

Date November 19, 2018

An Ordinance entitled, "AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by amending Sections 118-316, 118-317, 118-342(3), 118-343, 118-352, 118- 369, 118-380(3), 118- 401, 118-402(b)(4), 118-408, 118-421, 118-422, 118-427, 118- 428, 118-430(3), 118- 433(a)(2), 118- 436(b), 118- 450, 118-457(3), and 118-463, relating to regulation of industrial wastewater and commercial wastewater",

which was considered and voted upon under Roll Call No. 18-_____ of November 5, 2018; again presented.

Moved by _____ that this ordinance be considered and given second vote for passage.

(Second of three required readings)

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
COLEMAN				
GATTO				
GRAY				
MANDELBAUM				
WESTERGAARD				
TOTAL				

MOTION CARRIED

APPROVED

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Mayor

City Clerk

★ Roll Call Number
18-1851p

Agenda Item Number
41
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Date November 5, 2018

An Ordinance entitled, "AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by amending Sections 118-316, 118-317, 118-342(3), 118-343, 118-352, 118- 369, 118-380(3), 118- 401, 118-402(b)(4), 118-408, 118-421, 118-422, 118-427, 118- 428, 118-430(3), 118- 433(a)(2), 118- 436(b), 118- 450, 118-457(3), and 118-463, relating to regulation of industrial wastewater and commercial wastewater",

presented. **(Council Communication No. 18-547)**

Moved by Coleman that this ordinance be considered and given first vote for passage.

FORM APPROVED:

(First of three required readings)

Ann DiDonato
 Ann DiDonato
 Assistant City Attorney

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE	✓			
BOESEN	✓			
COLEMAN	✓			
GATTO	✓			
GRAY	✓			
MANDELBAUM	✓			
WESTERGAARD	✓			
TOTAL	7			

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

MOTION CARRIED APPROVED
J. M. Franklin Cownie Mayor

Diane Fauh City Clerk

18-1856
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ORDINANCE NO. _____

AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by amending Sections 118-316, 118-317, 118-342(3), 118-343, 118-352, 118-369, 118-380(3), 118- 401, 118-402(b)(4), 118-408, 118-421, 118-422, 118-427, 118-428, 118-430(3), 118- 433(a)(2), 118- 436(b), 118- 450, 118-457(3), and 118-463, relating to regulation of industrial wastewater and commercial wastewater.

Be It Ordained by the City Council of the City of Des Moines, Iowa:

Section 1. That the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, is hereby amended by amending Sections 118-316, 118-317, 118-342(3), 118-343, 118-352, 118-369, 118-380(3), 118- 401, 118-402(b)(4), 118-408, 118-421, 118-422, 118-427, 118-428, 118-430(3), 118- 433(a)(2), 118- 436(b), 118- 450, 118-457(3), and 118-463, relating to regulation of industrial wastewater and commercial wastewater, as follows:

Sec. 118-316. Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

O&M means operation and maintenance.

Slug or *slug load* means any discharge of water or wastewater which, in concentration of any pollutant, measured using a grab or composite sample, is more than five times the allowable concentration as set forth in sections 118-342 and 118-343 of this article or in a user's most recent wastewater discharge permit or which exceeds a slug concentration level specified in a wastewater discharge permit. A discharge with pH outside the allowable range by more than one standard unit (S.U.) ~~or a flow rate in excess of two times the maximum flow limit established in a wastewater discharge permit~~ shall also be considered a slug.

Wastewater means and includes *sewage* as defined in federal law and regulation, or a combination of the liquid and water-carried waste from residences, commercial buildings, institutions and industrial establishments, together with such groundwater, surface water, and stormwater as may be present, whether treated or untreated, which is contributed into or permitted to enter the ~~OTW~~ POTW.

WRA participating community or *WRA participating communities* means, individually or collectively, depending on context, the cities of Altoona, Ankeny, Bondurant, Clive, Cumming, Des Moines, Johnston, Norwalk, Pleasant Hill, Polk City, Waukee, and West Des Moines, and Polk County, Warren County, the Urbandale Sanitary Sewer District, the Urbandale-Windsor Heights Sanitary District and the Greenfield Plaza/Hills of Coventry Sanitary District, together with any other cities, counties, or sanitary districts that become participating communities under the provisions of the WRA agreement.

Sec. 118-317. Abbreviations.

