

Wastewater Advisory Council Meeting Minutes  
January 19, 2016

In Attendance: Paulette Akers (DEP/DCA), Angela Billings (DPH), Ed Fortner (BMU), Mike Gardner (BGMU), Derek Guthrie (ACEC-Ky), Gary Larimore (KRWA), Valerie Lucas (Ky-TN WEA), Charlie Martin (LFUCG), Donna McNeil (KRWA), Brad Montgomery (DRW), Adam Scott (KIA), Mark Sneve (Strand), Larry Taylor (DEP/DCA)

Division of Water: Peter Goodmann, Director; Tom Gabbard, Assistant Director; Sara Beard, Jory Becker, Carole Catalfo, Sarah Gaddis, Tammi Hudson, Nick Lester

The meeting came to order at 10:10 a.m.

Welcome and Introductions

Peter Goodmann made welcoming remarks. Members introduced themselves and agreed to modify the agenda as needed to facilitate the meeting.

November 2015 Meeting Minutes

The meeting minutes were approved by consensus.

Announcements

Paulette Akers stated that the Division of Compliance Assistance is conducting two environmental compliance trainings on March 2, 2016 in Frankfort and March 17, 2016 in Princeton. Details will be provided to the group by email.

Review Agenda

Peter Goodmann stated that he expects the Nutrient Reduction Strategy to go to public notice within the next few weeks.

Jessica Wilhoite will present information about Operators at the March 2016 meeting.

Subcommittee Updates

Peter Goodmann suggested that Wet Weather and Water Quality Standards (WQS) workgroups might be appropriate for the WWAC. A workgroup can assist in drafting WQS that are appropriate for wet weather events. He explained that wet weather WQS are an ongoing Triennial Review issue that has been delayed due to the need for more study and developing an approach that is suitable for Kentucky.

Additionally, Peter Goodmann suggested that the WWAC consider forming a Nutrients workgroup or subcommittee, and a Compliance workgroup or subcommittee. He also suggested combining the Harmful Algal Bloom (HAB) and Education Committees with the Drinking Water Advisory Council (DWAC). Valerie Lucas will work on this.

Education & Apprenticeship – Jessica Wilhoite of DCA will present information regarding Operators at the next WWAC meeting.

MS4 - Peter Goodmann gauged interest in participating in CSO/MS4 issues. He stated that he is working on the draft MS4. He stated that Abby Rains' MS4 workgroup should form the basis for the WWAC's MS4 workgroup. Charlie Martin volunteered to participate in this effort.

Small Systems – Adam Scott (KIA) reported that he met with TVA, the Corps, PSC, and the Division to address abandonment and funding issues. The KIA Board set aside \$500,000 to begin providing assistance for several plants on the verge of abandonment with priority ranked on need. Franklin and Daviess County package plants will be addressed first.

The two major issues are 1/ communities do not have the finances to become receivers, and 2/ pre-existing compliance issues.

Peter Goodmann stated that the group may want to look at state House Bill 261 (water utilities) that aims to require financial assurances for private treatment plants.

HABs – Peter Goodmann stated that this subcommittee or workgroup should combine with that of the DWAC. He explained that the HAB problems on the Ohio River seemed to arise from low turbidity rather than elevated nutrients. Information needed includes 1/ HAB procedures for drinking water systems and 2/ wastewater treatment procedures. Plaintiffs in ongoing litigation claim that HABs create trophic conditions and that permit limits are necessary.

### Water Quality Monitoring

Peter Goodmann explained that the Division is being asked to establish limits and make decisions with limited data. He requested that the WWAC consider collecting additional data on receiving waters which is needed to develop nutrient standards based on a more probabilistic standard which is more valuable to project appropriate WQS. Members indicated a willingness to assist provided that the data will be used in the decision-making process, and discussed the economics of gauge support.

Peter Goodmann suggested that members send any questions to him, and that the Division will present more information about what is being collected, what is needed and why, and open the discussion to conceptualization and transmission of data. He will contact USGS to arrange a speaker and will also present information regarding the EPA Next Generation Compliance program at the next meeting.

