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CHAPTER 52 CRITERIA AND CONDITIONS FOR AUTHORIZING WITHDRAWAL, DIVERSION AND STORAGE OF WATER [Prior to 12/3/86, Water, Air and Waste Management[900]]

567—52.1(455B) Scope of chapter. This chapter contains criteria for issuance of water permits, permit conditions, and conditions under which the department may modify, cancel, or suspend permits. This chapter includes special criteria applicable to particular types of water uses such as irrigation and criteria applicable to particular types of sources of water such as surface waters and groundwater sources.

567—<u>50.20</u>52.2(455B) Conditions on permitted water uses. This rule includes permit restrictions which apply to various types of permitted water uses. A permitted use may be subject to additional restrictions related to its potential effects on surface or groundwater. Requirements and restrictions which relate to particular types of water sources are found in rules 567—52.3(455B), 567—52.4(455B), 567—52.6(455B), 567—53.6(455B) and 567—53.7(455B). Procedures for determining conditions imposed due to well interference are found in rule 567—<u>Chapter 54.7(455B)</u>.

50.2052.2(1) Irrigation water use permits.

a. Authorized irrigation season. Permits shall authorize irrigation of any general crop from April 1 to September 30 and any specialty crop from April 1 to October 31, unless the department finds that a different period is justified.

b. Authorized annual amount. Permits shall authorize withdrawals equivalent to <u>one</u>¹ acre-foot per acre for a general crop and 2<u>two</u> acre-feet per acre for a specialty crop, unless the department finds that a different amount is justified. Factors to be considered in determining whether a different amount is justified include soil types and potential water availability during drought events. Notwithstanding the general criteria in this paragraph, permits for irrigation of general crops from the alluvial aquifers of the Missouri and Mississippi Rivers shall authorize withdrawals of up to 1.5 acre-feet per acre if requested by the applicant, unless the department finds that a different amount is justified.

c. Conservation plan for erosion control. When 567—subrule 50.126(2) requires the submission of that an applicant for an irrigation permit submit a soil conservation plan, theory irrigation water use permit granted to the applicant shall make authorization of irrigation contingent upon compliance with the soil conservation plan.

d. Irrigation scheduling. The department may require that irrigation of a general crop be scheduled according to a method recommended by the department to minimize the potential for waste of water, or by an equivalent method selected by the permittee and approved by the department.

e. Irrigation system check valve. Each irrigation water use permit shall require the installation of permittee to install an adequate check valve and conduct frequent inspections of for the proper valve functioning of the check valve to prevent back-siphoning of contaminants into the water source before a fertilizer, pesticide, herbicide, or other additive is introduced into the irrigation system.

50.2052.2(2) The amount of water authorized for industrial use or power generation use shall be consistent with industry_wide usage for the same or similar purposes and types of facilities, and shall provide for growth where need is demonstrated by the applicant.

50.2052.2(3) The amount of water authorized for use by a <u>community public water supplyCWS</u> shall not exceed 200 gallons per day per capita, except additional water may be provided for growth and industrial use where need is demonstrated by the applicant.

<u>50.20</u>52.2(4) Recreational and aesthetic <u>water use</u> permits.

a. Authorized amount. The amount of water authorized for recreational and aesthetic uses shall be determined on a case-by-case basis.

b. Watering system backflow-prevention valve. Each permit authorizing the use of water for turf or landscape plantings shall require the installation of permittee to install an adequate check valve and conduct frequentannual inspections of for the proper valve functioning of the check valve to prevent back-siphoning of contaminants into the water source before a fertilizer, pesticide, herbicide, or other additive is introduced into the irrigation system.

This rule is intended to implement Iowa Code section 455B.265.

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567-50.21 52.3 (455B) Conditions on withdrawals from streams.

52.3(1) Streams draining less than 50 square miles. Withdrawals of water from streams draining less than 50 square miles shall be subject to the following conditions:

a. Two hundred gallon per minute (200 gpm) restriction. New withdrawals of water for consumptive uses shall not be in excess of 200 gallons per minute (200 gpm) on an aggregate basis. However, the department may authorize withdrawals in excess of 200 gallons per minute (200 gpm) for storage purposes during high stream flows, taking into account other permitted withdrawals on the stream reach.

<u>50.21(1)</u>*b*. Protected flow restriction. Except as provided in <u>subrule 50.21(1)</u>. <u>52.3(1)</u>"*e*," withdrawals for consumptive uses, with the exception of <u>CWSseemmunity public water supplies</u>, shall cease when the stream flow is below the protected flow designated in <u>paragraph 50.26(3)</u>"*a*." rule 567 – 52.8(455B). When the flow of a stream, or portion thereof designated by the department, is below a flow equal to the protected flow plus the summation of all permitted consumptive withdrawals by permittees whose permits provide for maintenance of a protected flow in such stream or portion thereof, the department may, subject to the provisions of <u>subrule 50.21(1)</u>. <u>52.3(1)</u>"*e*," order temporary cessation or rotation of all consumptive withdrawals, with the exception of <u>CWSseemmunity public water supplies</u>, to ensure that the protected flow is preserved.

<u>50.21(2)</u>*e.* Replacement water exemption. Subrule <u>50.21(1)</u>Paragraphs <u>52.3(1)</u>"a" and "b" shall not apply to withdrawals for consumptive uses from a stream if the permittee discharges replacement water into such stream <u>or tributary thereto</u> at rates sufficient to offset the consumptive withdrawals and the department approves the method and location of discharge.

d. Exemption until July 1, 1991, for certain users. Reseinded IAB 6/7/06, effective 7/12/06.

52.3(2) Streams draining 50 or more square miles. Withdrawals of water from streams draining 50 or more square miles shall be subject to the following conditions:

— a. Protected flow restriction. Except as provided in 52.3(2) "b," withdrawals for consumptive uses, with the exception of community public water supplies, shall cease when the stream flow is below the protected flow designated in rule 567—52.8(455B). When the flow of a stream, or portion thereof designated by the department, is below a flow equal to the protected flow plus the summation of all permitted consumptive withdrawals by permittees whose permits provide for maintenance of a protected flow in said stream or portion thereof, the department may, subject to the provisions of 52.3(2)"b," order temporary cessation or rotation of all consumptive withdrawals, with the exception of community public water supplies, to ensure that the protected flow is preserved.

— b. Replacement water exemption. Paragraph 52.3(2) "a" shall not apply to withdrawals for consumptive uses from a stream if the permittee discharges replacement water into such stream or tributary thereto at rates sufficient to offset the consumptive withdrawals and the department approves the method and location of discharge.

e. Exemption until January 1, 1989, for certain water uses. Reseinded IAB 6/7/06, effective 7/12/06.

e. Exemption until July 1, 1991, for certain users. Reseinded IAB 6/7/06, effective 7/12/06.

