



332-S1210

**First Amendment to Agreement No. 012E-A-11/12-PA  
Between the County of El Dorado  
and Dunn Environmental, Inc.**

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**THIS FIRST AMENDMENT TO AGREEMENT NO. 012E-A-11/12-PA** made and entered by and between the County of El Dorado, a political subdivision of the State of California (hereinafter referred to as "County"), and Dunn Environmental, Inc., a Corporation duly qualified to conduct business in the State of California, whose principal place of business is 5060 Robert J. Mathews Parkway, Suite 2, El Dorado Hills, California 95672 (hereinafter referred to as "Consultant").

**WITNESSETH**

**WHEREAS**, Consultant has been engaged by County to provide gas monitoring at the Meyers Landfill, in accordance with Agreement No. 012E-A-11/12-PA, dated January 25, 2012, incorporated herein and made by reference a part hereof; and

**WHEREAS**, in preparation of performance of landfill gas monitoring, County and Consultant have determined it is necessary to perform a probe network verification effort and prepare a Quality Assurance Project Plan for approval; and

**WHEREAS**, the parties hereto have mutually agreed to amend the Scope of Services to include probe network verification, sampling, and analysis for creation of a Quality Assurance Project Plan, hereby amending Article I of Agreement No. 012E-A-11/12-PA; and

**NOW, THEREFORE**, County and Consultant mutually agree that Agreement No. 012E-A-11/12-PA is amended a first time as follows:

**ARTICLE I**

**Scope of Services:** Consultant shall perform all professional and technical services and shall make available Consultant's own personnel, materials, and equipment necessary to perform the services and work for one year, designated as outlined in "Amendment I – Exhibit A" marked "Scope of Services, Revised March 7, 2012" incorporated herein and made by reference a part hereof (hereinafter referred to as the "Work").

All other sections of the Agreement No. 012E-A-11/12-PA, dated the 25th day of January, 2012 shall remain unchanged and in full force.

**REQUESTING DEPARTMENT CONCURRENCE:**

By: Gerrj Silva Dated: March 24, 2012  
Gerrj Silva, M.S., REHS  
Director, Environmental Management Department

**IN WITNESS WHEREOF**, the parties hereto have executed this First Amendment to Agreement No. 012E-A-11/12-PA the day and year last below written.

**-- COUNTY OF EL DORADO --**

Dated: 3/29/12  
By: [Signature]  
Purchasing Agent  
Chief Administrative Office  
"County"

**-- CONSULTANT --**

Dated: 3/23/12  
By: [Signature]  
Patrick F. Dunn, President  
Dunn Environmental, Inc.

**ATTEST**

Dated: 3/23/12  
By: [Signature]  
Corporate Secretary Nancy W. Dunn  
Dunn Environmental, Inc.



March 7, 2012 – Revision 2 - *Probe Verification and Plan*

Mr. Greg Stanton, Deputy Director  
Environmental Management of El Dorado County  
RE: Meyers Landfill – Gas Monitoring *Addendum*

Via Email

Dear Greg:

This Scope of Services/Fee Proposal has been prepared by Dunn Environmental, Inc. (DE) of El Dorado Hills, California in response to your November 14<sup>th</sup> email request related to the Meyers Landfill Gas Monitoring. The email attachments were used to assess the background, site access and procedures related to the monthly and quarterly landfill gas (LFG) monitoring at the Meyers Landfill located along Dump Road in Meyers, California. The monitoring includes the sampling of two passive gas-vent system ports (V-3 and V-6 – 4-inch standpipes) and fourteen separate gas probes at six locations (GMP-1 through GMP-6 – 3/4-inch probes). These sampling locations are to be monitored and reported as per the referenced June 2010, Operations, Maintenance and Monitoring Plan (OMMP, Appendix P of the RAWP) and in accordance with the California Code of Regulations (CCR) Title 27, U.S. Forest Service and the County requirements. *This revision is based on the effort needed to complete the probe verification and preparation of the sampling and analysis and Quality Assurance Project Plan*

**SCOPE OF SERVICES – Revised elements in italics**

**Task 0 – Probe Verification, Sampling & Analysis / Quality Assurance Project Plan**

*Under this task, DE will complete a site visit, perform a probe network verification effort and prepare the referenced plan for approval. These efforts are needed to verify depths, integrity and use of the existing probe network. The plan document efforts include detailing the field sampling, laboratory analysis quality assurance protocols and reporting requirements as per the CalRecycle and project documents.*

**Task 1 – Landfill Gas Field Monitoring 2012**

Under this task, DE will complete the required per event landfill gas field monitoring as documented in Section 2.2 of the OMMP. Monthly and quarterly gas monitoring

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frequencies have been referenced in the OMMP for the sixteen sampling locations. Starting in *March 2012 until December 2012*, the landfill gas locations will be first sampled using a portable gas analyzer, Landtec Gem2000™ or equivalent. An additional pump will be used to augment large purge volumes. Gas monitoring will be completed by connecting the gas analyzer to the sample and drawing air from the monitoring locations. Gas concentrations for methane, oxygen and carbon dioxide will be recorded in the field. Once gas concentrations have stabilized and three well purge volumes have been removed, DE will record gas concentrations on the field data sheet and disconnect gas analyzers from the well head for immediate laboratory volatile organic (VOC) sampling described under Task 2. Data sheets will also be used to report the date, time, barometric pressure, temperature and general weather conditions for each sample location. We will coordinate with the County for field duplication of the monitoring efforts.

#### **Task 2 – Landfill Gas Laboratory VOC Fixed Gas Testing 2012**

Under this task effort and as per the OMMP, DE will immediately collect: 1) TO-15 VOCs as per EPA, 2) ASTM 1946 – Fixed Gases (O<sub>2</sub>, CO, CH<sub>4</sub>, CO<sub>2</sub>), 3) ASTM D 5504 – Sulfur Compounds with summa canisters and tedlar bags. On a per sample basis, the cost for these analyses is \$400; or \$6,400 per event quarterly or \$800 per event monthly. The two gas vents will be sampled monthly and the 14 gas probes will be sampled quarterly.

#### **Task 3 – Reporting**

Under this task effort, DE will provide narrative and tabular summary of field monitoring and report findings to the County and Forest Service in a letter report within 60 days of field monitoring.

#### **COMPENSATION ESTIMATE**

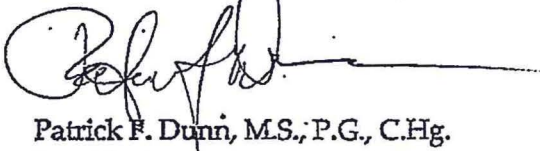
For this costing effort, we have estimated 2012 lump sum fee of \$45,800. This includes efforts related to field and plan/report documentation. The maximum fee anticipated for the annual contract ending January 2013 is broken down on a per task basis as follows:

- Task 0 – Verification and SAP/QAPP - not to exceed - \$5,500
- Task 1 – Landfill Gas Field Monitoring – not to exceed - \$9,000
- Task 2 – Landfill Gas Laboratory VOC Testing – not to exceed - \$26,300
- Task 3 – Reporting – not to exceed - \$5,000

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DE appreciates the opportunity serve you on this very important compliance project.  
Please do not hesitate to call with questions.

Sincerely,  
**DUNN ENVIRONMENTAL, INC.**

A handwritten signature in black ink, appearing to read 'Patrick F. Dunn', with a long horizontal line extending to the right.

Patrick F. Dunn, M.S., P.G., C.Hg.  
President

PFD