

LAGRANGE COUNTY HEALTH DEPARTMENT



ANNUAL REPORT 2015

LAGRANGE COUNTY

HEALTH DEPARTMENT

304 N TOWNLINE RD., SUITE 1 LAGRANGE, IN. 46761 260-499-4182

WEBSITE: lagrangecountyhealth.com

HEALTH OFFICER AND BOARD MEMBERS

DR. T. ANTHONY PECHIN, M.D., HEALTH OFFICER
REGINA LINN, R. N., PRESIDENT
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HEALTH DEPARTMENT STAFF

DR. ALFREDO GARCIA, ADMINISTRATOR/ENVIRONMENTAL HEALTH SPECIALIST

JAROD MISLEY, ENVIRONMENTAL HEALTH SPECIALIST

KELLY BILLS, VITAL RECORDS REGISTRAR, OFFICE MANAGER

DEBRA GROSSMAN, R.N.: PUBLIC HEALTH NURSE I

LINDA STONEBURNER, L.P.N.: PUBLIC HEALTH NURSE II: RESIGNED MOVEMBER 2015

LOUANN SHERCK, NURSING - DATA ENTRY AND CLERICAL

MICHELLE TENNANT, R.N.: PUBLIC HEALTH NURSE II, WIC COORDINATOR

RENEE ROSENDAUL, WIC CLINIC ASSISTANT, BREAST FEEDING COORDINATOR

TAWANDA MILLER, R.N.: PUBLIC HEALTH NURSE II, WIC NUTRITIONIST RESIGNED MAY 2015

ERIN MORTON, R.N.: PUBLIC HEALTH NURSE II, WIC NUTRITIONIST RESIGNED DECEMBER 2015

LAGRANGE COUNTY HEALTH DEPARTMENT

ANNUAL REPORT 2015

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LaGrange County Health Department 304 N. Townline Road, Suite #1 LaGrange, IN 46761

Communicable Diseases 2015

Disease	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Total
Animal Bite	2	3	2						1	2		3	· 29
Campylobacter	· 0	2	1	3	0	0		3	1	2	0	1	13
Chicken Pox	0	1			0				0	0	0	0	1
Chlamydia Trachomatis	1	0	0	0	0			3	1	0		0	10
Cryptosporidium	0	0	0	0	0			. 0	0	0	1	0	2
E.Coli, 0157(+other)	0	0	0	0	0			0	0	. 0	0	0	0
Exposure (Bloodborne)	0	0	0	0	0			0	0	0	0	0	0
Giardiasis	0	0	0	0	0			0	0	0	0	0	0
Haemophilus B	0	.1	0	0	0			0	0	0	0	0	1
Hepatitis A	0	1	0	0	0	0	0	0	0	0	0	0	1
Hepatitis B	2	2	0	1	0	0	0	1	0	0	0	0	6
Hepatitis C	3	4	2	2	0	1	0	2	0	1	1	0	16
Histoplasmosis	0	1	1	0	0	0	0	0	0	0	0	1	3
Influenza (death)	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, elevated	0	1	0	0	1	0	0	1	0	1	0	0	4
Legionellosis	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis, Viral	0	0	0	0	0	0	. 0	0	0	0	0	0	0
Meningitis, Bacterial	0	0	0	0	0	0	- 0	0	0	0	0	0	0
Mumps	0	0	0	0	0	0	0	0	0	0	0	0	0
N. Gonorrhoeae	0	0	0	0	0	0	0	0	0	1	0	0	1
Newborn Screen	0	0	0	0	0	0	0	0	0	0	0	0	0
Pertussis	0	0	0	0	0	0	0	0	1	0	1	2	4
Rabies, potential	0	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mtn. Sp. Fever	0	0	0	0	0	0	0	0	0	0	0	0	
Salmonelia	0	0	0	2	0	0	0	1	0	1	0	0	4
Shigella	0	0	0	0	0	0	0	0	0	0	0	0	0
Strep Inv A	0	0	0	0	0	0	0	0	0	0	0	0	0
Strep GrpB	0	0	0	0	0	0	0	0	0	0	0	0	0
Strep Pneumococcai	4	0	4	0	1	1	0	0	0	0	0	0	10
TB Class II (LTBI)	0	0	0	0	0	0	1	0	0	0	0	0	1
West Nile Virus	0	0	0	이	0	0	0	0	0	이	0	0	0
Other: (See below)								1	2				3
Lyme Disease	0	1	0	0	0	0	0	0	0	0	1	0	2
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0
Invasive Strep B	0	0	0	0	0	0	0	0	0	1	0	0	1
Listerosis	0	0	0	0	0	0	0	0	0	0	0	0	
Severe MRSA/MSSA	0	0	0	0	0	0	0	0	0	0	0	0	0
TB (Active)	0	0	0	0	0	이	0	0	0	0	0	0	0
TB (Contact)	0	0	0	0	0	0	0	0	0	0	0	0	0
TB (Suspect)	0	0	0	0	0	0	0	0	0	0	0	0	0
TB (Clinical)	0	0	0	0	0	0	0	0	0	1	1	0	2
TB (Window Prophy)	0	0	0	0	0	0	0	0	0	0	. 0	0	0
Tetanus Death	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
Varicella	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	12	18	10	11	8	8	5	13	5	10	8	7	115

July LTBI pt expired before could start treament from other medical problems.

OTHER (from August above):

Chikungunya in a pt who traveled to Nicaragua.

Other (from Sept above)

Chikungunya in a pt who traveled to Nicaragua.

Brucellosis

lumber of Visits to the LCHD for ISDH Vaccine For Children Program:

134 134	374 374 386 386 649 649 321 322 126 159 203 85 85 85 109 109 1122 61	200 463 367 293 221 215 215 70tal visits 335 335 94 64 64 64 64 64 64 64 64 64 64 64 64 64	- L C T T T C C		242 88 319 33 222 30 222 30 193 27 180 21 201 20 136 77 140 13 48 9 48 9 46 4 68 11 81 6 63 7 63 7 58 5 58 5
94 896 39 723 105 469 108 375 108 375 108 375 109 253 160 616 160 329 160 329 160 329 160 329 160 135 113 141 113 134 121 134 134 121	3.74 3.386 6.49 6.49 6.49 3.3.1 1.26 1.59 2.03 8.5 8.5 1.09 1.09 1.09 1.12 1.12 1.12 1.12 1.12 1.12		367 293 221 221 236 215 visits split 136 335 159 94 64 77 72 65 91 81	332 367 304 293 277 221 210 236 200 215 772 335 136 159 95 94 94 64 60 73 77 72 53 77 73 72 60 73 71 69 71 69	332 367 304 293 304 293 277 221 200 215 200 215 Total visits split 188 136 136 4 60 73 60 73 77 72 81 65 66 69 66 69 71 69 71 69 71 69
139 723 723 723 723 723 725	558 449 7 location 003 004 009 009 009 009 009 009	2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	293 221 221 236 215 136 335 159 94 64 64 77 77 77 72 65 65 91 91 81	304 293 304 293 277 221 210 236 200 215 772 335 772 335 94 64 94 64 64 64 77 73 77 73 77 73 77 73 77 74 65 99 108 71 69 71 69	332 357 367 304 293 277 221 210 236 200 215 772 335 772 335 94 64 94 64 60 73 77 72 73 77 73 72 749 65 99 108 71 69 71 69 71 69
98 253 98 253 60 616 60 616 10 329 115 203 126 165 126 165 131 141 142 159 62 127 134 134 94 121	10 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33. 33. 33. 34. 35. 35. 35. 35. 35. 35. 35. 35. 35. 35	293 221 236 215 215 136 335 159 94 64 64 77 77 77 77 81	277 221 210 236 200 215 700 215 772 335 772 335 94 64 94 64 60 73 73 77 73 72 73 72 73 77 73 72 749 65 99 108 71 69 71 69	277 221 210 236 200 215 702 335 772 335 772 335 94 64 94 64 60 73 73 77 73 72 73 72 749 65 99 108 71 69 71 69 71 69
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98 253 60 616 60 329 115 203 126 165 126 135 118 151 111 141 113 138 113 138 113 138 113 138 113 138 113 134 114 138	22 10 10 10 10 10 10 10	32 112 12 12 12 12 12 12 12 12 12 12 12 1	215 visits split 136 335 335 159 94 64 77 77 72 65 91 81	200 Total visits split 188 136 772 335 136 159 95 94 60 73 60 73 73 77 73 72 49 65 99 108 116 56 66 91 71 69 72 60	200 215 Total visits split 188 136 772 335 136 159 95 94 60 73 60 73 73 77 73 72 49 65 99 108 116 56 66 91 71 69 71 69 71 69 71 69 71 68 66 81
98 253 60 616 60 329 115 203 126 165 126 135 118 151 113 138 113 138 113 138 113 138 113 138 113 138 113 138	location	20 20 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	visits split 136 335 159 94 64 64 77 77 72 65 91 69 81 81	Total visits split 188 136 772 335 136 159 94 64 60 73 63 77 73 72 49 65 99 108 116 56 66 91 71 69 68 91	Total visits split 188 136 772 335 136 159 95 94 60 73 60 73 73 77 73 77 49 65 99 108 66 91 71 69 71 69 71 69 71 68 88 81
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141 138 187 159 127 134		13 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		73 72 49 65 99 108 116 56 66 91 71 69	73 72 49 65 99 108 116 56 66 91 71 69 58 81
138 187 159 127 134		9 6 6 7 7 7 2 4 2 4		49 65 99 108 116 56 71 69	49 65 99 108 116 56 66 91 71 69 58 81
187 159 127 134		12 24		99 108 116 56 66 91 71 69	99 108 116 56 66 91 71 69 58 81
159 127 134 121		12,		71 69 71 69 84	71 66 91 71 69 58 81
127	10)	24(71 69 72 69	66 91 71 69 58 81
134	7			71 69	71 69 58 81
121	_	12		58 04	58 81
	0	11		10	
132 154 110	110	+	103	70 103	103
				69 99	69 99
148 207 111	122	12		97 100	97 100
148 107 106		18		93 143	143
134 119 125	14	244	99	117 66	117 66
	112	+	76	79 94	79 94
127 95 70	103	7		29 68	29
Administered:	Vaccines A	₽	Total Number of Va	Number of	Number of
924 1,237 816	843		746	755 746	746
851 2,082 1,197	759	1/		1,921 1,103	1,921 1,103
	856	88		717 803	803
1.045	734	7	640	618 640	618 640
953	694	8	469	603 469	469
788	85	9	468	445 468	445 468
277	000		126	11E 12E	11E 12E