### Nutrients and Reasonable Potential Analysis

Peter Goodmann addressed litigation issues regarding long-term planning to avoid citizen suits and/or third parties (such as the EPA) developing a standard plan that may not be appropriate for Kentucky. The draft Reasonable Potential Analysis (RPA) worksheet for permit writers was distributed with the understanding that it is in draft form only, and not for distribution outside the WWAC. Nick Lester explained the process of Reasonable Potential Analysis (RPA), discussed the Nutrient Reduction Evaluation Plan (NERP) and technology limits vs. water quality limits.

The meeting adjourned by consensus at 11:40 a.m.

	WWC I - OIT	WWC I	WWC II	WWC III	WWC IV	WW Limited	WWT I - OIT	WWT I	WWT II	WWT III	WWT IV	Grand Total
Owen		1	1						3			5
Owsley			1					2	1			4
Pendleton		3	1					5	3			12
Perry			2				1	2	2	1		8
Pike		2	4					15	6	1		28
Powell		1	5	1				3	3			13
Pulaski		7	4	4				13	5	5	3	41
Robertson		1						1				2
Rockcastle			5			2		1	3	3		14
Rowan		1		2			1	5	5	2	3	19
Russell		1	3	5				4	2	10		25
Scott		2	3	7	4			2	8	11	5	42
Shelby			2	4	2		1	5	6	5		25
Simpson				4				4	1	2	1	12
Spencer		1	4	1					2	2		10
Taylor			1	3				1	1	1		7
Todd			3	1					4	1		9
Trigg			1				1	2	1	1		6
Trimble			1						4			5
Union				1					2	3		6
Warren			1	2	4			7	4	5	9	33
Washington			2				1	2	2	3		9
Wayne			1					6	6			13
Webster			4	2				3	7	4		20
Whitley			2	1		1		3	6			13
Wolfe			1					2	2			5
Woodford		2	2	2	1			3	6	1		17
Grand Total	1	106	338	176	63	5	9	504	380	345	159	2246

	WWC I - OIT	WWC I	WWC II	WWC III	WWC IV	WW Limited	WW I - OIT	WWT I	WWT II	WWT III	WWT IV	Grand Total
Lawrence			2					5		1	1	9
Lee			2				1	1	1			5
Leslie			1						1	1		3
Letcher			2					7	6	2		17
Lewis			4					2	2	3		11
Lincoln			3	1	2			3	3	3	2	17
Livingston			5						4	1	2	12
Logan		2	6	4	1			5	13	10		41
Lyon		2	2					6	2	3		15
Madison		3		4	7			3	6	9	8	40
Magoffin			7					1	2			10
Marion		3		8				4	1	4	1	21
Marshall		3	9					21	14	8		55
Martin		2	1					4	3	1		11
Mason			1	1				2	2	1		7
McCracken		1	3	2	1			8	10	5	3	33
McCreary			7						3	2		12
McLean		1	2	1					3	2	1	10
Mead			5					1	4	2	2	14
Menifee		1	2					4	2			9
Mercer		6	2	3				1	1	2		15
Metcalfe			1					1	2	1		5
Monroe		1	1			1		1	3			7
Montgomery		1	3	3				5	4	7	2	25
Morgan			2					2	1	2		7
Muhlenberg			10	1				5	9	5		30
Nelson		1	2	5				5	6	1	1	21
Nicholas			3					3	4	2		12
Not Yet Determined								2		2		4
Ohio		1	8	1			1	7	7	2	2	29
Oldham			4	2				9	5	2		22
Out of State		2	6	3	1			21	25	16	16	89

