag and wood
660	±.80 to 500 mm	Paper/cardboard, landscape refuse, construction and demolition waste, industrial waste

Length screening deck:	4000 mm
Width screening deck:	1640 mm
Star diameter:	235 mm, Lubo stars
Quick Disconnect:	Included
Manuals:	Operator manual and technical documentation, (flowcharts, drawings, etc.) will be delivered in duplicate.
Drive:	2 * 5,50 kW (7,5 HP).
Degree of protection:	IP-65.
Speed control:	Variable by means of frequency regulators.
Screen size:	0 - 40 mm (variable by means of speed control).

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EQUIPMENT DESCRIPTION – Paper Commingled Screen

Paper Commingled Screen – French Banana (3040 mm wide)

The Co-mingled screen was developed to separate paper, bottles/cans and glass.

The screen has 1 screening deck placed at an angle of between 38° and 48°. Bottles, cans and other round objects will roll back down because of the steep angle of the deck. The screening deck screens for 50 mm. Glass and other small material is screened out. The paper is carried upwards.
The screening deck is placed in a steel construction of its own.

In order to reinforce the separation principle, Lubo advises the use of air support. The airflow will reinforce the upward movement. This increases capacity. The round parts will rill back.

*Type CS 3040*6850*

Width screen deck:	10'
Length screen deck:	22'6"
Feed height:	13'1"
Total height:	6320'8"
Screen size:	<50mm, and rolling parts (Standard setting)
Screen angle:	Adjustable between 38° and 48°
Star diameter:	330 mm, Lubo stars
Quick Disconnect:	Included
Drive:	4 * 7.5 kW (10 HP)
Degree of protection:	IP-65
Return brake:	the motors are equipped with an electromagnetic return brake.
Speed control:	Adjustable by means of frequency regulators

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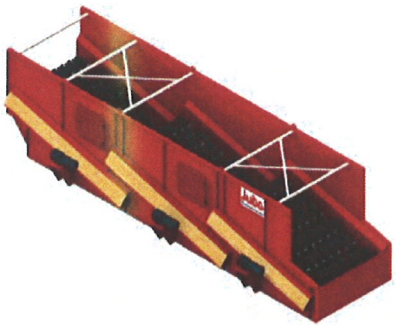
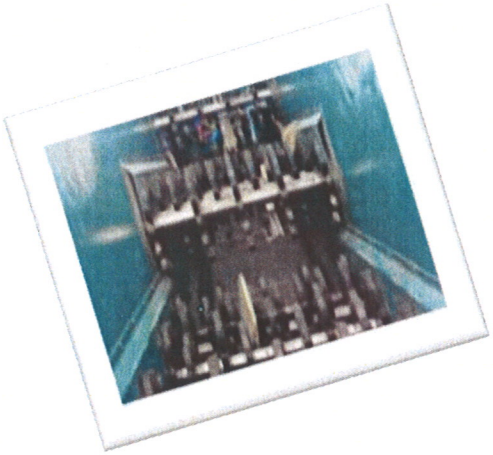
EQUIPMENT DESCRIPTION – OCC screen





*OCC screen – 2540*9000*

The OCC (Old Corrugated Cardboard) star screen was developed to separate large cardboard from material flow. The over fraction is large cardboard. Paper, small cardboard and small material will be screened off. This screen will be at the beginning of a sorting installation to separate the large cardboard. Then manual separation of large cardboard will no longer be necessary.

Length screen deck:	9000 mm
Width screen deck:	2540 mm
Total height:	2550 mm
Number of decks:	3 * 3000 mm
Thickness of side walls:	8 mm
Screen size:	Din A3
Screen angle:	16 degrees
Diameter spacers:	108 mm (small), strips welded onto spacers, (2 per spacer) First two axles fitted with double stars.
Star diameter:	660 mm, Lubo OCC stars
Feed section:	3 mm dummy plate, maximum size 600 mm * 1400 mm
Inspection door:	1 at every cascade, 700 mm * 700 mm
Quick Disconnect:	Not available (for 660 mm stars)
Drive:	3 * 5.5 kW (7,5 HP).
Degree of protection:	IP-65
Speed control:	Variable by means of frequency regulators
Screen size:	Variable by means of speed control

The screen will be delivered with the following fittings:

- 2 emergency stop buttons.
- An overflow on the underside of the screen.
- An overflow on the discharge side of the screen.
- The screen's motors are fitted with a brake.