567—<u>50.22</u>52.4(455B) Conditions on <u>water</u> withdrawals from groundwater sources.

50.2252.4(1) Withdrawals from unconfined aquifers adjacent to streams draining less than 50 square miles. Withdrawals of water from unconfined aquifers adjacent to streams draining less than 50 square miles shall be subject to the following conditions:

a. Two hundred gallon per minute (200 gpm) restriction. New withdrawals for a consumptive use at any location within ¼ mile (1320 feet) of a stream shall not be in excess of 200 gallons per minute (200 gpm), except when the applicant can conclusively demonstrate by conducting appropriate tests that withdrawals in excess of 200 gallons per minute (200 gpm) will not reduce the flow of the stream. However, the department may authorize withdrawals in excess of 200 gallons per minute (200 gpm) will not reduce the flow of the stream. However, the department may authorize withdrawals in excess of 200 gallons per minute (200 gpm) for storage purposes during high stream flows.

<u>ab</u>. Protected flow restriction. Except as provided in 52.4(1) "e" and 52.4(1) "e", wWithdrawals for consumptive uses, with the exception of <u>CWSscommunity public water supplies</u>, at any point within 1/8 mile

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(660 feet) of a<u>n interior</u> stream shall be considered withdrawals from the stream and shall cease when the stream is below the protected flow designated in rule 567 52.8(455B), paragraph 50.26(3)"a." except as provided in paragraphs 50.22(1)"c" to "f." unless the applicant or permittee can conclusively demonstrate by conducting appropriate tests that the withdrawal will not reduce the flow of the stream.

b. Seven-day, one-in-ten-year low flow (7Q10) restriction. Withdrawals for consumptive uses, with the exception of CWSs, at any point located between 1/8 mile (660 feet) and ¼ mile (1320 feet) of a stream, other than a stream bordering the state, shall cease when the stream flow is at or below the 7Q10, as determined at the nearest downstream USGS gage, except as provided in paragraphs 50.22(1)"c" to "f."

c. <u>Missouri/Mississippi RiverBorder stream</u>-interior stream confluence restriction. Withdrawals for consumptive uses, with the exception of <u>CWSscommunity public water supplies</u>, from the alluvial aquifers below the floodplains of streams bordering the state at any point within 1/8 mile (660 feet) of any interior stream shall cease when the flow of such interior stream is at or below the seven day, one in ten year (7Q10) low flow, except as provided in paragraph 50.22(1)"d." 52.4(1)"d."

d. Other conditions. Notwithstanding paragraphs 50.22(1) "a" to "c," 52.4(1) "a" to 52.4(1) "e," other conditions may be imposed asthat are necessary to ensure adequate protection of water supplies for ordinary household, livestock, and domestic uses; for fish and wildlife use; for recreational use; for the preservation and enhancement of aesthetic values; or ordinary for other uses of a public nature.

e. Replacement water exemption. Paragraphs <u>50.22(1) "a" to "c" 52.4(1) "a" to 52.4(1) "e"</u> shall not apply to withdrawals for consumptive uses from an unconfined aquifer, if the permittee discharges replacement water into such stream or tributary thereto at rates sufficient to offset the consumptive withdrawals and the department approves the method and location of discharge.

f. Exemption until July 1, 1991, for certain users. Resended IAB 6/7/06, effective 7/12/06.

52.4(2) Withdrawals from unconfined aquifers adjacent to streams draining 50 or more square miles. Withdrawals of water from unconfined aquifers adjacent to streams draining 50 or more square miles shall be subject to the following conditions:

a. Protected flow restrictions. Withdrawals for consumptive uses, with the exception of community public water supplies, at any point within 1/8 mile (660 feet) of a stream shall be considered withdrawals from the stream and shall cease when the stream is below the protected flow designated in rule 567—52.8(455B), except as provided in 52.4(2)"c" to 52.4(2)"f."

b. Seven day, one in ten year low flow restriction. Withdrawals for consumptive uses, with the exception of community public water supplies, at any point located between 1/8 mile (660 feet) and ¼ mile (1320 feet) of a stream, other than a stream bordering the state, shall cease when the stream flow is at or below the seven day, one in ten year low flow (7Q10), except as provided in 52.4(2) "c" to 52.4(2) "f."

c. Border stream interior stream confluence restriction. Withdrawals for consumptive uses, with the exception of community public water supplies, from the alluvial aquifers below the floodplains of streams bordering the state at any point within 1/8 mile (660 feet) of any interior stream shall cease when the flow of such interior stream is at or below the seven day, one in ten year (7Q10) low flow, except as provided in 52.4(2)"d."

d. Other conditions. Notwithstanding 52.4(2)"a," to 52.4(2)"c," other conditions may be imposed if they are necessary to ensure adequate protection of water supplies for: ordinary household, livestock, and domestic uses;, for fish and wildlife, for recreational use;, for the preservation and the enhancement of aesthetic values;, and for other uses of a public nature.

c. Replacement water exemption. Paragraphs 52.4(2) "*a*." to 52.4(2) "*c*" shall not apply to withdrawals for consumptive uses from an unconfined aquifer, if the permittee discharges replacement water into such stream or tributary thereto at rates sufficient to offset the consumptive withdrawals, and the department approves the method and location of discharge.

f. Exemptions from low flow restrictions. The restrictions of paragraphs 50.22(1) "a" to "d" 52.4(2) "a" to 52.4(2) "a" may be waived if the applicant or permittee can conclusively demonstrate by conducting pump testing, sto demonstrate that the withdrawal will not reduce the flow of the adjacent stream. The pump testing plan for testing_must be approved by the department prior to the applicant's or permittee's conducting the testings.

Commented [1]: New 50.22"b" - moved from old 52.4(2)"b".

Commented [2]: Old 52.4(2)"b" - moved to new 50.22"b".

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. Exemption until July 1, 1991, for certain users. Reseinded IAB 6/7/06, effective 7/12/06.