The following abbreviations, when used in this article, shall have the designated meanings:

BETX	Benzene, ethylbenzene, toluene, and xylenes(total)
BOD	Biochemical oxygen demand
BMR	Baseline monitoring report
C	Celsius
CFR	Code of Federal Regulations
COD	Chemical oxygen demand
EPA	Environmental Protection Agency
F	Fahrenheit
FOG	Fat oil, and grease
GPD	Gallons per day
IDNR	Iowa Department of Natural Resources
lb/day	Pounds per day
mgd	Million gallons per day
mg/l	Milligrams per liter
NCPS	National Categorical Pretreatment Standards or categorical standards
NH3-N	Ammonia nitrogen
NPDES	National Pollution <u>Pollutant</u> Discharge Elimination System
O&G	Oil and grease
POTW	Publicly owned treatment works
SCP	Spill control plan
SIC	Standard industrial classification
SNC	Significant noncompliance
RCRA	Resource Conservation and Recovery Act
TCLP	Toxicity characteristic leaching procedure
TFE	Trichlorotrifluoroethane
TKN	Total Kjeldahl nitrogen
TOH	Total organic hydrocarbons
TPH	Total purgeable hydrocarbons

TRC	Technical review criteria
TSS	Total suspended solids
TTO	Total toxic organics
USC	United States Code
U.S. EPA	United States Environmental Protection Agency
VPH	Volatile petroleum hydrocarbons

Sec. 118-342. Discharge prohibitions.

The following general prohibitions shall apply to all users of the POTW unless the user is subject to a more restrictive National Categorical Pretreatment Standards, the Iowa Department of Natural Resources, or wastewater discharge permit limit. The following substances are prohibited from discharge to the POTW:

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- (3) Solid or viscous pollutants which will cause obstruction to the flow in the POTW resulting in interference. Such pollutants include but are not limited to grease, garbage with particles greater than one-half inch any dimension, animal tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, wipes, spent grains, spent hops, wastepaper, wood, plastics, tar, asphalt residues from refining or processing of fuel or lubricating oil, mud or glass grinding or polishing waste, or tumbling and de-burring stones, and wastewater containing fat, wax, O&G, or other substances which may solidify or become viscous at temperatures between 32 and 150 degrees Fahrenheit (0 and 65 degrees Celsius).
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Sec. 118-343. Local limits for specific pollutants.

- (a) *Generally.* Local limits for specific pollutants discharged pursuant to this article shall be as follows:
- (1) *Dilution.* Dilution of the discharge from a pretreatment facility or from a regulated process is prohibited as a method for treatment of wastes in order to meet the limits set forth in this article.
- (2) *Sample location.* Measurement of pollutant concentrations to determine compliance shall be made at the point immediately following the pretreatment facility and before mixture with other waters, unless another point is designated by the WRA director. If necessary, the concentrations so measured shall be recomputed to exclude the effect of any dilution that is improper using the combined waste stream formula.
- (b) *Headworks limits; average mass.* The average composite loading of all industrial users contributing the following specific pollutants to the POTW shall not exceed the allowable total pounds. The allocation of pollutants between industrial and nonindustrial sources may

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be adjusted by the director provided that the allowable total loading for any pollutant at the headworks of the WRF is not exceeded.

Pollutant	30-Day Average Allowable Pounds/Day	
	Total	Industrial
BOD	195,600	135,153
TSS	300,400	208,463
NH3	13,000	6,959
TKN	27,760	16,950

Pollutant	Maximum Allowable Headworks Loading Pounds/Day	Maximum Allowable Industrial Loading Pounds/Day
	Total	Industrial
Arsenic-T	4.247.58	3.873.81
Cadmium-T	2.713.65	2.542.16
Chromium-T	170.12136.35	159.92120.90
Copper-T	83.03148.56	60.85125.51
Cyanide-T	20.8017.08	18.778.28
Lead-T	15.7428.17	13.5920.94
Mercury-T	0.630.999	0.590.747
Nickel-T	48.4787.27	45.8075.75
Silver-T	32.5123.30	30.3819.77
Zinc-T	201.54360.59	158.34283.53

(c) *Discharge concentration limits and review criteria.* Discharge concentration limits and review criteria shall be as follows:

- (1) The discharge into the POTW of any materials, water or waste having a pollutant concentration greater than the limits in subsections (c)(3), (4), and (5) of this section or containing pollutants not listed in this subsection shall be subject to the review and approval of the WRA director. After review of the proposed discharges, the WRA director may:
 - a. Reject the waste for reasons consistent with section 118-320 of this article.
 - b. Require pretreatment to an acceptable pollutant concentration for discharge to the POTW.
 - c. Require control of the quantities and rates of discharge of the water or waste.
 - d. Require payment to cover the added cost of handling and treatment of water and waste or any combination thereof.

- e. Reduce the maximum or average mass loading of present and prospective individual users on any reasonable prorated basis to meet headworks loading limits at the WRF.
 - f. Require the user to obtain a wastewater discharge permit and be subject to any of the rules and regulations contained therein.
 - g. Require the user to meet local limits when local limits are more restrictive than National Categorical Pretreatment Standards, provided that headworks loading limits are met.
 - h. Initiate enforcement action in response to any noncompliance with this article using the enforcement procedures outlined in this article.
 - i. Take any combination of the steps in subsections (c)(1)a through (c)(1)g, as appropriate.
- (2) Users discharging wastewater to the POTW whose pollutant concentrations or flows are greater than the following shall be considered industrial users for purposes of sewer charges and may be regulated or permitted by the WRA director as appropriate:

	Pollutant	Daily Maximum (mg/l)
a.	BOD	200
b.	TSS	250
c.	COD	300
d.	O&G-T	100
e.	TKN	30
f.	NH3-N	15
g.	An average daily flow greater than 5,000 gallons or having an unusual concentration of flow, constituting a slug load, as defined in this article.	