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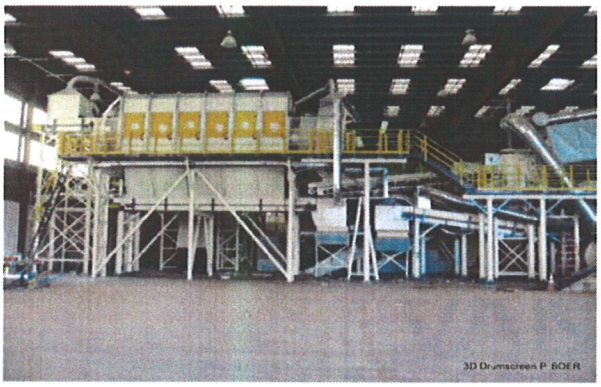
EQUIPMENT DESCRIPTION – Trommel Screen (2D)



2D Trommel Screen

Model	:	WT-2800 x 3200 -11750/8750- 7x1250/50
Overall machine length	:	13.000 mm
Overall Trommel barrel length	:	11.750 mm
Nett screen deck length	:	8.750 mm
Octagonal drum	:	SLW 2.800 mm
Wheel tread	:	Diam.3.200 mm
Screening size	:	0–50 mm
Screen size	:	7 Rows x 8 decks 1250 mm long, holes square 50 mm
Dismountable bolted screen decks	:	56 pcs 1.250 x 1.250 mm Material S355 J2G3 6 mm
Support structure	:	Made of heavy duty steel plate & structural steel
Decline angle drum	:	3º
Drum rotation speed	:	10-20 RPM. Variable by frequency drives (Customer supply)
Barrel carrier wheel bogey	:	4 x Two wheels (vulcolan vulcanised) on hinge able wheel bogey. (see pictures)
Drives	:	4 x Gearbox with E-Motor (SEW) direct drive to 8 x carrier wheels.
Motor Power	:	4 x 11 kW = 44 kW 480 Volts 60 hZ
Variable drive	:	By frequency drives (supplied by Customer)

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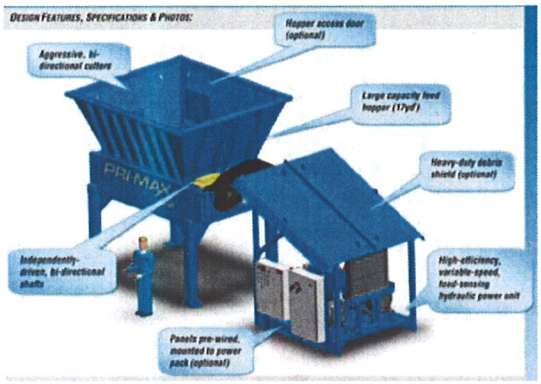
EQUIPMENT DESCRIPTION – SSI Primary Size Reducer



SSI Primax 4400 Shredder

17.25 yd^3 (13m^3) feed chamber capacity (with standard hopper design; others available)
96" x 76.5" / 51ft^2 active cutting zone (2438 x 1943 / 4.7m^2)
Extreme-duty, "open" cutting deck w/field-replaceable, Hardox anvils and saddles -allows abrasives and pre-sized materials to pass through freely without unnecessary wear and tear (2) Independently-operating, bi-rotational shafts to maximize production and minimize wrapping
-material shreds whether shafts running in forward or reverse
60 rpm maximum shaft rotation speed; configurable through
touch-screen control panel
Bolt-in, reconfigurable cross-members for ease of maintenance and sizing flexibility
Removable, re-buildable shaft design to minimize maintenance downtime
34.75" (883mm) diameter cutter sweep, maximizes grabbing ability and prevents bridging
(9) 3" thick (76mm), multiple-hook, bi-directional cutters per shaft (Hardox 500)
(2) Hagglunds radial piston direct hydraulic drive motors (gearless drive system)
Automatic lubrication system for main shaft bearings
Oversized bearings with service factor in excess of all wear items
60" high, bolt-on hopper – other configurations available, access door optional
Heavy-duty support stand w/up to 96" high legs

