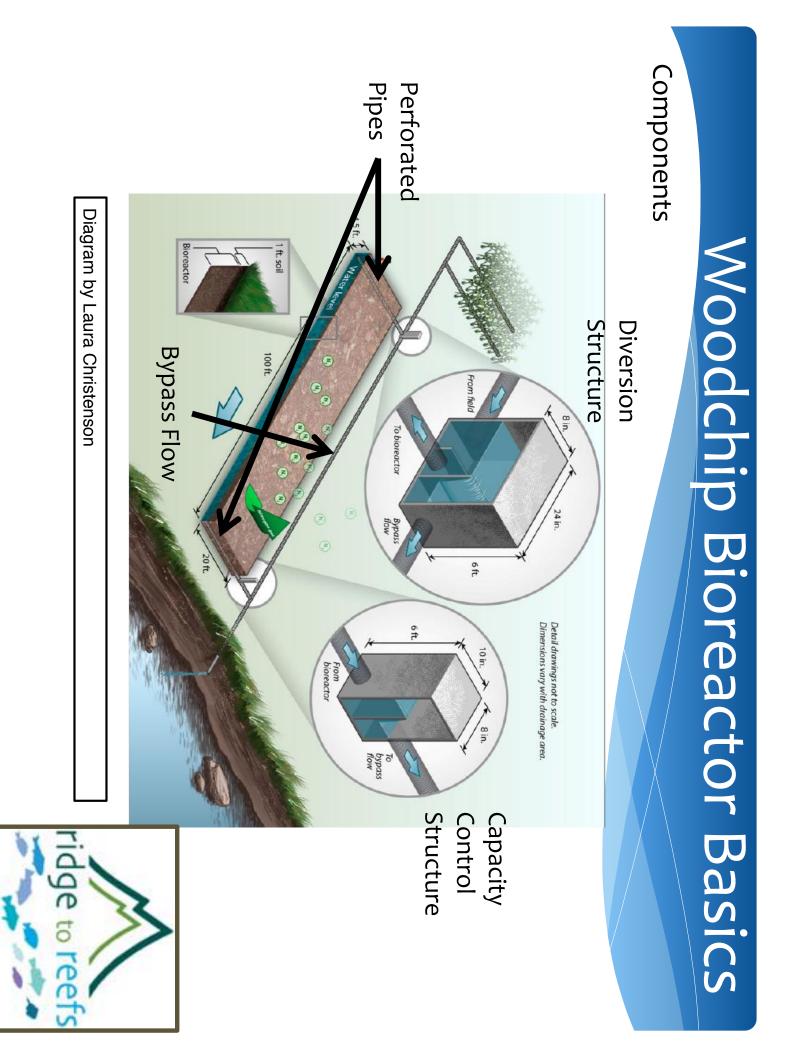


## Woodchip Bioreactors



- Passive technology to convert Nitrate to Di-
- nitrogen gas
- Edge of field
- Gravity fed
- Low maintenance
- Highly efficient









- Ridge to Reefs has installed six Bioreactors on the Eastern Shore of Maryland
  We have tied them in to different types of water sources
- ✓ Drain tiles
- Drag-line ditches
- \* Ponds