- (3) Pollutant limits. Average and maximum concentration limits for users without National Categorical Pretreatment Standards for these pollutants shall be as follows:

Pollutant	Daily Maximum (mg/l)	Monthly Average (mg/l)
Arsenic-T	<u>0.390.38</u>	<u>0.260.25</u>
Cadmium-T	<u>0.150.08</u>	<u>0.100.05</u>
Chromium-T	<u>13.336.43</u>	<u>8.894.29</u>
Copper-T	<u>3.4410.21</u>	<u>2.296.80</u>
Cyanide-T	<u>1.250.53</u>	<u>0.830.36</u>
Lead-T	<u>0.611.43</u>	<u>0.410.95</u>
Mercury-T	<u>0.030.042</u>	<u>0.020.028</u>

Nickel-T	<u>4.207.22</u>	<u>2.804.81</u>
O&G-T	400.0	--
O&G-Mineral	100.0	--
Silver-T	<u>3.041.30</u>	<u>2.030.87</u>
TPH/VPH	10.0	--
Zinc-T	<u>5.9919.64</u>	<u>3.9913.09</u>

pH range shall be not lower than 5.0 or greater than 12.0.

Temperature (liquids or vapors) shall be not greater than 150 degrees Fahrenheit at the point of entry into the POTW.

- (4) Daily maximum pollutant limits for ~~waste haulers~~ hailed waste. Wastes delivered to the WRF by truck or rail shall not exceed the following ~~maximum~~ concentrations in any load or overall daily loading limits unless otherwise approved by the WRA Director:

Pollutant	Concentration (mg/l)	Loading (pounds/day)
COD	100,000	--
O&G-T	50,000	--
VPH	10.0	--
Arsenic-T	<u>0.04--</u>	<u>0.014</u>
Cadmium-T	<u>2.70--</u>	<u>0.93</u>
Chromium-T	<u>72.0--</u>	<u>24.74</u>
Copper-T	<u>69.0--</u>	<u>23.71</u>
Cyanide-T	<u>0.75--</u>	<u>0.29</u>
Lead-T	<u>19.5--</u>	<u>6.70</u>
Mercury-T	<u>0.35--</u>	<u>0.12</u>
Nickel-T	<u>10.8--</u>	<u>3.71</u>
Silver-T	--	<u>0.26</u>
Zinc-T	<u>255.0--</u>	<u>87.62</u>
TPH	10.0	

pH range shall be not lower than 5.0 or greater than 12.0.

- (5) Daily maximum limit for gasoline cleanup projects. Discharge of wastewater from sites where gasoline is being removed from the soil or groundwater shall meet the following limits prior to discharge to the POTW:

Pollutant	mg/l
Benzene	0.050
BETX	0.750

- (d) No subsection of this section shall be construed to provide lesser discharge standards than are or that may be imposed and required by U.S. Environmental Protection Agency or the

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Iowa department of natural resources, nor to allow the average allowable total loading for any pollutant at the headworks of the WRF to be exceeded.

Sec. 118-352. Fees.

To provide for the recovery of costs from users of the POTW and for the implementation of the pretreatment program established by this article, the following fees are hereby established and shall be applicable to discharges by all users:

- (1) All users shall be subject to the following fees and charges:
 - a. The wastewater discharge permit application fee shall be \$200.00 for a class A permit, \$100 for a class B permit, and \$100 for a soil/groundwater remediation permit.
 - b. The annual fee for a class A wastewater discharge permit shall be \$1000.00.
 - c. The annual fee for a class B wastewater discharge permit shall be \$400.00.
 - d. The fee paid by each industrial user when an accidental discharge or slug load occurs shall be up to \$1,000.00. The fee shall reimburse the WRA for any costs incurred as a result of the discharge.
 - e. The fee for sampling a user's discharge shall be \$50.00 per day when using a 24-hour automatic sampler. The fee for subsequent consecutive days and for collecting grab samples shall be \$25.00 per day. When a sampling event must be rescheduled due to failure of the user's sampling equipment or due to a sampler seal (used to detect sample tampering) being broken, a trip charge of \$25.00 and a rescheduling fee of \$50.00 shall be assessed. The trip charge fee may be waived if the user informs the WRA of sampling equipment failure prior to 8:00 a.m. of a scheduled sampling day.
 - f. Laboratory analysis fees for those analyses performed by the WRA shall be as follows:

LABORATORY ANALYSIS FEES

Test	Cost/ Sample
BOD	\$ 20.00
COD	20.00
Total Organic Carbon (TOC)	20.00
TSS	10.00
pH	5.00
Oil and grease -- Total	35.00
Mineral/nonmineral	35.00
Nitrogen, ammonia	15.00
Nitrogen, nitrate	15.00
TKN	30.00
Phosphorous, total	25.00
Potassium	12.00
Calcium carbonate equivalent	15.00

Soil analysis, each pollutant		20.00
Phenols		28.00
Cyanide		30.00
Metals:		
	Arsenic	20.00
	Selenium	20.00
	Mercury	25.00
	Other metals (per parameter)	15.00
	BETX (OA-1)	40.00
	TPHVPH (OA-1)	40.00
	BETX & TPHVPH (OA-1)	45.00
USEPA Tests:		
	608 Organochlorine Pesticides & PCBs	70.00
	624 Volatile Organic Compounds	140.00
	625 Base/Neutral Organic Compounds and/or	290.00
	625 Acid/Organic Compounds	290.00

- g. Fees for analysis performed by laboratories other than the WRA laboratory shall be the full cost of each analysis.
 - h. Fees for annual or biannual inspections of permitted users shall be \$100.00 for those holding a class A permit and \$50.00 for those holding a class B permit.
 - i. Fees for copying and mailing documents shall be \$1.00 for the initial page and \$0.25 for each additional page plus postage. No charges shall be assessed for requests for copies received from individuals or agencies served by the WRA, provided the number of pages requested does not exceed ten.
 - j. Fees for past due reminders sent each 30 days that a balance remains unpaid shall be \$5.00.
 - k. Prohibitive waste charges for each pollutant discharged in excess of permit or ordinance limits shall be \$25.00 per day for class B permit holders and \$50.00 per day for class A permit holders. High strength charges shall double if discharges are slug loads. Payment of fees does not preclude other enforcement action and may not be paid in lieu of compliance with discharge limitations.
 - l. ~~Fees for inspection of a Food Service Establishment grease trap or interceptor shall be \$50.00 per visit.~~ Fees for inspection of a food service establishment as defined in division 5 of this article, regulation of fats, oils, and grease discharge by food service establishments, shall be \$50 per visit.
- (2) All users contributing wastewater in excess of the following concentrations shall be assessed a surcharge, which shall be in addition to the rates and charges ordinarily billed to such users for sewer use:

Pollutant	Surcharge (per pound)
Suspended solids in excess of 250 mg/l	\$0.16
BOD or CBOD in excess of 200 mg/l	0.11
TKN in excess of 30 mg/l	0.61
Oil and grease in excess of 100 mg/l	0.06

Chemical oxygen demand (COD) in excess of 300 mg/l may be used at the discretion of the WRA director in lieu of CBOD. In such case the excess COD concentration shall be multiplied by the known CBOD/COD ratio or by a ratio of two-thirds to establish an equivalent CBOD concentration.

Ammonia nitrogen (NH₃-N) in excess of 15 mg/l may be used at the discretion of the WRA director in lieu of TKN by multiplying the excess NH₃-N concentration times two to establish an equivalent TKN concentration.

- (3) The establishment and imposition of new or different fees or charges, in addition or in substitution for those provided above in this section, shall be by ordinance amending this chapter. The amounts of the fees and charges established in this section shall be and remain in effect until such time as the WRA Board shall by resolution revise said fee amounts. Said revised fees and charges shall take effect after the board causes said resolution to be sent to this city council and thereafter causes same to be published in a newspaper of general circulation in each county in which participating communities are located.

Sec. 118-369. Report on compliance by categorical industries.

Users subject to National Categorical Pretreatment Standards shall submit a report to the WRA director containing the information described in subsections 118-368(1)c, (1)d, (1)e and (1)k of this division within 90 days following the date for final compliance with applicable National Categorical Pretreatment Standards or, if a new source, following commencement of discharge. Users subject to equivalent mass or concentration limits shall provide a reasonable measure of the user's longterm production rate. For all other users subject to National Categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production or other measure of operation, this report shall include the user's actual production during the appropriate sampling period. All reports must contain the certification statement and be signed in accordance with section ~~119-378~~ 118-378 of this division.

Sec. 118-380. Inspection, sampling and recordkeeping authority.

Under this division, users shall be deemed to have given the following authorities to the WRA and its operating contractor:

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- (3) All users subject to any of the reporting requirements of this article shall maintain copies of reports and records of all information as required in 40 CFR 403.12(o) resulting from any monitoring activities required by this article for a minimum of three years and shall make such records available for inspection and copying by the WRA and its operating contractor. This period of retention shall be extended until

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the completion of any unresolved negotiation, hearing, or litigation involving a purported violation.

Sec. 118-401. Performance bonds.