Immunizations from A to Z

May 22, 2015 at 10:00a - 2:00p

Hosted by LAGRANGE COUNTY HEALTH DEPARTMENT

Location: County Office Building (no time limit parking around building) 114 W Michigan St (Commissioner/Council Room)

Lagrange, IN 46761

Lunch provided by Sanofi

For location information, contact Deb Grossman at (260)499-4182 ext 2.

Email: dgrossman@lagrangecounty.org

For registration or training information, contact Debra Doctor ISDH Educator at (260)210-2932

Email: ddoctor@isdh.in.gov

Who Should Attend?

This training is for anyone who provides immunizations, or is interested in learning more about vaccine preventable diseases. This includes medical staff & management.

Participants include NPs, RNs, LPNs, CNAs, MDs, MAs, PAs, & faculty/students in the medical field.

Topics Included

Principles of Vaccination Vaccine Preventable Diseases Child/Adolescent Immunizations School Requirements General Recommendations

Vaccine Storage & Handling

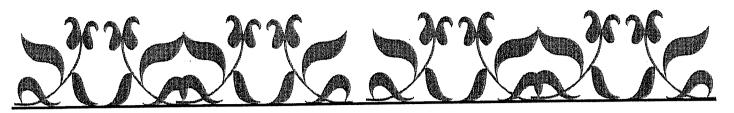
Adult recommendations Immunization Schedules Vaccine Misconceptions Reliable resources

Safe & Effective Vaccine Admin Resources Booklet provided

Registration Deadline Monday May 18, 2015, 4:30 pm eastern time To register: Email or fax this form to ddoctor@isdh.in.gov or fax# 317-974-2003

A separate form must be used for each person. Confirmations will be sent by email or by phone.

Name			Cred	entials	(RN, LF	PN, MD,	etc.)_	
Practice/Clinic			Job	Title				
Mailing Address								·
PHONE	FAX		EMAIL:					
Have you attended th	he Immunizations	s from A to	Z training before?		Yes		No	
Would you like to re	eceive our Immur	nization E-N	ewsletter by Email?		Yes		No	
Are you currently a	CHIRP user?				Yes		No	
If no, would you lik		ion on CHIR	P? .		Yes		No	
Are you currently a		*			Yes		No	



WHAT: Back to School Immunization Clinic

WHERE: LaGrange County Health Dept 304 N. Townline Rd.
LaGrange, IN

WHEN: Tuesday August 4th, 2015

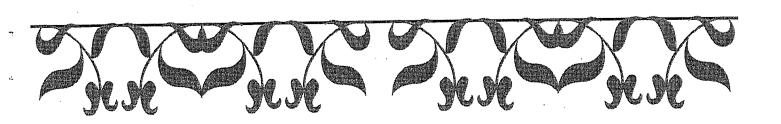
From 330p to 7p

BY APPOIINTMENT ONLY

WHO: All Eligible LaGrange County Children

Eligibility rules are: No insurance, valid Medicaid, or insurance does not pay for any vaccine; or be Alaskan Native/American Indian.

Please call the LCHD at 260-499-4182 ext 1 to make an appointment or with any questions.



FREE FLU SHOTS

(For children with no insurance, Medicaid or Insurance doesn't cover vaccines.)

LaGrange Co. Health Dept. will be at the Shipshewana Wolfe Building giving Flu Shots on: December 17 3:30-5:30

Adults Flu Vaccine \$25.00

For more information contact the LaGrange County Health Department 260-499-4182 ext 1



LaGrange County Health Department

Protecting the place where we live!!!...

www.lagrangecountyhealth.com

444

304 N. Townline Rd. Suite 1. LaGrange, IN 46761-1319*Phone (260) 499-4182 extension 7*Fax (260) 499-4189

ENVIRONMENTAL HEALTH OFFICE

SANITARIANS ACTIVITIES REPORT (JANUARY-DECEMBER)

		2011	2012	2013	2014	2015	15-Y AVERAGE
				400	400	000	050
1. SOILS EVAL	UATIONS	176	155	182	160	230	250
2. SEPTIC PER	MIT INTERVIEWS	169	151	164	162	192	195
3. SEPTICS FIN	NAL INSPECTIONS	150	163	136	143	163	192
4. TECHNICAL	ASSISTANCE	743	585	614	503	479	446
5. COMPLAINT	S:						
	5a. VISITS	6	7	6	5	7	30
	5b. LETTERS	2	2	1	4	8	7
6. MEETINGS:							
	PLAT COMMITTEE	24	21	13	20	23	21
	STATE HEALTH DPT.	4	4	2	2	4	7
	OTHER (IEHA, ETC.)	16	20	23	30	51	32
	TOTAL	44	45	38	52	78	59
7. MILES		10987	11144	11512	12234	11993	10395
8. BUILDING A	PPLICATION REVIEW	43	42	42	32	51	395
9. PLAT/ZONIN		74	105	104	129	151	137

SUBMITTED BY:

Dr. Alfredo García, PhD.

Administrator/Environmentalist LaGrange County Health Department www.lagrangecountyhealth.com

Office (260) 499-4182 Ext 7 Fax (260) 499-4189 agarcia@lagrangecounty.org





12/08/2015 Parkview Physicians Group Family Practice (8175 W US 20, Shipshewana)

BREAST CANCER: BEST PROTECTION IS EARLY DETECTION!!!...

Breast cancer will affect an average of one in seven women during their lifetime and is the second most common cause of cancer-related deaths in women.

Regular screenings is good way to keep your health in check. Cancer screenings help to save lives as mammograms can find cancer before symptoms are present. Diagnostic mammography is used when an abnormality is found during screening or in women who have breast complaints, such as a breast mass, nipple discharge, breast pain or skin irritation.

CALL US TO SCHEDULE YOUR APPOINTMENT. (260) 483-1847 & (800) 727-8439 ext. 26540

Please note: For women without insurance, a high deductible or resources to pay, funding (\$\$\$) is available

IMMUNIZATIONS: LAGRANGE COUNTY HEALTH DEPARTMENT (260) 499-4182 Extension 1

LaGrange Clinic

LaGrange County Health Department

Monday & Wednesday Walk-in Clinics

Tuesday Appointments

8:30 a.m. – 11:00 a.m. & 1:00 p.m. – 3:00 p.m.

Shipshewana Clinic

Wolfe Building Community Room

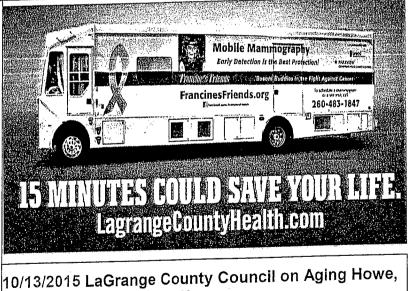
Only 1st & 3rd Thursday

9:00 a.m. - 11:30 a.m. 1:00 p.m. - 3:00 p.m. Topeka Clinic

Topeka Fire Station Building

Only 2nd & 4th Thursday

9:00 a.m. - 11:30 a.m. 1:00 p.m. - 3:00 p.m.



