

Industrial Footprint Project
Assistance Agreement No. EI-96028401
Quarterly Report 7
November 1, 2007 – January 31, 2008

Project Synopsis

During this period we held weekly meetings with internal project staff to discuss the progress of the project.

We continued to pursue mill participation. Port Townsend Paper Company (PTPC) joined the project on January 11. A news release announcing this partnership was sent out on January 22. A participation letter to be signed by Ecology's director was drafted.

We held the third and fourth Mill Collaboration Meetings on December 4 and January 15. Representatives from the mills and Earth Economics attended. At the December 4 meeting, we discussed:

- change in Earth Economics project management
- milestone chart
- stakeholder meetings and online survey lessons learned
- next industrial sector to possibly be footprinted
- indicators
- footprint aggregation tool
- how to measure sustainability in the pulp and paper industry
- water indicator set
- carbon footprint challenge
- possibility of a media packet
- baseline year for each mill

At the January 15 meeting, we brought PTPC up to speed and discussed draft indicators collected to date.

We finalized the first round of stakeholder meeting notes. Emails containing the notes from each meeting were sent to interested parties. A draft list of indicators was compiled.

We updated the web page on a regular basis. The comment period for the online comment form/survey deployed to collect stakeholder input on indicators ended on November 15, 2007. The data was collected and included in the indicator development process. Media packet development is underway.

We and Earth Economics concluded that the Quality Assurance Project Plan (QAPP) did not need to be updated during this quarter.

We made the decision to use the carbon footprint calculation tool developed by the World Resources Institute (WRI), World Business Council for Sustainable Development

(WBCSD), and International Council of Forest and Products Associations (ICFPA) for the carbon footprint challenge.

Marc Crooks attended the EPA Symposium on Integrated Approaches for Energy, Climate, and Environment in Chapel Hill, North Carolina January 8 – 10, 2008. Topics covered included harnessing the power of performance-based programs to address climate change and energy issues, permitting for sustainability, case studies for integrated planning, moving from waste management to materials management, sustainable energy, innovative monitoring, using a sector approach to address energy and climate, biofuels, and innovative technology. Several people were interested in Ecology's Industrial Footprint Project.

Angie Fritz gave a presentation on the Project to Ecology's Toxics Reduction Engineer Exchange (TREE) Team.

The shifting of funds between projects within the Earth Economics contract was approved by Carolyn Gangmark at EPA Region 10. A justification for this action was sent to the Office of Financial Management (OFM).

Narrative Discussion

In previous Quarterly Reports, we stated the number of mills is lower than projected in the grant application. We made the deadline to accept additional mill participants April 2008 due to time constraints in being able to footprint a mill by the time the final report for this project is due. We now have five mills participating and find that we only have enough funding and staff resources to footprint those five. We will not be accepting more participants from the pulp and paper industry.

We were unable to make the final selection of indicators. With PTPC joining the project, we need the input from their stakeholders in order to finalize the list. We will hold stakeholder meetings in Port Townsend on January 28 and March 4 to gather input on indicators. The timeline for this task has been extended to April 2008. Additionally, as mentioned in the last Quarterly Report, budget and time constraints have led us to the decision to limit the final set of indicators. Ecology will approve the final list.

Neither mill nor sector baseline footprint development took place during this period. Finalizing of indicators needed to take place before starting this task.

In the last Quarterly Report, we said that due to lack of attendance at the Boise Wallula stakeholder involvement meeting, we planned to participate in the local Earth Day Fair as the Spring 2008 stakeholder event in that community. Unfortunately, the local area will not be having any public Earth Day events that we can take part in. We are brainstorming other options for this upcoming meeting.

Due to insufficient funding and in order to facilitate the stakeholder meetings at PTPC and professional peer review of the project from Mathis Wackernagel, there is a possibility that up to \$9500 will be shifted to the Earth Economics contract from the total

original grant funding. This will increase the amount for contractor support from \$100,000 to \$109,500.

Due to the evolving models for carbon accounting, we have decided to limit the carbon footprint challenge to energy usage by electrical power consumption and purchased fuel.

Since no updates to the QAPP were needed for this reporting period, the end date has been extended to May 2008.

Two minor changes with the Earth Economics contract took place. The first was a project management change. Jim Pittman replaced Paula Swedeen as Project Manager, and Joshua Reyneveld is serving as Project Supervisor. The other minor issue involved changes in project scoping, sub-project timelines, and extending deliverable dates within the contract.

Project Tasks and Milestones (Reflecting Accomplishments for this Quarter, and Projection of Activities and Major Expenditures for Next Quarter Report)

The following is a listing of project milestones/tasks.

