

Jason Henson
C & H Hog Farms, Inc.
HC 72 Box 10
Mount Judea, AR 72655

February 26, 2015

Re: 2014 Annual Report
AFIN: 51-00164, Permit No.: ARG590001

Mr. John Bailey
Permit Branch Manager
Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Dear Mr. Bailey:

C & H Hog Farms, Inc. is in receipt of the Department's response to our 2014 Annual Report.

Enclosed are the requested aggregate Phosphorus Index spreadsheets for fields which received multiple applications over different seasons in the 2014 calendar year.

Please do not hesitate to contact me if you have any questions or concerns regarding this request.

Respectfully,

Jason Henson

Jason Henson
C & H Hog Farms, Inc.

Enclosures

Comments:

Arkansas Nutrient Management Planner with 2009 PI (ver 6/25/2013)

Planner:		Date:	2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 1-11		

This worksheet is intended to assist in the writing of Nutrient Management Plans for the application of manure to pasture and hay land. To do this, the worksheet estimates the litter production for the farm, estimates the P Index risk value for the defined conditions of each field, assists with the allocation of nutrients to the various receiving fields, and estimates the amount of litter available for off farm use. This worksheet is the result of an effort to develop a reliable training/planning tool faithful to the 2009 Arkansas P Index developed by a multi-agency effort. However, no guarantees are made, and any observed problems or suggestions for improvement should be directed to Karl VanDevender at kvan@uaex.edu.

County Information

Farm county	Newton
R	270
10-Yr EI	110
Kf adjusted for frost?	Yes

Nutrient Source and Description Information

Manure Source	Source Type	Amount Available		N Concentration		P2O5 Concentration		K2O Concentration		Water Extractable P		Alum Used?
S WSP #1	Liquid Manure	2089	1000 gal	22.4	lb/1000 gal	18.1	lb/1000 gal	14.4	lb/1000 gal	1.6	lb/1000 gal	No
W WSP #1	Liquid Manure	848	1000 gal	12.61	lb/1000 gal	10.06	lb/1000 gal	10.54	lb/1000 gal	1.15	lb/1000 gal	No

Nutrient Loss and Mineralization Factors

Nutrient Source Description	N		P2O5		K2O	
	Storage Losses (%)	Appl. Losses (%)	Storage Losses (%)	Appl. Losses (%)	Storage Losses (%)	Appl. Losses (%)
S WSP #1		25%				
W WSP #1		25%				

Estimated Plant Available Nutrients

Nutrient Source Description	N			P2O5			K2O			Water Extractable P		
	Concentration		Total (lb)	Concentration		Total (lb)	Concentration		Total (lb)	Concentration		Total (lb)
S WSP #1	16.80	lb/1000 gal	35,095	18.10	lb/1000 gal	37,811	14.40	lb/1000 gal	30,082	1.60	lb/1000 gal	3342.4
W WSP #1	9.46	lb/1000 gal	8,020	10.06	lb/1000 gal	8,531	10.54	lb/1000 gal	8,938	1.15	lb/1000 gal	975.2
Totals			43,115			46,342			39,020			4,318

Field P Index Calculations

Comments:

Arkansas Nutrient Managemnt Planner with 2009 PI (ver 6/25/2013)