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LaGrange Clinic

LaGrange County Health Department

7605 N SR 9, Howe.

Monday & Wednesday Walk-in Clinics

Tuesday Appointments

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Wolfe Building Community Room

Only 1st & 3rd Thursday

9:00 a.m. - 11:30 a.m. 1:00 p.m. - 3:00 p.m. Topeka Clinic

Topeka Fire Station Building

Only 2nd & 4th Thursday

9:00 a.m. - 11:30 a.m. 1:00 p.m. - 3:00 p.m. Indiana Onsite Wastewater Professionals Association, Inc.

I.O.W.P.A.

Has Presented This of Member In Good Standing To:

LAGRANGE COUNTY HEALTH DEPT

For subscribing to the IOWPA Code of Professional Conduct and is entitled to All benefits and privileges of membership.

COUNTY HEALTH DEPARTMENT MEMBERSHIP

INCLUDES UP TO 3 STAFF MEMBERS

In the event that you need to reach me, my cell phone is 317-370-8757. Please don't hesitate to contact me.

On behalf of Dean Halverson, thank you for your time. We look forward to meeting with you.

All the best,

JoBeth

JoBeth McCarthy, MPH

Director, Center for Public Health Practice and Indiana Public Health Training Center

Indiana University

Richard M. Fairbanks School of Public Health

714 N. Senate Ave.

EF 200

Indianapolis, IN 46202

Direct: 317-274-3178

Cell: 317-370-8757

Fax: 317-274-3443 jomccart@iupui.edu

www.pbhealth.iupui.edu

<image005.png>

JoBeth McCarthy-Jean

Director, Public Health Training Center



RICHARD M. FAIRBANKS SCHOOL OF PUBLIC HEALTH

INDIANA UNIVERSITY

714 N. Senate Avenue, EF 205 Indianapolis, IN 46202-3299 www.pbhealth.iupui.edu

317-274-3178 *phone* 317-274-3443 *fax* jomccart@iu.edu

October 15, 2015 Itinerary

6:45 - 9:30 Travel

9:30 – 10:30 Memorial Hospital of South Bend (Beacon Hospital)

11:00 – 12:00 Michiana Health Information Network

12:30 - 1:30 Eck Institute for Global Health

2:30 – 3:00 LaGrange County Health Department

4:00 - 5:00 IU Health Goshen

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RICHARD M. FAIRBANKS SCHOOL OF PUBLIC HEALTH

INDIANA UNIVERSITY
Office of the Dean
IUPUI

November 10, 2015

Dear Dr. Garcia and Dr. Pechin,

Thank you for taking the time to meet last week. I can't begin to tell you how valuable I found your insights on current health department practices and issues.

I appreciate your time, and the opportunity to hear your thoughts on this important facet of public health.

Sincerely,

Paul K. Halverson, DrPH FACHE

Founding Dean and Professor

Favorites

Main Menu

Self Service Learning

My Learning

Home

Worklist

Add to Favorites

Sign out

Activity Progress

OIG Ethics Training

Alfredo Garcia, SJRBC, Department of Natural Resources-NONEE

Activity Name:

OIG Ethics Training

Туре:

Computer-Based Training

Activity Code:

OIG_ET2015

Price Per Seat:

Drop Charge:

Jeanetta Winders

Enrollment Status:

Completed

Confirmation Number:

1773772

Start Date: Last Enrollment Date: --

08/06/2015

End Date:

Last Drop Date:

Progress Schedule Grades and Attendance Notes and Attendance Payment Details Approvals

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Alfredo Garcia

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Wednesday, September 02, 2015 10:00 AM Nancy Pascoe < nancykwp@gmail.com>

Alfredo Garcia

constructed wetlands for Animal Shelter use

Dear Dr. Garcia

I came across your presentation on the internet: http://www.lagrangecountyhealth.com/Documents/RVFCWISDHMarch2010.pdf

I work for the National Parks Trust of the British Virgin Islands in the Caribbean and am also on the Board of the local Humane Society. The Society is designing a new animal shelter and as the site is near to a salt pond/wetland area we are considering using a constructed wetland for waste treatment.

Your web report was very informative but I was wondering how long these systems last? The local Town and Country Planning Department here have never heard of this treatment method and are requesting this information.

I am happy to provide more detail if you have the time to assist with our questions?

thank you and best wishes

Nancy Pascoe

Planning Coordinator

National Parks Trust of the Virgin Islands (UK)

British Virgin Islands

http://www.bvinationalparkstrust.org/

www.bvihumanesociety.org Humane Society of the BVI Board Director

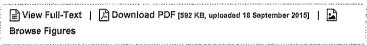
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Strength Wastewater from a Bakery: Case Study

Alfredo García-Pérez ¹,* ☑, Mark Harrison ² ☑, Craig Chivers ¹ ☑ and Bill Grant ¹ ☑

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Received: 4 August 2015 / Revised: 10 September 2015 / Accepted: 11 September 2015 / Published: 18 September 2015



Abstract

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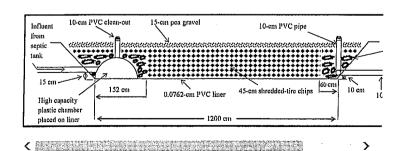
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Support material used in constructed wetlands has been shown to be a key element and significant mechanism in the process of contaminants removal from sewage including phosphorus compounds. Recycled waste tires processed into small chips that are similar to conventional stone aggregate are currently used in the construction of septic system leach fields and could be a green alternative as support material in constructed wetlands. During three years, the performance of a gravity subsurface horizontal flow constructed wetland using recycled shredded-tire chips as support material to treat on-site the high strength wastewater from a bakery was monitored. Grab samples of the effluent from the septic tank and the constructed wetland were collected quarterly and submitted to a certified laboratory. Final treatment efficiency (percentage removal) was low for potassium (36%), intermediate for total nitrogen (56%), and total Kjeldahl nitrogen (57%), and relatively high for total phosphorus (65%), total suspended solids (69%), ammonia-nitrogen (87%), five-day biochemical oxygen demand (92%), Escherichia coli (97%), and fat-oil and grease total (99%). Nitrate-nitrogen final mean value was consistently below 1 mg/L, and iron concentration increased from less of 2 mg/L in the sewage to 55 mg/L in the constructed wetland effluent. These results show that recycled shredded-tire chips could be an environmental alternative support material in constructed wetlands as efficient removal of typical wastewater contaminants is not compromised.

Keywords: constructed wetland; high-strength sewage; recycled tires; shredded-tire chips



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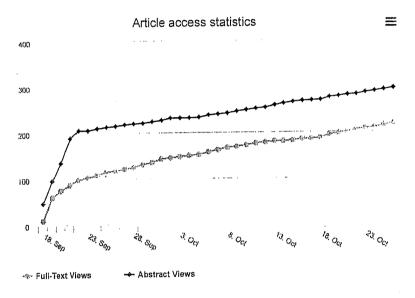
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Case Report

Recycled Shredded-Tire Chips Used As Support Material in a Constructed Wetland Treating High-Strength Wastewater from a Bakery: Case Study

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Academic Editor: Michele Rosano

Received: 4 August 2015 / Accepted: 11 September 2015 / Published: 18 September 2015

Abstract: Support material used in constructed wetlands has been shown to be a key element and significant mechanism in the process of contaminants removal from sewage including phosphorus compounds. Recycled waste tires processed into small chips that are similar to conventional stone aggregate are currently used in the construction of septic system leach fields and could be a green alternative as support material in constructed wetlands. During three years, the performance of a gravity subsurface horizontal flow constructed wetland using recycled shredded-tire chips as support material to treat on-site the high strength wastewater from a bakery was monitored. Grab samples of the effluent from the septic tank and the constructed wetland were collected quarterly and submitted to a certified laboratory, Final treatment efficiency (percentage removal) was low for potassium (36%), intermediate for total nitrogen (56%), and total Kjeldahl nitrogen (57%), and relatively high for total phosphorus (65%), total suspended solids (69%), ammonia-nitrogen (87%), five-day biochemical oxygen demand (92%), Escherichia coli (97%), and fat-oil and grease total (99%). Nitrate-nitrogen final mean value was consistently below 1 mg/L, and iron concentration increased from less of 2 mg/L in the sewage to 55 mg/L in the constructed wetland effluent. These results show that recycled shredded-tire chips could be an

environmental alternative support material in constructed wetlands as efficient removal of typical wastewater contaminants is not compromised.