Power Unit:

2x200HP (400HP total); 2x150kW (300kW total) Baldor electric motors
5000-psi (345 Bar), closed-loop circuit High performance, hydrostatic, axial piston pumps Oversized Heat Exchanger; Upgraded Tank Heater Hydraulic overload reversing Variable speed drive system w/automatic horsepower control for heavy-duty & high-speed processing Skid-mounted power unit optimized for maintenance access, includes drip pan

Controls:

460V/3ph/60Hz supply power, 24VDC control power NEMA 4 (IP66) operator control panel w/LCD graphic operator interface NEMA 4 (IP66) motor starter panel w/soft-start Allen-Bradley PLC w/proprietary program for multiple shaft rotation cycles -includes auto-reversing, anti-bridging, and anti-wrapping features
Electrical panels shipped loose for field mounting and wiring 3-color status lights visible from loading equipment

Appendix 7-15 Transition Team Background

CWS Oakland Transition Team Background and Additional Information

Circlepoint

http://www.circlepoint.com/

Established in 1987 as a Public Affairs Management company, Circlepoint has grown over the years to meet clients' ever-expanding needs, from environmental planning to social media strategy. For more than two decades, Circlepoint has been a guiding force in helping government agencies, private businesses and communities think strategically, communicate effectively, and find solutions to bring resolution on a wide range of issues and opinions. Circlepoint provides strategic communications counsel that informs and educates stakeholders, and has a focused environmental planning practice that integrates environmental assessment, design, and community outreach to produce streamlined environmental documents. The creative services team delivers a wide range of design and production services, from identity development to websites and printed collateral. Circlepoint has a long list of current and former public sector, corporate and non-profit clients including the City of Oakland, City of San Jose, numerous other Bay Area cities, Port of Oakland, Counties of Alameda and Contra Costa and others, EBMUD, California Integrated Waste Management Board, Sacramento Regional Solid Waste Authority, and the Bay Area Council.

Circlepoint is an Oakland certified local business. Certification # 6550.

Chris Colwick, Senior Project Manager, Strategic Communications, Chris is dedicated to creating an environment where individuals, neighborhoods, and all variety of interested stakeholders can participate in projects that improve our urban environment and transportation systems. He is well-versed in the issues and community concerns related to projects that affect our everyday lives - the streets we drive on, the buildings we work in, the transit we use to get around - and has implemented many effective public involvement and strategic communications programs to make projects better while ultimately enhancing the reputation of project sponsors. Fascinated by interconnectedness of the natural and manmade world, Chris has spent the last decade fostering community involvement and managing public outreach programs for infrastructure projects and related fields. His strategic outreach programs educate, help increase awareness, expand involvement, and generate focused and useful input - which ultimately leads to better projects.

Jonathan Bair, Senior Associate, Jonathan Bair has a decade of experience working with clients to create and implement communications strategies, with expertise in online media, press relations, and mass communication of complex concepts and projects. Jonathan pioneered social media as an outreach tool in the transportation, local government, and real estate fields, and continues to explore new technological solutions to meet clients' needs. His strong understating of mainstream and alternative media, popular online trends, and the political context enables him to manage creative, effective, and sensitive communications strategies for a diverse clientele.

The Next Generation

http://nextgeneration.org/

The Next Generation (TNG) is a full-service campaign consulting and management, and issue advocacy firm, specializing in environmental and progressive issues in the Bay Area and across California. TNG helps clients to craft smart outreach and political strategies, organize operation of information programs, and develop clear, targeted, and effective messages. TNG's Past work includes strategy and advocacy for organizations such as Union of Concerned Scientists, Environmental Defense, and Clean Water Action,

as well as electoral campaigns for Oakland City Attorney Barbara Parker and Oakland City Councilmembers Libby Schaaf, Pat Kernighan, Rebecca Kaplan, and Dan Kalb, among many others.