Planner:											Date:	2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 1-11											
Fields Shown	Soil Test P		Soil Map Unit	Slope Gradient (%)				Slope Length (ft)				Flooding Frequency
45	ppm	lb/ac		Min	Max	Rep	Used	Min	Max	Rep	Used	
H1 Soil Only	45	60	42	3	8	5	5	15	75	45	45	None
H1 March-June	0	0	42	3	8	5	5	15	75	45	45	None
H1 July-Oct	0	0	42	3	8	5	5	15	75	45	45	None
H1 Nov-Feb	0	0	42	3	8	5	5	15	75	45	45	None
H2 Soil Only	67	89	43	8	20	14	14	15	30	20	20	None
H2 March-June	0	0	43	8	20	14	14	15	30	20	20	None
H2 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None
H2 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None
H3 Soil Only	79	105	48	0	3	2	2	15	75	45	45	Occasional
H3 March-June	0	0	48	0	3	2	2	15	75	45	45	Occasional
H3 July-Oct	0	0	48	0	3	2	2	15	75	45	45	Occasional
H3 Nov-Feb	0	0	48	0	3	2	2	15	75	45	45	Occasional
H4 Soil Only	46	61	43	8	20	14	14	15	30	20	20	None
H4 March-June	0	0	43	8	20	14	14	15	30	20	20	None
H4 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None
H4 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None
H7 Soil Only	94	125	48	0	3	2	2	15	75	45	45	Occasional
H7 March-June	0	0	48	0	3	2	2	15	75	45	45	Occasional
H7 July-Oct	0	0	48	0	3	2	2	15	75	45	45	Occasional
H7 Nov-Feb	0	0	48	0	3	2	2	15	75	45	45	Occasional
H8 Soil Only	80	106	51	2	5	2.5	2.5	15	75	45	45	None
H8 March-June	0	0	51	2	5	2.5	2.5	15	75	45	45	None
H8 July-Oct	0	0	51	2	5	2.5	2.5	15	75	45	45	None
H8 Nov-Feb	0	0	51	2	5	2.5	2.5	15	75	45	45	None
H9 Soil Only	53	70	50	0	3	2	2	15	75	45	45	Occasional
H9 March-June	0	0	50	0	3	2	2	15	75	45	45	Occasional
H9 July-Oct	0	0	50	0	3	2	2	15	75	45	45	Occasional
H9 Nov-Feb	0	0	50	0	3	2	2	15	75	45	45	Occasional
H10 Soil Only	31	41	51	2	5	2.5	2.5	15	75	45	45	None
H10 March-June	0	0	51	2	5	2.5	2.5	15	75	45	45	None
H10 July-Oct	0	0	51	2	5	2.5	2.5	15	75	45	45	None
H10 Nov-Feb	0	0	51	2	5	2.5	2.5	15	75	45	45	None

Comments:

Arkansas Nutrient Management Planner with 2009 PI (ver 6/25/2013)

Planner:												Date:	2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 1-11												
H11 Soil Only	27	36	43	8	20	14	14	15	30	20	20	None	
H11 March-June	0	0	43	8	20	14	14	15	30	20	20	None	
H11 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None	
H11 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None	

Field	Field Area (ac)	Buffer Length (ft)	Buffer Width (ft)	Appl Area (ac)	Predominate Vegetation	Percent Ground Cover	Conservation Support Practices (P)	RUSLE 1 (ton/ac)	RUSLE 2 (ton/ac)
H1 Soil Only	1.00			1.00	Grass	95-100	None in place	0.12	0.12
H1 March-June	1.00			1.00	Grass	95-100	None in place	0.12	0.12
H1 July-Oct	1.00			1.00	Grass	95-100	None in place	0.12	0.12
H1 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.12	0.12
H2 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H2 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H2 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H2 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H3 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H3 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H3 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H3 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H4 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H4 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H4 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H4 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H7 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H7 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H7 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H7 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H8 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H8 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H8 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H8 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H9 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H9 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H9 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H9 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05

Comments:

Arkansas Nutrient Management Planner with 2009 PI (ver 6/25/2013)

Planner:								Date:	2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 1-11								
H10 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H10 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H10 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H10 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H11 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H11 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H11 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28
H11 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28
	36.00			36.00					

Field	Pasture Use	Application Method	Application Timing	Nutrient Source	Application Rate		Pre BMP PI Value	P Index Range	Target Post BMPs PI Values
H1 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	6	Low	
H1 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	3.54	1000 gal/ac	11	Low	
H1 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	0	Low	
H1 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	17
H2 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	13	Low	
H2 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	3.77	1000 gal/ac	18	Low	
H2 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	0	Low	
H2 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	31
H3 Soil Only	Rotational Grazing	Surface Applied	Nov-Feb	W WSP #1	0.00	1000 gal/ac	15	Low	
H3 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	0	Low	
H3 July-Oct	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	4.11	1000 gal/ac	13	Low	
H3 Nov-Feb	Rotational Grazing	Surface Applied	Nov-Feb	W WSP #1	4.71	1000 gal/ac	15	Low	43
H4 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	9	Low	
H4 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	3.39	1000 gal/ac	16	Low	
H4 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	0	Low	
H4 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	25
H7 Soil Only	Rotational Grazing	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	14	Low	
H7 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	4.55	1000 gal/ac	17	Low	
H7 July-Oct	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	2.48	1000 gal/ac	8	Low	
H7 Nov-Feb	Rotational Grazing	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	39
H8 Soil Only	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	5	Low	
H8 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	0	Low	

