QUESTIONNAIRE FOR FILING PROPOSED RULES AND REGULATIONS WITH THE ARKANSAS LEGISLATIVE COUNCIL AND JOINT INTERIM COMMITTEE

DI	EPARTMENT/AGENCY	Arkansas Department of Health					
DI	IVISION	Envioronmental Health					
DI	IVISION DIRECTOR	J. Terry Paul, R.S.					
CONTACT PERSON		J. Terry Paul, R.S.					
Al	DDRESS	ADH, Slot	46, 4815 West Markl	am, Little Ro	ock, AR 72205		
PF	501-661- HONE NO. 2171	FAX NO	501-661-2572	E-MAIL	jpaul@arkansas	.gov	
NA	AME OF PRESENTER A	T COMMI	TTEE MEETING	J. Terry P	aul		
PF	RESENTER E-MAIL	jpaul@arka	nsas.gov INSTRUCTIONS		- 		
В. С.	Please make copies of the Please answer each quest necessary. If you have a method of it Title of this Rule" below. Submit two (2) copies of front of two (2) copies of Donna K. Day Administrative Arkansas Leg Bureau of Leg	tion <u>comple</u> indexing you this questio the propose vis ve Rules Rev tislative Cou	tely using layman te ur rules, please give nnaire and financial ed rule and required view Section incil	the propose	d citation after ement attached Mail or delive	"Short	ED
	Room 315, St Little Rock, A	tate Capitol AR 72201				FEB 1 3 2012	
**	********	******	******	*****	******	STOPPEN OF	<u>.</u>
	What is the short title of th		R & R Onsite Waste		LEGISL	ATIVE RES	EARCH
2.	What is the subject of the	proposed rul	e?	wage Dispos	sal		
3.	Is this rule required to con	nply with a f	ederal statute, rule, or	regulation?	Yes 🗌	No 🛚	
	if yes, please provide the i	federal rule,	regulation, and/or stat	ute citation.		•	
4.	Was this rule filed under the Procedure Act?	he emergeno	y provisions of the A		Yes 🗌	No 🏻	
4.	Was this rule filed under the	he emergeno	y provisions of the A			No 🛛	
4.	Was this rule filed under the Procedure Act?	he emergend	y provisions of the A			No 🖾	

5.	Is this a new rule?	Yes 🗌	No 🖂					
	If yes, please provide a brief summary explaining the regula	ation.						
		•						
	Does this repeal an existing rule? If yes, a copy of the repealed rule is to be included with you replaced with a new rule, please provide a summary of the rule does.	Yes or completed questionnaire. I rule giving an explanation of	No ⊠ If it is being what the					
	Is this an amendment to an existing rule? If yes, please attach a mark-up showing the changes in the substantive changes. Note: The summary should explain mark-up copy should be clearly labeled "mark-up."	Yes Xexisting rule and a summary of what the amendment does	No of the ., and the					
6.	Cite the state law that grants the authority for this proposed If codified, please give Arkansas Code citation.	rule?						
<u>Ar</u>	k. Code Ann. § 14-236-101 et seq. Act 402 of 1977		· · · · · · · · · · · · · · · · · · ·					
To	What is the purpose of this proposed rule? Why is it necessor regulate onsite wastewater systems. To update the rule for oner agencies.		changes by					
8.	8. Please provide the address where this rule is publicly accessible in electronic form via the Internet as required by Arkansas Code § 25-19-108(b).							
wv	vw.healthyarkansas.com							
9.	Will a public hearing be held on this proposed rule?	Yes 🔀	No 🗌					
	If yes, please complete the following:							
	Date: 03-13-2012							
Time: 11 - 12 p.m.								
	Place: Room 2508, ADH Lab Training Room, 4815 West Markham, Little Rock, AR							
10	. When does the public comment period expire for permanent promulgation? (Must provide a date.)	03-13-2012 at 1:00 p.m.						
11	. What is the proposed effective date of this proposed rule? (Must provide a date.)	09-01-2012	_					
12	. Do you expect this rule to be controversial?	Yes 🗌	No 🖂					
If	yes, please explain.		· · · · · · · · · · · · · · · · · · ·					
	. Please give the names of persons, groups, or organizations rules? Please provide their position (for or against) if knows esignated Representatives	that you expect to comment on.	on these					
	PARTITION TENDESONAL OF							