The WRA director may decline to reissue a permit to any user who has failed to comply with this article or any order or previous permit issued under this article unless such user first files a satisfactory bond payable to the WRA in a sum not to exceed the value determined by the WRA director to be necessary to achieve compliance giving due consideration to the number and magnitude of previous violations, potential need for remediation and stating the reasons which support the amount of bond in a written order directed to the user, but in no case shall the bond be required to be greater than ~~\$25,000.00~~ \$100,000.00. The user shall use a bond form prescribed by the WRA.

Sec. 118-402. Revocation of discharge permit; termination of sewer service.

(b) *Procedure for revocation of discharge permit and for termination of sewer service.* The procedure for revocation of a discharge permit and termination of sewer service shall be as follows:

(4) The decision and order of the WRA director to revoke the permit of a user may be appealed to the WRA appeal committee. Such appeal request shall be in writing, shall include the grounds for appeal including any factual findings which are disputed, and shall be delivered to WRA not less than 10 days after the director's entry of the order of revocation of permit and/or termination of sewer service. Such appeal request shall be considered delivered when placed in the mail, return receipt requested, addressed to:

WRA Appeal Committee
%Des Moines Metropolitan Wastewater Reclamation Authority
3000 Vandalia Road
Des Moines, Iowa-50326 50317

The chair of the appeal committee shall schedule the appeal and shall cause notice of the time, date and place of the hearing to be mailed to the appealing user. Such appeal shall be decided by majority vote of the appeal committee. If the appeal committee affirms the order of the WRA director revoking the permit and/or terminating sewer service, the appeal committee shall so state and order in its written decision.

Sec. 118-408. Notices to the WRA, the WRA board, the WRA director or the WRA steering committee.

Notices which are required to be given or which may be given to the WRA, the WRA board, the WRA director or the WRA appeal committee, as provided in ~~divisions 2 through 4~~ of this article, shall be mailed to such entity, body or person at the following address:

Des Moines Metropolitan Wastewater Reclamation Authority
Des Moines Wastewater Reclamation Facility
3000 Vandalia Road
Des Moines, Iowa 50317

Sec. 118-421. Purpose.

The purpose of this section shall be to aid in the prevention of sanitary sewer blockages and obstructions from contribution and accumulation of fat, oil, and grease (FOG) into the POTW. Such discharges from commercial kitchens, restaurants, food processing facilities and all other establishments, where fat, oil, and grease (~~FOG~~) of vegetable or animal origin are discharged directly or indirectly into the POTW, can contribute to line blockages and/or spills in violation of Title 40, Code of Federal Regulations 40 CFR, Part 403.

Sec 118-422. Definitions.

The definitions found in section 118-316 shall apply to the provisions of this division, provided however that the following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Best management practices or *BMPs* means and includes schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. For purposes of this division, *best management practices* include procedures and practices that reduce the discharge of ~~fat, oil and grease (FOG)~~ to the building sewer, to the city sanitary sewer system and to the POTW.

Sec. 118-427. Installation of grease interceptors and grease traps.

Grease interceptors and grease traps, when required, shall be installed as follows:

- (1) Grease interceptors and grease traps shall be installed at the expense of the owner or operator of the FSE or owner of the building or facility in which the FSE is located which is contributing wastewater to the POTW.
- (2) All wastewater streams containing FOG or reasonably likely to contain FOG within FSEs or other FOG generating operations shall be directed into one or more appropriately sized grease interceptor before discharge to the POTW. Grease interceptors shall be either sized by adding the peak design flow rates for all fixtures

leading to the grease interceptor and allowing a minimum retention time of thirty (30) minutes or as follows:

Grease Interceptor Sizing						
1. Peak meals per hour						
	a.	Seating capacity of FSE				_____
	b.	Occupancy of FSE				_____*
	c.	Seating or occupancy x meal factor of 1.3 (45 minute meal) or 1.0 (intermittent-use FSEs) = Peak meals per hour				
	*	Church: include all area(s) used for meal service				
	*	Assisted Living / nursing facility: equal to maximum number of residents (per State license)				
2. Waste flow rate, gallons of flow						
	a.	Commercial, equipped kitchen with dishwasher & one garbage disposal*				7
	b.	Commercial, equipped kitchen with dishwasher, no garbage disposal				6
	c.	Commercial, equipped kitchen with no dishwasher, one garbage disposal*				6
	d.	Commercial, equipped kitchen with no dishwasher, no garbage disposal				5
	e.	Single service kitchen**				2
	*	Each additional garbage disposal, add one (1) gallon				
	**	Single service kitchen = no garbage disposal, no dishwasher and all service is single use				
3. Retention time, hours						
	a.	Commercial kitchen				2.5
	b.	Single service kitchen				1.5
4. Storage factor						
	a.	Commercial Kitchen up to 8 hours of operation				1
	b.	<u>Commercial kitchen up to 12 hours of operation</u>				<u>1.5</u>
	c.	Commercial kitchen up to 16 hours of operation				2
	d.	<u>Commercial kitchen up to 20 hours of operation</u>				<u>2.5</u>
	ee.	Commercial kitchen up to 24 hours of operation				3
	ef.	Single service kitchen				1.5
Peak Meals per Hour	X	Waste Flow Rate	X	Retention Time	X	Storage Factor = Calculated Interceptor Size