Comments:

Arkansas Nutrient Management Planner with 2009 PI (ver 6/25/2013)

Planner:		Date:	2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 12-17		

This worksheet is intended to assist in the writing of Nutrient Management Plans for the application of manure to pasture and hay land. To do this, the worksheet estimates the litter production for the farm, estimates the P Index risk value for the defined conditions of each field, assists with the allocation of nutrients to the various receiving fields, and estimates the amount of litter available for off farm use. This worksheet is the result of an effort to develop a reliable training/planning tool faithful to the 2009 Arkansas P Index developed by a multi-agency effort. However, no guarantees are made, and any observed problems or suggestions for improvement should be directed to Karl VanDevender at kvan@uaex.edu.

County Information

Farm county	Newton
R	270
10-Yr EI	110
Kf adjusted for frost?	Yes

Nutrient Source and Description Information

Manure Source	Source Type	Amount Available		N Concentration		P2O5 Concentration		K2O Concentration		Water Extractable P		Alum Used?
S WSP #1	Liquid Manure	2089	1000 gal	22.4	lb/1000 gal	18.1	lb/1000 gal	14.4	lb/1000 gal	1.6	lb/1000 gal	No
W WSP #1	Liquid Manure	848	1000 gal	12.61	lb/1000 gal	10.06	lb/1000 gal	10.54	lb/1000 gal	1.15	lb/1000 gal	No

Nutrient Loss and Mineralization Factors

Nutrient Source Description	N		P2O5		K2O	
	Storage Losses (%)	Appl. Losses (%)	Storage Losses (%)	Appl. Losses (%)	Storage Losses (%)	Appl. Losses (%)
S WSP #1		25%				
W WSP #1		25%				

Estimated Plant Available Nutrients

Nutrient Source Description	N			P2O5			K2O			Water Extractable P		
	Concentration		Total (lb)	Concentration		Total (lb)	Concentration		Total (lb)	Concentration		Total (lb)
S WSP #1	16.80	lb/1000 gal	35,095	18.10	lb/1000 gal	37,811	14.40	lb/1000 gal	30,082	1.60	lb/1000 gal	3342.4
W WSP #1	9.46	lb/1000 gal	8,020	10.06	lb/1000 gal	8,531	10.54	lb/1000 gal	8,938	1.15	lb/1000 gal	975.2
Totals			43,115			46,342			39,020			4,318

Field P Index Calculations

Comments:

Arkansas Nutrient Managemnt Planner with 2009 PI (ver 6/25/2013)

Planner:	Date: 2/25/2015
Plan Description:	2014 Aggregate Phosphorous Index Fields 12-17

Fields Shown	Soil Test P		Soil Map Unit	Slope Gradient (%)				Slope Length (ft)				Flooding Frequency
	ppm	lb/ac		Min	Max	Rep	Used	Min	Max	Rep	Used	
35												
H12 Soil Only	72	96	50	0	3	2	2	15	75	45	45	Occasional
H12 March-June	0	0	50	0	3	2	2	15	75	45	45	Occasional
H12 July-Oct	0	0	50	0	3	2	2	15	75	45	45	Occasional
H12 Nov-Feb	0	0	50	0	3	2	2	15	75	45	45	Occasional
H13 Soil Only	23	31	43	8	20	14	14	15	30	20	20	None
H13 March-June	0	0	43	8	20	14	14	15	30	20	20	None
H13 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None
H13 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None
H14 Soil Only	15	20	43	8	20	14	14	15	30	20	20	None
H14 March-June	0	0	43	8	20	14	14	15	30	20	20	None
H14 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None
H14 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None
H15 Soil Only	29	39	43	8	20	14	14	15	30	20	20	None
H15 March-June	0	0	43	8	20	14	14	15	30	20	20	None
H15 July-Oct	0	0	43	8	20	14	14	15	30	20	20	None
H15 Nov-Feb	0	0	43	8	20	14	14	15	30	20	20	None
H16 Soil Only	50	67	50	0	3	2	2	15	75	45	45	Occasional
H16 March-June	0	0	50	0	3	2	2	15	75	45	45	Occasional
H16 July-Oct	0	0	50	0	3	2	2	15	75	45	45	Occasional
H16 Nov-Feb	0	0	50	0	3	2	2	15	75	45	45	Occasional
H17 Soil Only	21	28	1	3	8	5	5	15	75	45	45	None
H17 March-June	0	0	1	3	8	5	5	15	75	45	45	None
H17 July-Oct	0	0	1	3	8	5	5	15	75	45	45	None
H17 Nov-Feb	0	0	1	3	8	5	5	15	75	45	45	None