TNG is an Oakland-based business.

Doug Linney: President
Doug has served the environmental community of California for over 35 years as an advocate, political strategist, coalition builder, and fundraiser. In 1996, he founded The Next Generation (TNG) in an effort to advance the environmental agenda by offering services and political strategy to nonprofit organizations, environmental coalitions, and progressive candidates.
Doug has run numerous campaigns at the state, regional, and local level and has specialized in water, energy, forestry, and environmental tax reform issues. In 2002, he was recognized with the Mark Dubois River Conservationist Award given by Friends of the River. His environmental service includes past or present membership on the boards of directors for the California League of Conservation Voters, Friends of the River, ecoVenture, Green Capitol, the Planning and Conservation League, and the East Bay Municipal Utility District.

From 1988 to 1994, Doug was the Political Director of the California League of Conservation Voters, a public interest organization that supports environmentally minded candidates for public office. Doug received his Bachelor of Science in Environmental Science and Public Policy from the University of California, Davis.

Doug's experience includes current service since 2000 on and being a past President of the East Bay Municipal Utility District Board representing 190,000 constituents; founder and Executive Director of EcoVenture from 1999 – 2006, an organization he founded to sponsor environmental start-ups, including California Interfaith Power and Light, Green Watchdog, and Living Forest Project, among others; Political Director of the California League of Conservation Voters from 1988 –1994, where he was responsible for development and implementation of all political programs for the only full- time environmental Political Action Committee in the state, setting up grassroots oriented political programs and letter writing campaigns, implementing CLCV efforts on behalf of environmental candidates and measures and training and placing over 40 organizers in electoral campaigns around the state; and Campaign Consultant with Linney Associates from 1985 – 1988. Doug currently sits on the boards of the Planning and Conservation League, California League of Conservation Voters, and League of Conservation Voters of the East Bay. From 1989 to 1991 he chaired the Solid Waste Management & Recycling Committee of the City of Alameda.

Kneal Resource System, Inc.
http://www.kneal.com/
Kneal Resources System, Inc. (KRS)was founded and is managed by Kathy Neal, a former member of the California Integrated Waste Management Board and chair of its Public Education and Legislation Committee. KRS clients have included IBM, Unisys, ICF Kaiser Engineers, Laidlaw Environmental, US Dept. of Agriculture, Alameda County, Peralta Community College District, Oakland Unified School District, municipal water districts, small to mid-size companies, and the San Francisco Foundation and other non-profits. KRS will partner with CWS to develop community relations to support CWS' activities in public education and the Reusable Advisory Group.

KRS is an Oakland certified small local business. Certification # 7364

Kathy Neal, President Kathy, who will serve as KRS lead on this project, has worked in public policy and outreach for over 31 years and consulted with CWS on matters of public education, public relations, regulatory compliance and organizational projects for 8 years. She will participate in the partnership with the City of Oakland during the transition to further develop a detailed community outreach campaign to increase diversion tons. Kathy has significant experience in project planning, management and staffing; process improvement; public affairs, public education and governmental affairs strategy and outreach; general business management, marketing, and fiscal oversight statewide permitting and regulation of solid waste facilities and programs; and creation and implementation of statewide education and outreach initiatives

Kathy served as Commissioner for the Port of Oakland from 1998 to 2000 and was Administration Committee Chair, Commercial Real Estate Committee Chair and a Commission Vice President during that period. Kathy has a Master of Public Administration from the University of San Francisco, a BA degree in Political Science from California State University, Los Angeles, 2 business management certificates from the Dartmouth College, Tuck School of Business, and a Certificate in Training and Development of Small Disadvantaged Businesses in Advanced Technologies from NASA.

Gershman, Brickner & Bratton, Inc.

http://gbbinc.com

Gershman, Brickner & Bratton, Inc. (GBB) is an international management consulting firm that helps public- and private-sector organizations of all sizes craft practical, customized and technically sound solutions to complex solid waste management challenges. Since 1980, GBB has assisted hundreds of organizations develop long-term, sustainable solid waste solutions that save money and improve efficiencies. GBB will partner with CWS to support the transition activities in the City of Oakland, and help develop programs that support increased recycling and diversion levels from the City's waste streams.

