

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): **CAR512**

Project crediting period (select only one):

☐ First crediting period

☒ Second crediting period*

*If the project is being submitted for a second crediting period, please send an email to reserve@climateactionreserve.org notifying the Reserve Administrator

Section 1: Project Contact Information

Project name (as it appears in the Reserve software): **Rio Grande Valley Landfill**

Account holder (as it appears in the Reserve software): **BFI Waste Systems of North America, LLC**

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

Gas collection and control system owner: **BFI Waste Systems of North America, LLC**

Technical consultants: **Element Markets, LLC**

Other parties with a material interest: **N/A**

Date of form completion: **1/23/2015**

Form completed by (name, organization): **Mihaly Wekler, Element Markets, LLC**

Section 2: General Project Site Information

1. Name of landfill: **Rio Grande Valley Landfill**
2. Project description (Please provide one to two paragraphs): **The Rio Grande Valley Landfill is a Type I MSW landfill located in Hidalgo County, TX. The initial phase of the voluntary landfill gas collection and control system became active in February 2005. The system consists of 55 vertical landfill gas extraction wells with associated**

collection piping and flare skid. The destroyed landfill gas is measured for flow, temperature and methane content.

3. Project site address (including county and state): **Farm to Market 493 and Mile 12 Road, Donna, Texas 787537, Hidalgo County, USA**
4. Owner of landfill (name and organization): **BFI Waste Systems of North America, LLC**
5. Type of landfill (sanitary, controlled, or open dump): **sanitary**
6. Type of waste accepted (MSW, demolition debris, organic, etc.): **MSW**
7. Average annual quantity of waste accepted at landfill (metric tons): **N/A**
8. Total waste in place (WIP) at project start date (metric tons): **3,738,887**
9. Designed landfill capacity (cubic meters or tonnes): **4,734,036**
10. Year landfill opened: **1994**
11. Year landfill closed or estimated date of closure (if known): **2015**

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): **02/21/2005**

14. First reporting period (MM/DD/YYYY): **1/8/2010 to 1/27/2010**

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): **An active landfill gas control and collection system (LFGCCS) was constructed between May 26, 2004 and June 1, 2004 and became operational on February 21, 2005. The initial LFGCCS involved the following components: (1) installation of gas collection piping system including fifteen active landfill gas extraction wells, (2) channel crossing, (3) leachate collection system (LCS), (4) clean-out riser connections, (5) condensate management system, and (6) installation of a blower/flare skid. The majority of these components were installed and completed by December 2004, with exception of the utility flare. The flare was installed by Shaw EMCON/OWT, Inc., in February 2005. The LFGCCS was expanded in the fall of 2005 to include the installation of eleven new vertical gas extraction wells. In 2006, ten additional landfill gas extraction wells were installed and in 2008, eight vertical gas extraction wells as well as a U-trap connection to the existing leachate cleanout riser were installed. From April to September of 2013, twenty-seven vertical extraction wells were added to the LFGCCS. The current system has a total of eighty-eight vertical extraction wells.**

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
- 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? **N/A**

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): **N/A**

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):
12/10/2014

a. NMOC emissions per year (Mg/year): **31.45**

b. Date at which landfill did or is expected to exceed 50 Mg NMOC per year (format MM/DD/YYYY): **N/A - site stopped accepting waste on 9/21/2013. While the landfill is not yet officially registered as closed, finalization of final cap placement and official closure is in process. Accordingly, NMOC emissions will not exceed 50 Mg and no further Tier II NMOC testing is required.**

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: **Texas Administrative Code (TAC) Title 30, 30 TAC:330 Air Standard Permit, 30 TAC:122 General Operating Permit, 30 TAC:3005.70 LFGCCS**

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.

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

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