

US EPA ARCHIVE DOCUMENT



SUMMIT ENGINEERING, INC.

December 2, 2009

Erich Cleaver
Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601

RE: Xinergy Corporation
Application for Individual KPDES Permit coverage
DMRE Application No. 848-0281
KPDES No.: KY0108324

Dear Mr. Cleaver:

The permit application, referenced above, was returned to me following a review by your office. The application is now being resubmitted (on CD-ROM) with the following changes to correspond with the requests made in the letter dated November 23, 2009:

1. Section II B of Form C has been completed and rectified.

If you should have any questions, or if additional information is required, please contact me at our Wise, Virginia Office.

Sincerely,

Emmanuel Brace
Engineer

c: file

Part B.

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
		Avg/Design		List Codes from
	Operation (list)	Flow(includes unites)	Description	Table C-1
P-1	Surface runoff	21 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-2A	Surface runoff	44.12 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-3A	Surface runoff	35.53 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-5A	Surface runoff	17.53 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-6	Surface runoff	13.19 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-7	Surface runoff	51 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-8	Surface runoff	27 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-9	Surface runoff	29 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-9A	Surface runoff	35 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-10	Surface runoff	18 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-11	Surface runoff	32 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-12	Surface runoff	30 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-13	Surface runoff	34 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-13A	Surface runoff	31 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-14	Surface runoff	36 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-15	Surface runoff	38 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-16	Surface runoff	35 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow(includes unites)	Description	List Codes from Table C-1
P-17	Surface runoff	13 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-18	Surface runoff	19 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-19	Surface runoff	38 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-20	Surface runoff	27 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-21	Surface runoff	39 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-22	Surface runoff	31 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-23	Surface runoff	13 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-24	Surface runoff	20 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-25	Surface runoff	31 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-26	Surface runoff	44 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-27	Surface runoff	31 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-28	Surface runoff	12 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-29	Surface runoff	6 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-30	Surface runoff	22 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-31	Surface runoff	25 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-32	Surface runoff	30 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-33	Surface runoff	35 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-34	Surface runoff	173 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow(includes unites)	Description	List Codes from Table C-1
P-35	Surface runoff	14 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-36	Surface runoff	27 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-37	Surface runoff	35 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-38	Surface runoff	18 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-39	Surface runoff	10 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-40	Surface runoff	15 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-41	Surface runoff	12 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A
P-42	Surface runoff	8 cfs peak	Sedimentation	1-U
			Discharge to surface water	4-A

Permittee Name: Xinergy Corporation
Facility Name: Airplane Ridge
KPDES#: KY0108081
DNR#: 848-0281

Effluent Characteristics Data Sheet

Outfall No. KYG046247-001		Latitude: 36°51'31"		Longitude: 83°31'02"		Receiving Water: Straight Creek	
Pollutant or Pollutant Characteristic	Value	Units	Sample Type	Analytical Method Used	Method Detection Level		
Total Suspended Solids	10	mg/L	Grab	SM 2540 D	2.0 mg/L		
Flow	0.0004	MGD	Field	Field	none		
pH	8.5	Standard Units	Grab	SM 400-H B	none		
Hardness (as mg/l CaCO ₃)	752	mg/L	Grab	SM 2340C	2.0 mg/L		
Sulfate (as SO ₄)	480	mg/L	Grab	SM 4500- SO ₄ ²⁻ -E	1.0 mg/L		
Conductivity (µmho/cm)	1188	mg/L	Grab	EPA 2510 B	5 µΩ/cm		
Total Recoverable Aluminum	0.43	mg/L	Grab	SM 3500 Al	0.002 mg/L		
Total Recoverable Iron	0.18	mg/L	Grab	SM 3111 B	0.02 mg/L		
Total Recoverable Manganese	0.76	mg/L	Grab	SM 3111 B	0.02 mg/L		
Total Recoverable Antimony	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Arsenic	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Beryllium	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Cadmium	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Chromium	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Copper	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Lead	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Mercury	3.57X10 ⁻⁶	mg/L	Grab	EPA 245.7	5.0 x10 ⁻⁵ mg/L		
Total Recoverable Nickel	0.012	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Selenium	0.002	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Silver	0.002 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Thallium	0.0005 U	mg/L	Grab	EPA 200.8	0.002 mg/L		
Total Recoverable Zinc	0.099	mg/L	Grab	EPA 200.8	0.002 mg/L		
Free Cyanide	0.02 U	mg/L	Grab	EPA 420.1	0.02 mg/L		
Total Phenols	0.05 U	mg/L	Grab	SM 4500 CN CE	0.05 mg/L		

Instructions

Outfall Number: Provide the outfall number. (use following naming convention -KYG04XXXX-XXX)
 Latitude: Provide the latitude of the discharge point or sample point.
 Longitude: Provide the longitude of the discharge point or sample point.
 Receiving Water: Provide the name of the receiving water discharged to or sampled
 Where sample was collected: Check either sediment structure or in-stream
 Value: Report the numerical results of the analysis for the pollutant or pollutant characteristic
 Units: Indicate the units , i.e. mg/l, MGD, standard units, °F, etc.
 Sample Type: Indicate how the sample was collected, i.e. grab, composite, weir, instantaneous, etc.
 Analytical Method: Indicate the EPA test method used for analysis of the pollutant or pollutant characteristic
 Method Detection Level: Indicate the MDL for the EPA test method used.

(Attach additional pages if necessary)