	WWC I - OIT	WWC I	WWC II	WWC III	WWC IV	WW Limited	WWT I - OIT	WWT I	WWT II	WWT III	WWT IV	Grand Total
Elliott			1					1		1		3
Estill			8					1	7			16
Fayette		3	1		2			4	2	9	12	33
Fleming		1	5					3	2	2		13
Floyd		2	3	5				13	6	1		30
Franklin			4	1	2			9	5	2	5	28
Fulton			4	1					2	1		8
Gallatin		1	2						2	1		6
Garrard		2	1	2	1			4	1	2		13
Grant		1	3					8	2	2	1	17
Graves			4	1	1			3	7	6	1	23
Grayson		12	5		1			6	6	8		38
Green			3						3			6
Greenup		2	9	2	2			4	7	7	1	34
Hancock			4					5	8		2	19
Hardin	1	1	5	9	5			9	7	11	14	62
Harlan			6					10	6	5		27
Harrison			2	1				4		4		11
Hart			2					2	1			5
Henderson		1		1	3			2	1	4	3	15
Henry		1	10	2				2	6	5		26
Hickman			1				1	1	1			4
Hopkins		3	6	1				6	7	6	3	32
Jackson			1		1			1	1		1	5
Jefferson		2	2	4	4			12	26	33	11	94
Jessamine		1	2	9	2			4	2	12	4	36
Johnson		1	1	4				18	1	5		30
Kenton		1	3	7	1			7	1	6	3	29
Knott			3	1		1		2	2	2		11
Knox		1	3						1	3	1	9
Larue			2	1				1	2	1		7
Laurel		3	10	4			1	7	1	6	4	36

FY15 - Active Wastewater Certifications

	WWC I - OIT	WWC I	WWC II	WWC III	WWC IV	WW Limited	WWT I - OIT	WWT I	WWT II	WWT III	WWT IV	Grand Total
Adair		1	2					1	2	1		7
Allen			2	1				1	2	1		7
Anderson			2	1				1	2	6	1	13
Ballard			3					1	6		2	12
Barren				6	1			5	2	7	3	24
Bath			2	1				2	3			8
Bell		1	2	4	1			7	5	7	2	29
Boone			1	7	3			5	6	4	1	27
Bourbon			2	2	1			5	1	6	1	18
Boyd		1	6	7	2			15	5	8	7	51
Boyle					1			2	2	3	6	12
Bracken			1					1	1			3
Breathitt			1						3			4
Breckinridge		2	2	1				6	4	5		20
Bullitt			3	1	1			6	2	11		24
Butler			2					2	5			9
Caldwell			1	2				4	2	2		11
Calloway		1		1				7		2	2	13
Campbell		1		1				5	5		1	13
Carlisle		3	1						3			7
Carroll		1	6					4	13	1	2	27
Carter			5					8	2	5	2	22
Casey								4	4			9
Christian				1				4	3	5		13
Clark			3	2	3			7	2	2	3	22
Clay			3					6	1	4		14
Clinton			3					2	3	2		10
Crittenden		1	1						2	2		6
Cumberland		1	3					5	3			12
Davies		1	4	1	2			10	11	6	10	45
Edmonson		1	1	2				1	2			7




	Bottled Water	DWD I	DWD II	DWD III	DWD IV	DWT IAD OIT	DWT IAD	DWT IIA	DWT IIIA	DWT IVA	DWT IBD	DWT IIBD	DWT IIIB	DWT IVB	Grand Total
Lawrence			3		1		1			6		1			12
Lee			2						4						6
Leslie			5						4	1					10
Lecher			7	2				3	6	2					20
Lewis			4	7				1		1		2	5		20
Lincoln		1	8	2	3			1	3	3					21
Livingston			6		2			1	2	1		1			13
Logan		6	8	4				2		3					23
Lyon		1	4	3					6	2	2				18
Madison			9	4	10		1		1	16					41
Magoffin		1	8	3				1	6	1			2	1	23
Marion			3	7	1				3	2					16
Marshall			13	8	1		3	1	4	4	2		7		43
Martin		4	1	1				1		2					9
Mason		1	7	1	1				1	2		1	4	1	19
McCracken			8	10	11			15	4	11	1		1		61
McCreary				6	2			1	3	4					16
McLean		3	8	1	1			1	3	3					20
Meade		4	6	1	1			2	1			3	4		22
Menfee			4	3				1	1	3					12
Mercer		6	10	2				2	4	4					28
Metcalfe			4	1											5
Monroe		1	7	1				1	5	1					16
Montgomery			6	6	7				3	5					27
Morgan			2	4			1	1	3	1					12
Muhlenberg		1	17	7			1		5	7	1				39
Nelson			4	5	1				1	6		1			18
Nicholas			6		1			2	2	1					12
Not Yet Determined			2	2	2			1		4		2			13
Ohio		2	5	5	2		2		5	8			2		31
Oldham			1	5	1					1			1	2	11
Out of State	1	1	3	9	10			2	5	16	2	2			51




