SECTION B
FACILITY DESCRIPTION

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SECTION B - FACILITY DESCRIPTION

TABLE OF CONTENTS

1.0 GENERAL DESCRIPTION [40 CFR 270.14(b)(1)] .............................................................. 1
  1.1 Facility .................................................................................................................... 1
  1.2 Waste Management Activities ............................................................................. 1
    1.2.1 Fuel Quality Wastes .................................................................................... 1
    1.2.2 Wastewaters ................................................................................................... 1
    1.2.3 Non-processibles ............................................................................................ 2
  2.0 TOPOGRAPHIC MAP [40 CFR 270.14(b)(19)] ......................................................... 2
  3.0 SURFACE WATERS [40 CFR 270.14(b)(19)(iii)] ...................................................... 2
  4.0 FLOODPLAIN STANDARD [40 CFR 264.18(b), 270.14(b)(19)(ii)] ............................ 2
  5.0 SURROUNDING LAND USE [40 CFR 270.14(b)(19)(iv)] ........................................ 2
  6.0 WIND ROSE [40 CFR 270.14(b)(19)(v)] .................................................................... 2
  7.0 LEGAL BOUNDARIES [40 CFR 270.14(b)(19)(vii)] ................................................. 3
  8.0 ACCESS CONTROL [40 CFR 270.14(b)(19)(viii)] ................................................. 3
  9.0 INJECTION AND WITHDRAWAL WELLS [40 CFR 270.14(b)(19)(ix)] .................. 3
 10.0 LOCATION OF SOLID WASTE MANAGEMENT UNITS (SWMUs) [40 CFR 270.14(d)(1)(i)] .......................................................................................................... 3
 11.0 SEISMIC STANDARD [40 CFR 264.18(a), 270.14(b)(11)(i),(ii)] ............................... 3
 12.0 TRAFFIC INFORMATION [40 CFR 270.14(b)(10)] ................................................. 3
    12.1 Site Access ......................................................................................................... 3
    12.2 On-Site Traffic Patterns .................................................................................... 4
    12.3 Estimated Traffic Volume .................................................................................... 4
    12.4 Traffic Control Signs .......................................................................................... 4
 13.0 BUILDINGS AND OTHER STRUCTURES ................................................................ 4
 14.0 FIRE CONTROL FACILITIES .................................................................................. 4
 15.0 PRESUMPTION OF UNAPPROVABLE SITE ............................................................... 4
 16.0 AIR POLLUTION ..................................................................................................... 5
 17.0 LATITUDE / LONGITUDE ......................................................................................... 5

LIST OF FIGURES:

FIGURE B-1 USGS TOPOGRAPHIC MAP -PROPERTY BOUNDARY ...................................... 6
FIGURE B-2 1000-FT TOPOGRAPHIC MAP ...................................................................... 7
FIGURE B-3 SURFACE DRAINAGE MAP ........................................................................ 8
FIGURE B-4 100-YR FLOOD PLAIN AND WATER WELL LOCATIONS ................................ 9
FIGURE B-5 SURROUNDING LAND USE ......................................................................... 10
FIGURE B-6 WIND ROSE ............................................................................................... 11

LIST OF ATTACHMENTS:

ATTACHMENT B-1 SYSTECH PROPERTY DEED
SECTION B - FACILITY DESCRIPTION

1.0 GENERAL DESCRIPTION [40 CFR 270.14(B)(1)]

Systech Environmental Corporation (Systech) owns and operates the waste management facility (the "facility") located within the Tulsa Cement LLC d.b.a. Central Plains Cement Company (CPCC) (the "plant") in Tulsa, Oklahoma. The plant is owned and operated by CPCC. The facility and the plant are operated as a resource recovery site. Systech activities include the receiving, blending, and storage of hazardous waste fuel that is recycled as fuel by CPCC for manufacturing cement. The storage of hazardous wastes at the facility is regulated under the Resource Conservation and Recovery Act (RCRA) and under the Oklahoma Hazardous Waste Regulations.