50.2252.4(23) Withdrawals from the Cambrian-Ordovician (Jordan) aquifer. Withdrawals of water from the Cambrian-Ordovician (Jordan) aquifer, including the St. Peter sandstone formation, the Prairie du Chien group, and the Jordan sandstone formation, shall be subject to the following conditions:

a. Two-hundred-gallon-per-minute (gpm) restriction-on irrigation, recreational, or aesthetic uses. New withdrawals of water for irrigation, recreational, or aesthetic uses shall not exceed be in excess of 200 gpmgallons per minute. Existing permits for irrigation, recreational, and aesthetic uses that authorize withdrawal rates in excess of 200 gpmgallons per minute may be modified or rescinded by the department-if the department, as determinesd by the department, that any well in the vicinity experiences loss of water due to pumping or if the pumping water level is reduced to or below the levels described in subparagraphs 50.22(2) "f"(1) and "g"(1) "f" and "g" of this subrule.

b. Two-thousand-gallon-per-minute (gpm) restriction-on industrial or power generation uses. New water withdrawals for industrial or power generation uses at a singleone plant location shall not exceed 2,000 gpmgallons per minute. Existing permits for industrial or power generation use that authorize withdrawal rates in excess of 2,000 gpmgallons per minute may be modified or rescinded by the department if the department determines that any well in the vicinity experiences loss of water due to pumping or if the pumping water level is reduced to or below the levels described in subparagraphs 50.22(2)"f"(1) and "g"(1), "f" and "g" of this subrule.

c. Limited cooling and geothermal use. No once-through (single pass with disposal to storm sewer or equivalent) cooling water or geothermal usage is allowed. Withdrawals for geothermal purposes are prohibited unless 100 percent of the withdrawn water is reinjected into the aquifer in accordance with <u>department</u>the requirements-of the department.

d. Jordan aquifer high-capacity permits and wells. Water use permits for the Jordan aquifer shall be issued on a five-year permit cycle. <u>AThe</u> water use permit for wells expected to pump over 25,000 gallons per day from the Jordan aquifer <u>shallmust</u> be obtained from the department before any water well construction permit is issued. After <u>athe</u> water use permit for any nonpublic water supply system, unless that well is located in one of the protected-source areas listed in 567—subrules 53.7(2) and 53.7(3). The department may issue a <u>Cambrian Ordovician</u> (Jordan) aquifer water well construction permit for a public water supply system or a well located in the protected source areas listed in 567—subrules 53.7(2) and 53.7(3). All driller's logs for water use wells completed in the Jordan aquifer shall be submitted to the department and the Iowa Geological Survey.

e. Tier 1 Jordan wells. A Jordan water use well is classified as Tier 1 when pumping water levels have not reached the Tier 2 or Tier 3 levels described in paragraphs_subparagraphs_50.22(2)"f"(1) and "g"(1). "f" and "g" of this subrule. Permittees with Tier 1 Jordan wells shall follow standard water use reporting procedures for the Jordan aquifer pursuant to rule 567—50.2452.6(455B).

f. Tier 2 Jordan wells.

(1) A Jordan well is classified as Tier 2 when the pumping water level measured at the well declines over 300 feet below the 1978 Horick and Steinhilber potentiometric surface, or the pumping water level declines over 50 percent from the 1978 Horick and Steinhilber potentiometric surface and the top of the Jordan aquifer, whichever is more conservative. Permittees with Tier 2 wells shall comply with paragraph "h" of this subrule.

(2) Permittees with Jordan wells that have reached the Tier 2 level shall develop a site-specific water use reduction plan and submit it to the department. The plan shall be reviewed and approved by the department. The water use reduction plan shall set a defined usage percent reduction target that will minimize Jordan aquifer withdrawals and prevent the decline of the water level from reaching the Tier 3 category, pursuant to subparagraph 50.22(2)"g"(1). If the water use reduction plan is not implemented, the department may reduce the permitted water use allocation, pursue permit enforcement, or rescind the permit.

g. Tier 3 Jordan wells.

(1) A Jordan well is classified as Tier 3 when the pumping water level measured at the well declines over 400 feet below the 1978 Horick and Steinhilber potentiometric surface, or the pumping water level declines over 75 percent from the 1978 Horick and Steinhilber potentiometric surface and the top of the Jordan aquifer, whichever is more conservative. Permittees with Tier 3 wells shall comply with paragraph "i" of this subrule.

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reduction plan using an approved pr elevations above Tier 3 levels. The department. If water levels continue t	that have reached the Tier 3 level shall deve redictive model that will lead to recovery of e plan and model predictions shall be revis o decline beyond the Tier 3 level, the departme enforcement, including aspects of the water us	the pumping water level to wed and approved by the nt may reduce the permitted	Commented [4]: Moved from	n old 52.4(3)"i".
the permit. <u>A. Site specific water use reduc</u> reached the Tier 2 level <u>pursuant top</u> submit the plan to the department. The reduction plan shall set a defined use	tion plan for Tier 2 Jordan wells. Permittees paragraph "f" of this subrule <u>shall develop a v</u> he plan must be reviewed and approved by the ge percent reduction target that will minimize	with Jordan wells that have vater use reduction plan and department. The water use Jordan aquifer withdrawals	Commented [5]: Moved to r	new 50.22(2)"f"(2).
subrule. Guidance for writing and im subrule. If the water use reduction pla allocation, pursue enforcement of the <u>I. Enhanced site specific water</u>	level from reaching the Tier 3 category pursus plementing water use reduction plans is availa an is not implemented, the department may rec permit, or rescind the permit. <i>use reduction plan and predictive model for Tic</i> he Tier 3 level, pursuant to paragraph "g" of the	ble in paragraph "k" of this luce the permitted water use w 3 Jordan wells. Permittees	Commented [6]: Moved to r	new 50.22(2)"g"(2).
aggressive water use reduction plan us water level to elevations above Tier 3 the department. If water levels cont	sing an approved predictive model that will leave levels. The plan and model predictions shall b inue to decline beyond the Tier 3 level, the ise enforcement of the permit including aspect	I to recovery of the pumping e reviewed and approved by department may reduce the		
<u>h</u> f. <u>Waivers Variances</u> . <u>Waivers</u> W the department through the procedure <u>i</u> k. Resources for developing wa the department as guidance for developing was the department as guidance for developing was as a for developing	Teriances from the restrictions imposed by these res found in rule 567 50.9(455B) and in 561 ther use reduction plans. The rResources wgg oping water use reduction plans are listed in pre- the state of the content of	Chapter 10. ested by and available from tragraph 52. <u>27</u> 9(3) "d."	Commented [7]: Restateme	ent of new 50.27(3)"d"(1).
issue permits authorizing withdrawal for all beneficial uses under the follo <i>a. Inventory of nearby wells by c</i>	s of water from the Dakota Sandstone formation wing conditions: <i>applicant.</i> An applicant who requests authorizate allons per minute shall conduct and submit an	on of the Cretaceous system		
<u>— <i>Observation wells</i></u> . In addition measurement of water levels in each p maintain, and monitor observation department finds observation wells n	n to the requirement of 52.6(3) for construction production well, an applicant or permittee may a wells as a condition of obtaining or keeping eccessary to monitor the effects of the propose e properly constructed and responsive to wal	also be required to construct, ; a water <u>use permit if the</u> d or authorized withdrawals		
aquifer. Plans for and monitoring of t <u>C. Prohibition of excessive wat</u> from the Dakota Sandstone formati causing water level declines which co	he observation wells must be approved by the er level declines. If the department determine on of the Cretaceous system within a design stitute a significant threat to the public interer utiler, renewals of permits shall be denied, and	department. s that withdrawals of water ated geographical area are st in the availability of water		
canceled in accordance with procedu sustained use. <u>d. Priorities in renewal, modifie</u> permits must be modified or cancele	res in Iowa Code section 455B.271, as necessi cation <u>,</u> and cancellation of permits. If permit re ad to prevent or abate water level declines wi	ary to protect the aquifer for pnewals must be denied or if nich constitute a significant		
water for community public water s uses. The priority list for water use or This rule is intended to implem 455B.272.	ent Iowa Code sections 455B.261, 455B.264	of water for other regulated		
[ARC 2053C, IAB 7/8/15, effective 8/12/15; AF	RC-4426C, IAB-5/8/19, effective-6/12/19]			

