

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0135062

Owner: Kansas City Power & Light (KCPL)/Empire District Electric Co.  
Aquila Corporation

Address: 1201 Walnut Street, Kansas City, MO 64106-2124

Continuing Authority: Kansas City Power & Light Co. (KCPL)  
Address: 1201 Walnut Street, Kansas City, MO 64106-2124

Facility Name: KCPL – Iatan Station Utility Waste Landfill  
Address: 20250 Highway 45 North, Weston, MO 64098-0284

Legal Description: See page 2

Receiving Stream: Unnamed tributary to Mission Creek (U)  
First Classified Stream and ID: Missouri River (P) (00226)  
USGS Basin & Sub-watershed No.: (10240011-050005)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

August 29, 2008      April 19, 2012  
Effective Date      Modification Date

  
Sara Parker Pauley, Director, Department of Natural Resources

August 28, 2013  
Expiration Date  
MO 780-0041 (10-93)

  
John Madros, Director, Water Protection Program

FACILITY DESCRIPTION (CONTINUED)

Outfall 010- Industrial- SIC #4911  
Stormwater, utility waste leachate, Equalization Basin, BMPs,  
Legal Description: SE ¼, SE ¼, Sec. 32, T54N, R36W, Platte County  
UTM Coordinates: x= 331268; y= 4367693  
Receiving Stream: Tributary to Harpst Chute (U)  
First Classified Stream and ID: Harpst Chute (P) (03573)  
USGS Basin & Sub-watershed No.: 10240011-0304

Outfall 011- Industrial – SIC #4911  
Stormwater, Equalization basin, BMPs, utility waste landfill  
Legal Description: SE ¼, SE ¼, Sec. 32, T54N, R36W, Platte County  
Latitude/Longitude: +3926349/-09457342  
UTM Coordinates: x= 331380; y= 4367774  
Receiving Stream: Tributary to Harpst Chute (U)  
First Classified Stream and ID: Harpst Chute (P) (03573)  
USGS Basin & Sub-watershed No.: 10240011-0304

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 3 of 4	
					PERMIT NUMBER MO-0135062	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #010 &amp; #011 (NOTE 1)</u>						
Flow	MGD	*		*	once/quarter	instantaneous estimate
Oil & Grease	mg/L	20		15	once/quarter	grab
Total Suspended Solids	mg/L	100		30	once/quarter	grab
pH – Units	SU	**		**	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2012</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS** (continued)

\* Monitoring requirement only.

\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 standard units.

Note 1 – Sample at least once per quarter is required from a discharge occurring from outfall #010 or #011. See table below for quarterly sampling.

Sample discharge at least once for the months of:	Report is due:
January, February, March (1st Quarter)	April 28
April, May, June (2nd Quarter)	July 28
July, August, September (3rd Quarter)	October 28
October, November, December (4th Quarter)	January 28

**C. SPECIAL CONDITIONS**

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.

C. Special Conditions (continued)

3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 µg/L);
  - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

4. Report as no-discharge when a discharge does not occur during the report period.

5. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Discharges from Equalization Basins

- (a) Manage the stormwater ponds to ensure there is enough capacity to capture run-off from a 25-year/24-hour storm event and meet the effluent limitations.
- (b) Water from the stormwater pond shall be utilized for dust suppression in the landfill when feasible.
- (c) Water from the leachate pond shall be utilized for dust suppression on the landfill.

**Missouri Department of Natural Resources**  
**FACT SHEET**  
**FOR**  
**MO-0135062**  
**KCPL-IATAN STATION UTILITY WASTE LANDFILL MODIFICATION**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit. This Factsheet is for an Industrial Facility .

**Part I – Facility Information**

Facility Type: Industrial, New  
 Facility SIC Code(s): 4911

**Facility Description:**

**MODIFICATION REASON:** To increase the monitoring frequency on the Outfalls to reflect the change in Special Condition # 6 that went from water from the stormwater pond shall be pumped to the facility for use in the facility to Water from the stormwater pond shall be utilized for dust suppression in the landfill when feasible. The facility has attempted over the past 4 years to use the stormwater collected; however the variability in the amount and composition of stormwater collected, has made it problematic and resulted in operational difficulties. As this condition is not a standard condition in utility waste landfills, it was modified at the request of the facility.

No changes were made to the following fact sheet from when the permit was originally issued in 2007. The department's goal is to incorporate this permit into the Iatan Generating Permit (MO0082996) during its renewal.

Utility waste landfill leachate and contact stormwater flows.