	Bottled Water	DWD I	DWD II	DWD III	DWD IV	DWT IAD OIT	DWT IAD	DWT IIA	DWT IIAA	DWT IVA	DWT IBD	DWT IIBD	DWT IIB	DWT IVB	Grand Total
Elliott			1	1					1	1			1		6
Estill		1	11						8	1					21
Fayette	1	1		2	17					22					42
Fleming			12	3			1	2	7	2			1		28
Floyd		1	8	11	2			2	7	5		1			37
Franklin			3	1	21					6					31
Fulton			1						2			1	1		5
Gallatin			6									2	2		10
Garrard			1	6	1				3	5					16
Grant		3	4	6			3	2	3						21
Graves			2	3	3		1	1	4	1		5	2	2	24
Grayson		1	12	3	4			2	5	8		1			36
Green			3	6			1			6					16
Greenup		1	13	4	1			2	5	5		3	2		36
Hancock			4	2	1		1	3	4	4		4			23
Hardin		3	5	28	24				3	34		3			100
Harlan		3	10	4			5	3	8	3		1			41
Harrison		1	7	2	4				1	5					20
Hart		1	3	5						2					11
Henderson			2	7	6			1		12		1			29
Henry			14	9					3	6				1	34
Hickman					1					1		1			4
Hopkins		1	17	11		1	1	1	4	7	1	2	1		47
Jackson			2	7				3	7	2		1			22
Jefferson		1	2	2	19					33				1	58
Jessamine	2	1	7	7	6			1	1	13					38
Johnson				7	4				1	7					19
Kenton		1		1	16				1	8					27
Knott		1	1	3				2	2	1	2		1		11
Knox		1	2	5	2			1	5	8	1				25
Larue		1	4						1	6	1				13
Laurel			2	21	12				3	15					53





### Certification & Licensing Branch: FY15 Operator Overview



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### License Administration

During FY15, the program:

- ◆ Received 884 applications from operators seeking to take a certification exam
- ◆ Administered 740 exams
- ◆ Issued 513 new licenses
- ◆ 75% combined DW & WW pass rate