Keywords: constructed wetland; high-strength sewage; recycled tires; shredded-tire chips

1. Introduction

The support material used in constructed wetlands (CWs) has been shown to be a key element and significant mechanism in the process of pollutants removal from wastewater. Research has been done testing sewage treatment efficiency of CWs using different support materials, such as gravel [1,2], shale, ironstone and hornblende [3] combination of sand and dolomite [4], and volcanic gravel rock [5].

Recycled waste tires processed into small chips are used as a filter media in the construction of septic systems absorption or leach fields [6]. The recycled shredded-tire chips material is coarse aggregate, lightweight material with long term stability and maximum storage capacity: tire chips have a porosity of 0.6, and the gravel has a porosity of 0.4 [7]. The bulky characteristic of tire chips saves in the support material as less material is required to cover same space [8]. Additionally, tire chips have good ion-exchange capacity, which allows them to work as buffer material adsorbing and releasing NO-3-N [9]. Those properties can be useful for wastewater treatment as tire rubber can retain no only NO-3-N but phosphorus compounds reducing their leachate to the soil and eventually to the ground or surface waters, however; the mechanism of how the mitigation works remains unclear [10]. Recycled shredded-tire chips could be an environmental alternative to river stone or other local media as support material in constructed wetlands. This three-year case study reports the performance of a subsurface gravity horizontal flow constructed wetland (GHFCW) using recycled shredded-tire chips as support material to treat on-site high-strength wastewater from a bakery.

2. Materials and Methods

A GHFCW cell (12 m × 6 m; 0.6 m deep) to treat on-site high-strength sewage from a bakery was built in LaGrange County, Northeast Indiana. Volume of sewage to be treated was assumed as approximately 2124 L per day according to the current commercial regulations from the Indiana State Department of Health for the proposed type of business. The 6-day per week, and 16-h bakery operation also included a public cafeteria serving coffee and ready to eat food dishes.

The wastewater from the kitchen and the bakery operation was collected in a 4732-liter septic tank working as a grease trap. Effluent leaving the grease trap runs by gravity to the front end section of a second 4732-liter septic tank, which it was also receiving sewage generated from the public and employees restrooms (Figure 1). The high strength effluent passed through a plastic filter located at the outlet of the second septic tank, and gradually released by gravity to the feeding inlet bottom of the wetland cell, which used plastic chambers to spread the incoming sewage at the front end. The GHFCW cell was built with a 0.0762 cm PVC liner and filled with a bottom layer of 45 cm depth of 40–80 mm diameter recycled shredded-tire chips, and a top layer of 15 cm depth of 4 mm diameter gravel (pea gravel) (Figures 2 and 3). The top of the wetland cell was planted with four transplanted wildlife cattails on the

corners and a dozen of water irises planted on the center of the wetland cell to enhance the system landscaping (Figure 4).

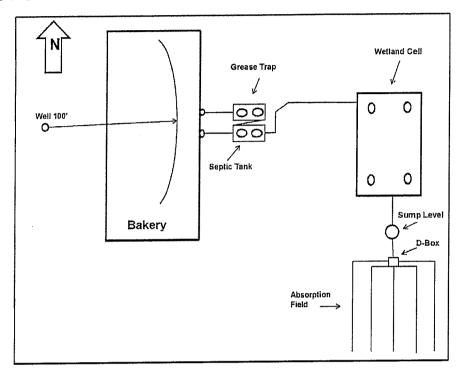


Figure 1. Site plan with components of the on-site wastewater system.

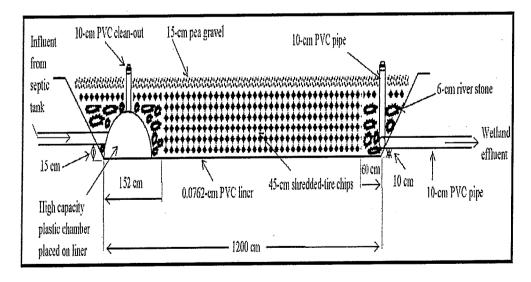


Figure 2. Longitudinal view of the horizontal flow constructed wetland.

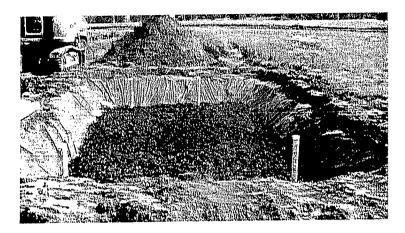


Figure 3. Front view of the constructed wetland cell showing the shredded-tire chips.

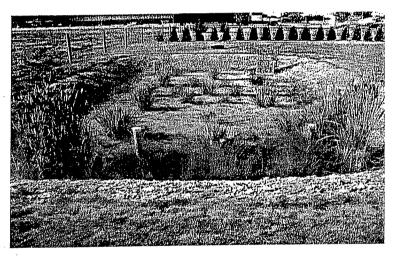


Figure 4. Aspect of the constructed wetland after the first year of installed.

During three years; grab samples of the effluent from the septic tank and the constructed wetland were collected quarterly, and transported in refrigerated coolers (4 °C) to a certified Environmental Protection Agency (EPA) testing laboratory. The samples were analyzed immediately after arriving to the laboratory using the methodology described in Standard Methods (SM) for the Examination of Water and Wastewater [11], and in the EPA Manual of Methods for Chemical Analysis of Water and Wastes [12] for the following parameters including the analytical reporting detection limit for each test: 5-day biochemical oxygen demand (BOD₅, SM-5210-B, 2 mg/L), nitrate-nitrogen (NN) (NŌ₃-N, EPA-353.2, 0.1 mg/L), ammonia-nitrogen (AN) (NH₄+-N, SM-4500-NH₃-D, 0.1 mg/L), total suspended solids (TSS, SM-2540-D, 3 mg/L), fecal coliforms bacteria (EC) (Escherichia coli, SM-Quanti-Tray/2000, 1 MPN/100 mL), total phosphorus (TP, SM-4500-P, 0.1 mg/L), potassium (K, EPA-200.7, 2 mg/L), iron (Fe, EPA-200.7, 0.2 mg/L), fats, oil and grease, total (FOG, HEM-EPA-1664, 5 mg/L), and total Kjeldahl nitrogen (TKN, EPA-351.2, 2 mg/L). Parameters collected on-site at the constructed wetland outlet sump pit, and the septic tank included temperature (air and water), dissolved oxygen, oxygen reduction potential, and pH. The removal efficiency was calculated according to the equation used by Ebeling et al. [13].

3. Results and Discussion

The wastewater treatment system was designed to treat a daily sewage flow of 2124 L; however, a water well meter to check water consumption did show a daily real flow (mean ± standard deviation) of 4191 ± 1120 L considering only six days per week for scheduled business operations. There is a percentage of the water added to prepare the dough that is evaporated during the baking process and it is not ending as wastewater. The bakery's owners indicated that 25% of the daily water flow should be ending as final baked products. Under this consideration the amount of daily sewage (3143 liters) generated by the bakery was one and half times the daily flow capacity of the CWs wastewater treatment system. The theoretical hydraulic retention time (HRT) of the sewage inside the septic tanks (9464 L) divided by the influent flowrate (3143 L/day) was ±72 h. Assuming the same flowrate passed directly to the GHFCW, the HRT of the septic tank effluent inside the wetland cell was ±4 days. A field test to determine a more accurate HRT was not performed. Over time, plants and accumulated sludge can negatively change the HRT. As a technical note, the support material was not changed during the testing period. The wastewater treatment system was always operational as required and clogging issues were not visible during the three-year testing period. Additionally, decaying death material was not allowed to accumulate on top of the pea gravel. Every spring a complete cleanup of the dead material was performed to allowing the new vegetative material to grow.

Results of influent (septic tank sewage) vs. effluent from the CWs, and treatment efficiency for DO, ORP, pH, air and water temperature, BOD₅, TSS, TP, K, coliform bacteria (Table 1), and nitrogenous compounds (Table 2) fluctuated during the three-year testing period. The capacity of the GHFCW to remove contaminants fluctuated from a low 36% (K) to high up to 99% for FOG (Table 3).

According to Benefield [14] the following range values could be used to define sewage as high-strength: BOD₅ (100–3685 mg/L), TSS (142–4375 mg/L), and FOG (25–14958 mg/L). Per data from Table 1 and Table 3, the constructed wetland septic system serving the bakery received wastewater that can be classified as high-strength sewage using Benefield [14] definition. Bakeries are a type of business that usually generates larger amounts of wastewater containing high amounts of FOG. High values for FOG also increases the concentration of BOD₅.