1.1 Facility

The permitted facilities include:

- Two 180,000-gallon liquid waste storage tanks;
- Pumps and piping ancillary to the tank storage;
- Truck unloading bay storage of two tanker trucks;
- Container storage of up to twenty 55-gallon drums (or equivalent) in the truck unloading bay.

1.2 Waste Management Activities

The principal waste management activity at the site is the receipt and preparation of off-site wastes as fuel for the cement kilns co-located at the plant. The waste fuels include both hazardous and non-hazardous wastes. The primary type of fuel managed at the facility is Fuel Quality Waste (FQW) which is liquid hazardous waste. Any materials separated from the incoming wastes that cannot be handled as FQW are called non-processibles. The facility activities regulated by RCRA at the Systech facility are tank storage (S02), container storage (S01) (also truck off-loading area), and treatment in tanks (T04).

1.2.1 Fuel Quality Wastes

Spent organic solvents and used oil from off-site industries and fuel blenders are most frequently received at the facility. Paint manufacturing, printing, lubrication, parts cleaning, and manufacturing represent the major activities producing the wastes. Select flammable and combustible wastes generated by other industries are used when available.

All liquid waste fuel is received in bulk trucks which are unloaded directly into the storage tanks. The liquid waste fuels are pumped from the FQW tanks to the plant and are combusted in the cement kilns at the plant.

1.2.2 Wastewaters

The wastewater generated on-site is precipitation that falls in the hazardous waste tank containment areas. The containment areas are sloped to sumps. Precipitation is collected in the sumps and pumped from the sumps to the storage tanks if the waste is found to not be contaminated and is not a hazardous waste. The non-contaminated stormwater from the water tanks will be used in the CPCC spray water system or discharged to the CPCC stormwater system. Contaminated stormwater will be blended into the FQW or otherwise properly disposed of off-site.
1.2.3 Non-processibles

Some wastes are generated on-site from general housekeeping and laboratory activities. Wastes that cannot be handled as fuels are placed in containers and stored in the truck unloading bay storage area until they are sent to an approved permitted off-site treatment, storage or disposal facility (TSDF).

2.0 TOPOGRAPHIC MAP [40 CFR 270.14(B)(19)]

The facility is located in Rogers County, Oklahoma. Figure B-1 is a topographic map of the Systech facility that displays features within 1,000 feet of the plant, including buildings, structures, and internal roads. The 1,000-foot radius is fully within the surrounding CPCC property. Surface waters and streams in the vicinity of the plant are also shown on Figure B-1. Figure B-2 is a topographic map with a scale of 1-inch equals 200 feet. The date of the maps is included in the title block, and the map orientation is marked on the maps. On the 2-foot contour interval on Figure B-2, it is possible to see the surface water flow pattern at the facility.

3.0 SURFACE WATERS [40 CFR 270.14(B)(19)(III)]

The surface waters near the facility include Bird Creek about 1.5 miles north of the Systech facility, and Mingo Creek about 2 miles west of the facility. Mingo Creek runs north into Bird Creek, which drains to the east into the Verdigris River about 4 miles to the east. These surface waters are shown on Figure A-1 of Section A.

Drainage around the Systech facility runs as sheet flow to the CPCC drainage system which is collected in a stormwater pond in the southwest corner of the CPCC facility. Figure B-3 illustrates the storm water flow across the site.

The Systech facility is not located within one mile of the conservation pool elevation of any reservoir which supplies water for a public water supply or within one mile of any scenic river per OAC 252:205-11-2(d).

4.0 FLOODPLAIN STANDARD [40 CFR 264.18(B), 270.14(B)(19)(II)]

The Systech facility is not located within a 100-year flood zone. Figure B-4 includes the Floodplain Map, FEMA FIRM IDs 40145C, 40143C, 40131C (April 17, 2012) that indicates there are no flood prone areas in the active portion of the facility. A portion of the southern end of the CPCC facility is within the 100-year flood plain, but this area is approximately 1200 feet south of the Systech property. The Systech facility is not located in the 100-year floodplain; and no flood control structures or drainage barriers are required.

