

Landfill Project Submittal Form

Instructions: Please complete all fields as thoroughly as possible. If the project in question is still in the planning/development phase, all fields must be completed using best available data and estimates based on the proposed system design. This is an interactive Word form. Upon completion, please save this form as a PDF prior to uploading it to the Reserve. This will lock your answers and protect the document from any further changes. All fields must be completed, even if the answer is also provided elsewhere; if a field is not applicable insert N/A in the space provided. Upon approval, this form will become public.

Reserve project ID (numerical, as it appears in the Reserve software): **CAR521**

Project crediting period (select only one):

☐ First crediting period

☒ Second crediting period

Section 1: Project Contact Information

Project name (as it appears in the Reserve software): **Maple Hill Landfill**

Account holder (as it appears in the Reserve software): **Veolia ES Maple Hill Landfill, Inc**

Is the account holder authorized to sign the "Attestation of Title" form? ☒ Yes ☐ No

Gas collection and control system owner: **Veolia ES Maple Hill Landfill, Inc**

Technical consultants: **N/A**

Other parties with a material interest: **Element Markets, LLC**

Date of form completion: **9/14/2012**

Form completed by (name, organization): **John McDougal, Element Markets, LLC**

Section 2: General Project Site Information

1. Name of landfill: **Veolia ES Maple Hill Landfill**
2. Project description (Please provide one to two paragraphs): **The landfill gas collection and control system was developed in four (4) phases. Phase I, II, and III were drilled and installed in May 2002 to passively vent until the active system came online later in September 2002. This portion of the system consisted of eighteen (18) vertical gas wells and two connections to the leachate cleanouts. Phase IV was drilled and installed in December 2006, and the expansion was connected to the active system. This portion of the system consisted of 6 vertical wells and two (2) connections to the leachate cleanouts. All gas is destructed in an open flare.**

3. Project site address (including county and state): **31226 Intrepid Road, Macon, Missouri 63552, Macon County, USA**
4. Owner of landfill (name and organization): **Veolia ES Maple Hill Landfill, Inc.**
5. Type of landfill (sanitary, controlled, or open dump): **Sanitary**
6. Type of waste accepted (MSW, demolition debris, organic, etc.): **MSW, C&D and Non-Hazardous Special Waste**
7. Average annual quantity of waste accepted at landfill (metric tons): **137,000**
8. Total waste in place (WIP) at project start date (metric tons): **3.15 MMT**
9. Designed landfill capacity (cubic meters or tonnes): **14,284,156 cubic meters**
10. Year landfill opened: **1976**
11. Year landfill closed or estimated date of closure (if known): **2080**

Section 3: Project Eligibility and Monitoring

12. Please select the project protocol under which this project is being submitted:

- ☒ U.S. Landfill Project Protocol, Version **4.0**
- ☐ Mexico Landfill Project Protocol, Version

13. Project start date (format MM/DD/YYYY): **9/16/2002**

14. First reporting period (MM/DD/YYYY): **9/17/2012 to 9/16/2013**

15. Description of the landfill gas destruction system, including number and type of destruction devices, as well as the metering and data collection systems (one to two paragraphs): **All landfill gas from this system is destructed in an open flare. Gauges on the blower/flare skid continuously measure the pressure and temperature of the landfill gas, and the landfill gas flow rate is measured by a thermal mass flow meter, which automatically adjusts for temperature and pressure. The aforementioned data is continuously collected via Sensophone SCADA 3000 data recorder. Methane content is measured by a LANDTEC GEM-2000 device portable gas analyzer on a weekly basis.**

16. If the project is being submitted under U.S. Landfill Project Protocol V4.0 or above, and the landfill gas is being utilized for energy production¹:
- a. Identify the precipitation zone of the landfill site county (refer to the U.S. Landfill Project Protocol V4.0, Appendix A): ☐ Arid ☐ Non-Arid

¹ For the definition of a landfill gas-to-energy project, refer to the Glossary of Terms, Landfill Project Protocol V4.0.

b. What is the estimated date that the landfill will cross the relevant WIP threshold (2.17 MMT for arid counties and 0.72 MMT for non-arid counties)?:

17. Has this project been submitted to another registry or program? If so, has the project been accepted (listed, approved, pre-approved, etc.) by the other registry or program? **Yes, credits were claimed on CCX for the period from 9/19/2002 through 12/31/2007. A project transfer form has already been completed, and the project has been generating CRTs through CAR since 12/13/2008.**

18. Have any GHG reduction tonnes from the project ever been registered with or claimed by another registry or program prior to registering with the Reserve?

☒ Yes ☐ No

If yes, you must complete and return a "Project Transfer" form.

19. Have any GHG reductions from the project ever been sold directly to a third party (i.e. sold without being registered with or claimed by another registry or program) prior to registering with the Reserve? (If yes, please describe): **No**

20. Is the landfill subject to NSPS Regulation (greater than 2.5 million tonnes capacity)?

☒ Yes ☐ No

21. If applicable, date of most recent Tier I or Tier II NMOC test (format MM/DD/YYYY):
4/13/2009

a. NMOC emissions per year (Mg/year): **2012 34.44 Mg/yr**

b. Date at which landfill did or is expected to exceed 50 Mg NMOC per year (format MM/DD/YYYY): **01/01/2021**

22. Description and citation of all local and state air and water quality, explosive gas, or other regulations pertinent to the landfill or landfill gas destruction project: **CFR 60 Subpart WWW; CFR 63, Subpart AAAA; CFR 61, Subpart M; Code of State Regulations (CSR) Title 10, Division 10 Conservation Commission; CSR Title 10, Clean Water Commission; Title 10, Division 80 Solid Waste Management;**

23. Is this project being implemented and maintained as the result of any law, statute, regulation, court order, or other preexisting legally binding mandate?

☐ Yes ☒ No

If yes, please explain.

24. Has a detailed monitoring plan been developed for this project? If not, by what date will a monitoring plan be in place? **Yes**

Section 4: Baseline Destruction Information

25. Did the landfill ever collect and destroy landfill gas using a non-qualifying destruction device (e.g. passive flares)?

☐ Yes ☒ No

If yes:

- a. What date was this system operational (MM/DD/YYYY):
- b. Please describe (number of wells, destruction devices, etc.):
- c. What deduction (scfm) will be taken to account for this baseline destruction?
- d. What methodology will be used to quantify this deduction?

26. Did the landfill ever collect and destroy landfill gas using a qualifying destruction device (e.g. candlestick flare, engine)?

☐ Yes ☒ No

If yes:

- a. What date was this system operational (MM/DD/YYYY):
- b. Please describe (number of wells, destruction devices, etc.):
- c. What deduction (scfm) will be taken to account for this baseline destruction?
- d. What methodology will be used to quantify this deduction?

27. Additional information (if any):

End of form