



Landfill Project Submittal Forms

Instructions:

This project form must be submitted to the Reserve and to the verifier in the first year of reporting prior to verification. In some cases, it may be necessary to update parts of the Project Submittal Form in subsequent years. All information in this Form will be made publicly available.

These forms are to be used for reporting general Landfill Project information to the California Climate Action Registry in order to initiate the project listing process. All fields must be completed as thoroughly as is possible. If the project in question is still in the planning/development phase, all fields must be completed using best available data and estimations based on the proposed system design. Upon receipt of completed submittal forms, Registry staff will perform a general eligibility screen (in accordance with the most current version of the California Climate Action Registry Landfill Project Reporting Protocol) based on the information provided. Project Developers can expect an Invoice for the \$500 project listing fee within 15 days of receipt of the completed forms, and a letter regarding the status of the project within 15 days of the receipt of the project listing fee. If a project passes the eligibility screen, it will be officially "listed" with the Climate Action Reserve.

This is an interactive PDF form that can be filled out and saved as a PDF. All fields must be completed, if a field is not applicable insert N/A in the space provided. The completed form must be saved and uploaded to your Climate Action Reserve account. Submit all questions regarding the project submittal process to: reserve@climateresistry.org.

Be sure to fill out the invoicing contact info below, in order to expedite the process.

Please provide contact information for invoicing purposes:

Name: Sharon R. Frank

Email: Confidential

Address: Confidential

Phone: Confidential

Fax: Confidential

Version 2.1
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Form 1: General Landfill Information

1. Date of form completion:

10/20/08

2. Form completed by (name): Sharon R. Frank

3. Name of Landfill: McKinney

4. Approximate Latitude/Longitude of Landfill Project (degrees/minutes/seconds):

33.17304/-96.61596

5. Address (including county):

500 Old Mill Road, McKinney, TX 75069 (Collin County)

6. Owner of Landfill and owner contact information:

North Texas Municipal Water District (NTMWD), James Parks, Executive Director, P.O. Box 2408, Wylie TX 75098-2408, 972-442-5405

7. Type of landfill (sanitary, controlled, or open dump):

Sanitary

8. Landfill size – designed area for waste placement (acre or hectare):

65 acres

9. Total waste in place (cubic meters or tons): 5,543,589 Mg (6,097,948 short tons)

10. Designed landfill capacity (cubic meters or tonnes): > 2.5 Mg



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11. Year landfill opened: 1968

12. Year landfill closed or estimated date of closure: 12/31/2008

13. Approximation of percent municipal / industrial / inert wastes:
100 % municipal until 2004, Since 2004 all Construction & Demolition (C&D) waste (inert)

14. Average annual quantity of waste accepted at landfill (cubic meters or tonnes):

1968-1995 (~45,000 tonnes), 1995-2008 (~500,000 tonnes)

15. Description of any regulatory framework for landfill methane capture and control (include an estimate of the date which the landfill will meet or exceed the 50 megagrams per year threshold of calculated NMOC emissions per NSPS/EG regulations and the type of testing that justifies the estimate (i.e. Tier 1 or Tier 2 NMOC emission rate estimates)):

There is no regulatory framework for LFG capture & control. Based on Tier 2 conducted September 2007 the NMOC emissions = 41 Mg/yr and the NMOC emissions will only decline because of the type of waste being accepted and the 12/31/08 closure date.

16. Description of local and state air and water quality, explosive gas, or other regulations pertinent to the project:

Explosive gas - TCEQ Title 30 Rule 330.371, Air Quality - TCEQ Title 30 Rules in Section 116



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17. Is this project required by any local, state, or federal regulation? Yes ☐ No ☒

Comments (if any):

18. When did the project first commence operation, or when is the project expected to commence operation?

Flare installed 6/2008 and operation commenced 8/2008

19. Description of waste picker and recycling activities:

N/A

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

Yes

21. What Version or publication date of the Landfill Project Reporting Protocol is the project documentation based upon? 2.0

22. Have any vintage reduction tons from the project ever been registered with or claimed by another registry or program, or sold to another third party prior to registering with the Reserve?