5.0 SURROUNDING LAND USE [40 CFR 270.14(B)(19)(IV)]

The land use within 1000-feet surrounding the Systech facility is illustrated on the topographic map (Figure B-1). Property within 1,000-feet of the Systech permitted waste management units is within the CPCC owned property. Figure B-5 illustrates the land use zoning in a 4-mile radius around Systech.

6.0 WIND ROSE [40 CFR 270.14(B)(19)(V)]

A wind rose for Tulsa, Oklahoma for 2005 to 2020 was obtained from NOAA and is provided as Figure B-6.
7.0 LEGAL BOUNDARIES [40 CFR 270.14(B)(19)(VII)]

The legal boundaries of the Systech facility are shown on Figure B-1. A copy of the Systech deed is included in Attachment B-1. Systech owns the property where their operations are performed.

8.0 ACCESS CONTROL [40 CFR 270.14(B)(19)(VIII)]

The Systech facility is within the CPCC facility which is enclosed by a fence with lockable gates. In addition, when Systech employees are not present within the Systech portion of the plant, cement plant personnel are on duty twenty-four hours a day and assist in the prevention of entry by unauthorized persons. Gates from the public road (2701 N. 145th East Ave.) are either under access control or closed and locked during evening and weekend hours. See Section F, Procedures to Prevent Hazards for a detailed description of facility security.

9.0 INJECTION AND WITHDRAWAL WELLS [40 CFR 270.14(B)(19)(IX)]

There are no known injection or withdrawal wells within one-quarter mile of the Systech facility, per the Oklahoma Water Resources Board. See Figure B-4 for the locations of all water wells.

10.0 LOCATION OF SOLID WASTE MANAGEMENT UNITS (SWMUS) [40 CFR 270.14(D)(1)(I)]

There are no SWMUs on the Systech property other than the permitted waste management units. See Section M. The locations of the waste management units are shown on Figure A-2 of Section A of the application.

11.0 SEISMIC STANDARD [40 CFR 264.18(A), 270.14(B)(11)(I),(II)]

The Systech Tulsa plant is located in Rogers County, which is not listed in Appendix VI of 40 CFR Part 264 as being an area that must demonstrate compliance with the seismic standard. Therefore, the requirements for demonstrating compliance with the seismic standard are therefore not applicable.

12.0 TRAFFIC INFORMATION [40 CFR 270.14(B)(10)]

All hazardous waste-derived fuel shipments to the Systech site are received by tank truck.

12.1 Site Access

Truck access to the site is via truck routes from US Highway 169 to the west of the facility which is a 4-lane, divided, limited access highway. The routes are as follows from US 169:

- Exit off of US 169 at the 36th Street North exit onto the access ramp to stop sign;
- Turn east on East 36th Street North from the ramp;
- Turn right (south) on North 141st East Avenue to stop sign;
- Turn left on East Apache Street to stop sign;
- Turn left on North 145th East Avenue to plant entrance;
• Turn right into CPCC Cement Plant;
• Follow signs to Systech.

12.2 On-Site Traffic Patterns

Within the CPCC cement plant, the trucks carrying the FQW will enter the north (third) gate. If the trucks arrive with a weigh ticket, the trucks will then proceed around the north end of the cement operations, then to the Systech truck unloading pad. After unloading, the trucks will return to the north end of the CPCC processing area to exit the area in the opposite direction to which they entered. Trucks that arrive without a weigh ticket will be weighed before and after unloading by using the scales that are on this route.

12.3 Estimated Traffic Volume

At peak periods, up to 30 FQW delivery trucks may travel to and from the plant daily. These trucks are tractor/trailer combinations.

12.4 Traffic Control Signs

Traffic routing and control at the CPCC Tulsa plant allows for free and safe access of routine and emergency traffic around the plant. Plant access roads are surfaced with gravel or concrete and are designed with a load-bearing capacity that is sufficient to support the vehicles operated at the plant. The Systech facility within the CPCC plant has only the Truck Unloading Pad as part of the traffic control system.

