

LBNL ENVIRONMENTAL MANAGEMENT PROGRAM

EMP Coordinator(s) and Organization(s): Patrick Thorson (EH&S)		Revision Date: 3/24/2009	EMP No.: 07-03B
Aspect: Solid waste generation (diversion)	Objective: Increase solid waste diversion.	Target: Increase solid waste diversion by 5% by the end of Fiscal Year (FY) 2009 relative to the baseline of Calendar Year 06.	
Category: <input checked="" type="checkbox"/> Improve <input type="checkbox"/> Control <input type="checkbox"/> Study (short term)			
Strategy: The January 24, 2007 EO 13423 requires that each federal agency "...(ii) increases diversion of solid waste as appropriate and (iii) maintains cost-effective waste prevention and recycling programs in its facilities." (Section 2.e). According to the Berkeley Sanitary Service reports, the diversion rate is approximately 55% to 60% (calendar year 2006). This EMP will confirm the baseline data, review the findings of the StopWaste.org waste audit reports and implement those actions that are appropriate and work toward meet the FY08 waste diversion goals.			
Actions to Achieve Objective:			
Action	Lead	Due Date	Completion Date
1. Meet with LBNL managers (Pauer, Rothermich, Llewellyn) to review Stopwaste report and confirm EMP approach.	Sakaki	4/20/07	4/20/07
2. Meet with Berkeley Sanitary Service (Parenti) to clarify tonnage and service.	Norem	5/1/07	5/15/07
3. Research food scrap recycling vendors for LBNL.	Norem	5/11/07	5/10/07
4. Establish baseline data for trash and recyclables.	Norem	5/30/07	5/30/07
5. Train janitorial staff, including wastebasket liner removal practices.	Sakaki/Llewellyn	11/30/07	5/23/08
6. Work with cafeteria to implement food scrap recycling	Llewellyn	1/30/08	2/25/08
7. Prepare recycling outreach and awareness material(s).	Thorson/Llewellyn/Rothermich	6/1/09	
8. Launch Pilot Program at Bldg 90 – Renewed and Revived Recycling.	Thorson/Llewellyn/Rothermich	6/1/09	
9. Modify solid waste/recycling contracts to support objective.	Llewellyn	10/31/09	
10. Assess Building 90 program, make recommendations for expansion.	Thorson/Llewellyn/Rothermich	12/31/09	
Metrics (Environmental Performance Indicators):			
1. Square footage of Lab area (Hill and 937). 2. Tons of solid waste collected and landfilled. 3. Tons of recyclables collected. 4. % diverted from landfill. 5. \$ paid for waste collection and recycling.			

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Comments:

a) (July 2008): The waste contract is being renewed. Since there is a possibility of a new waste hauler, the pilot program to “revive” the recycling program (action items 7, 8, 10) will be delayed until at least the first quarter of FY09.

EMP Closure Summary:

Not applicable at this time.

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NOTES / INSTRUCTIONS

FORM FIELD	NOTE
EMP Coordinator(s)	Name the person(s) responsible for the accomplishment of the Environmental Management Program (EMP); That is, overseeing the workplan, monitoring and reporting progress, requesting changes to the workplan as appropriate.
Organization(s)	Name the organization(s) primarily impacted or affected by this EMP. If only one department of an organization is affected, note that department.
Revision Date	Date that identifies when EMPs are modified or updated.
EMP Number	Number will be assigned by the EMS Manager.
Aspect	The significant aspect (e.g. energy use, chemical usage).
Objective	Focusing on the impacts related to this significant aspect, state the goal. What is it you want to achieve? Use action words (e.g., reduce, improve, control).
Target	State "how much and by when." The target is the performance element and should be quantitative and measurable.
Category	The categories identify and help to focus the EMP. The definitions of these categories are: <ul style="list-style-type: none"> • Improve: improve the performance in this area • Control: current environmental controls are sufficient, but EMP objective is to maintain and strengthen the level of control • Study: the issue or area has been designated as significant, but historic or baseline data must be studied and compiled to determine the direction of future action
Strategy	In this section, describe the overall approach to the problem. Some of the questions to be addressed include: <ul style="list-style-type: none"> • How much has or has not been already been accomplished in this area? • Why is this important? Are there relevant drivers (e.g., regulations, directives, public pressure)? • What are the impacts to be addressed in this EMP?
Actions	List the specific actions to be taken to achieve the objective and target. List the action and identify the responsible parties and dates by which the actions should be accomplished.
Metrics	Metrics are the Environmental Performance Indicators, how you measure the accomplishments. List the specific, quantifiable measurements or metrics (e.g., percent of employees trained, kilowatt hours saved, tons of waste diverted, gallons of material).
Comments	Add details to support changes to any of the fields on the form.
EMP Closure Summary	After the EMP and all actions within the EMP are complete, a concise description of the EMP's ability to achieve its objective and target should be provided.