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567—50.2352.5(455B) Duration of water use permits for withdrawal or diversion of water.

50.2352.5(1) General. A water use permit-granted shall remain as an appurtenance of the land described in the permit through the date specified in the permit and any permit extension of the permit or unlessuntil an earlier date when the permit or its extension is terminated eanceded under rule 567—50.2552.7(455B). Upon application for a permit prior to the termination date specified in the permit, aA water use permit may be renewed by the department if an application is submitted prior to the termination date specified in the permit.

50.2352.5(2) *Permits for wWithdrawal or diversion of surface water*. Water use pPermits for withdrawal or diversion of surface water shall be issued for ten years.

50.2352.5(3) *Permits for wWithdrawal of groundwater.* Water use Ppermits for withdrawal of groundwater shall be issued for a maximum period of ten years and may be granted for less than ten years if geological data on the capacity of the aquifer and the rate of its recharge are indeterminate.

This rule is intended to implement Iowa Code section 455B.265.

567—50.2452.6(455B) Monitoring, recording, and reporting of water use and effects on water sources.

50.2452.6(1) *Water use reports*. Each permittee shall submit to the department, at least annually, or as prescribed by the department, reports of water used, diverted, or stored and any other information deemed necessary by the department.

<u> 52.6(2) Reserved.</u>

50.2452.6(23) Requirement of access port for measurement of water levels in a regulated well. All new water use permits which authorize withdrawals from wells shall require that each authorized production well be equipped with an access port having a minimum diameter of $\frac{3}{4}$ inch. The access port must be located to allow insertion of a steel tape or electric probe into the well casing for measurement of water levels.

50.2452.6(34) <u>PumpAquifer</u> tests and observation wells. A permittee may be required to conduct a pumpeontrolled aquifer test as a condition of keeping a water <u>use</u> permit if the department finds an aquifer pump test <u>isto be</u> necessary to determine the effects which the authorized withdrawals have on other water users. A pumpeontrolled aquifer test, authorized by the department and supervised by a certified well contractor, licensed professional engineer, or other <u>department</u> designee of the <u>department</u>, may be required for an administrative resolution of a well interference conflict pursuant to 567—Chapter 54. The permittee may be required to construct, develop, and maintain adequate observation wells for use in an <u>aquifer pump</u> test and for subsequent water level measurements or water quality monitoring.

This rule is intended to implement lowa Code sections 455B.261, 455B.264, 455B.266, 455B.268(1) and 455B.281.

[ARC 4426C, IAB 5/8/19, effective 6/12/19]

567—<u>50.2552.7</u>(455B) Modification, <u>termination</u><u>eancellation</u>, and emergency suspension of <u>water use</u> permits.

50.2552.7(1) General. Except as provided in subrule 50.2552.7(2), after at least 30 days' written notice mailed to the permittee's last-known address by certified mail, and an opportunity for the permittee to be heard in an evidentiary hearing conducted in accordanceing to the contested case provisions with of Iowa Code chapter 17A, the department may modify or terminatecancel a water use permit or any permit condition-of a permit, notwithstanding any other rule, for any of the following reasons:

a. Breach of permit condition or law. A permit condition of the permit has been breached or the law pertaining to the water use permit has been violated by the permittee or permittee's agent, tenant, or consultant.

b. Nonuse. The permittee has failed for three consecutive years to use the water, and the permittee has not demonstrated adequate plans to use water within a reasonable time. Nonuse due to adequate rainfall shall not be a justification for <u>permit terminationeancellation of a permit.</u> However, authorization to withdraw water from a proposed well may be <u>terminatedeanceled</u> after notice to the permittee if the permittee has failed to construct the proposed well within three years after <u>permit</u> issuance of the permit.

c. Public health and safety. Modification or <u>terminationeancellation</u> is necessary to protect the public health and safety, to protect the public interests in lands and waters, or to prevent any manner of substantial injury to persons or property.

d. Addition of conservation provisions. Modification to include conservation provisions is deemed

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necessary by the department.

e. Allocated amount. For three consecutive years, annual water use has exceeded the amount of water allocated in the water use permit.

50.2552.7(2) Emergency suspension or restriction. Notwithstanding any other rule or permit conditions, if the department finds that it is imperatively necessary in an emergency to protect from imminent danger or substantial injury the public health, welfare, or safety, or the public or private interest in lands or water, or to implement the priority allocation system pursuant to rule 567-502.28+0(455B), and these findings are incorporated into a written emergency order to the permittee, then the department may immediately suspend or restrict operations under a water use permit and require the permittee to take measures necessary to prevent or remedy the injury. The emergency order shall state an effective date appropriate to the situation which invoked the suspension or restriction and shall be immediately effective on that date unless stayed, modified, or vacated at a hearing before the commission or by the court. The emergency order shall remain in effect until a date specified in the order, unless the order is revoked or the expiration date <u>is</u> modified, due to a change in the situation giving rise to the order or a decision following appeal.

This rule is intended to implement Iowa Code sections 455B.271, 455B.272 and 17A.3.

567—<u>50.26</u>52.8(455B) Designated protected flows of streams.

50.2652.8(1) Purpose. <u>A-The</u> protected flow is designed to protect and maintain adequate water supplies for: ordinary household, and livestock, and domestic uses; for fish and wildlife use; for recreational use; for in-stream wasteload assimilation and pollution control; for beneficial water use needs in the watershed; for preservation or enhancement of aesthetic values; and for other uses of a public nature.