Milestone / Task	Milestone/Task Description	Start Date	End Date	Status/Notes
Secure Agency Resources	Hire project coordinator, include project work in IS staff work plans	Upon grant award	January 2007	Finished
Secure Mill Participation	Partner with eight pulp and paper mills and secure participation	June 2006	January 2008	Finished. End date changed to January 2008. We now have five mills participating and only have enough funding and staff resources to footprint those five.
Select Sector Indicators	Develop draft sector indicators. Work with eight mills and Northwest Pulp and Paper Association to finalize sector indicators.	October 2006	April 2008	Underway. Earth Economics sector analysis finalized. Finalize sector indicators. With PTPC joining the project, we need the input from their stakeholders in order to land on final indicators. We will hold stakeholder meetings in Port Townsend on January 28 and March 4 to gather input on indicators. End date extended until April 2008.
Conduct Community Outreach	Establish community contacts, implement community stakeholder involvement plan, create and maintain a web page, conduct news releases, create and deploy a survey tool.	January 2007	April 2009	Deployed and collected data from online survey/comment form. Continue to maintain web page. Conduct first round of stakeholder meetings for PTPC. Conduct second round of stakeholder meetings for all five participating mills. Send out news releases for all events. Deploy survey tool and collect data. Create a media outreach packet.
Develop Stakeholder Involvement Plan	Develop a community stakeholder involvement plan.	April 2007	September 2007	Finished
Secure Contractor Support	Draft and issue RFP to procure contractor support for data analysis and public involvement. Award contract.	January 2006	August 2006	Finished

Milestone / Task	Milestone/Task Description	Start Date	End Date	Status/Notes
Select indicators for eight mills	Partner with five mills and five communities to develop mill specific indicators.	January 2007	April 2008	Underway. We only have enough funding and staff resources to footprint five mills. Milestone/Task Description changed to reflect this. End date changed to April 2008. Conduct first round of stakeholder meetings for PTPC. Conduct second round of stakeholder meetings for all five participating mills. Finalize individual mill indicators.
Amend QAPP	Develop data quality objectives for five individual footprints.	February 2007	May 2008	Earth Economics recommendations finalized. We only have enough funding and staff resources to footprint five mills. Milestone/Task Description changed to reflect this. End date extended to May 2008. Finalize indicators in April 2008 to know what data we need to make quality objectives for.
Develop baseline footprints for eight mills	Collect and analyze data to complete five baseline footprints. Develop spreadsheet tool for calculations.	February 2007	July 2008	Not started. We only have enough funding and staff resources to footprint five mills. Milestone/Task Description changed to reflect this. Collect data.
Develop sector baseline footprint	Collect and analyze data to complete sector baseline footprint	February 2007	June 2008	Not started.
Carbon footprint	Partner with pulp mills to measure carbon footprint as it pertains to energy use.	September 2007	March 2008	Use ICFPA carbon footprint tool to calculate carbon and carbon equivalents from energy/electricity and purchased fuel usage on site.
Develop sector priorities	Evaluate sector footprint for improvement opportunities, waste stream analysis, establish priorities	November 2007	June 2008	In progress. Earth Economics will develop a table describing state of the art green infrastructure investments, policies, and practices for the pulp and paper sector based on both literature review and review of stakeholder involvement materials. Improvement opportunities worked on in the upcoming quarter will consist of water conservation, water quality, energy conservation, and carbon footprint reduction.
Initiate Sector Priorities	If appropriate, initiate the top sector priority.	June 2008	July 2008	
Develop Priorities for four mills	Evaluate the baseline footprint for four mills for improvement opportunities and waste stream reduction. Establish priorities.	August 2008	November 2008	

Milestone / Task	Milestone/Task Description	Start Date	End Date	Status/Notes
Initiate two of the top individual priorities	If appropriate, initiate the top priorities for two mills.	December 2008	January 2009	
Final Report	Compare mills, assess the utility of footprint measurement as a regulatory tool, and share results with stakeholders.	October 2008	April 2009	
Assess Results of Energy Challenge	Use the footprint tool to assess the results of the energy challenge.	March 2009	April 2009	

Financial Report

Budget Category	Spent This Qtr	Total Grant Approved Budget	Approved Cumulative Expenditures To Date
Personnel	6,490	83,798	50,873
Fringe	2,710	23,464	17,958
Travel	382	4,495	4,943
Operating Services	1,128		8,820
Supplies	0		1,456
Contractual	25,078	100,000	43,118
Equipment	0		
Total	35,788	211,757	127,168
Less Op Svs & Sup	0		
Indirect Costs	8,478	42,508	26,358
Total	44,266	254,265	153,526