- (3) Concrete grease interceptors whether precast or poured in place, shall be designed and manufactured in accordance with ASTM C 1613-08 Standard Specification for Precast Concrete Grease Interceptor Tanks or IAPMO/ANSI Z1001 Grease Interceptors and shall be installed in accordance with the codes adopted by the jurisdiction in which the FSE is located. Where no code is adopted, the construction and installation shall be in accordance with the Iowa State Plumbing Code and this division. Grease interceptors using materials other than concrete require approval by the director, and shall comply with the conditions of such approval, if any.
- (4) The building official or other designated official of the governmental subdivision within which the FSE is located shall inspect each grease interceptor installation made pursuant to this division, shall review all relevant information regarding the

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rated performance of the grease interceptor, and the building plan and facility site plan for the building and site where the grease interceptor has been installed, and shall approve such grease interceptor installation upon determination that the grease interceptor meets all applicable standards and requirements.

- (5) Grease interceptors shall have a minimum capacity of one thousand (1000) gallons and shall not exceed five thousand (5000) gallons for a single unit. Where a capacity greater than ~~three~~ five thousand (~~3000~~5000) gallons is required, several smaller units shall be installed in series, however the capacity shall not exceed ten thousand (10,000) gallons for any single series of interceptors without approval of the director.
- (6) Grease interceptors shall be installed outside the building housing the FSE and below surface grade, and shall have access manholes, with a minimum diameter of twenty-four (24) inches, over each chamber and sanitary tee. Access manholes shall extend from the grease interceptor to at least the finished surface grade and be designed and maintained to prevent storm or surface water inflow and groundwater infiltration. The manholes shall also have readily removable covers to facilitate inspection and grease removal.
- (7) Sewer lines which are not grease laden, which are not likely to contain FOG, or which contain sanitary wastes shall not be connected to a grease interceptor.
- (8) Grease interceptors shall be equipped with an accessible discharge sampling port with a minimum six (6) inch diameter, which shall extend from the grease interceptor to at least the finished surface grade.
- (9) Where grease interceptors are shared by more than one FSE, the building owner shall be the responsible party for record keeping and cleaning of the interceptor.

Sec. 118-428. Operation, maintenance and cleaning of grease interceptors and grease traps and grease hauler certification.

- (a) The owner or operator of an FSE which is required to pass wastewater through a grease interceptor or trap shall operate and maintain the grease interceptor or trap so that wastewater exiting the grease interceptor or trap shall not exceed four hundred (400) milligrams per liter of FOG.
- (b) The owner or operator of the FSE shall cause the grease interceptor or trap to be cleaned as hereinafter required when FOG and solids reach 25% of the design liquid level of the grease interceptor or trap, or sooner if necessary to prevent carry over of ~~grease~~ FOG from the grease interceptor or trap into the city sanitary sewer system. Interceptors and traps shall be cleaned at three (3) month intervals or less. A longer cleaning interval must be approved by the WRA Director. If the owner or operator of the FSE, or an employee of the owner or operator, has obtained a current waste hauler's license grease hauler certification from the WRA indicating satisfactory completion of the and has completed to the satisfaction of the WRA director the course of training offered by the WRA in on the cleaning of grease interceptors and traps, such person or persons may clean the grease interceptor trap in the facility included in such grease hauler's certification Failure to adequately clean the grease trap, properly dispose of all grease trap waste, or maintain clean out records and measurements may result in revocation of a grease hauler certification pursuant to Sec. 118-463. Alternatively, the owner or operator of an FSE may employ a

waste hauler licensed by the WRA pursuant to division ~~36~~ of article III of this chapter to clean the grease interceptor or trap, provided that the waste hauler personnel performing the ~~grease interceptor~~ cleaning has a current grease hauler certification from the WRA indicating satisfactory completion of the course of training offered by the WRA on the cleaning of grease interceptors and traps.~~has satisfactorily completed a course of training on grease interceptor cleaning offered by the WRA.~~

(c) Any person who cleans a grease interceptor or trap shall do so in accordance with the following procedures and requirements. The person cleaning the grease interceptor or trap shall:

- (1) Completely empty and remove the contents (liquids and sludge) of all vaults of the grease interceptor or trap, and remove the grease mat and scrapings from the interior walls. As part of each cleaning of a grease interceptor or trap, the owner or operator of the FSE, or the licensed waste hauler employed by the FSE owner or operator, shall perform the following maintenance activities:
 - a. Check that the sanitary "tees" on the inlet and outlet sides of the grease interceptor are not obstructed, loose, or missing.
 - b. Verify that the baffle is secure and in place.
 - c. Inspect the grease interceptor or trap for any cracks or other defects.
 - d. Check that lids are securely and properly seated after completion of cleaning.
- (2) Not deposit waste and wastewater removed from a grease interceptor/trap back into the grease interceptor/trap from which the waste or wastewater was removed or into any other grease interceptor/trap, for the purpose of reducing the volume of waste and wastewater to be disposed of.
- (3) Not introduce enzymes, emulsifying chemicals, hot water or other agents into a grease interceptor or trap to dissolve or emulsify grease or as a grease abatement method. Introduction of bacteria as a grease degradation agent is permitted with prior written approval by the WRA director.
- (4) Dispose of waste and wastewater removed from a grease interceptor or trap at the WRF or at a facility approved for disposal of such waste by the WRA director. Waste and wastewater removed from a grease interceptor or trap shall not be discharged to any private sanitary or storm sewer or to the city sanitary or storm sewer system. The waste hauler shall provide a copy of the disposal receipt for all waste and wastewater removed from a grease interceptor or trap to the owner or operator of the FSE.
- (5) Not use an automatic grease removal system to clean a grease interceptor without prior written approval of the WRA director, and if, the use of an automatic grease removal system is approved, shall operate same in a manner that the grease wastewater discharge limit, as measured from the system's outlet, is consistently achieved.

~~If grease interceptor cleaning is performed by a licensed waste hauler, the owner or operator of the FSE shall witness all cleaning/maintenance activities to verify that the grease interceptor is being fully cleaned and properly maintained according to the requirements of this section or Section 118-483. The waste hauler shall provide a copy of the disposal receipt for all waste and wastewater removed from a grease interceptor to the owner or operator of the FSE.~~

~~As part of each cleaning of a grease interceptor, the owner or operator of the FSE, or the licensed waste hauler employed by the owner or operator, shall perform the following maintenance activities:~~

- ~~a. Check that the sanitary "tees" on the inlet and outlet sides of the grease interceptor are not obstructed, loose, or missing.~~
- ~~b. Verify that the baffle is secure and in place.~~
- ~~c. Inspect the grease interceptor for any cracks or other defects.~~
- ~~d. Check that lids are securely and properly seated after completion of cleaning.~~

- (d) The WRA director may make exceptions to the above requirements, or may approve alternative operational requirements or cleaning and maintenance methods, provided that such exceptions or approvals shall be made in writing by the WRA director.
- (e) The WRA Director may issue a grease hauler certification upon satisfactory completion of the course of training offered by the WRA on the proper maintenance and cleaning of grease interceptors and traps, disposal procedures and record keeping. Such certification shall be for a period of 5 years and shall be in effect for the person receiving such training and for the FSE site for which such person is the owner, operator or employee thereof.

Sec. 118-430. Inspection of grease interceptors and related sewers and equipment.

The owner or operator of an FSE shall:

- (3) Shall, upon request by the WRA director's authorized representative, open any grease interceptor or grease trap for the purpose of confirming that maintenance frequency is appropriate, that all necessary parts of the installation are in place, including, but not limited to, baffles, ~~inluent~~ and effluent tees, and that all grease interceptors, traps, and related equipment and piping is maintained in efficient operating condition.

Sec. 118-433. Notice of violation - administrative penalties – corrective action order.

- (a) The director, or such other designated officers or officials with enforcement authority as provided in section 118-432, are authorized to issue a notice of violation imposing an administrative penalty upon any person who fails to perform an act required by this division or who commits an act prohibited by this division. Such notice may include a corrective action order requiring the user to take one or more of the following corrective actions within thirty (30) days:

- (2) Submit copies of the grease interceptor or trap maintenance log;

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Sec 118-436. Appeal of corrective action order or cease and desist order.

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- (b) Such appeal request shall be in writing, shall include the grounds for appeal including any factual findings which are disputed, and shall be delivered to the WRA within ten (10) days after the WRA director's issuance of the order. Such appeal request shall be considered delivered when placed in the mail, return receipt requested, addressed to:

WRA Appeal Committee
 %Des Moines Metropolitan Wastewater Reclamation Authority
 3000 Vandalia Road
 Des Moines, Iowa ~~50326~~ 50317

Sec. 118-450. Definitions.

The definitions found in sections 118-316 and 118-422 shall apply to the provisions of this division, provided however that the following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Vehicle means a commercial device equipped with a tank and used to remove or transport waste.

Waste means human excreta, water, scum, sludge, septage, FOG, ~~and~~ food waste or grease solids, and non-hazardous industrial wastewaters and solids removed from public and private wastewater disposal systems, holding tanks, impervious vaults, portable or chemical toilets, or from devices used to trap grease resulting from food preparation. *Waste* also means liquid wastes resulting from spill clean-up.