50.2652.8(2) Protected flow basis. The Pprotected flows are is based in part on statistical information contained in "Low-Flow Characteristics of Iowa Streams," (INRC Bulletin No. 9 (1958)), "Low-Flow Characteristics of Iowa Streams through 1966," (INRC Bulletin No. 10 (1970)), "Annual and Seasonal Low-Flow Characteristics of Iowa Streams," (INRC Bulletin No. 13 (1976)), and "Statistical Summaries of Selected Iowa Streamflow Data Through September 1996, <u>USGSU.S. Geological Survey</u> Open-File Report 98-176 (1998)."

50.2652.8(3) Protected flow levels.

a. At stream gaging stations. The pProtected flows, expressed in cubic feet per second (cfs) at points on a stream with an official U.S. Geological SurveyUSGS streamflow gage, are listed in the table below.

The Protected Flow at USGS U.S.G.S. Stream Gaging Locations

Gage Location **River or Stream** USGS Gage Number Protected Low Flow (CFS) 5463000 Beaver Creek New Hartford 18 5473450 Big Creek Mount Pleasant Black Hawk Creek Hudson 5463500 45 Boone River Webster City 5481000 24 Boyer River Logan 6609500 41 Cedar River Conesville 5465000 1240 5464500 Cedar River Cedar Rapids 937 5464000 Cedar River Waterloo 710 5458500 Cedar River Janesville 185 5457700 100 Cedar River Charles City 6903900 2.9 Chariton River Rathbun 350 Des Moines River Keosauqua 5490500 5489500 Des Moines River Ottumwa 300 Des Moines River 5488500 300 Tracy Des Moines (14th St.) Des Moines River 5485500 300 Des Moines River Saylorville 5481650 200 Des Moines River 5481300 Stratford 310 Des Moines River Fort Dodge 5480500 220 East Fork Des Moines River Dakota City 42 East Nishnabotna River Red Oak 6809500 37

Commented [9]: Matches new 50.22(1)"d" (old 52.4(1)"d").

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52.4(1)"d")

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Protected Low Flow (CFS) **Gage Location River or Stream** USGS Gage Number East Nishnabotna River Atlantic 6809210 18 Floyd River James 6600500 22 Iowa River Wapello 5465500 1390 Iowa River 5455700 150 Lone Tree 5454500 Iowa River 150 Iowa City 5453100 Iowa River Marengo 204 5451500 104 Iowa River Marshalltown 5449500 21 Iowa River Rowan 5458000 28 Little Cedar River Ionia 6607500 Little Sioux River Turin 200 Little Sioux River Correctionville 6606600 106 6605850 Little Sioux River Linn Grove 42 Maple River Mapleton 6607200 50 Maquoketa River Maquoketa 5418500 372 Middle Raccoon River Panora 5483600 20 Middle River Indianola 5486490 14.6 Monona-Harrison Ditch 6602400 27 Turin 6810000 128 Nishnabotna Hamburg Nodaway 15 Clarinda 6817000 North Raccoon River Jefferson 5482500 82 5482300 North Raccoon River Sac City 14 North River Norwalk 5486000 5.6 5472500 35 North Skunk River Sigourney Raccoon River Van Meter 5484500 190 Rock River Rock Valley 6483500 26 Shell Rock River Shell Rock 5462000 147 Skunk River 5474000 287 Augusta 6608500 20 Soldier River Pisgah South Raccoon River Redfield 5484000 58 5487470 4.1 South River Ackworth 5471500 94 South Skunk River Oskaloosa Ames (below Squaw Creek) 5471000 23 South Skunk River 5470000 South Skunk River Ames 4.8 Thompson River Davis City 6898000 13 5412500 Turkey River Garber 210 Upper Iowa River Decorah 5387500 80 Walnut Creek Hartwick 5452200 Wapsipinicon River DeWitt 5422000 150 Wapsipinicon River 5421000 17 Independence West Fork Cedar River Finchford 5458900 66 12 West Fork Ditch 6602020 Hornick West Nishnabotna River Randolph 6808500 67 6807410 West Nishnabotna River 49 Hancock White Breast Creek Dallas 5487980 3.2 Mason City 5459500 Winnebago River 39

b. At stream locations other than gaging stations. The protected flow for points on a stream, other than at a <u>USGSUS. Geological Survey</u> gaging station, shall be established, as the need arises, by comparison of available stream flow data and basin characteristics.

This rule is intended to implement Iowa Code sections 455B.261, 455B.262 and 455B.267.

567—<u>50.27</u>52.9(455B) Water conservation.

<u>50.27</u>52.9(1) General. The purpose of <u>these</u> water conservation requirements <u>areis</u> to preserve the availability of water which is withdrawn for use, as opposed to protected flow provisions in rules <u>567</u><u>52.3(455B)</u>, <u>567</u><u>52.4(455B)</u>, and <u>567</u><u>52.8(455B)</u> which preserve in_stream flows.

<u>a.</u> Each <u>water use</u> permit granted after July 1, 1986, including any permit granted to a <u>CWS</u>community public water supply, will include conditions requiring routine (day-to-day) conservation practices and requiring

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emergency conservation practices after <u>department</u> notification by the department. Existing permits may be modified to include conservation conditions pursuant to <u>subrule 50.27(3) 52.7(1) "*d*," if deemed necessary by the department.</u>

<u>b.</u>Only general provisions for routine conservation will be included in a <u>water use</u> permit, unless water is to be withdrawn from a protected water source designated in <u>567—Chapter 53</u> which has specific requirements for routine conservation. Permit conditions requiring routine conservation are primarily intended to raise awareness of water usage, develop a preparedness for periods of water shortages, and minimize waste of water.

<u>c</u>. General conditions involving emergency conservation will be included in all <u>water use</u> permits. Specific emergency conservation conditions may be included in a <u>water use</u>-permit pursuant to <u>subrule 502.279(2)</u>. If specific emergency conservation permit conditions are required, they will be based on a <u>department-approved</u> water conservation plan developed by the permittee or applicant, in accordance with <u>subrule 520.927(3)</u>, and approved by the department.

<u>d.</u> The purpose of emergency conservation is to minimize consumptive use of water from a source experiencing a temporary shortage. Emergency conservation restrictions will be imposed only when water shortages are imminent or actually exist, in accordance with rule 567—502.2840(455B). Long-term water shortages are addressed may be dealt with in the protected source rules, 567—Chapter 53.