Field	Field Area (ac)	Buffer Length (ft)	Buffer Width (ft)	Appl Area (ac)	Predominate Vegetation	Percent Ground Cover	Conservation Support Practices (P)	RUSLE 1 (ton/ac)	RUSLE 2 (ton/ac)
H12 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05
H12 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05

Comments:

Arkansas Nutrient Managemnt Planner with 2009 PI (ver 6/25/2013)

Planner:								Date:	2/25/2015	
Plan Description:	2014 Aggregate Phosphorous Index Fields 12-17									
H12 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H12 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H13 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H13 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H13 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H13 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H14 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H14 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H14 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H14 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H15 Soil Only	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H15 March-June	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H15 July-Oct	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H15 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.28	0.28	
H16 Soil Only	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H16 March-June	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H16 July-Oct	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H16 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.05	0.05	
H17 Soil Only	1.00			1.00	Grass	95-100	None in place	0.12	0.12	
H17 March-June	1.00			1.00	Grass	95-100	None in place	0.12	0.12	
H17 July-Oct	1.00			1.00	Grass	95-100	None in place	0.12	0.12	
H17 Nov-Feb	1.00			1.00	Grass	95-100	None in place	0.12	0.12	
	24.00			24.00						

Field	Pasture Use	Application Method	Application Timing	Nutrient Source	Application Rate		Pre BMP PI Value	P Index Range	Target Post BMPs PI Values
H12 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	11	Low	
H12 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	4.85	1000 gal/ac	18	Low	
H12 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	0	Low	
H12 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	29

Comments:

Arkansas Nutrient Management Planner with 2009 PI (ver 6/25/2013)

Planner:							Date:	2/25/2015		
Plan Description:	2014 Aggregate Phosphorous Index Fields 12-17									
H13 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	4	Low		
H13 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	3.01	1000 gal/ac	14	Low		
H13 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	3.00	1000 gal/ac	13	Low		
H13 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	31	
H14 Soil Only	Rotational Grazing	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	1	Low		
H14 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	3.00	1000 gal/ac	6	Low		
H14 July-Oct	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	3.50	1000 gal/ac	6	Low		
H14 Nov-Feb	Rotational Grazing	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	13	
H15 Soil Only	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	W WSP #1	0.00	1000 gal/ac	7	Low		
H15 March-June	Continuously Grazed >0.75 An.Units	Surface Applied	March-June	S WSP #1	2.91	1000 gal/ac	14	Low		
H15 July-Oct	Continuously Grazed >0.75 An.Units	Surface Applied	July-Oct	S WSP #1	2.97	1000 gal/ac	13	Low		
H15 Nov-Feb	Continuously Grazed >0.75 An.Units	Surface Applied	Nov-Feb	W WSP #1	2.70	1000 gal/ac	11	Low	45	
H16 Soil Only	Rotational Grazing	Surface Applied	March-June	S WSP #1	0.00	1000 gal/ac	7	Low		
H16 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	6.22	1000 gal/ac	23	Low		
H16 July-Oct	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	0.00	1000 gal/ac	0	Low		
H16 Nov-Feb	Rotational Grazing	Surface Applied	Nov-Feb	S WSP #1	0.00	1000 gal/ac	0	Low	30	
H17 Soil Only	Rotational Grazing	Surface Applied	Nov-Feb	W WSP #1	0.00	1000 gal/ac	3	Low		
H17 March-June	Rotational Grazing	Surface Applied	March-June	S WSP #1	2.73	1000 gal/ac	6	Low		
H17 July-Oct	Rotational Grazing	Surface Applied	July-Oct	S WSP #1	2.86	1000 gal/ac	5	Low		
H17 Nov-Feb	Rotational Grazing	Surface Applied	Nov-Feb	W WSP #1	3.00	1000 gal/ac	7	Low	21	