13.0 BUILDINGS AND OTHER STRUCTURES

Figure A-2, Site Plan in Section A of the application, shows the location and arrangement of the buildings and structures of the CPCC cement plant and the location of the Systech operations and permitted waste management units contained within.

14.0 FIRE CONTROL FACILITIES

The principal fire control is an automatic AFFF foam fire system which meets NFPA standards. The system provides protection for the truck unloading pad and the tank farm. Water is supplied from the CPCC fire water system which is connected to the city water supply. In addition, numerous portable fire extinguishers are located around the facility. Figure F-1 of Section F illustrates the locations of fire hydrants throughout the facility.

15.0 PRESUMPTION OF UNAPPROVABLE SITE

The facility is not located in an area that lies wholly or partially within an area designated as an actual or potential unconsolidated alluvial aquifer or terrace deposit aquifer or bedrock aquifer or recharge area, as shown on the maps described as "Sheet 1 - Unconsolidated Alluvium and Terrace Deposits" and "Sheet 2 - Bedrock Aquifers and Recharge Areas" of the "Maps Showing Principal Ground Water Resources and Recharge Areas in Oklahoma," compiled by Kenneth S. Johnson, Oklahoma Geological Survey (1983) or any successor map(s) compiled by the Oklahoma Geological Survey.

The storage facility is not sited in or over a principal groundwater resource or recharge area.
16.0 **AIR POLLUTION**

The Systech facility is not proposed to be located within one mile of any public school, educational institution, nursing home, hospital or public park per OAC 252:205-11-2(e).

17.0 **LATITUDE / LONGITUDE**

The Systech facility is located in the southwest corner of Rogers County within the CPCC property. The location of the processing operations where hazardous waste will be managed is described by the latitude and longitude of:

- **Latitude** – 36° 11’ 42” N or 36.19676
- **Longitude** – 95° 48' 45” W, or -95.81248
FIGURE B-1  USGS TOPOGRAPHIC MAP -PROPERTY BOUNDARY
FIGURE B-2
TOPOGRAPHIC MAP
Tulsa, Oklahoma Plant

FIGURE B-3  SURFACE DRAINAGE MAP
FIGURE B-4  100-YR FLOOD PLAIN AND WATER WELL LOCATIONS
FIGURE B-5  SURROUNDING LAND USE
TULSA INTL AP (OK) Wind Rose

Sub-Interval: Jan. 1 – Dec. 31, 0 – 23

Wind Speed (mph)
- 1.3 – 4
- 4 – 8
- 8 – 13
- 13 – 19
- 19 – 25
- 25 – 32
- 32 – 39
- 39 – 47
- 47 –

SOURCE: MRCC "MIDWESTEN REGIONAL CLIMATE CENTER"
ATTACHMENT B-1  SYSTECH PROPERTY DEED
The Central Plains Cement Company (CPCC) facility is located at 2609 N. 145th East Avenue in Tulsa, Oklahoma. The portion of the cement plant property permitted for hazardous waste management has the following legal description:

A tract of land lying in the Southwest Quarter of Section 22, Township 20 North, Range 14 East of the Indian Base and Meridian, Rogers County, Oklahoma, and being more particularly described as follows:

COMMENCING at southwest corner of said Section 22;

THENCE North 00°02'00" West, along the west line of said Section 22, a distance of 1,603.6 feet;

THENCE North 89°58'00" East a distance of 1021.31 feet to the POINT OF BEGINNING;

THENCE North 89°58'32" East a distance of 190.00 feet;

THENCE South 00°01'28" East a distance of 745.00 feet;

THENCE South 89°58'32" West a distance of 220.00 feet;

THENCE North 00°01'28" West a distance of 680.00 feet;

THENCE North 89°58'32" East a distance of 30.00 feet;

THENCE North 00°01'28" West a distance of 65.00 feet to the POINT OF BEGINNING.

Said tract of land containing 161,950 square feet or 3.718 acres more or less. The basis of bearing for this description is the west line of Section 22.