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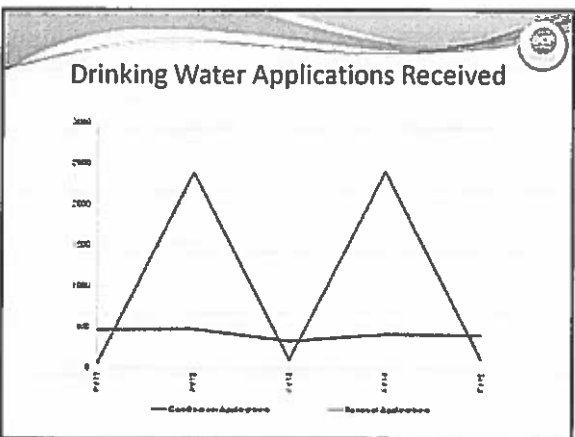
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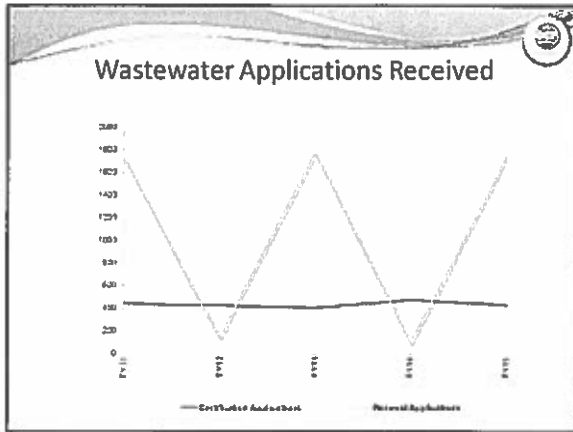
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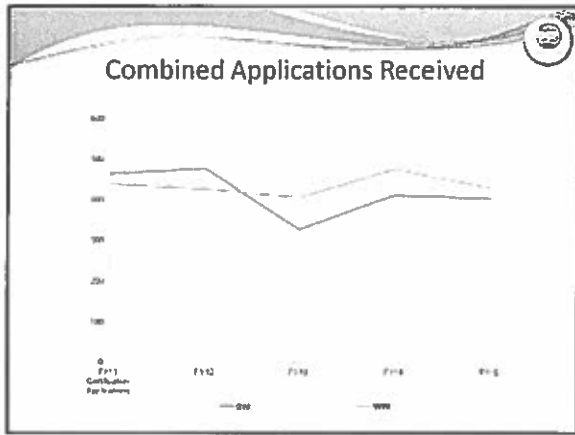
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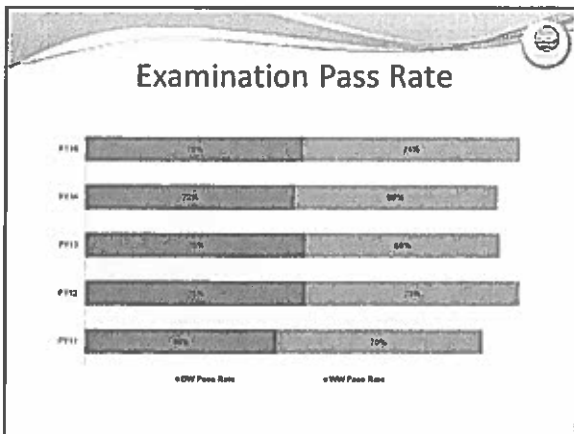
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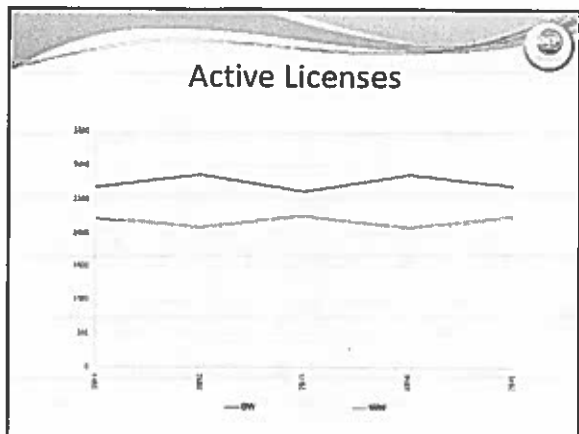
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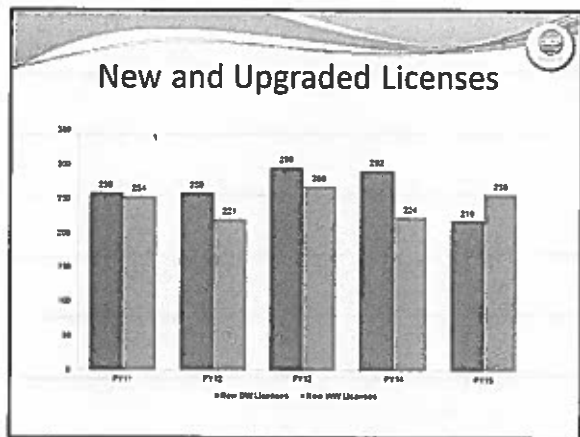
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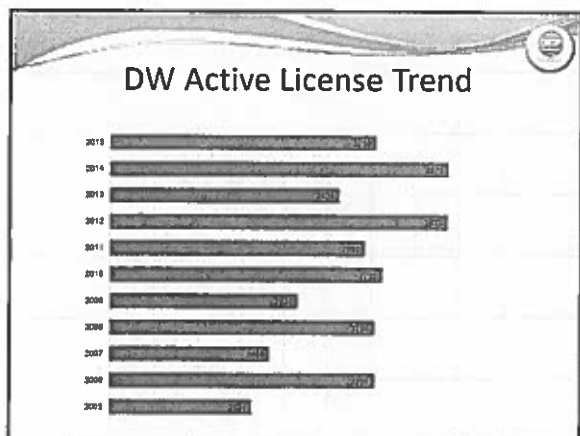