No

If the answer is yes, you must complete and return a "*Project Transfer*" form.



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22. Waste Characteristics Table

<i>Waste Types</i>	Estimated Percent of Waste Stream
Food Waste	9
Garden and park waste	19
Wood	7.3
Paper and textiles	36.2
Plastics	12.5
Concrete	1.8
Metal	7.7
Other Inert waste	6.5

Explain basis of estimates (i.e. site specific information, regional or national studies, etc.):

National Averages from 1992 EPA Report by Franklin Associates



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Form 2: Pre existing landfill gas control system information

1. Type of existing landfill gas collection and control system in place, if any (e.g., flare, energy recovery etc.):

N/A, no gas collection and control in place prior to this project

- i. If Landfill gas collection system is in place, is the system actively collecting or passively venting gas?
-

- ii. If flare or energy project is in place, what is the landfill gas flow rate (in scfm) and methane content?
-

- iii. Supply a copy of the as built drawings for the existing system. (Attach as a separate PDF file titled: Existing LFG System Diagram)

- iv. Name of system designer, address and other contact information.
-

2. When was this control system installed and operational?
-

3. Provide a summary of the permits obtained to build and operate this Landfill Gas Control System).
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Form 3: Landfill gas utilization information for project activity

1. Landfill gas utilization (e.g., flared, generation of electricity, use on-site as a boiler or furnace fuel, or sale to a third party):

LFG is currently flared (950 scfm/57% CH₄). Applications have been submitted for an electricity project.

2. When was this combustion/LFG utilization system installed and operational, or when is it expected to be installed and operational?

Collection system & flare installed in May & June 2008. System operational by August 2008.

3. If designed to generate electricity:

- a. Type of engine-generator set (e.g., internal combustion engine, micro turbine or fuel cell with the name of the manufacturer, model, power output rating (kW or MJ) for biogas, and nominal voltage :

Permit application submitted for two (2) CAT 3250 internal combustion engines. Each engine has a power output rating of 1600 kW on landfill gas.

- b. Pretreatment of landfill gas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc. with the names of manufacturers, models, etc.):

Flare pretreatment - condensate trap, particulate filter/ Engine pretreatment - to be determined but will likely include condensate trap, dryer, and H₂S removal

- c. Exhaust gas emission control (e.g., none, catalytic converter, etc.):

None, engine will meet BACT for Dallas, TX area.

- d. If interconnected with an electric utility:

- Name of the utility: To be determined
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- Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering):

Not yet determined



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e. If engine-generator set waste heat utilization:

- Heat source (e.g., cooling system or exhaust gas or both) and heat recovery capacity (Btu or kJ/hr):

Not designed yet

- Waste heat utilization (e.g., water heating, space heating, etc.):

Not designed yet

4. If designed to use on-site as a boiler or furnace fuel, a description of the boiler or furnace including manufacturer, model, and rated capacity (Btu or kJ/hr):

N/A

5. If designed for biogas sale to a third party, a description of the methods of processing, transport, and end use:

N/A

- a. Pretreatment of Biogas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc.) include names of manufacturer, model etc.:

N/A

- b. Exhaust gas emission controls from gas processing step:

N/A



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6. Provide a summary of the permits obtained to build and operate this Landfill Gas Utilization System).

Flare Standard Registration 83750, Issued by TCEQ to McKinney LFG, LLC (subsidiary company of Montauk Energy Capital, LLC) on 1/18/08/ Type I MSW Modification Permit issued by TCEQ to McKinney Landfill (NTWMD) on 2/13/08

Permits filed or planned: Standard Permit Registration for Electric Generating Units and Abbreviated Title V permit application to TCEQ by McKinney LFG, LLC on 10/3/08. Solid waste permits to be filed 12/08.