50.2752.9(2) Applicability of emergency conservation. Specific emergency conservation requirements may be made a condition of a water <u>usewithdrawal</u> permit if the proposed or permitted withdrawal could result in a significant consumptive use of water from a source which is likely to experience a short-term shortage. Specific emergency conservation requirements will not normally be included in a water use permit under any of the following conditions:

a. The proposed or existing permitted water use involves a consumptive use of less than 25,000 gallons per day from any water source during periods of substantial water shortage.

b. The proposed or permitted use is subject to protected stream flow conditions pursuant to <u>rule 567—52.3(455B)</u>, solve the stream flow conditions pursuant to <u>rule 567—52.3(455B)</u>.

c. The water source for the proposed or permitted use is from a surface water impoundment or purchased storage owned by the applicant or permittee.

d. The proposed or permitted use is unable to conserve water without substantially disrupting or ceasing an essential activity which requires water, such as operating a steam electric generating plant, watering livestock, or operating a commercial laundry.

e. The proposed or permitted withdrawal is from a source of water which is not likely to experience a substantial short-term water shortage including, but not limited to, the Missouri and Mississippi Rivers and adjacent alluvial aquifers, the Jordan Sandstone Aquifer, and the Iowa Great Lakes.

f. The source of water is or will be utilized by only the permitted or proposed water user and withdrawal from the source for the permitted or proposed use has no potential for affecting other water uses.

50.2752-9(3) Water conservation plans. Unless specific emergency conservation permit conditions are not required in accordance with subrule 52.9(2), the applicant or permittee shall submit a water conservation plan with an application for a new water use permit or renewal of an existing permit. The department may also require a water conservation plan to be submitted by any existing permittee after a minimum of 90 days' notice. If an applicant is in doubt as to whether or not the application requires a water conservation plan, the department should be contacted and provided with a description of the proposed source of water, intended use, and desired amount and rate of withdrawal. The department will then make a determination of whether or not a conservation plan is necessary. If a water conservation plan is required with an renewal application, for permit renewal, the department will notify the permittee at least 120 days prior to expiration of the <u>water use</u> permit. Water conservation plans shall describe the measures to be used to achieve water conservation and estimate <u>the water</u> savings from each measure. Water conservation plans must contain the following information, as applicable, to be approved by the department.

a. General provisions. The following information shall be included in all water conservation plans:

(1) A description of each source of water withdrawal₂ (i.e., well or surface water intake) including the location, well depth, pumping rate, and date of installation.

Commented [10]: Restatement of new 50.27(3)"a" below.

(2) A description of wastewater discharge_including the location and discharge frequency.

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(3) Monthly withdrawal amounts from each source for the past five years.

(4) Monthly total water withdrawal amount for the past five years.

(5) Monthly total wastewater discharge amount for the past five years.

(6) A quarterly breakdown, by the water use categories in subrule 502.2840(3), of total water use and estimated consumptive water use over the past five years.

(7) A description of any previous water shortage problems, including the cause, frequency, other affected parties, and how they were resolved.

(8) Identification of nearby water supplies which are potentially affected by or could potentially affect the proposed or permitted withdrawal.

(9) A means of identifying impending water shortage problems (e.g., water level in wells or a reservoir decline to a certain level or stream flows fall to a certain rate).

b. Routine conservation provisions. Consideration of routine conservation is encouraged although it is not normally required in a water conservation plan. Documented water savings from routine conservation measures will be credited towards emergency conservation requirements. Suggested routine conservation measures include:

(1) Use of water-saving plumbing devices or required use of these devices in building codes.

(2) Scheduling irrigation to minimize peak water use.

(3) Use of efficient irrigation techniques.

(4) Implementing programs to minimize lost water, such as distribution system leaks.

(5) Use of metered water billing by public water supplies.

(6) Utilizing best commercially available technology to optimize efficiency of water use.

(7) Implementing recycling and reuse practices.

(8) Developing alternative water sources which are not susceptible or are less susceptible to shortages.

(9) Increasing rates charged for water or eliminating reduced rates for large users.

c. Emergency conservation provisions. Water conservation plans shall contain emergency conservation provisions in accordance with the following criteria.

(1) General.

<u>1.</u> The consumptive nature of a water use, as described in subrule 50.2752.9(2) and determined in accordance with this subrule, from information required in 52.9(3) "a," shall be reduced by at least 50 percent over similar periods of normal use. This criterion does not apply to irrigation use. If this requirement cannot be met, justification for nonattainment shall be provided. Justification shallwhich must include documentation that an activity involving water use is essential and demonstration of <u>the</u> use of best commercially available technology. The department may then grant <u>waiversvariances</u> on a case-by-case basis.

2. Measures which will be credited for emergency conservation include, but are not limited to, the following:

documented water savings resulting from routine water conservation measures;

- shutdown, postponement, or curtailment of nonessential <u>water use</u> activities involving water use;
- switching to nonaffected sources for water supply;
- mitigation of consumptive uses by <u>the</u> direct discharge of stored water or <u>of</u> water from a nonaffected source to the affected water source;
- acquisition and retirement of existing consumptive uses from the affected water source (credit for retirement of existing consumptive uses will be given only for the amount authorized during periods when emergency conservation is required); and
- imposing surcharges on water use during periods of shortage.

(2) Public water supplies (<u>PWSs</u>). At a minimum, emergency water conservation plans for <u>PWSspublic</u> water supplies must include provisions for restricting outside, consumptive water use.

(3) Irrigation water use.

<u>1.</u> Emergency water conservation plans for irrigation water uses shall limit irrigation water use to the equivalent of one inch per irrigated acre per week for general crops and specialty crops, unless the water conservation plan contains other mitigating provisions, such as those listed in paragraph 50.27(3)"b." 52.9(3)"c"(1) above.

2. Water conservation plans shall also address irrigation scheduling. Irrigation scheduling should attempt to

provide approximately equal water use on each day of an irrigation cycle. Irrigation sScheduling may be done in cooperation with other nearby irrigators who utilize the same water source.

d. Resources for water conservation and water use reduction planning.

(1) The following resources are suggested by and available from the department as guidance for the development of water conservation plans and water use reduction plans:

1. "Water Wise—Efficiency Planning and Water Conservation Plan Workbook for Water and Wastewater Utilities," Iowa Association of Municipal Utilities, 2013 (available online through the department's website).

2. "Water Conservation Program—A Planning Manual," Manual of Water Supply Practices M52, American Water Works Association, 2006.

 "Handbook of Water Use and Conservation," Amy Vickers, Waterplow Press, Amherst, Massachusetts, 2001.

(2) Water conservation plans and water use reduction plans shall comply with the standards of the American Water Works Association or a reasonable equivalent as determined by the department.

This rule is intended to implement lowa Code sections 455B.262 and 455B.265. [ARC 2053C, IAB 7/8/15, effective 8/12/15]

567—<u>50.28</u>52.10(455B) Priority allocation restrictions.