Robert Brickner, Executive Vice President, has more than 37 years of experience in the solid waste management field. He is an expert in solid waste handling systems, including collection and processing equipment, especially equipment costs and systems analysis. Mr. Brickner is well versed in cost allocation methods and economic/financial modeling, and life-cycle costing. During the last twenty years, Mr. Brickner has conducted hundreds of field visits to review local collection programs (for trash, recyclables and brush) and solid waste management programs (including materials recovery facilities (MRFs), waste-to-energy facilities, C&D recycling systems, transfer stations, and landfill facilities) in the United States, and abroad. Additional information regarding Bob's experience is available at http://gbbinc.com/profiles/brickner.html

Tim Giardina, GBB Vice President, has over 25 years of industry experience with a focus on collection, transfer station, landfill, recycling and medical waste operations. Prior to joining GBB as a Principal Associate, he spent 13 years with Waste Management, Inc., handling increasing responsibilities ranging from Operations Manager, General Manager, and Senior Manager of Market Planning and Development. He has a highly accomplished and proven track record in operations, P&L management, acquisitions and strategic planning with both distressed and growth companies. Additional information regarding Tim's experience is available at http://gbbinc.com/profiles/giardina.html

Archie Humphrey – Environmental Consultant/Transition Resources
Archie Humphrey provides strategic solid waste management consulting services to public and private sector clients. He has over 35 years of experience in all facets of waste handling including collection, processing, recycling, composting, disposal and alternate technologies. Archie was the Chief Operating Officer of Recology (formerly Norcal) in San Francisco, California. His achievements at Recology include development and operation of food waste recycling facilities and programs, implementation of San Francisco Fantastic 3 collection program, and construction and operational start-up of the San Francisco Pier 96 recycling facility and C&D iMRF. CWS will draw from his vast experience and knowledge in operational development, transition and implementation.

Paul J. Rottenberg
Paul Rottenberg has for many years supported cities, special districts, non-profits and private companies engaged in solid waste and recycling activities. He focuses on contracts and compliance, materials processing and marketing, equipment specification, economic analysis, facility development, dispute resolution, contract negotiations and government relations. As CWS General Manager between 1992 and 1995, Paul managed the CWS start-up of curbside and multi-unit recycling collection in Oakland and oversaw staffing, equipment specification, financial projections, A/R, A/P, marketing, government relations, plant management, safety, equipment maintenance, computer system design and management, public relations, business development, et al.

Paul has a MBA from the University of San Francisco, a MPH in progress from the University of California Los Angeles, a BA in International Relations from San Francisco State University, has done undergraduate coursework in Economics/Political Science at Georgetown University, and is fully trained and licensed in commercial refuse and recycling vehicles and heavy equipment operation. He has been published and a lecturer on various solid waste issues.

Since 1995, Paul has been a consultant to cities, special districts, non-profits and private companies engaged in solid waste and recycling activities. Primary focus of engagements is business development, contracts and compliance, acquisitions and divestitures, materials processing and marketing, equipment specification, financial proformas, economic analysis, facility development, dispute resolution, contract negotiations and government relations. Recent projects include financial audit and negotiations on behalf of a California special district with its franchised waste company; successful response to $20+ million local government RFP for recyclables collection and processing in California, including all subsequent negotiations on behalf of a private waste industry client; successful response to $18+ million county RFP for recyclables processing in California, including all subsequent negotiations on behalf of a private waste industry client; geoaspatial and statistical analysis of residential solid waste service demand in a major metropolitan service area in California; corporate assets acquisition and due diligence; financial review of franchise for a municipal government client; sole author of a refuse collection and transfer efficiency study for Ho Chi Minh City, Vietnam; patient billing product review for Fortune 500 hospital financial services company; and solid waste facility site acquisition and development in three cities for a private client. Paul has extensive negotiation experience with and for public agencies and private clients, dealing with permitting and compliance matters including the CIWMB, DOC, BARWQCB, BAAQMD, OES, local and county LEAs, Community Development Departments, city councils, county boards of supervisors, city attorneys and county councils.