City of Muscatine

1202 Musser St.
Muscatine, IA 52761-1645
(319)263-2752

WATER POLLUTION CONTROL

July 19, 1994

Mr. Dean Hargens, P.E.
IES Utilities
P. O. Box 351
Cedar Rapids, Iowa 52406

Re: Oak St. Remediation Site, Treated Water Discharge

Dear Mr. Hargens:

We have reviewed the June 27, 1994 request to discharge treated water to the Muscatine sewer system from the former Manufactured Gas Plant Site. We agree to accept this treated discharge as defined in the treatment agreement form (with attachment). The period of discharge shall begin August 1, 1994 and cease November 1, 1994.

Please feel free to contact me at (319) 263-2752 if you have any questions.

Sincerely,

Don Freel, Director
Water Pollution Control Plant

DF:slh

Att.

xc: A.J. Johnson, City Administrator
D. Stalzer, IES Muscatine

IOWA DEPARTMENT OF NATURAL RESOURCES
OPERATION PERMIT APPLICATION
TREATMENT AGREEMENT

DNR USE
IOWA FACILITY NO.
IND. CONT. AGREEMENT NO.
REPLACES AGREEMENT NO.

NOTICE

properly executed Treatment Agreement must be submitted by the contributor not less than one hundred eighty (180) days before the new major contributing industry proposes to discharge into a wastewater disposal system. Any proposed expansion, production increase or process modification that may result in any change to a previous Treatment Agreement requires execution of a new Treatment Agreement.

MAJOR INDUSTRIAL CONTRIBUTOR		SYSTEM RECEIVING WASTE	
NAME IES Utilities Inc.		NAME City of Muscatine, Iowa	
MAILING ADDRESS P.O. Box 351 Cedar Rapids, IA 52406		MAILING ADDRESS 1202 Musser St. Muscatine, IA 52761	
AUTHORIZED REPRESENTATIVE Dean A. Hargens	PHONE NO. (319)398-4658	AUTHORIZED REPRESENTATIVE Don Freel	PHONE NO. (319)263-2752

CERTIFICATION OF CONTRIBUTING INDUSTRY

I am the duly authorized representative for the major industrial contributor identified above and state that the proposed discharge to the system receiving waste identified above shall not exceed the quantities listed on page two of this form after

EFFECTIVE DATE

I further assure that notice of any anticipated increase in pollutants contributed shall be given to the owner of the system identified above sufficiently in advance of such increase to allow this contributor to submit a new treatment agreement to the Department of Natural Resources not later than sixty days in advance of the increase or change.

ED OR PRINTED NAME	TITLE	SIGNATURE	DATE
Dean A. Hargens	Principal Env. Eng. FMGP Project Coordinator	Dean A. Hargens	6/27/94

CERTIFICATION OF SYSTEM RECEIVING WASTE

I am the duly authorized representative for the facility owner named above and state that the owner agrees to accept the discharge described on page two from the contractor identified above, and accepts responsibility for providing treatment of the volume and quantities described on the reverse in accordance with the provisions of Chapter 455B, Code of Iowa, and the rules of the Department of Natural Resources. This agreement is conditioned on the industrial contributor complying with all applicable standards and requirements of the Department of Natural Resources and the United States Environmental Protection Agency. This agreement is entered for the purpose of identifying pollutants contributed and limiting the quantity contributed, and shall not otherwise be construedd to affect local ordinances, sewer service agreements or fee systems entered into between the parties.

This agreement may be modified or terminated by the owner of the disposal system if additional pollutants or additional quantities or volumes of pollutants are contributed other than identified on the reverse, or because of any condition that requires either a temporary or permanent reduction or elimination of the accepted contribution.

Discharge Permit valid 8/1/94 - 11/1/94

TYPED OR PRINTED NAME	TITLE	SIGNATURE	DATE
n Freel	Director W.P.C.P.	Don Freel	7/19/94

DNR Form 31
542-3221

(Sept. 87)
CPE-65017

SPECIFIC MANUFACTURING PROCESS			N/A
N/A Mobile Water Treatment System			
CONSUMPTION		PRODUCTION	
PRINCIPAL RAW MATERIAL	AMOUNT CONSUMED PER DAY	PRINCIPAL PRODUCTS	AMOUNT PRODUC PER DAY
Stormwater, decontamination water, possible ground water	1,500 gallons (max.)	Treated Water	1,500 gallon (max.)