50.2852.10(1) General. After any triggering event described in subrule 50.2852.10(2) has occurred, the department will investigate and, if appropriate, may restrict water use according to the priority allocation plan the described in subrule 50.2852.10(3). Prior to imposing the priority allocation plan, the department will normally require emergency conservation measures to be taken by existing permittees. The department will not normally impose the priority allocation plan until an actual impairment of water usage exists.

<u>a.</u> The department will notify existing permittees of any emergency restriction or suspension of water use by written order, pursuant to subrule 502.257(2). A permittee will be required to maintain daily records of water withdrawal and wastewater discharge, if any, while the emergency order is in effect. These records shall be available for <u>department</u> inspection by the department to verify compliance with the order.

<u>b.</u> Suspension or restriction of water usage applicable to otherwise nonregulated water users shall be by emergency order of the director which the department shall cause to be published in local newspapers of general circulation and broadcast by local media. The emergency order shall state an effective date of the suspension or restriction and shall be immediately effective on that date unless stayed, modified, or vacated at a hearing before the commission or by a court.

c. The department will lift the suspension or restriction of water usage, as deemed appropriate, when evidence of sustained, improved conditions is available.

<u>d.</u> The department will not impose a suspension of water or a further restriction, other than emergency conservation, on the uses of water provided in <u>subparagraphs 50.2852.10(3) " $b_{\overline{5}}$ "(6) through (8)"+" or on uses of water pursuant to a contract with the state as provided in <u>lowa Code subsections 455B.263(5) and 455B.263(6)</u> unless the governor has issued a proclamation, as described in <u>paragraph 50.2852.10(2)"b.</u>" Notwithstanding such proclamation, in the case of water use under a contract with the state pursuant to <u>lowa Code subsections 455B.263(5) and 455B.263(6)</u> and in effect prior to March 5, 1985, restriction or suspension measures will be limited to emergency conservation.</u>

<u>50.28</u>52.10(2) *Triggering events*. The department may implement the priority allocation plan following the occurrence of any of the following:

a. Receipt of a petition by a governmental subdivision or 25 persons that the priority allocation plan be implemented due to a substantial local water shortage adversely affecting their water supply.

b. Issuance by the governor of a proclamation of a disaster emergency due to a drought or other event affecting water resources of the state.

c. Determination by the department in conjunction with the homeland security and emergency management division of the Iowa <u>D</u>department of <u>P</u>public <u>D</u>defense of a local crisis which affects availability of water.

d. Receipt of information from a state or federal natural resource, research, or climatological agency (including the National Drought Monitor) indicating that a drought of local or state magnitude is imminent. As a general guideline, emergency conservation or priority allocation restrictions will not be imposed on

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withdrawals from a surface stream or adjacent alluvial aquifer when stream flow is above the 7010 seven day, one in ten year low flow level.

50.2852.10(3) Priority allocation plan. Notwithstanding a person's possession of a permit or the person's use of water being a nonregulated use, the department may suspend or restrict water useage of water by use category of use on a local or statewide basis in the following order:

a. Water conveyed across state boundaries.

b. Water used for: Water used primarily for r

(1) Recreational or aesthetic purposes.

c. (2) Uses of water for the iIrrigation of any general crops.

-(3) Uses of water for the iIrrigation of any specialty crops.

(4) Uses of water for mManufacturing or other industrial processes.

f. (5) Uses of water for gGeneration of electrical power for public consumption.

-<u>(6) Uses of water for lL</u>ivestock production.

h. (7) Uses of water for hHuman consumption and sanitation supplied by rural water districts, municipal water systems, or other public water supplies.

—(8) Uses of water for hHuman consumption and sanitation supplied by a private water supply. This rule is intended to implement lowa Code section 455B.266.

567-50.2252.11(455B) Well pPlugging of abandoned wells. When a water use well is no longer used, or is in a state of disrepair or neglect, When authorization for withdrawals of water from a well expires without renewal, the permittee shall be responsible for plugging the well in accordance with lowa Code section 455B.190, 567-Chapter 39, and Iowa Geological Survey Public Information Circular #1, "Well Plugging Procedures," or by an alternate method approved by the department for prevention of groundwater pollution. The well plugging form Form 542 1226 (Abandoned Water Well Plugging Record)-must be completed and submitted as specified on the form. However, the department shall grant a waivervariance from the well plugging requirement that the well be plugged if athe permittee demonstrates an intent to maintain the well as a source of water for a nonregulated use or if the department determines that the well should be maintained as an observation well

This rule is intended to implement Iowa Code sections 455B.262 to 455B.279(2). 567 52.12 to 52.19 Reserved.

567 52.20(455B) Water storage permits. Rescinded ARC 5899C, IAB 9/8/21, effective 10/13/21. See rule 567 73.11(455B).

567 52.12(455B) Permits to divert water to an agricultural drainage well.

52.12(1) Approval criteria. An application for a permit to divert water or other material to an aquifer by means of an agricultural drainage well shall not be approved if the agricultural drainage well is located within a designated agricultural drainage well area or the drainage well is to be constructed after February 18, 1998. An initial permit for the diversion of water or any material to an aquifer by means of an agricultural drainage well shall be based on a finding that the following criteria are satisfied. Renewal of such a permit shall be made only upon a finding that such owners, lessees, easement holders, or option holders are in compliance with the conditions of the initial permit or any permit issued thereafter and that the agricultural drainage well meets applicable approval criteria, including paragraph 52.21(1)"c."

a. The application for the permit has been submitted by or on behalf of all owners, lessees, easement holders, or option holders of all lands which are drained by the agricultural drainage well.

b. There is reasonable assurance that the applicant(s) can minimize the contamination potential to the aquifer through closure of surface water intakes, elimination of any septic system connections, and other appropriate management practices including nutrient and pesticide management as required under subrule 52.21(2).

There are no economically and physically viable alternatives to the use of the agricultural drainage well. The department will consult with the division of soil conservation and water quality, department of agriculture Commented [11]: Iowa Code section 460.202, Preventing surface water drainage into ag drainage wells, does not allow this to happen.

and land stewardship, and other parties with drainage expertise as necessary to determine if viable alternatives exist. In determining whether a viable alternative exists, the department will consider all relevant factors, including the following:

(1) The impact that closure of the ADW would have on lands drained by the agricultural drainage well if an alternative drainage system is not provided.

(2) The cost and feasibility of providing an alternative outlet. Alternative drainage systems constructed under the provisions of the alternative drainage system assistance program administered by the division of soil conservation and water quality will be considered as a viable alternative to the use of the agricultural drainage well.

(3) The availability of public assistance for the construction of an alternate outlet or for compensation for loss of productivity on lands drained by the agricultural drainage well.

