

**KDHE  
NPDES PERMIT  
STATEMENT OF BASIS**

Prepared by:	Steve Caspers	Kansas Permit No.:	I-MO26-PO04
Date:	December 28, 2006	Federal Permit No.:	KS0083976
Facility Name:	APAC - Kansas Inc.	Facility Name:	East Stanley
Legal Description:	SE 1/4 of Sec 18, T14S, R25E	City:	Stanley
County:	Johnson	State/Zip:	Kansas

Proposed

The proposed action consists of modifying the above referenced NPDES permit. In the past, this facility rarely discharged. Recently, KDHE's Bureau of Waste Management began requiring the facility to de-water the site, since it was believed water in the landfill was contributing to hydrogen sulfide odors. Therefore, several new water sources have been generated, including monitoring wells and seep water from the on-site C/D landfill. The revised permit will also have two outfalls capable of discharging up to 120 gpm.

Certification Statement

The requirements of this permit are pursuant to the Surface Water Quality Standards K.A.R. 28-16-28 and limitations contained in the Federal regulation, Part 455, were utilized, using Best Professional Judgement (BPJ) criteria, when no State Water Quality Standards were available.

Facility Description

This facility is an active C & D Landfill and operates an asphalt plant with a wet scrubber. This facility has two outfalls, one outfall is located on the east side of the landfill property (Outfall 001A1) and the other on the west side of the landfill.(Outfall 002 A1) Outfall 001 consists of water pumped from the upper pond to a drainage ditch on the east side of the property in the amount of 0-120 gpm. Outfall 002A1 consists of water from the upper pond discharged to the west in the amount of 0-120 gpm. The upper pond consists of stormwater runoff, which is directed to the lower pond, after being treated by a sedimentation basin. The upper pond also utilizes diffuser aerators. The lower pond also utilizes diffuser aerators and receives treated seep (contact) water and purge water from two, 1500 gallon plastic, aboveground treatment tanks. The contact water is treated with hydrogen peroxide in the first tank and is then sent to the second tank to allow for more detention time. In addition, a small amount of condensate water from a landfill gas collection system is also directed to a 500 gallon, underground fiberglass tank, which is piped to the south seep drain.

Any water that does not get discharged from either outfall is applied to on-site roads for dust control or is pumped to the asphalt plant to be used in the air the pollution control equipment, when the wet scrubber is in operation. Water used in the asphalt plant is treated by two sedimentation basins and is then discharged to the lower pond, via a ditch. The landfill portion of the site is permitted under a separate permit, issued by the Bureau of Waste Management.

Receiving Stream

Outfall 001A1 discharges to Blue River via unnamed tributary. The Blue River is a classified stream, pursuant to K.A.R. 28-16-28 and is designated for expected aquatic life support, primary contact recreation, domestic water supply, food procurement, groundwater recharge, industrial water supply, irrigation and livestock watering. The Blue River is on the 303(d) list for dissolved oxygen. A TMDL has been written for this stream segment (33) for fecal coliform, chlordane and biologicals, nitrates, including nitrogen and phosphorus. Discharges from this facility are not expected to discharge fecal coliform. In addition, since materials containing chlordane are banned from the landfill, this pollutant is also not expected to be present.

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Receiving Stream

Outfall 002 discharges to Blue River via unnamed tributary via a private pond via unnamed tributary. The Blue River is a classified stream, pursuant to K.A.R. 28-16-28 and is designated for expected aquatic life support, primary contact recreation, domestic water supply, food procurement, groundwater recharge, industrial water supply, irrigation and livestock watering. The Blue River is on the 303(d) list for dissolved oxygen. A TMDL has been written for this stream segment (33) for fecal coliform, chlordane and biologicals, nitrates, including nitrogen and phosphorus. Discharges from this facility are not expected to discharge fecal coliform. In addition, since materials containing chlordane are banned from the landfill, this pollutant is also not expected to be present.

Storm water Pollution Prevention Plans (SWP2)

To meet EPA industrial stormwater discharge requirements, the permittee is required to develop a stormwater pollution prevention plan.

Effluent Quality

Discharge of wastewater which meets the limits proposed in the permit should not cause or contribute to violations of the water quality of the receiving stream.

Proposed Effluent Limitations

<u>Pollutant Parameter</u>	<u>Basis for Limitations</u>	
	<u>Outfall 001A(1)</u>	<u>Outfall 002 A(1)</u>
<u>Ammonia</u>	KSWQS	KSWQS
January thru May	KSWQS	KSWQS
June	KSWQS	KSWQS
July - August	KSWQS	KSWQS
September	KSWQS	KSWQS
October - December	KSWQS	KSWQS
<u>BOD5</u>	Federal Std., Part 445	KSWQS
<u>Dissolved Oxygen</u>	BPJ/ on 303(d) list	BPJ/ on 303(d) list
<u>Total Suspended Solids</u>	Federal Std., Part 445	Federal Std., Part 445
<u>Heavy Metals</u>		
Arsenic	KSWQS	KSWQS
Chromium	KSWQS	KSWQS
Copper	KSWQS	KSWQS
Lead	KSWQS	KSWQS
Mercury	KSWQS	KSWQS
Nickel	KSWQS	KSWQS
Selenium	KSWQS	KSWQS
Zinc	KSWQS	Federal Std., Part 445

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<u>Pollutant Parameter</u>	<u>Outfall 001A(1)</u>	<u>Outfall 002A(1)</u>
Flow	Monitor Only - BPJ	Monitor Only - BPJ
pH	KSWQS	KSWQS
Inorganics	Monitor Only-BPJ	Monitor Only-BPJ
<u>Organics</u>		
a-Terineol	Federal Standard, Part 445	Federal Standard, Part 445
Benzene BPJ	BPJ	
Benzoic Acid	Federal Standard, Part 445	Federal Standard, Part 445
Napthalene	WQS	WQS
Phenanthrene	WQS	WQS
p-Cresol Federal Standard, Part 445	Federal Standard, Part 445	
Phenol	Federal Standard, Part 445	Federal Standard, Part 445
Total Petroleum Hydrocarbons (TPH)	BPJ	BPJ
Volatile Organic Compounds (VOCs)	Monitor Only- BPJ	Monitor Only- BPJ
Whole Effluent Toxicity Chronic (IC25 <sub>c</sub> )	KSWQS	KSWQS

An internal monitoring location (001AG) was added to the permit requiring the permittee to *monitor* for sulfates, sulfide and DO, in order to monitor the effectiveness of the contact water treatment system.

No monitoring or limitations are in the permit for the fecal coliform or chlordane pollutants, since these pollutants are not expected to be in the discharge. Monitoring frequencies for all pollutants in the permit were based on BPJ.