

Earth Sciences Material Facility Plan

April 04, 2011

To: Department of Community Health and The Environment
From: Carl Steven Generi

1.0 Introduction

1.1 Earth Sciences L.L.C. Is a farm that supports tree and conservation food plots by using organic matter for multiple agricultural purposes. It is located at 1252 Guthrie Road (Township 47 North, Range 2 East of the fifth Meridian, Section 15 in St Charles County) with approximately 58 acres. It has three private access roads at each end of the property and one in the middle. The property has two wells. One is used for agriculture purposes and the other for home use. They are both located by the main residence at 1252 Guthrie Road.

2.0 Hours of Operation

2.1 The hours of operation are 7 am till 5 pm Monday thru Friday.

3.0 Acceptable Waste

3.1 Grass, Vegetation, Leaves, Tree Chips, Small Limbs, Saw Dust, Manure and Fertilizer.

4.0 Unacceptable Waste

4.1 All other materials are sorted out manually at various stages in the agricultural process. They are put in the company's dumpster where they go to the landfill.

5.0 Source of Yard Waste

5.1 Waste Management

5.2 Christian Environmental

5.3 City of O'Fallon

5.4 Broyles Lawn Care, Cuivre River Electric, and St. Charles County residents may dump wood chips, grass and leaves. This accounts for approximately 1% of the total.

6.0 Nuisance Control

6.1 Nuisance Control is daily event. All trash is picked up and discarded in a dumpster when the yard waste is sorted.

6.2 All sheds and work areas are kept clean and free of any debris.

6.3 If any rodents are detected they are dealt with.

7.0 Air Resource Protection

7.1 There is No grinding and my agricultural well provides water for dust control. I also incorporate the yard waste into the soil where crops are planted.

7.2 There is No open burning and the farm is gated and secured.

8.0 Water Quality Protection

8.1 Water Quality Protection is guaranteed because I use and go beyond the MDNR Best Practices which provide buffer areas of crops, grass and tree fields.

8.2 Point and Non Point Source Discharge

All yard waste dumping and sorting is done on the top hill ground where any discharge is soaked up by fields of grass, crops and trees.

9.0 Gate Locations

9.1 There are three gate locations , one 200 yards east of 1252 Guthrie Road, another 100 yards south of 1252 Guthrie Road and the third 300 yards south of 1252 Guthrie Road.

10.0 Processing Areas

10.1 There are three processing areas listed above. They are an acre in size and square in shape. The material comes in and is dumped, sorted and then goes thru a series of spreading processes before it is used in the agricultural process. The methods are proprietary and involve offset disks, bag buster harrows and disk harrows.

11.0 Storage Areas

11.1 There is one small storage area 100 yards in size by the main residence at 1252 Guthrie Road. It contains finished compost for gardens yards and tree planting.

12.0 Finished Compost Distribution Plan

12.1 The farm uses approximately 95% of the yard waste received. This is used in soil amendment, soil reconstruction, mulching for nutrition as well as water conservation etc.,

12.2 The farm also provides compost and top soil for the organic gardener, as well as yard restoration and tree planting. Currently this is 5% and growing. The other 95% is used on the farm as mention above.

13.0 Site Security Measures

13.1 All entrances are gated and locked.

13.2 Trespassing and Scavenging are prohibited

14.0 Emergency Procedures

14.1 911 for any emergency

14.2 Fire Wentzville Fire District 636 949 3042

14.3 St. Charles County Sheriff 636 949 0809

15.0 Certificate of Liability Insurance

15.1 State Farm, Lewis Fruend Agent 1072 East Terra Lane, O'Fallon Missouri, 63366 Phone: 636 240 7426

15.2 If any changes are made SCC will be notified and will remain the certificate holder.

16.0 Closure Plan

16.1 The yard waste is used every year on my farm. If at anytime the operation comes to an end the farm will be planted out for that year.