

MONTHLY PROGRESS REPORT FOR CONTRACT NO. 500-00-036

PROJECT 2.1 – ENHANCED LANDFILL GAS PRODUCTION USING BIOREACTORS

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

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Contractor Project Director:	Patrick Lilly (360) 906-0616
Contractor Project Manager:	Bill Kitto (503) 235-5022
Commission Project Manager:	Zhiqin Zhang (916) 654-4063

What we planned to accomplish this period:

The primary focus of activity was to have been the completion of the of the waste characterization report deliverable for the Mid-Valley landfill facility in Fontana, San Bernardino County. Information on waste streams in the region requested in May was expected to be available in June. It was planned, depending on when all such information was received, that the waste characterization report would be submitted in late June or early July.

Also, a meeting scheduled between San Bernardino County staff and State Agencies and others involved in the Yolo County bioreactor project was anticipated to be held in June. It was further anticipated that this meeting would help pave the way for developing a bioreactor at the Mid-Valley landfill site.

Project planning activity was also to continue to take into account the fact that work was planned to focus on conducting research at one bioreactor site instead of two. This will allow greater focus and more effective use of Commission funds.

What we actually accomplished this period:

Task 2.1.1 Characterize Waste to be Placed in Bioreactor:

- In June, data collection activities continued in support of preparation of the Waste Characterization report. Data was received from San Bernardino County and it will supplement data obtained from statewide resources. Additionally, limited efforts continued on the identification of amendment material that might be suitable for disposal at a bioreactor. Because it is anticipated that such material was to be used in the second bioreactor, activities in this area were limited, pending a determination on whether a second bioreactor will be developed.

- A site visit to the Yolo County pilot bioreactor site was conducted for San Bernardino solid waste management staff. Following this site visit, a meeting was held in Sacramento on the project. The meeting and site visit enabled San Bernardino County staff to learn more of the previous work on the Yolo County bioreactor and to meet with the Energy Commission staff to review the project concepts and plans.
- The final activity on this task for the month of June was to initiate communication with San Bernardino County's design engineering consultant, Bryan A. Sirrat and Associates (BAS). BAS designed and permitted the Mid-Valley landfill for San Bernardino County. They are very knowledgeable on local permitting issues and the anticipated gas collection system. It is anticipated that they will join the CE Team in order to draw upon their previous experience with the local high priority sites.

How we are doing compared to our plan:

Work is generally proceeding as anticipated. An important challenge continues to be gaining regulatory acceptance of the bioreactor landfill project. As part of this activity, EPA activity to implement an R&D exemption for bioreactors is being closely followed. This regulation will be very important in successfully permitting the bioreactor project. Developments in this area are being closely followed.

Significant problems or changes:

There are no significant fiscal problems to report during this period and work is proceeding within Project budget. Progress and expenditures will result in project being completed on time and within budget.

What we expect to accomplish during the next period:

The primary focus of activity in July will be the completion of the Waste Characterization Report for the Mid-Valley landfill in Fontana, San Bernardino County. Information on waste streams in the region, which were requested in May, became available in June and it is anticipated that the report will be completed in early-to-mid July.

As a follow-up to the Yolo County site visit and meeting held in Sacramento in June, it is anticipated that meetings will be held with San Bernardino County and BAS staff in July. The primary purpose of the meeting will be to review the design of the Mid-Valley landfill to assure that its design is adaptable to a bioreactor concept. It is also anticipated that the landfill operator, Burtech, will participate in these meetings as well. Further, it is expected that information will be exchanged at these meetings, which will pave the way for efficiently developing a bioreactor at the Mid-Valley landfill site.

Status of Milestones and Deliverables:

Table 1 below summarizes the status of Project 2.1 task deliverables as of the end of the current reporting period.

Table 1: Summary of Project Status and Deliverables – Project 2.1

Task No.	Description	Start Date		Due Date		Status (%)
		Planned	Actual	Planned	Actual	
2.1.1a	Characterize MSW and Source Separated Organic Waste To Be Placed in Both Bioreactors	04/07/03	1/24/03	06/26/03		75%
2.1.1b	Characterize Food or Animal Wastes to be Placed as Amendment in the Second Bioreactor	04/07/03	1/24/03	07/09/03		5%
2.1.2	Identify Amendment Source Locations for the Second Bioreactor	04/07/03		08/06/03		
2.1.3a	Prepare Conceptual Design for the First Bioreactor	06/11/03		10/23/03		
2.1.6	Coordinate with Renewables Project Advisory Committee/TAC Critical Project Review meeting	04/07/03		07/24/03		

Explanation of any Difference(s) in Schedule:

Task 2.1.1a – Landfill Feedstock Characterization Report – Information needed to complete this report is being assembled. Efforts required to collect this information took longer than anticipated, as the primary data to be used was not available in an electronic format. This will likely lead to a delay of submittal of this report into July from the planned delivery date of June 26.

Overall Schedule for Project 2.1:

Overview of Fiscal Status:

Table 2 below summarizes the fiscal status of Project 2.1 by task as of the end of the current reporting period.

Table 2: Fiscal Status By Task – Project 2.1

Task Number	Budget	Invoiced To-Date	Fiscal Status *
2.1.1 a	\$52,117	\$0	OT
2.1.1 b	\$53,064	\$0	OT
2.1.2	\$40,476	\$0	OT
2.1.3 a	\$103,578	\$0	OT
2.1.6	\$22,512	\$0	OT

*Fiscal Status – Please indicate if you are “On Track” (OT), OverBudget (OB), or UnderBudget (UB)