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FINANCIAL IMPACT STATEMENT

PLEASE ANSWER ALL QUESTIONS COMPLETELY

DEPARTMENT	Arkansas Department of Health					
DIVISION	Environmental Health					
PERSON COMPLETING THIS STATEMENT J. Terry Paul, R.S.						
TELEPHONE NO.	501-661-2171	FAX NO.	501-661-2572	_EMAIL:	jpaul@arkansas.	gov
To comply with Act 1 copies with the question			te the following	Financial	Impact Statement	and file two
SHORT TITLE OF	THIS RULE	Rules and	Regulation Pe	rtaining to (Onsite Wastewate	er
1. Does this proposed	d, amended, or r	epealed rule	have a financi	al impact?	Yes 🔀	No 🗌
2. Does this proposed, amended, or repealed rule affect small businesses? Yes No I If yes, please attach a copy of the economic impact statement required to be filed with the Arkansas Economic Development Commission under Arkansas Code § 25-15-301 et seq. Attached						
3. If you believe that prohibited, please		nt of a financ	cial impact state	ement is so	speculative as to	be cost
 If the purpose of this rule is to implement a federal rule or regulation, please give the incremental cost for implementing the rule. Please indicate if the cost provided is the cost of the program. Current Fiscal Year Next Fiscal Year						
General Revenue Federal Funds	· .	<u> </u>		eneral Reve ederal Fund		
Cash Funds				ash Funds		
Special Revenue				pecial Reve	nue	
Other (Identify)				ther (Identi		
Total 0			T	otal	0	
5. What is the total estrepealed rule? Ide Current Fiscal Year \$ 0	stimated cost by ntify the party s	fiscal year ubject to the	proposed rule	oject to the pand explain ext Fiscal V	how they are aff	ed, or Tected.
6. What is the total es			to the agency to	implement	t this rule? Is this	the cost of
the program or gra	nt? Please expl	ain.	-		£7	
Current Fiscal Year				ext Fiscal	<u>y ear</u>	
\$ _0			\$	0		

ECONOMIC IMPACT STATEMENT OF PROPOSED RULES OR REGULATIONS

EO 05-04: Regulatory Flexibility

Department Arkansas Department of Health	Division Environmental Health	
Contact Person J.Terry Paul	Date 01/31/2012	
Contact Phone 501-661-2171	Contact Email jpaul@arkansas.gov	
Title or Subject Rules and Regulations Pertaining to	Onsite Wastewater	

Benefits of the Proposed Rule or Regulation

1. Explain the need for the proposed change(s). Did any complaints motivate you to pursue regulatory action? If so, please explain the nature of such complaints.

Specific changes to Section 9.9.10.2 and 9.9.10.2 requires an effluent filter to wastewater systems with reduced orifice dispersal methods. The purpose of the effluent filter is to prevent large solids from exiting wastewater treatment tanks and clogging the small orifices. Yes, complaints indicate without an effluent filter the systems do not continue to perform as designed. It is also a requirement from the manufactures of other system components (i.e. hydro-splitters or manifolds).

- 2. What are the top three benefits of the proposed rule or regulation? Updates the current regulation to reflect changes in new ADEQ requirements, clarifies language, and will help system performance.
- 3. What, in your estimation, would be the consequence of taking no action, thereby maintaining the status quo? Without this change a duplication of efforts and requirements by two agencies would add costs to the homeowner for the same service.
- 4. Describe market-based alternatives or voluntary standards that were considered in place of the proposed regulation and state the reason(s) for not selecting those alternatives. Effluent filters are included as a Best Management Practice.