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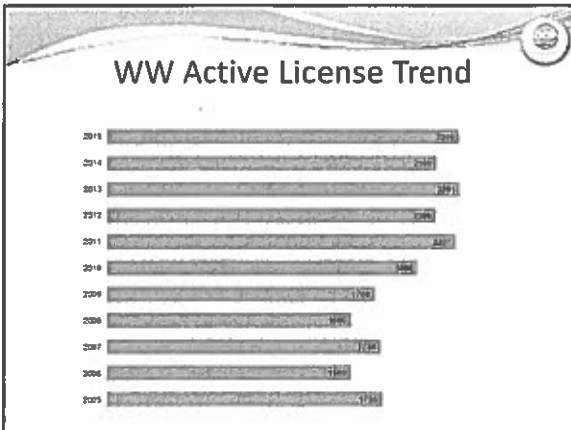
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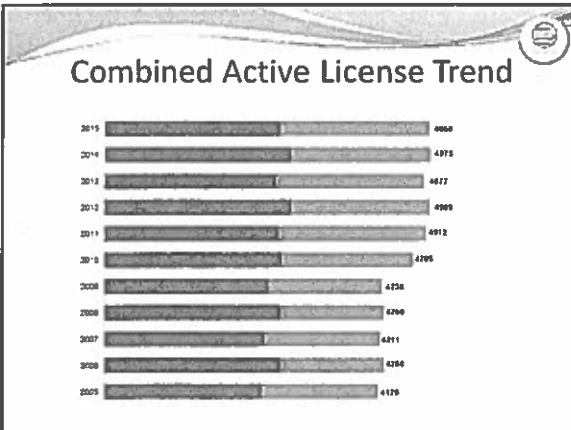
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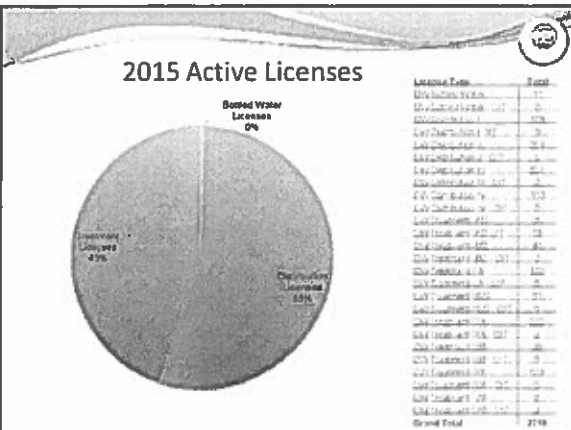
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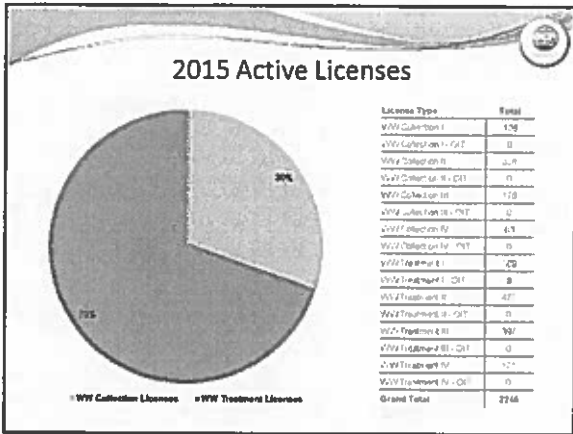
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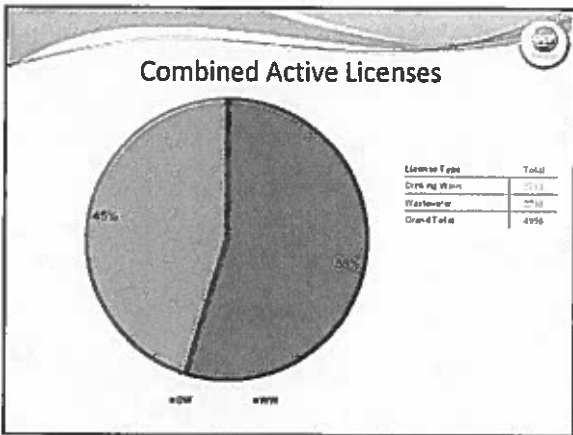
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# NUTRIENT REASONABLE POTENTIAL ANALYSIS WORKSHEET