Best Management Practices

Field	Diversion	Terrace	Pond	Filter Strip	Grassed Waterway	Fencing	Riparian Forest Buffer	Riparian Herbaceous Cover	Field Borders	Post BMP PI Value	P Index Range
H12 Soil Only										11	Low
H12 March-June										18	Low
H12 July-Oct										0	Low
H12 Nov-Feb										0	Low
H13 Soil Only										4	Low
H13 March-June										14	Low

2014 Aggregate Split Application Table

Field	Soil Only P Index Timing Value	Manure Contribution Values			Yearly Total Per Acre Per Field P Index
		Nov-Feb Gallons/ac Gallons/field P Index	March-June Gallons/ac Gallons/field P Index	July-Oct Gallons/ac Gallons/field P Index	
H1	Mar-June PI 6	0	3,540/ac	0	3,540/ac
		0	46,000/field	0	46,000/field
		0	PI 11	0	PI 17
H2	Mar-June PI 13	0	3,770/ac	0	3,770/ac
		0	22,600/field	0	22,600/field
		0	PI 18	0	PI 31
H3	Nov-Feb PI 15	4,710/ac	0	4,110/ac	8,820/ac
		56,500/field	0	61,600/field	118,100/field
		PI 15	0	PI 13	PI 43
H4	Mar-June PI 9	0	3,390/ac	0	3,390/ac
		0	28,800/field	0	28,800/field
		0	PI 16	0	PI 25
H7	Mar-June PI 14	0	4,550/ac	2,480/ac	7,030/ac
		0	200,200/field	196,000/field	396,200/field
		0	PI 17	PI 8	PI 39
H8	July-Oct PI 5	0	0	2,780/ac	2,780/ac
		0	0	25,000/field	25,000/field
		0	0	PI 4	PI 9
H9	July-Oct PI 7	0	0	2,970/ac	2,970/ac
		0	0	103,800/field	103,800/field
		0	0	PI 9	PI 16
H10	Mar-June PI 2	0	3,690/ac	4,140/ac	7,830/ac
		0	129,000/field	120,200/field	249,200/field
		0	PI 7	PI 6	PI 15
H11	Mar-June PI 5	0	3,000/ac	0	3,000/ac
		0	51,000/field	0	51,000/field
		0	PI 14	0	PI 19
H12	Mar-June PI 11	0	4,850/ac	0	4,850/ac
		0	48,000/field	0	48,000/field
		0	PI 18	0	PI 29
H13	Mar-June PI 4	0	3,010/ac	3,000/ac	6,010/ac
		0	177,500/field	276,050/field	453,550/field
		0	PI 14	PI 13	PI 31
H14	Mar-June PI 1	0	3,000/ac	3,500/ac	6,500/ac
		0	45,000/field	28,000/field	73,000/field
		0	PI 6	PI 6	PI 13

Field	Soil Only P Index Timing Value	Manure Contribution Values			Yearly Total Per Acre Per Field P Index
		Nov-Feb Gallons/ac Gallons/field P Index	March-June Gallons/ac Gallons/field P Index	July-Oct Gallons/ac Gallons/field P Index	
H15	Nov-Feb PI 7	2,700/ac 54,000/field PI 11	2,910/ac 157,200/field PI 14	2,970/ac 190,200/field PI 13	8,580/ac 401,400/field PI 45
H16	Mar-June PI 7	0 0 0	6,220/ac 56,000/field PI 23	0 0 0	6,220/ac 56,000/field PI 30
H17	Nov-Feb PI 3	3,000/ac 6,000/field PI 7	2,730/ac 120,000/field PI 6	2,860/ac 168,750/field PI 5	8,590/ac 294,750/field PI 21

From: [C. H. Hog Farms, Inc.](#)
To: [Water Permit Application; Bailey, John](#)
Cc: [Richard Gray; David Brown \(Cargill Pork Production\)](#)
Subject: 2014 Annual Report
Date: Thursday, February 26, 2015 6:42:08 PM
Attachments: [Signed 2-26-15 Letter re 2014 Annual Report.pdf](#)
[2014 Aggregate Phosphorous Index Fields 1-11.pdf](#)
[2014 Aggregate Phosphorous Index Fields 12-17.pdf](#)
[2014 Aggregate Split Application Table.pdf](#)

Please see the attached letter and aggregate Phosphorus Index spreadsheets.

Thank you,
Jason Henson