Impact of Proposed Rule or Regulation

- Estimate the cost to state government of collecting information, completing paperwork, filing, recordkeeping, auditing and inspecting associated with this new rule or regulation.
 None
- What types of small businesses will be required to comply with the proposed rule or regulation? Please estimate the number of small businesses affected.
 Designated Representatives (134)
- 7. Does the proposed regulation create barriers to entry? If so, please describe those barriers and why those barriers are necessary.

No

- 8. Explain the additional requirements with which small business owners will have to comply and estimate the costs associated with compliance.
- No additional requirements are needed and the cost of an effluent filter can range from \$40.00 (residential) to \$140.00 (commercial).
- State whether the proposed regulation contains different requirements for different sized entities, and explain why this is, or is not, necessary.
 No
- 10. Describe your understanding of the ability of small business owners to implement changes required by the proposed regulation. There should be little or no cost to small business owners because of this regulation update.
- 11. How does this rule or regulation compare to similar rules and regulations in other states or the federal government? There are states that exceed these requirements for effluent filters and other changes listed. Arizona. North Carolina and Michigan require all tanks to have effluent filters.

12. Provide a summary of the input your agency has received from small business or small business advocates about the proposed rule or regulation.

We have received comments from concerned include effluent filters in their designs and would appreciate a rule to enforce In fact, a Designative Representative recently stated he would not design another Low Pressure Distribution System until we required effluent filters.

Onsite Wastewater Summary of Changes, January 2012

"Maintenance and Monitoring" have been removed from the document. The corrected version should read, "monitoring" of the systems. This correction is reflected multiple times throughout the document.

For the purpose of consistency, multiple corrections have been made in the document when referring to the "local health unit".

For the purpose of consistency, multiple corrections have been made to capitalize the " \underline{D} " and " \underline{R} " in Designated Representative throughout the document.

Table of Content numbering has been altered.

5.8.2.1. It shall be the duty of the holder of the Permit for Construction or the installer to notify the authorized agent or Designated Representative, when the installation is ready for inspection. It shall be the duty of the owner or occupant of the property to give the Department, its authorized agent or Designated Representative, free access to the property at reasonable times for the purpose of making the installation inspection. Within five (5) days, the installer shall certify submit the required documentation to the local county health unit that the system has been installed pursuant to the approved permit.

5.8.2.3 In the event an inspection is not made 2 working days from the date of notification to the Department of Health; its authorized agent or designated representative, that the installation is completed and ready for inspection, elevation shots will be recorded the permit and the system shall be deemed approved.

5.11.4 Sizing based on Percolation Test Data

- 5.11.4.1 A minimum of one soil pit in both the primary absorption and secondary absorption area is required. Soil pit information will include information of depth to rock, impermeable soil layers, and estimated depths to seasonal water tables.
- 5.11.4.2 If the soil is considered acceptable based on the information above, a minimum of one percolation hole in both the primary and secondary absorption areas is required.
- 5.11.4.3 Percolation rates used to size the primary and secondary site must be given.
- 5.11.4.4 Lots sized using percolation test data must not be smaller than that required by seasonal water table loading rates.
- -5.11.4.5 The corners of both the proposed primary and secondary absorption areas must be sized and flagged on each lot.
- 6.2.5. All facilities used for the collection, treatment, and renovation of wastewater must be at least 50 feet from any pond on the same property and 100 feet from any pond on adjacent properties. A minimum separation of 100 feet from any pond on adjacent properties, if in the pond watershed. In no case shall the minimum separation distance from any pond be less than fifty feet.