SECTION 1					
AI NO.		KPDES NO.		Outfall No.	
Facility Name				County	
Latitude		Longitude			
Design Flow (MGD)		Average Flow (MGD)			
Phosphorus Long Term Average Discharge		mg/l		lbs/day	
Receiving Water Name		7Q10		cfs	

SECTION 2			
No	Scenario	Yes	No
1	Is there an EPA approved nutrient TMDL that assigns numeric total phosphorus, total nitrogen and/or nitrate effluent limits for this facility? <b>If YES, STOP. Incorporate these limits into the KPDES permit for the facility.</b>	<input type="checkbox"/>	<input type="checkbox"/>
2	Were numeric total phosphorus, total nitrogen and/or nitrate effluent limits included on a DOW-approved construction permit for this facility? <b>If YES, STOP. Incorporate these limits into the KPDES permit for the facility.</b>	<input type="checkbox"/>	<input type="checkbox"/>
3	Is the facility subject to one or more of the following effluent limitations guidelines (ELGs): (1) 418 Subpart A – Phosphate Fertilizers, (2) 422 – Phosphate Manufacturing, (3) 426 Subpart E – Float Glass, (4) 426 Subpart G – Automotive Glass Laminating, or (5) 432 – Meat Processing? <b>If YES, STOP. The facility has reasonable potential.</b>	<input type="checkbox"/>	<input type="checkbox"/>
4	Did the prior KPDES permit for this facility contain numeric total phosphorus and/or total nitrogen effluent limits that were not assigned by an EPA approved TMDL or included in a DOW-approved construction permit? <b>If YES, DO NOT incorporate these limits into the KPDES permit, if the facility treats and disposes of sewage. Proceed to Section 3 to determine if reasonable potential exists.</b>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION 3					
Discharge Type	Points	Average Flow/7Q10 (%)	Points	Phosphorus Discharged (P) (lbs/day)	Points
Type I	<input type="checkbox"/>	% < 10	<input type="checkbox"/>	P < 1.0	<input type="checkbox"/> 0
Type II	<input type="checkbox"/>	10 ≤ % < 50	<input type="checkbox"/>	1.0 ≤ P < 10.0	<input type="checkbox"/> 20
Type III	<input type="checkbox"/>	50 ≤ % < 100	<input type="checkbox"/>	10.0 ≤ P < 50.0	<input type="checkbox"/> 30
Type IV	<input type="checkbox"/>	% ≥ 100	<input type="checkbox"/>	P ≥ 50	<input type="checkbox"/> 40
<b>Total Points</b>					

SECTION 4				
No	Other Factors	Yes	No	Multiplier
1	Facility discharges directly to a nutrient impaired stream, lake, or reservoir	<input type="checkbox"/>	<input type="checkbox"/>	1.4
2	Facility discharges indirectly to a nutrient impaired stream, lake, or reservoir (<10 miles)	<input type="checkbox"/>	<input type="checkbox"/>	1.2
3	Facility discharges directly to a T/E OSRW	<input type="checkbox"/>	<input type="checkbox"/>	1.4
<b>Total Multiplier</b>				

SECTION 5	
Section 3 Total Points	
Section 4 Total Multiplier	
Reasonable Potential Score (Point Product of Section 3 and Section 4)	
If total score is equal to or greater than 90 points, reasonable potential exists.	
If total score is equal to or greater than 70 points but less than 90 points, the rating is inconclusive.	
If the total score is less than 70 points, reasonable potential does not exist.	