The constructed wetland used in this case study was able to reduce the inlet concentration of FOG from 1102 to 5 mg/L in the outlet showing removal efficiency over 99%. Additionally, there was a high removal efficiency for BOD₅ (92%) dropping from 2373 mg/L in the influent to 197 mg/L as effluent treated. For BOD₅, the removal efficiency of the constructed wetland system used in this case study showed better or similar performance than values reported by other researches using support material different than shredded-tire chips. Zurita, F. et al. [15] using local gravel rich in iron oxide (volcanic rock) as support material reported BOD₅ removal efficiency fluctuating between 74% and 78% for a horizontal flow constructed wetland treating domestic wastewater in lab-scale and pilot-scale studies. The study by [16] reported high BOD₅ removal efficiencies (96%) using stone as substrate in a subsurface constructed wetland; however, the constructed wetland was fed with pretreated raw wastewater passed first through an upflow anaerobic sludge blanket.

Table 1. Mean concentration and standard deviation (SD) for dissolved oxygen (DO), temperature (°C), 5-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), total phosphorus (TP), and fecal coliforms bacteria (*E. coli*). MPN: most probably number.

Age	DO (i	ng/L)	Т (°C)	BOD ₅	(mg/L)	TSS (mg/L)	TP (mg/L)	E. coli	(MPN)
(Days)	In	Out	ln	Out	In	Out	In	Out	In	Out	<u>In</u>	Out
30	1.2	1.5	23.5	17.7	850	20	170	10	4.92	0.85	9×10^{4}	3×10^{4}
83	1.94	1.6	22.9	21.5	830	150	330	85	8.22	0.55	17×10^4	12×10^4
101	0.02	0.04	26.6	22.9	710	510	240	220	7.24	1.3	98×10^{3}	12×10^{3}
148	0.22	0.26	25.1	16.3	2200	96	351	90	4.89	2	33×10^{5}	25×10^{3}
188	0.07	0.25	24.5	15.3	1400	120	160	130	1.7	0.41	39×10^{5}	3×10^{3}
318	0.33	0.21	22.6	11.1	2000	560	240	140	2.33	0.76	9×10^{3}	7×10^{3}
370	1.5	1.3	19.1	5.3	3100	160	360	150	6.54	0.363	9×10^{2}	5×10^{2}
436	2.2	4.6	20.9	17.3	1800	610	210	270	6.6	2.12	1×10^{5}	4×10^{4}
510	3.2	3.5	28.0	25.7	4200	99	1100	140	4.48	1.72	9×10^{3}	5×10^{3}
655	1.4	1.3	23.2	19.8	1900	110	310	150	7.28	4.53	9×10^{4}	4×10^{4}
775	1.3	1.4	24.5	21.6	1600	18	276	74	6.76	5.47	9×10^{3}	2×10^{3}
895	1.51	2.1	17.8	5.6	5680	186	464	80	3.76	1.95	2×10^{4}	2×10^{4}
1015	2.2	1.3	25.9	23.2	3790	31	592	62	4.5	1.6	1×10^{6}	2×10^{3}
1115	1.9	1.1	26.3	20.5	3160	87	552	38	3.6	2.2	2×10^{5}	1×10^{4}
Mean	1.4	1.5	23.6	17.4	2373	197	383	117	5.2	1.8	8×10^{5}	2×10^{4}
SD	0.9	1.3	2.9	6.3	1445	610	245	69	1.9	1.5	13×10^{5}	3 × 10 ⁴

Table 2. Mean concentration, and standard deviation (SD) for ammonia-nitrogen $(NH_{4}^{+}N)$, nitrate-nitrogen $(NN = NO_{3}^{-}N)$, total-Kjeldahl-nitrogen (TKN), and total-nitrogen (TN = TKN + NN).

		·					TEN L	
Age	NH ⁺ ₄ -	N (mg/L)	NO ₃ -N	V (mg/L)	TKN	(mg/L)	TN (mg/L)
(Days)	In	Out	In	Out	<u>In</u>	Out	In	Out
30	14.8	3.62	0	0	33.5	14.1	33.5	14.1
83	25.1	13.3	0	0	119	56.6	119	56.6
101	31.6	0.19	0	0	63.4	23.4	63.4	23.4
148	39.3	4.42	0	0	127	20	127	20
188	35.2	0.2	0	0	40.2	14.7	40.2	14.7
318	38.8	0.16	0	0	33.7	25.8	33.7	25.8
370	23.4	0.126	0	0	53.2	27.7	53.2	27.7
436	41.4	2.12	0	0	39.3	21.6	39.3	21.6
510	47.6	4.01	0.5	0.5	47	4.1	47.5	4.6
655	36.7	11.4	0.5	0.5	57.3	37.2	57.8	37.7
775	14	7.7	0.5	0.7	60.2	39.3	60.7	40
895	12.8	0.05	0.5	0.5	54	31.3	54.5	31.8
1015	24.5	0.35	0.5	0	44.8	20.5	45.3	21
1115	16.9	3.4	0.8	0.5	30	12.9	30.8	13.4
Mean	28.7	3.6	0.24	0.19	57.3	24.9	57.5	25.09
SD	11.8	4.4	0.29	0.27	29.7	13.2	29.6	10.9

Table 3. Treatment efficiency of the horizontal flow constructed wetland. MPN: Most Probably Number, NA: not applicable. Mean concentration (standard deviation = SD).

Water Quality Parameters	Subsurface Hor	izontal Flow Consti {Mean (SD)}	ructed Wetland
- ,	Influent	Effluent	Efficiency (%)
Fat, Oil and Grease {FOG (mg/L)}	1101 (150)	5.3 (0.5)	99
Fecal Coliforms {E. coli (MPN/100 mL)}	$8 \times 10^5 (13 \times 10^5)$	$2 \times 10^4 (3 \times 10^4)$	97
Biochemical Oxygen Demand {BOD ₅ (mg/L)}	2373 (1445)	197 (610)	92
Ammonia-N $\{NH_4^+N (mg/L)\}$	28.7 (11.8)	3.6 (4.4)	87
Total Suspended Solids {TSS (mg/L)}	383 (245)	117 (69)	69
Total Phosphorus {TP (mg/L)}	5.2 (1.9)	1.8 (1.5)	65
Total Kjeldahl Nitrogen {TKN (mg/L)}	57.3 (29.7)	24.9 (13.2)	57
Total-Nitrogen $\{(TN = TKN + NN) (mg/L)\}$	57.5 (29.6)	25.09 (10.9)	56
Potassium {K (mg/L)}	31.9 (8.9)	20.5 (9)	36
Nitrate-Nitrogen $\{NN = NO_{3}-N (mg/L)\}$	0.24 (0.29)	0.19 (0.27)	NA
Dissolved Oxygen {DO (mg/L)}	1.4 (0.9)	1.5 (1.3)	NA
pH (standard units)	3.9-6.2	6.3–7.6	NA
Water Temperature (°C)	23.6 (2.9)	17.4 (6.3)	NA

The average removal for TSS during the experimental period was reduced from 383 mg/L in the inlet to 117 mg/L at the outlet showing an efficiency removal of 69%. Zurita, F. et al. [5] reported TSS removal up to 82% by a horizontal flow constructed wetland (HFCW) treating influent similar to typical sewage from household. A HFCW treating fermented fish production wastewater reached 88% removal of solids [16]. The lower value of solids removal by the constructed wetland used in this case study in comparison with other reports could be related to the higher daily water uses, which was over one and half times the treatment capacity for which the system was designed. This situation could have increased the velocity of the sewage passing through the wetland cell, reducing the time for sedimentation and filtration; the two main processes responsible for solid removal in constructed wetlands.

Nitrification process was efficient dropping AN from 29 to 4 mg/L (87%), TKN from 57 to 25 mg/L (57%), and TN was reduced from 58 to 25 mg/L (56%). The final NN was consistently below 1 mg/L. Values in this study were better than to those by [16]. They reported a reduction of 53% and 70%, for TKN and AN, respectively; and NN fluctuated from 0.17 to 3.4 mg/L. Their system treated wastewater from a fermented fish production; however the wastewater passed first through an upflow anaerobic sludge blanket. The constructed wetland system used in this case study shows low efficiency removal for TN (59%) in comparison with the research done by [17] using a laboratory-scale constructed wetland treating residential sewage. They reported TN removal up to 87% as a result of effective high oxygenation of the system as dissolved oxygen concentration ranged from 5.2 to 7.4 mg/L. The constructed wetland system in this case study had a final oxygen concentration of 1.5 mg/L; with a range from 0.2 to 4.6 mg/L. Additionally, another factor to be considered affecting low TN removal could be the pH concentration of the sewage entering the constructed wetland. Ammonification to convert organic-N back into ammonium is pH dependent with an optimum range from 6.5 to 8.5 standard units (SU). The final average value for the septic tank effluents (GHFCW influent) was 5.1 SU (lowest

value was 3.9 and the higher value was 6.2); which is a value located more toward the acid side of the pH scale.