- 6.2.10. All facilities used for the collection, treatment, and renovation of wastewater must be at least 100 feet from any sinkhole.
- 8.8.3 Low hydraulic conductivity. Included are all soil horizons which have platy structure, or (clearly) fragipan horizons or horizons which have been compacted by the human activities, especially vehicle traffic and tillage operations. Also included are horizons with the following particle size classes: (No loading rates are available on Low Hydraulic conductivity soils.)
- 9.2 Many different designs may be used in laying out absorption trenches. The choice may depend on the size and shape of the available absorption area, the area required, and the topography of the absorption area. In all gravity flow designs, the septic tank flow line must be at or above the ground elevation of the highest trench. In all designs requiring five hundred (500) linear feet or more of absorption trench, mechanical dosing is <u>recommended not</u> required.
- 9.7.1 Serial distribution may be used when maximum storage can be achieved for all lines. The overflow point of the tee <u>or hillside box</u> must be at the ground level of the line served. However, when maximum storage cannot be achieved, Appendix G (Loss Storage Formula) must be used for sizing the system.
- 9.8.9 The fill material used must be a uniform loamy soil with maximum clay content of 27% and maximum sand content of 60%. The depth of fill above the original ground surface is measured after settling. Loamy soils can be expected to settle 25%.
- 9.9.8 Pre-cast dosing tanks shall meet the same construction and testing requirements for pre-cast septic tanks outlined in Section 11.6 of this regulation.
- 9.9.10.2 A filtered pump vault approved by the Department for use in septic tanks shall be incorporated into all systems designed to be dosed from a septic tank. All reduced orifice pressure manifolds will require an approved effluent filter.
- 9.10.2 Orifices may range in size from 0.125 (1/8) inch to 0.1875 (3/16) inch. All orifices shall be centered in the pipe, pointed up, and shielded. In situations where the discharge assembly is located at a lower elevation than the pump, 25% of the orifice should be turned down to allow the system to drain between doses. For soils with high hydraulic conductivity, the orifice spacing shall not exceed 24 inches. For soils with moderate hydraulic conductivity, the orifice spacing shall not exceed 48 inches. Orifices shall not be installed within twelve inches of the manifold pipe. All LPD applications require an approved effluent filter.
- 10.5.4 All <u>sSurface</u> discharging systems are subject to National Pollutant Discharge Elimination System (NPDES) Permit requirements.
- 10.5.5.1 All sSurface discharging systems must be adequately disinfected prior to discharge.
- 10.5.7 Onsite Discharging Systems Requirements
- 10.5.7.1 Some sites may be adequate in size to retain all effluent discharged to the surface onsite. Sites considered for onsite discharge a surface discharging system shall meet the following minimum requirements in addition to setback requirements outlined in Section 6.2 of this regulation.

10.5.7.2 The lot size for all sites proposed for onsite discharge a surface discharging system shall be 3 acres or greater.

10.5.8 Offsite Discharging Systems

10.5.8.1 Offsite discharging systems shall not be approved for new construction.

10.5.8.2 An N.P.D.E.S. Permit is required from the Arkansas Department of Environmental Quality for all Offsite Discharging systems.

10.6.4 The minimum capacity of any holding tank shall be ten times the estimated daily usage as outlined in Appendix C of this regulation or 1000 gallons, whichever is greater. When two or more tanks are required to meet the holding capacity, detailed plans shall be submitted.

10.6.7 Proof of a notarized contract with a licensed septic tank cleaner shall be required before a permit to operate is issued. submitted with the application for construction. The contract shall provide for cleaning within 24 hours of notification, and shall state where the wastewater will be deposited.

11.6.8 Service Risers. Access shall be provided over both the inlet and outlet tees or other devices, and to each tank compartment by means of a service riser. All maintenance ports must be sealed and watertight. Where the top of the tank is located below the finished grade, service risers shall extend to or above the finished grade. The extension can be made using risers of approved material and fitted with tight covers and secured to prevent unauthorized access. Proper attention must be given to the accident hazard involved when maintenance ports are extended close to the ground surface. Service risers shall be a minimum of 12 inches in diameter. Service risers providing access to a pump compartment or dosing tank shall be a minimum of 18 inches in diameter. Risers shall be installed by the manufacturer.