2. HOURLY MAXIMUM FLOW CONTRIBUTION	3. DAYS OF OPERATION PER WEEK	4. HOURS OF OPERATION DURING PEAK DAY OF OPERATION	5. RANGE OF pH LEVEL IN CONTRIBUTION MINIMUM	MAXIMUM
240 gallons	5	10	5.0	9.5

6. DESCRIPTION OF PRETREATMENT PROVIDED

Pretreatment will include settling to reduce suspended solids and metals concentrations followed by removal of organic contaminants by carbon adsorption.

7. DESCRIPTION OF ANY BATCH OR PERIODIC DISCHARGES

Treated water would be discharged in 1,500 gallon batches.

8. COMPATIBLE WASTE IN CONTRIBUTION

WASTEWATER PARAMETER	AVERAGE	MAXIMUM	WASTEWATER PARAMETER	AVERAGE	MAXIMUM
Flow (MGD)	0.0005	0.001	Ammonia Nitrogen (lbs/day)	0.11	0.21
BOD_5 (lbs/day)	1.1	2.1	Oil and Grease (mg/l)	100	100
Total Suspended Solids (lbs/day)	1.1	2.1			
Total Kjeldahl Nitrogen (lbs/day)	0.17	0.34			

9. INCOMPATIBLE WASTE IN CONTRIBUTION
(use blank 8½ x 11 paper to continue this item)

WASTEWATER PARAMETER	AVERAGE mg/l	AVERAGE lbs/day	MAXIMUM mg/l	MAXIMUM lbs/day
See attachment				

IDNR Form 31

9. INCOMPATIBLE WASTE IN CONTRIBUTION

Analyte	minimum mg/l	minimum lb/day	maximum mg/l	maximum lb/day
Polynuclear Aromatic Hydrocarbons				
Acenaphthene	0.02	0.17	0.04	0.33
Acenaphythlene	0.02	0.17	0.04	0.33
Anthracene	0.02	0.17	0.04	0.33
Benzo (a) anthracene	0.02	0.17	0.04	0.33
Benzo (a) pyrene	0.02	0.17	0.04	0.33
Benzo (b) fluoranthene	0.02	0.17	0.04	0.33
Benzo (g,h,i) perylene	0.02	0.17	0.04	0.33
Benzo (k) fluoranthene	0.02	0.17	0.04	0.33
Chrysene	0.02	0.17	0.04	0.33
Dibenzo (a,h) anthracene	0.02	0.17	0.04	0.33
Fluoranthene	0.02	0.17	0.04	0.33
Fluorene	0.02	0.17	0.04	0.33
Indeno (1,2,3-cd) pyrene	0.02	0.17	0.04	0.33
Naphthalene	0.02	0.17	0.04	0.33
Phenanthrene	0.02	0.17	0.04	0.33
Pyrene	0.02	0.17	0.04	0.33
Sum of PAHs	0.32	2.67	0.64	5.34
BTEX				
Benzene	0.06	0.50	0.13	1.12
Toluene	0.03	0.25	0.07	0.62
Ethylbenzene	0.14	1.17	0.38	3.17
Xylenes	0.14	1.17	0.38	3.17
Sum of BTEXs	0.37	3.09	0.968	8.08
Metals				
Arsenic	0.20	0.67	0.40	3.34
Cadmium	0.025	0.21	0.05	0.42
Chromium	2.77	23.1	5.54	46.2
Copper	0.35	2.92	0.70	5.84
Cyanide	0.35	2.92	0.70	5.84
Hex Chromium	0.011	0.092	0.016	0.18
Lead	0.69	5.76	1.38	11.5
Mercury	0.001	0.008	0.002	0.017
Molybdenum	0.01	0.083	0.02	0.17
Nickel	2.30	19.2	4.60	38.4
Selenium	0.01	0.083	0.02	0.17
Zinc	0.30	2.50	0.60	5.01