Phosphorus is considered a nuisance and its presence on surface water can allow an excessive grown of algae that consume the oxygen, forming eutrophic ecosystems. The GHFCW used in this case study reached 65% removal efficiency reducing TP concentration from 5.2 mg/L in the inlet to 1.8 mg/L at the outlet. According to [18], constructed wetlands do not remove significant quantities of phosphorus, except if special media with high phosphorus adsorption capacity is used but this could generate an additional cost if it is not locally available. Typically, horizontal flow constructed wetlands remove 40% to 60% of phosphorus [19]. In addition, the support material used in CWs has been shown as a key element to phosphorus removal, and it has been compared in different studies. Gravel did show the lowest phosphorus removal efficiency (21%) followed by ironstone and hornblende both with a 33% efficiency [3]. A mixture of sand and dolomite reached a removal efficiency of 45% for phosphates [4]. A constructed wetland equipped with a calcite filter showed 62% phosphorus removal efficiency. The removal in the calcite filter was initially good, but after three months all P-filters were saturated [20]. Garcia-Perez, A. et al. [21] reported 76% for phosphorus removal using gravel as substrate, however they used a recirculating vertical flow constructed wetland growing and harvesting corn, a crop commodity that specifically uses large amount of phosphorus during the growing season. Iron-rich volcanic rock used as support material reached 81% phosphorus removal [17]. The high efficiency to removing phosphorus (65%) reached by the GHFCW used in this case study can be explained by the presence of metals, specifically the iron from the exposed wires of the tire chips. Any phosphorus present in the sewage could have reacted with the iron creating insoluble phosphorus compounds. The precipitation and sequestration of those phosphorus compounds within CWs using support media rich in iron has also being reported by others researchers [22-24].

During this study, the iron concentration increased from the normal 2 mg/L in the septic tank to 55 mg/L at the GHFCW effluent. Concentration of iron up to 22.6 mg/L from water collected within monitoring wells installed around septic leach fields using tire chips as media has been reported [6]. Wires of the recycled shredded-tire chips can be considered a good source for iron as a typical passenger tire is composed approximately of 10 to 15 percent of ferric material [24]. Potassium was measured considering the potential negative effect of high salt concentration on soil. Studies showing the efficiency of constructed wetlands to remove potassium from wastewater are limited. Thus, this datum (36% removal efficiency) is significant to show that constructed wetlands can also remove potassium. The concentration of potassium in effluents from domestic wastewater sources ranges from 18 to 57 mg/L [25].

4. Conclusions

The three-year case study monitoring the discharged effluent from the constructed wetland suggests that using recycled shredded-tire chips as support material performed well. The efficiency removal after three-year operation was high for TOG (99%), EC (97%), BOD₅ (92%), AN (87%), and TSS (69%). Nitrate-N final mean value was consistently below 1 mg/L. Iron concentration increased, and removal efficiency for phosphorus reached 65%. For this specific case study, a continue good performing and life expectancy of the CWs as a functional sewage treatment system is unknown

considering the daily volume (>2124 LPD) of high-strength wastewater passing through the wetland cell. Also, this GHFCW was not designed to treat this type of sewage. It was only used to test the performance of recycled shredded-tire chips as support material to treat sewage. These results indicated that recycled shredded-tire chips could be an environmental local alternative to river stone or other local material as support material in constructed wetlands. The efficiency to removing typical wastewater contaminants is not compromised. Similar to any new testing technology, early applications of recycled shredded-tire chips in constructed wetlands will serve as the initial baseline point for improvement, refining and developing better future generations of the proposed system to treat sewage onsite.

Acknowledgments

The authors would like to thank to the LaGrange County Board of Health, LaGrange, Indiana for the support of the constructed wetland program to treat sewage onsite as a mechanism to improve and protect the groundwater supplies. Also, we thank to the "anonymous" reviewers and the editorial team for their comments and suggestions to improve the manuscript.

Author Contributions

Alfredo García-Pérez, Mark Harrison, Craig Chivers and Bill Grant contributed to the design of the case study, analysis, interpretation of the results, and/or preparation of the manuscript. Additional contributions included the water sampling and data collection from the field, which they were performed by Alfredo García-Pérez, and Craig Chivers. Mark Harrison, Craig Chivers and Bill Grant provided additional reviews and proof reading for any changes regarding comments and/or reviews. Alfredo García-Pérez was the corresponding author keeping co-authors informed about the reviews and comments from the referees and the editorial office, plus updating the manuscript as required.

Conflicts of Interest

The authors declare no conflict of interest.

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ANNUAL FOOD ACTIVITIES REPORT 2015

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Submitted by:

Jarod Nisley

Environmental Health Specialist

PROPOSED NE CHAPTER IEHA PROGRAM 2014-2015

September 18 2014	Blackford County	1. Blue/Green Algae Bloom Shawna Feinman 2. Norovirus-Erica Pitcher	1 Rob 2 Rich
October 20 2014	Elkhart County	1. Rocket Science Ice Dream-TBD	1 Rob
		2. MS4-IDEM	2 Craig
November 20 2014	Grant County	1. Rabies Lab/Info-ISDH	1 Judy
		2. Weaver Popcorn	2 Linda
December 18 2014	Huntington County	1. Env Remediation Serv-Mercury	1 Judy
		2. Food Truck Assoc-Jim Goodwin	2 Rob
January 15 2015	Jay County	"Roof Solutions Co"-interior Wall/ceiling const. materials	1 Linda
		2. Methane-a families experience	2 Rob
February 19 2015	Kosciusko County	1. Meth Lab Updates	1 Linda
		2. Food Updates-ISDH	2 Judy
March 19 2015	LaGrange County	Perkin Elmer Lab-new testing Instrument for food,water,etc	1 Craig
		2. Honey Producer	2 Craig
April 16 2015	Whitley County	1. Steel Dynamics-environmental	1 Rob
	River Cleanup	2. BOAH-food topic TBD	2 Linda
May 21 2105	Miami County	1. Aquaponics-Food	1 Rich
		2. Chikungunya Virus	2 Rich
June 18 2014	Noble County	1. Personal Safety-defusing	1 Judy
		Confrontational people 2. Farmer's Market 3. Produce Update	2 Judy
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I.E.H.A. NORTHEAST CHAPTER MEETING

Thursday March 19, 2015

Fireside Café 300 S. Van Buren St. (S.R. 5) Shipshewana, IN LaGrange County

9:00 - 10:00 Coffee, Donuts, & Healthy Alternative

10:00 – 11:00 Craig Chivers – Environmental Health Specialist LaGrange County Health Department, Retired "Raw Milk Cheese"

11:00 - 11:15 Break

11:15 – 12:00 Jeremy Snowden – Director of Information Technology Vigo County "Indiana's First iPad/Cloud Environmental Health Software-iToss and CodePal"

12:00 - 1:00 Lunch

1:00 - ? Business Meeting

PLEASE MAKE SURE THAT ALL IEHA MEMBERS IN YOUR OFFICE RECEIVE A COPY OF THIS NOTICE.

Members are requested to stay at the meeting site for lunch so that the Room is not charged to the chapter.

**** Contact Craig Chivers cell: 260-239-8220 if you need directions *****

Immunization Project Improvement Plan

Update - December 2015

The goal of the Immunization Project Improvement Plan is to increase the immunization rate of residents of LaGrange County with a focus on infants during the first six months of life. "Branding" the health department as a safe, friendly, and trusted entity is of high importance. The Beautiful Child marketing campaign will exemplify how communities work together to nurture our county's children.