11.6.8.1Service risers shall be available through the septic tank manufacturer. Risers may shall be installed on the tank by the manufacturer or set in place and sealed in a sanitary manner by the installer.

13 Onsite Maintenance and Monitoring Program

Owners of Onsite and Offsite Surface-Discharging Systems, which include alternate systems discharging into reduced absorption areas or holding tanks or wastewater systems requiring secondary treatment that discharge into reduced absorption areas are required to maintain a Maintenance and-Monitoring Contract with a Maintenance Monitoring Person registered by the Department for the life of the system. A Maintenance Monitoring Person shall be authorized by the manufacturer in order to provide a contract for the maintenance and monitoring of any proprietary system. No homeowner shall be allowed to monitor their own system.

13.2 All-Maintenance and Monitoring Contracts shall include the following minimum terms or services:

Frequency of system assessments

Assessment of system components

Assessment of discharge route for surface discharge systems

Measurement of free chlorine residual, if applicable

Assessment of proper servicing of grease interceptor, if applicable

Reporting to the Arkansas Department of Health

13.4 Free chlorine residual will be measured and recorded from the outlet end of the contact chamber. If the free chlorine residual is less than 0.1 parts per million, collection of a fecal coliform sample is required within acceptable limits, as specified the National Pollutant Discharge Elimination System (NPDES) discharge parameters, before returning to a routine schedule.

13.5 Where ozone, ultraviolet, or other disinfection methods that do not produce a chlorine residual are incorporated in the system, annual fecal analysis of the discharged effluent shall be required.

This will certify that the foregoing Rules and Regulations Pertaining to Onsite Wastewater Systems, Designated Representatives and Installers were adopted by the Arkansas Board of Health at a regular executive session of said Board held in Little Rock, Arkansas, on the day of 2011.

APPENDIX B

Residential Strength Wastewater as the primary sewage effluent from a septic tank must not exceed the following parameters: Five-Day Biochemical Oxygen Demand (BOD₅) of 300 mg/L; Total Suspended Solids (TSS) of 200 300 mg/L; and Fats, Oil and Grease of 25 mg/L. Other contaminants may also be present in the wastewater; however, they shall not exceed the concentrations or quantities normally found in residential sewage.

APPENDIX F

Requirements for Submission of an Onsite Wastewater System Permit Application

17. The flow line elevation of the building sewer stub-out must be indicated on the plans. The flow line elevations of all tank inlets and outlets must be provided. The flow line elevation of the distribution box/ or other device must be provided. The elevation of each trench bottom must be provided.

DR RESPONSIBILITIES IN APPLICATION SUBMITTAL

The Designated Representative (DR) submits a completed Individual Sewage Disposal System Permit Application (EHP-19) along with detailed plans, specifications, and required fees. This application package is submitted to the appropriate Environmental Health Specialist and/or local health unit.

These items shall be on or provided with the plot drawing.

- 11. A bench-mark must be designated and elevation shots or rod readings must be shown for all parts of the sewage system. Ground elevation and flow-line elevations must be provided for all system components.

 This includes the stub-out and the beginning, middle and end of each absorption trench in the primary and secondary disposal sites
- 14. The location of <u>all</u> percolation test holes on the property must be shown.

 All percolation test holes used in determining the absorption field

 size must be within 10 feet of primary disposal field location.
- 16. The flow line elevation of the building sewer stub-out must be indicated on the plans. The flow line elevations of septic tank inlets and outlets must be provided. The flow line elevation of the distribution box or other device must be provided. The elevation of each trench bottom must be provided.

Designated Representative Site Responsibilities

2. The beginning, middle and end of all laterals shall be flagged in both the primary and secondary site. Exception: The secondary site need not be flagged shall have only the field corners flagged on grade provided the lot is 1.5 acres or larger in size; the slope is less than 10 percent; or the secondary site is clearly acceptable provided the lot is 1.5 acres or larger in size.

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