(4) The results of the engineering study provided for under 52.21(2)"1."

— 52.21(2) Approval conditions. Permits granted for the diversion of water or any material to an aquifer by means of an agricultural drainage well shall be subject to the following conditions as appropriate.

— a. Surface water intakes. All surface water intakes shall be removed by December 31, 2001. Additional tile lines may be added to compensate for removal of surface water intakes provided the replacement tile does not increase the size of the agricultural drainage well area. Replacement tiles shall generally conform with the Natural Resources Conservation Services Tile Intake Replacement Interim Standard 980.

b. Cisterns. Cisterns shall be sealed or otherwise modified as necessary by December 31, 2001, to prevent direct entry of surface water. Compliance with the Natural Resources Conservation Services Wellhead Protection Interim Standard 981 will be considered as complying with this condition. Alternatives to the interim standard may be allowed with department approval.

— c. Access/ventilation. The agricultural drainage well or its cistern shall be provided with a locked cover to prevent unauthorized access. If the agricultural drainage well and the related drainage system is ventilated, ventilation shall be accomplished in a manner that will not allow surface water to enter the agricultural drainage well.

d. Repair and maintenance. The agricultural drainage well and the associated drainage system may be repaired and maintained as needed to maintain drainage efficiency. The drainage well and associated tile drainage system shall be maintained in a condition so as to prevent surface water which has not filtered through the soil profile from entering the drainage well.

-e. Modifications of drainage well. The agricultural drainage well shall not be modified without department approval. The related drainage system may be modified without department approval providing the modifications do not enlarge the agricultural drainage well area. Construction of new surface water intakes is not allowed.

f. Closure. If the permittee discontinues use of the agricultural drainage well, the department shall be notified and closure shall be made in accordance with 567 Chapter 39 or by an alternative method approved by the department. The permit will be revoked upon submission of proof that the drainage well was properly closed.

<u>g.</u> Modification or cancellation of permit. As provided in 567 52.7(455B), the department may modify or cancel the permit or require the permittee to take other actions to protect the public health and safety, to protect the public interest in lands and waters, or to prevent any manner of substantial injury to persons or property.

h. Waste systems. Effluent from wastewater treatment or storage systems, including on site wastewater treatment and disposal systems such as septic systems, shall not be allowed to directly enter the agricultural drainage well or associated tile drainage system. Runoff controls consistent with Chapter 65 requirements and guidance may be required for feedlots that discharge across lands drained by an agricultural drainage well to control manure nitrogen and to eliminate the potential for direct entry of animal wastes into an agricultural drainage well or its drainage system.

— i. Nitrogen management. The application of nitrogen from all sources, including manure, legumes, and commercial fertilizers, on lands within an agricultural drainage well drainage area shall not exceed the nitrogen use levels necessary to obtain optimum crop yields for the crop being grown.

- j. Application of liquid animal wastes. Application of liquid animal waste to lands drained by the

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agricultural drainage well shall be done in a manner that will not result in a discharge of the waste to the drainage well or associated drainage system.

— k. Application of pesticides. The application of pesticides on lands within the agricultural drainage well area shall be in accordance with the provisions of Iowa Code chapter 206 and rules adopted pursuant to chapter 206.

a. Agricultural drainage wells within a designated agricultural drainage well area. A permit shall not be granted for the diversion of water or other material into an aquifer by means of an agricultural drainage well if the drainage well is located within a designated agricultural drainage well area. All existing agricultural drainage wells within a designated agricultural drainage well area. All existing agricultural drainage wells within a designated agricultural drainage well area. All existing agricultural drainage wells within a designated agricultural drainage well area shall be closed by December 31, 1999. Closure shall be in accordance with 567 Chapter 39, Requirements for properly plugging abandoned wells, or by an alternative method approved by the department. Cisterns shall be filled in or removed and filled in with earth or other suitable material and any tile lines shall be removed for a distance of 10 feet around the wellhead or, alternatively, be replaced with nonperforated pipe. The owner of the land on which the agricultural drainage well is located shall provide the department with notice that the well has been closed in accordance with the requirements of this paragraph. Agricultural drainage wells that have been properly closed will no longer be considered an agricultural drainage well by the department.

b. Other agricultural drainage wells. Existing agricultural drainage wells that have not been authorized by permit by December 31, 1999, shall be closed by that date unless the department has granted a waiver to the closure requirements. The closure procedures shall be as specified in 52.21(3)"a."

This rule is intended to implement Iowa Code chapter 455I. [Filed 10/9/75, Notice 8/25/75-published 10/20/75, effective 11/24/75] [Filed emergency 6/24/77 published 7/13/77, effective 6/24/77] [Filed 7/5/77, Notice 6/1/77 published 7/27/77, effective 8/31/77] [Filed 5/10/78, Notice 3/8/78; Amended Notice 4/5/78 published 5/31/78, effective 7/5/78] [Filed emergency 8/4/78 published 8/23/78, effective 8/4/78] [Filed 9/14/78, Notice 7/12/78 published 10/4/78, effective 11 /8/78] [Filed 11/5/80, Notice 9/17/80 published 11/26/80, effective 12/31/80] [Filed 2/23/82, Notice 12/9/81 published 3/17/82, effective 4/21/82] [Filed 2/24/82, Notice 11/11/81 published 3/17/82, effective 4/21/82] [Filed 4/23/82, Notice 11/11/81 published 5/12/82, effective 6/16/82] [Filed emergency 6/3/83 published 6/22/83, effective 7/1/83] [Filed 11/1/85, Notice 7/31/85 published 11/20/85, effective 12/25/85] [Filed 5/2/86, Notice 1/1/86 published 5/21/86, effective 6/25/86] [Filed emergency 11/14/86 published 12/3/86, effective 12/3/86] [Filed 10/2/87, Notice 6/17/87 published 10/21/87, effective 11/25/87] [Filed 12/19/97, Notice 9/10/97 published 1/14/98, effective 2/18/98] [Filed emergency 7/24/98 published 8/12/98, effective 7/24/98] Filed 5/17/06, Notice 3/15/06 published 6/7/06, effective 7/12/06] [Filed ARC 2053C (Notice ARC 1914C, IAB 3/18/15), IAB 7/8/15, effective 8/12/15] [Filed ARC 4426C (Notice ARC 4277C, IAB 2/13/19), IAB 5/8/19, effective 6/12/19] [Filed ARC 5899C (Notice ARC 5677C, IAB 6/16/21), IAB 9/8/21, effective 10/13/21] At its meeting held February 9, 1998, the Administrative Rules Review Committee delayed 52.5 and 52.21 until the adjournment of the 1998

Session of the General Assembly.