**OUTFALL(S) TABLE:**

OUTFALL	DESIGN FLOW (MGD)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
010	0.41598	Industrial	Utility waste landfill leachate collection pond	~0.90
011	13.661	Industrial	Utility waste landfill contact stormwater pond	~0.90

**Outfall 010-Industrial-SIC #4911**

Stormwater, utility waste leachate, Equalization Basin, BMPs,  
 Legal Description: SE ¼, SE ¼, Sec. 32, T54N, R36W, Platte County  
 UTM Coordinates: x= 331268; y= 4367693  
 Receiving Stream: Tributary to Harpst Chute (U)  
 First Classified Stream and ID: Harpst Chute (P) (03573)  
 USGS Basin & Sub-watershed No.: 10240011-0304

Outfall 011- Industrial – SIC #4911  
Stormwater, Equalization basin, BMPs, utility waste landfill  
Legal Description: SE ¼, SE ¼, Sec. 32, T54N, R36W, Platte County  
UTM Coordinates: x= 331380; y= 4367774  
Receiving Stream: Tributary to Harpst Chute (U)  
First Classified Stream and ID: Harpst Chute (P) (03573)  
USGS Basin & Sub-watershed No.: 10240011-0304

**Part II – Operator Certification Requirements**

Not Applicable : This facility is not required to have a certified operator.

**Part III – Receiving Stream Information**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into seven (7) categories. Each category list effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

Please mark the correct designated waters of the state categories of the receiving stream.

Missouri or Mississippi River [10 CSR 20-7.015(2)]: Yes ; No   
All Other Waters [10 CSR 20-7.015(8)]: Yes ; No

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1<sup>st</sup> classified receiving stream’s beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

**RECEIVING STREAM(S) TABLE:**

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	8-DIGIT HUC	EDU**
Tributary to Harpst Chute	U	--	General Criteria	10240011	Plains/MO Tribs Btwn. Nishnabotna & Plains
Harpst Chute	P	3573	AQL, LWW, WBC(B)		
Missouri River	P	00226	IND, IRR, LWW, AQL, SCR, DWS, WBC-B		

\* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

\*\* - Ecological Drainage Unit

**RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:**

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Tributary to Harpst Chute (U)	0	0	0
Harpst Chute (P)	0.01	0.1	1
Missouri River (P)	8,613	11,297	16,004

## **Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions**

### **ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable : The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

### **ANTIDegradation:**

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- New discharge: As per [10 CSR 20-7.031(2)(D)], the three (3) levels of protection provided by the antidegradation policy in subsections (A), (B), and (C) of this section shall be implemented according to procedures developed by the department. On April 20, 2007, the Missouri Clean Water Commission approved *Missouri Antidegradation Rule and Implementation Procedure* (Antidegradation Rule), which is applicable to new or upgraded/expanded facilities. The implementation of the Antidegradation Rule will be implemented upon promulgation, which is tentatively scheduled for August 2008.

### **APPLICABLE PERMIT PARAMETERS:**

Effluent parameters for conventional, non-conventional, and toxic pollutants have been obtained from technology based effluent limits, water quality based effluent limits, and from appropriate sections of the application.

### **COMPLIANCE AND ENFORCEMENT:**

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable : The permittee/facility is not currently under Water Protection Program enforcement action.

### **PRETREATMENT PROGRAM:**

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Not Applicable : At this time, the permittee is not required to implement and enforce a Pretreatment Program.

### **REASONABLE POTENTIAL ANALYSIS (RPA):**

Limitations must control all pollutants or pollutant parameters that are or may be discharged at a level which will cause, have reasonable potential to cause, or contribute to an excursion above the Missouri Water Quality Standards.

Not Applicable : A RPA was not conducted for this facility.

### **REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs). Please see the United States Environmental Protection Agency's (EPA) website for interpretation of percent removal requirements for National Pollutant Discharge Elimination System Permit Application Requirements for Publicly Owned Treatment Works and Other Treatment Works Treating Domestic Sewage @ [www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm](http://www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm)

Not Applicable : This wastewater treatment facility is not a POTW. Influent monitoring is not being required to determine percent removal.

**SANITARY SEWER OVERFLOWS (SSOs), AND INFLOW & INFILTRATION (I&I):**

Collection systems are a critical element in the successful performance of the wastewater treatment process. Under certain conditions, poorly designed, built, managed, operated, and/or maintained systems can pose risks to public health, the environment, or both. Causes of SSOs include, but are not limited to, the following: high levels of I&I during wet weather; blockages; structural, mechanical, or electrical failures; collapsed or broken sewer pipes; insufficient conveyance capacity; and vandalism. Effective and continuous management, operation, and maintenance, as well as ensuring adequate capacity and rehabilitation when necessary are critical to maintaining collection system capacity and performance while extending the life of the system.

Not Applicable : This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

**SCHEDULE OF COMPLIANCE (SOC):**

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable : This permit does not contain a SOC.

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP):**

A plan to schedule activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. The plan may include, but is not limited to, treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Not Applicable : At this time, the permittee is not required to develop and implement a SWPPP.

**VARIANCE:**

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable : This operating permit is not drafted under premises of a petition for variance.

**WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:**

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined to total amount of pollutant that may be discharged into that stream without endangering its water quality.

Applicable : Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$C = \frac{(Cs \times Qs) + (Ce \times Qe)}{(Qe + Qs)} \quad (\text{EPA/505/2-90-001, Section 4.5.5})$$

- Where
- C = downstream concentration
  - Cs = upstream concentration
  - Qs = upstream flow
  - Ce = effluent concentration
  - Qe = effluent flow

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

**WLA MODELING:**

Not Applicable : A WLA study was either not submitted or determined not applicable by department staff.