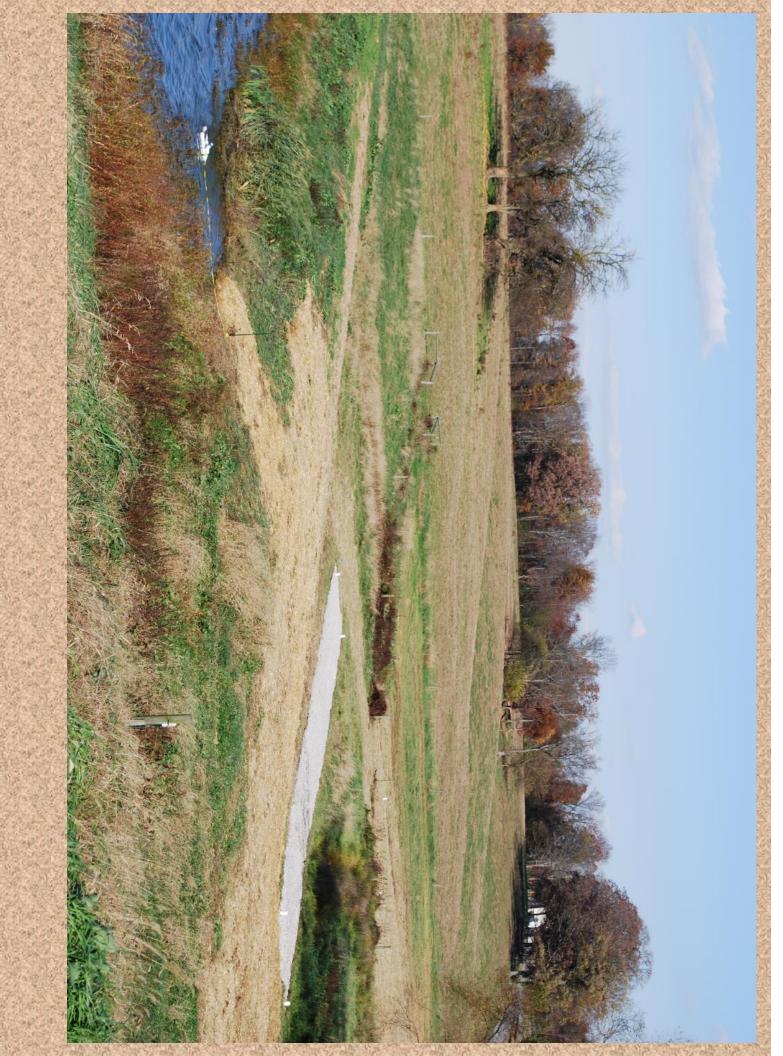








- ✓ Ridge to Reefs has installed six Bioreactors on the Eastern Shore of Maryland
  ✓ We have tied them in to different types of
- water sources
- Drain tiles
- Drag-line ditches
- ✓ Ponds



## RTR staff have installed 6 bioreactors

Dick Edwards-Oakland View Farm Bill Mason- Mason's Heritage Farm Dean Vorhees, Burrsville Hutchison Brothers-Franklinville Farm, Hutchison Brothers- Bradbury Farm,

Ed Fry, Fair Hill Farm



Dick and Jan Edwards, Scott and Jill Youse







Bobby Hutchison



Ed and Marian Fry

「「「「「「「「「」」」」」	4/22/15	4/16/15	4/10/15	3/31/15	3/25/15	3/17/15	3/10/15	2/25/15	2/12/15	2/4/15	1/29/15	1/22/15	1/15/15	12/11/14	11/25/14	11/21/14	11/7/14	10/23/14	10/16/14	10/8/14	9/23/14	9/17/14	9/11/14	9/5/14	8/28/14	8/20/14	Date	Oakland \
「「「「「「「「」」」」」」	0.08	1.34	0.10	3.08	5.22	10.64	2.46	2.34	4.89	10.10	15.10	8.20	4.30	5.80	18.20	1.30	3.80	0.90	5.30	5.10		19.50	48.70	14.40	18.20	16.20	Box 1	View Farm,
	0.02	0.01	0.01	0.06	0.15	0.58	0.31	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Box 2	Ridgely, N
	81%	%66	90%	%86	97%	95%	88%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	<b>Reduction %</b>	MD NO3 (mg/l)

## **Bioreactor Data**





	100%	0.00	10.20	4/22/15
	100%	0.00	9.30	4/16/15
	100%	0.00	9.00	4/10/15
	100%	0.00	9.40	3/31/15
	100%	0.00	9.50	3/25/15
	100%	0.00	8.00	3/17/15
	96%	0.20	5.20	3/10/15
	100%	0.00	9.10	2/25/15
	%86	0.20	8.80	2/12/15
	100%	0.00	9.00	2/4/15
	100%	0.00	10.30	1/29/15
	100%	0.00	10.40	1/22/15
	100%	0.00	9.50	1/15/15
	100%	0.00	6.40	1/9/15
	100%	0.00	8.40	1/2/15
	100%	0.00	11.10	12/23/14
	100%	0.00	7.20	12/19/14
	100%	0.00	11.00	12/11/14
	100%	0.00	7.60	12/4/14
	100%	0.00	26.20	11/25/14
	100%	0.00	26.90	11/21/14
	100%	0.00	6.10	10/23/14
	100%	0.00	14.30	10/16/14
	100%	0.00	5.80	8/28/14
	100%	0.00	7.80	8/20/14
	100%	0.00	00.6	8/14/14
	100%	0.00	28.56	8/8/14
	Reduction	Box 2	Box 1	Date
MD NO3 (mg/l)		Farm, Ruthsburg,	Heritage Fa	Mason's H

## **Bioreactor Data**