**SECTION 6**

**If reasonable potential exists:** The permit shall include effluent limits for Whole Effluent Toxicity (WET) and influent and effluent monitoring for Total Phosphorus, Dissolved Orthophosphate, Total Nitrate Nitrogen, Total Nitrite Nitrogen, and Total Kjeldahl Nitrogen.

**If inconclusive:** The permit shall include influent and effluent monitoring for Total Phosphorus, Dissolved Orthophosphate, Total Nitrate Nitrogen, Total Nitrite Nitrogen, and Total Kjeldahl Nitrogen.

**If reasonable potential does not exist:** No additional permit requirements, unless the facility is a POTW with a design capacity of at least 0.1 MGD. In such cases, the permit shall include influent and effluent monitoring for Total Phosphorus, Dissolved Orthophosphate, Total Nitrate Nitrogen, Total Nitrite Nitrogen, and Total Kjeldahl Nitrogen.

KACO Roger Reckenwald\*  
 ACEC Derek Guthrie\*  
 ACEC Brad Montgomery  
 ACEC Mark Sneve  
 KIA Adam Scott\*  
 KLC Rusty Cress\*  
 KMUA Annette Dupont-Ewing\*  
 KTWEA Valerie Lucas\*  
 KWWOA Alan Todd\*  
 KWWOA Lisa Dethredge  
 KRWA Gary Larimore\*  
 KRWA Donna McNeil  
 System - Large Brian Bingham\*  
 System - Large Mark Wurschmidt\*  
 System - Large Charlie Martin\*  
 System - Large Jennifer Carey  
 System - Medium Mike Gardner\*  
 System - Small Ed Fortner\*  
 System - Small David Peterson\*  
 \* Denotes Primary Representative for Organization

**Invitees from State Government**

Peter Goodmann, *Director*  
 Paulette Akers  
 Carole Catalfo, Internal Policy Analyst III  
 Jory Becker, Water Infrastructure Branch Manager  
 Sarah Gaddis, Compliance & Technical Assistance Branch Manager  
 Sara Beard, Surface Water Permits Branch Manager  
 Whitley Brown, Administrative Specialist III  
 Angela Billings  
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 Valerie Lucas  
 Rob Blair  
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 ACEC  
 SD 1  
 LFUCG  
 BGMU  
 KY-TN WEA  
 KDOW

**Education/Apprenticeship**

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 Valerie Lucas  
 Annette Dupont-Ewing  
 Donna McNeil  
 Lisa Dethredge  
 Tom Gabbard  
 KDCA  
 KY-TN WEA  
 KMUA  
 KY Rural Water  
 KWWOA  
 KDOW

**Small Systems Sub-Committee**

Gary Larimore, Chair  
 Adam Scott  
 Jory Becker  
 Roger Reckenwald  
 Annette Dupont Ewing  
 PSC Rep - TBD  
 ACEC Rep. - TBD  
 KY Rural Water  
 KIA  
 KDOW  
 KACO  
 KMUA  
 PSC  
 ACEC

**Compliance Sub-Committee**

KDOW Rep, TBD, Chair  
 Mike Kroger  
 Shawn Hockensen  
 Sarah Gaddis  
 Dan French  
 Greg Stacey  
 Kim Klotter  
 BGMU (TBD)  
 KDOW  
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WASTEWATER ADVISORY COMMITTEE

January 19, 2016

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**Waste Water Advisory Council  
January 2016 Meeting Agenda (Tentative)  
January 19, 2016**

- **Introductions**
- **Meeting minutes from November 2015**
- **Announcements**
- **Review Agenda**
- **Sub-committees updates**
  - **Education & Apprenticeship**
  - **MS4**
  - **Small Systems**
- **Water Quality Monitoring**
- **Nutrients (Peter Goodmann)**
  - **Distribution of draft RPA – not for re-distribution**
- **Next meeting (March 1 at 1:00 p.m.)**