Sec. 118-457. Standards of disposal at WRF.

Under this division, disposal of wastes at the WRF shall be carried out in accordance with pretreatment standards and requirements established by federal, state, county and city governments including categorical standards developed for the waste generator's industrial category. The WRA director may reject wastes from waste haulers who do not comply with this section or with any other section of this division. Waste haulers shall not deliver wastes to the WRF, or to any other disposal location approved by the WRA director which are:

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- (3) Originate from mineral oil ~~and grease traps~~ unless first treated to remove the oil and grease.
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Sec. 118-463. Denial, suspension and revocation of license.

- (a) *Grounds for denial, suspension or revocation of waste haulers license.* The WRA director may deny, suspend or revoke the waste hauler license and/or grease hauler certification of any wastehauler who violates any provision of this division or any condition of its license,

or who commits any of the following violations, or who does not meet the following requirements:

- (1) Violation of any term, condition or requirement of this division, the license, or applicable state of Iowa or federal laws or regulations.
 - (2) Obtaining a license by misrepresentation.
 - (3) Falsification of, failure to complete or failure to fully disclose all relevant facts in a license application.
 - (4) Failure to pay fees, administrative penalties or fines.
 - (5) Failure to report a spill to the WRA.
 - (6) Using wash down water or otherwise diluting the permitted waste for the purpose of meeting discharge limitations or requirements.
 - (7) Falsification of, failure to complete or failure to fully disclose all relevant facts in any report, manifest information or record required by the license or this division.
 - (8) Tampering with samples or sampling equipment intended to accurately reflect the contents of each hauled waste load.
 - (9) Refusing to allow WRA personnel timely access to the wastehauler's facility premises, vehicles, or records.
 - (10) Failure to perform as required under a corrective action order or compliance schedule issued by the WRA director.
 - (11) Failure to correct any violation of this division within 30 days after notice by the WRA Director.
 - (12) Failure to immediately correct any violation of this division if the condition constituting the violation is declared a threat to public health, safety or welfare by the WRA director and the director orders immediate correction.
- (b) *Procedure for denial, suspension or revocation of wastehauler's license.* The procedure for denial, suspension or revocation of a wastehauler's license shall be as follows:
- (1) Any license issued to a wastehauler pursuant to this division may be denied, suspended or revoked by written order of the WRA director specifying the grounds for such action as outlined in subsection (a) of this section, which order shall not take effect until hearing thereon as hereafter provided. Upon determining that grounds exist for an order to deny, suspend or revoke a wastehauler's license, the WRA director shall cause a notice of hearing to be prepared, specifying the violations of subsection (a) of this section which are deemed to have occurred, and the time, date and place that such hearing will be held. The notice shall be sent to the wastehauler by regular mail addressed to the wastehauler's address listed on the wastehauler's license a minimum of ten days prior to the date set for hearing, and shall be deemed delivered when placed in the mail.
 - (2) If after such a hearing the WRA director makes a finding based on substantial evidence that one or more violations under subsection (a) of this section have occurred as alleged, the director may deny issuance of the license, suspend the license for a fixed period, or may issue an order immediately revoking the license and ordering the wastehauler to discontinue hauling waste to the WRF or any other disposal locations approved by the director. The determination whether to deny issuance of a license, to suspend a license, or to revoke a license, shall be in the discretion of the director and shall be dependent upon the circumstances surrounding the violations of subsection (a) of this section and the severity of those

violations. If the waste hauler does not appear for the hearing, the director shall issue the order revoking the waste hauler's license and ordering the cessation of delivery of hauled waste at the WRF or any other disposal locations approved by the director, which order shall take effect immediately.

- (3) The decision and order of the WRA director to deny issuance, to suspend or to revoke the license of a waste hauler may be appealed to the WRA appeal committee. Such appeal request shall be in writing, shall include the grounds for appeal including any factual findings which are disputed, and shall be delivered to WRA not less than 10 days after the director's entry of the order of denial, suspension or revocation. Such appeal request shall be considered delivered when placed in the mail, return receipt requested, addressed to:


WRA Appeal Committee
%Des Moines Metropolitan Wastewater
Reclamation Authority
3000 Vandalia Road
Des Moines, Iowa-50326 50317

The chair of the appeal committee shall schedule the appeal and shall cause notice of the time, date and place of the hearing to be mailed to the appealing waste hauler. Such appeal shall be decided by majority vote of the appeal committee. If the appeal committee affirms the order of the WRA director denying issuance, suspending or revoking the license and ordering the cessation of waste deliveries at the WRF or other approved locations, the appeal committee shall so state and order in its written decision.

- (4) A waste hauler whose license has been denied or revoked shall not be eligible for issuance or reinstatement of its license until 30 days after the violating conditions have been corrected to the satisfaction of the director.

Section 2. This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

FORM APPROVED:



Ann DiDonato
Assistant City Attorney