- Immunization data will continue to be collected on all infants both born and residing in LaGrange County. Michelle Tennant completed the 2013 statistics. Immunization data entry for infants born in 2014 is in process. Data entry of 2015 births has been updated weekly.
- The Excel spreadsheet containing the 2014 and 2015 data can be found by first accessing the county's shared files. Next, choose the Immunization Improvement Project folder. Finally, click on Immunization Records 2014-2015. This is the most up-to-date file.
- The child's demographic information is documented from the certificate of live births, which is
 then filed and stored in the cabinet. Immunization information is access via CHIRP.
 Immunizations for this project's purposes are only entered if they were given before the child
 was 8 months old. Any immunization received on or after the date the infant turns 8 months old
 is considered "late" and not entered.
- The immunization data is color-coded. Immunizations that the child has not received are highlighted RED. If a child is not in the CHIRP system, the immunizations are highlighted YELLOW. PURPLE highlighted areas indicate that further investigation is required, such as suspected data entry error in the CHIRP system or an unneeded immunization given.
- Infants will be grouped into 4 categories: 1.) Fully immunized, 2.) Incomplete immunizations, 3.) No immunizations, and 4.) Not in CHIRP.
- A survey was sent out to parents of babies born in 2013. Data from these surveys was difficult to work into statistics because two different versions of the survey were mailed. Dr. Pechin clarified that he was not particularly interested in the survey results; they primarily served as a reminder for parents and a marketing tool for the health department. A summary of the comments derived from these surveys are located in the Immunization Project packet.
- A survey for babies born in 2014 was drafted and sent to Dr. Pechin for review on October 23, 2015. Revisions were made and it was sent back to him for approval on November 12, 2015.
 This file is called "LCHD Immunization Survey 2014 births" and is located in the shared files.
- It was decided at the October 2015 team meeting to create and order greeting cards as part of the Beautiful Child marketing campaign. Cards would contain the photo/logo on the front and a brief message about the "beautiful child" on the inside. Health department nurses could sign and send the cards to families as a thank you note or other greeting. A quote from LaGwana Printing Inc. was obtained on 10/23/15. The quote was forwarded to Dr. Pechin on 10/23/15. The budget for this project was not determined.

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24	PERCENT	13.6	14.1	13.2	12.8	14.0	12.9	11.1	12.4	11.6	14.1	16.9	15.4	
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MIS - Reported Participation Monthly Indiana State Department of Health Month Of December, 2015

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	Andiana State Det nent of Health Kun Dz 10/06/2013	nent of frealth Run Dz rticipation Monthly Run Time:	rate Del	MIS - Reported Participation Monthly Month Of September, 2015 Appearance County WIC Program	### Table Del. Dec. Dec.	### LaGrange County WIC Program ### LaGrange County WIC Program ### OCT14 NOV14 DEC14 JAN15 FEB15 MAR15 APR15 MAY15 JUL15 AUG15 SEP15 #### LaGrange County WIC Program #### C/O	### Application Monthly ### LaGrange County WIC Program OCT14 NOV14 DEC14 JAN15 FEB15 MAR15 APR15 JUL15 AUG15 SEP15 CO C/O C/O C/O C/O C/O C/O C/O C/O C/O C	### Holiana State Def. Ment of Health Month of September, 2015 ### LaGrange County WIC Program Month Of September, 2015 Page: Page	MIS - Reported Participation Monthly MIS - Reported Participation Monthly MIS - Reported Participation Monthly Month Of September, 2015 Page: April Month Of September, 2015	### High Proported Participation Monthly Month Of September, 2015 Page: House House	MIS - Reported Participation Monthly MIS - Reported Participation Monthly Month Of September, 2015 Month Of September, 2015 Page: Annih Of Septe	MIS-Reported Participation Monthly MIS-Reported Participation Monthly MIS-Reported Participation Monthly Month Of September, 2015 Page: Page:	### HIGH AND September, 2015 ### LaGrange County WIC Program OCT14 NOV14 DEC14 JAN15 FEB15 MAR15 APR15 MAY15 JUN15 JUL15 AUG15 SEP15 -TOTAL 24 22 25 22 19 17 13 13 17 15 22 19 PERCENT 28 5.6 6.0 5.4 5.3 4.7 3.5 3.7 4.8 4.1 6.1 5.4 WN PERCENT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MIS - Reported Participation Monthly Month Of September, 2015 Page: A control of the participation Monthly Page: A control of the participation Monthly Page: A control of the page Page: A control of the page	Main Mis Reported Participation Month s Min Mis Reported Participation Month s Min Mis Reported Participation Month s Month Of September, 2015 Page: 4	MIS - Reported Participation Monthly MIS - Reported Participation Monthly	MIS-Reported Participation Monthly Month Of September, 2015 Month Of	Month of September, 2015 Month of September,	Month of September, 2015 Month of September,	MIN PERCENT MIN MIN	Month Of September, 2015 Page: Honozad Participation Monthly Month Of September, 2015 Page: Honozad Participation Monthly Page: Honozad Page:	Month of September, 2015 Month of September,

Indiana State Department of Health	MIS - Reported Participation Monthly	Month Of December, 2015
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LaGrange County WIC Program

Local Agency 49

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LaGrange County WIC Program

Local Agency 49

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MIS - Reported Participation Monthly Indiana State Department of Health Month Of December, 2015

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Vital Statistics Report Deaths 2013, 2014, 2015

2013

		2010		
DEATHS	MALE	FEMALE	FETAL	
J	9	15		
F	4	12		<u> </u>
M	12	4		
A	6	8		
М	8	9	2	
J	7	10		
JUL	10	7		
A	7	7		
S	8	5	1	
0	11	6	11	
N	3	15		
D	14	13	1	
TOTAL	99	111	5	215

2014

DEATHS	MALE	FEMALE	FETAL DEATHS
J	16	7	1
F	13	12	1
M	9	6	1
Α	6	3	1
М	16	8	0
j	11	8	0
JUL	6	4	0
Α	8	5	1
S	8	2	0
0	14	9	0
N	8	7	1
D	8	5	0
TOTAL	123	76	199 6

2015

					~
DEATHS	MALE	FEMALE	TOTAL	FETAL	
J	10	14		0	
F	8	12		0	
М	8	12		1	
A	8	4 ·		2	1 from 2014
М	13	13		1	1 from 2014
J	8	8		1	
JUL	7	14		1	
Α	8	10		1	
S	11	7		0	
0	10	10		1	
N	10	10		0	
D	8	7		11	
TOTAL	109	121	230	9	
			1	Wrong (County put in

231

Wrong County put in LaGrange C
Total Death Certificate Count

Respectfully Submitted: Kelly Bills

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LAGRANGE CO GOVT

Period Ending Date: December 31, 2015

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LAGRANGE CO GOVT

Period Ending Date: December 31, 2015

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Current Fund Balance

Period Ending Date: December 31, 2015

Fund Range: 1159 - 1159

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DEPARTMENT HEAD BUDGETARY STATUS

nd 1168 LOCAL HEALTH MAINTENANCE

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LAGRANGE CO GOVT

Period Ending Date: December 31, 2015

Balance Actual Year-to-date Actual Total Amended Amendments

14.65 75.00 1,310.41 367.33 299.42 2,152.48 208.65 134.01 2,152.48 1,400.00 1,400.00 1,400.00 663.02 480.05 Current Budget 2,856.97 0 2,536.98 1,710.350 4,264.59 19.95V 132.67^V 0.00 4,247.52 1,020.00 500.58 65.99 0.00 4,247.52 + 991.35 15,400.00 15,400.00 15,400.00 Current 513.88 0.00 0.00 575.70 75.00 0.00 0.00 303.74 303.74 179.45 0.00 0.00 0.00 124.29 1,400.00 1,400.00 1,400.00 Month-to-date 5,575.00 0.00 3,000.00 1,725.00 6,400.00 6,400.00 500.00 500.00 800.00 200.00 0.00 1,095.00 16,800.00 1,200.00 3,200.00 16,800.00 Current Year 16,800.00 0.00 225.00 -500.00 195.00 -425.00 -500.00 -500.00 300.00 0.00 -200.00 0.00 0.00 200.00 0.00 0.00 -800,00 Net Budget 6,000.00 500.00 3,000.00 6,900.00 900.00 1,500.00 500.00 200.00 200.00 6,900.00 16,800.00 500.00 500.00 1,000.00 4,000.00 Current Year Appropriated 16,800.00 16,800.00 nd 1168 LOCAL HEALTH MAINTENANCE 30-02-2022 REPAIR & MAINTENANCE SUPPLIES ategory 3 Other Services and Charges MEDICAL WASTE DISPOSAL rsonal Services Acct Cat Total 00-02-2034 BACTERIA LABORATORY 00-02-2020 GAS, OIL, LUBRICANTS 00-02-2030 COMPUTER SUPPLIES tegory 1 Personal Services 00-02-2040 REFERENCE BOOKS 0-01-1522 HEALTH INSURANCE upplies Acct Cat Total)0-02-2010 OFFICE SUPPLIES 00-03-3001 LEGAL SERVICES 2015 00-02-2021 TIRES & TUBES tegory 2 Supplies 100-03-3010 TELEPHONE Account Name)00-03-3013 POSTAGE)00-03-3020 PRINTING count Number xpenses Total partment 000 penses Total 000-03-3014 cal Year xpenses sesued penses