**WHOLE EFFLUENT TOXICITY (WET) TEST:**

As per [10 CSR 20-7.031(1)(CC)], a toxicity test conducted under specified laboratory conditions on specific indicator organism; and as per [40 CFR Part 122.2], the aggregate toxic effect of an effluent measured directly by a toxicity test.

Not Applicable : At this time, the permittee is not required to conduct WET test for this facility.

**303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):**

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable : This facility does not discharge to a 303(d) listed stream.

**Part V – Effluent Limits Determination**

***Outfall #010– Utility waste landfill leachate collection pond***

The pollutants of concern were primarily chosen based upon Technology Based Effluent Limitations (TBELs) found in the federal effluent guidelines for fly ash and bottom ash transport water, in accordance with 40 CFR Part 423, *Steam Electric Power Generating Point Source Category*. Based upon sampling results provided in the application from the KCPL – Montrose Ash Landfill Runoff Pond for other pollutants and best professional judgment (BPJ), no additional monitoring or limitations are necessary. Since this is a new facility, no site specific sampling results are available.

**EFFLUENT LIMITATIONS TABLE:**

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE
FLOW	GPD	1	*		*
TSS	MG/L	1/8	100		30
PH (S.U.)	SU	1	6.5 – 9		6.5 – 9
OIL & GREASE (MG/L)	MG/L	1/8	20		15
MONITORING FREQUENCY	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.				

\* - Monitoring requirement only

**Basis for Limitations Codes:**

- |  |                                   |
|--|-----------------------------------|
| 1. State or Federal Regulation/Law     | 6. Antidegradation Policy         |
| 2. Water Quality Standard              | 7. Water Quality Model            |
| 3. Water Quality Based Effluent Limits | 8. Best Professional Judgement    |
| 4. Lagoon Policy                       | 9. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy                      | 10. WET test Policy               |

**Outfall #011 – Utility waste landfill contact stormwater pond**

The pollutants of concern were primarily chosen based upon Technology Based Effluent Limitations (TBELs) found in the federal effluent guidelines for fly ash and bottom ash transport water, in accordance with 40 CFR Part 423, *Steam Electric Power Generating Point Source Category*. Based upon sampling results provided in the application from the KCPL – Montrose Ash Landfill Runoff Pond for other pollutants and BPJ, no additional monitoring or limitations are necessary. Since this is a new facility, no site specific sampling results are available.

**EFFLUENT LIMITATIONS TABLE:**

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE
FLOW	GPD	1	*		*
TSS	MG/L	1/8	100		30
PH (S.U.)	SU	1	6.5 – 9		6.5 – 9
OIL & GREASE (MG/L)	MG/L	1/8	20		15
MONITORING FREQUENCY	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.				

\* - Monitoring requirement only

**Basis for Limitations Codes:**

- |  |                                   |
|--|-----------------------------------|
| 1. State or Federal Regulation/Law     | 6. Antidegradation Policy         |
| 2. Water Quality Standard              | 7. Water Quality Model            |
| 3. Water Quality Based Effluent Limits | 8. Best Professional Judgement    |
| 4. Lagoon Policy                       | 9. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy                      | 10. WET test Policy               |

**OUTFALL #010 AND #011 – DERIVATION AND DISCUSSION OF LIMITS:**

- **Total Suspended Solids (TSS)** Effluent limitations have been derived from the Technology Based Effluent Limitations (TBELs) found in the federal effluent guidelines for fly ash and bottom ash transport water, in accordance with 40 CFR Part 423, *Steam Electric Power Generating Point Source Category*. Although this process and associated TBELs are not exactly the same as the affected facility, these limits were chosen using best professional judgment (BPJ) because they are reasonably similar.
- **pH** pH shall be maintained in the range from six and one half to nine (6.5 – 9) standard units [10 CSR 20-7.031(4)(E)].
- **Oil & Grease** Effluent limitations have been derived from the TBELs found in the federal effluent guidelines for fly ash and bottom ash transport water, in accordance with 40 CFR Part 423, *Steam Electric Power Generating Point Source Category*. Although this process and associated TBELs are not exactly the same as the affected facility, these limits were chosen using BPJ because they are reasonably similar.
- **Minimum Sampling and Reporting Frequency Requirements.**

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
FLOW	ONCE/QUARTER	ONCE/QUARTER
TSS	ONCE/QUARTER	ONCE/QUARTER
PH (S.U.)	ONCE/QUARTER	ONCE/QUARTER
OIL & GREASE (MG/L)	ONCE/QUARTER	ONCE/QUARTER

## **Part VI – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

**Date of Factsheet:**       **04/28/08**

Andrea Collier and Sunny Wellesley  
Water Protection Program  
816-622-7000  
500 NE Colbern Road  
Lee's Summit, MO 64086

**Date of Modification:**   **04/19/12**

Leasue Meyers, Environmental Engineer  
Water Protection Program  
[Leasue.meyers@dnr.mo.gov](mailto:Leasue.meyers@dnr.mo.gov)