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partment

Period Ending Date: December 31, 2015

LAGRANGE CO GOVT

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Account Name	Budget		Budget		Actual		
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3-03-3045 BUILDING MAINTENANCE	1,000,00	000	000000		4,031.00	0.00	
0-03-3050 EQUIPMENT REPAIR / MAINTENANCE	200'00	-50.00	450.00	8 8	407.12	532.88	
0-03-3051 SOFTWARE SUPPORT	800.00	2 G	00.00		7.00.0	450.00	
0-03-3054 VEHICLE MAINTENANCE	1,000.00	164 00	1.164.00	19.97	4 494.95	305.04 820.25	
0-03-3081 SEMINARS & TRAINING	500.00	0.00	200.00	00.0	406.37	93.000 93.63	
tpenses Total	22,200.00	966.68	23,166.68	2,613.31	18,796.79	4,369.89	
ther Services and Charges Acct Cat	22,200.00	966.68	23,166.68	2,613.31	18,796.79	4,369.89	
itegory 5 Capital Outlays							
sesued							
)0-04-4010 EQUIPMENT, FURNITURE, FILES	900.00	-271.68	228.32	00 0	1. 24.85	103 47	
xpenses Total	500.00	-271.68	228.32	0.00		193.47	
apital Outlays Acct Cat Total	500.00	-271.68	228.32	0.00	34.85	193.47	
Jept Total	46,400.00	195.00	46,595.00	4,317.05	38,479.16	8,115.84	
xpenses Fund Total	46,400.00	195.00	46,595.00	4,317.05	38,479.16	8,115.84	
et (Rev/Exp)	46,400.00	195.00	46,595.00	4,317.05	38,479.16	8,115.84	
Beginning/Adjusted Balance 117,124.68 +	YTD Revenues 33,139.00	YTD Expenses . 38,479.16	II	Current Fund Balance 111,784.52			
irand Total for Expenses	46,400.00	195.00	46,595.00	4,317.05	38,479.16	8,115.84	
rand lotal Net Kev/Exp	46,400.00	195.00	46,595.00	4,317.05	38,479.16	8,115.84	

Balance Current Budget

Year-to-date Current

Period Ending Date: December 31, 2015

LAGRANGE CO GOVT

Month-to-date Actual

Current Year Total Amended

Budget

UEPAKIMENI HEAD BUDGETARY STATUS

d 4105 IMMUNIZATION DONATION

artment

Net Budget Amendments Current Year Appropriated

Budget

nd 4105 IMMUNIZATION DONATION 2015 Account Name count Number cal Year

tegory 2 Supplies partment 000

benses

0-02-2010 IMMUNIZATION SUPPLIES

0-02-2011 PROMOTIONAL SUPPLIES 0-02-2012 OFFICE SUPPLIES

0-02-2014 DIGITIZATION SOFTWARE

0-02-2017 NURSE'S SUPPLIES

10-02-2030 VACCINES

)0-02-2040 UNIFORMS

penses Total

ategory 3 Other Services and Charges upplies Acct Cat Total

00-03-3010 TELEPHONE cpenses

00-03-3012 TRAVEL / MILEAGE

00-03-3013 POSTAGE

00-03-3014 MEDICAL WASTE

00-03-3020 PRINTING

00-03-3081 SEMINARS & TRAINING

xpenses Total

Other Services and Charges Acct Cat ategory 5 Capital Outlays

300-04-4010 EQUIPMENT

expenses

1,500.00

1,500.00

3,000.00

0.00

402.31

108.35

691.65 5,301.76

431.75

5,737.00 5,737.00

800.00

300.00 437.00 437.00

500.00

5,300.00 5,300.00

0.00

435.24 435.24

5,301.76

431.75

48.88

1,451.12

272.00

,500.00

0.00

1,500.00

0.25

516.75

39.75

517.00

17.00

500.00

10.72

1,289.28

0.00

1,300.00

0.00

1,300.00

0.00

120.00

120.00

120.00

120.00

0.00

267.04

1,232.96

0.00

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1,500.00

7,975.35

7,975.35

12,087.65 12,087.65

500.00

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0.00 555.97 555.97

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20,063.00

-1,937.00

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0.00

6,500.00

262.83

1,437.17

276.40

1,700.00

700.00

1,000.00

2,730.87

2,069.13

279.57

4,800.00

-4,200.00

9,000.00

1,567.80

995.20

0.00

2,563.00

437.00

3,000.00

102.00

1,898.00

0.00

2,000.00

2,000.00

0.00

220.87

1,779.13

0.00

2,000.00

0.00

2,000.00

2,597.69

GOVT

Report: Rbudsia2.rpt 2 of 2

LAGRANGE CO GOVT

-und 4105 IMMUNIZATION DONATION

Jepartment

S C . INVOIS

Period Ending Date: December 31, 2015

	Current Vear					
Account Number	Appropriated	ļ	Current Year	Month-to-date	Current	Current Budget
Account Name	Budget	Amendments Tot	Total Amended Budget	Actual	Year-to-date	Balance
)00-04-4011			ا 		Actual	
HEALTH DEPARTMENT REMODEL	C					
Expenses Total	1 500 00	20,000.00	20,000.00	0.00	0.00	20.000.00
Sapital Outlays Acct Cat Total		71,500.00	23,000.00	0.00	2,597.69	20.402.31
	1,500.00	21,500.00	23,000,00			
Dept Iotai	28,800.00	20 000 00		00.0	2,597.69	20,402.31
Expenses Fund Total	28 800 00	20,000,00	48,800.00	987.72	19,987.10	28,812.90
let (Rev/Exp)	20.000.00	20,000.00	48,800.00	987.72	19,987.10	28.812.90
	26,600.00	20,000.00	48,800.00	987.72	19.987.10	20 843 00
Beginning/Adjusted Balance	YTD Revenues	YTD Expenses	i.			70,012.30
51,718.89	+ 19,400.18	19,987.10		Current Fund Balance 51,131.97		
Frand Total for Expenses	28,800.00	20 000 00				
Frand Total Net Rev/Exp	28,800.00	20 000 00	48,800.00	987.72	19,987.10	28,812.90
			40,000.00	987.72	19,987.10	28,812.90

Period Ending Date: December 31, 2015

Fund Range: 4105 - 4105

'arameters:)perator: CASSY

DEPARTMENT HEAD BUDGETARY STATUS

LAGRANGE CO GOVT

ind 9110 TOBACCO SETTLEMENT

:19AM

partment

Period Ending Date: December 31, 2015

Month-to-date

433.76 433.76 432.16 0.0 1.60 14,164.24 200.00 200.00 200.00 14,164.24 14,164.24 13,530.48 3,530.48 0.00 766.80 200.87 179.33 12,383.48 Current Budget 8,992.26 8,992.26 193.86 20,608.54 20,608.54 20,608.54 0.00 0.00 2,000.00 6,798.40 154.13 0.00 154.67 11,616.28 661.20 11,616.28 6,500.00 4,146.28 Current Year-to-date Actual 1,307.56 1,307.56 1,307.56 520.00 520.00 0.00 0.00 0.00 0.00 520.00 787.56 0.00 787.56 500.00 218.28 44.59 14.25 10.44 Actual **Current Fund Balance** 9,426.02 9,426.02 34,772.78 34,772.78 34,772.78 626.02 200.00 200.00 2,000.00 5,800.00 25,146.76 200.00 334.00 355.00 25,146.76 Current Year 16,529.76 1,428.00 6,500.00 Total Amended Budget YTD Expenses 626.02 626.02 626.02 0.00 3,426.02 3,426.02 626.02 2,800.00 0.00 -2,800.00 -2,800.00 0.00 Net Budget Amendments 0.00 2,800.00 0.00 0.00 0.00 0.00 YTD Revenues 34,146.76 6,000.00 34,146.76 34,146.76 0.00 2,000.00 4,000.00 6,000.00 355.00 334.00 25,146.76 25,146.76 3,000.00 3,000.00 3,000.00 1,428.00 6,500.00 16,529.76 Appropriated Current Year Budget Other Services and Charges Acct Cat ategory 3 Other Services and Charges IND 9110 TOBACCO SETTLEMENT 000-03-3001 CONTRACT FOR SERVICES ersonal Services Acct Cat Total Beginning/Adjusted Balance 300-03-3002 MOBILE MAMMOGRAPHY stegory 1 Personal Services 00-02-2011 GENERAL SUPPLIES supplies Acct Cat Total 30-01-1002 ASSISTANT NURSE Expenses Fund Total 00-01-1523 UNEMPLOYMENT 00-01-1001 ADMINISTRATOR 000-03-3021 ADVERTISING ategory 2 Supplies Account Name 00-01-1525 MEDICARE spartment 000 Expenses Total scount Number xpenses Total xpenses Total Net (Rev/Exp) 30-01-1520 Dept Total scal Year sasuadx :xpenses cpenses

194,606.55

20,608.54

21,910.64

193,304.45