



MID-MICHIGAN DISTRICT HEALTH DEPARTMENT

An Accredited Local Public Health Department

www.mmdhd.org

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MARK W. (MARCUS) CHEATHAM
Health Officer

ROBERT GRAHAM, DO, MPH, FAAFP
Medical Director



BOARD OF HEALTH
Bruce DeLong
Jack A. Enderle
Betty Kellenberger
Jane Keon
Tom Lindeman
Laura McCollum

**BOARD OF HEALTH
REGULAR MEETING**
At
Mid-Michigan District Health Department
Gratiot County Branch Office
Ithaca, Michigan

Wednesday, September 24, 2014
10:00 AM

AGENDA

*We take action to assure the health and well being of our community and the environment
by responding to public health needs and providing a broad spectrum
of prevention and educational services.*

Pledge of Allegiance

Flu shots might be available for Board of Health members (depending on the arrival date of the vaccine) -- wear short sleeves and bring your insurance card(s) if you would like a vaccination.

A. AGENDA NOTES, REVIEW, AND REVISIONS:

1.

B. CONSENT ITEMS:

1. Meeting Minutes

- a. Mid-Michigan Health Plan Advisory Board Meeting held August 21, 2014 - **Attached.** 4
- b. Mid-Michigan District Board of Health Regular Meeting held August 27, 2014 - **Attached.** 9
- c. Mid-Michigan District Board of Health Closed Session held August 27, 2014 - **Handout.**
- d. Mid-Michigan District Board of Health Personnel Committee Closed Session Meeting held September 17, 2014 - **Attached.**

2. Mid-Michigan District Board of Health Personnel Committee Meeting held September 17, 2014 - **Attached.** 16

3. Communications

*Your Public Health Team,
Connecting with our Communities to Achieve Healthier Outcomes.*

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2. Personnel Committee	
a. Consider Acceptance of Teamsters Local 214 Ratified Contract - Handout.	
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4. Mid-Central Coordinating Committee	
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1. "Michigan Hospitals Placed on Alert for Enterovirus", <i>Gannett Michigan</i> , September 9, 2014; http://www.lansingstatejournal.com/story/news/local/michigan/2014/09/08/enterovirus-may-already-michigan/15304037/	
2. "Air is Still Contaminated 40 Years After the Michigan Chemical Plant Disaster in St. Louis, Michigan", <i>Environmental Science & Technology</i> , September 11, 2014 - Attached.	60

M. AGENCY NEWSLETTERS: - **Attached.**

1. "Inside MMDHD", *Health Enhancement Committee (HEC)*, September 2014



Mid-Michigan Health Plan Advisory Board

Mid-Michigan Health Plan

Serving Clinton, Gratiot, and Montcalm Counties

MEETING MINUTES

Carson Health

Thursday, August 21, 2014

9:00 a.m.

Members Present: Mark W. (Marcus) Cheatham, Ph.D.; Kent Schulze; Craig Zeese; Bob Ferrentino; Mark Santamaria; and Richard Reid

Absent: Colleen Hogle, Barb Zumsteg, Randy Flechsig, Dan Petersen

Staff Present: Robin Reynolds, Executive Director, Ingham Health Plan Corporation (IHPC); Andrea Tabor, Health Services Administrator; Cindy Partlo, Administrative Assistant for the Mid-Michigan District Health Department

A. **WELCOME AND INTRODUCTIONS; AGENDA REVIEW AND REVISIONS**

M. Cheatham called the meeting to order at 9:03 a.m. He reviewed the Agenda and asked for revisions and/or additions. There were none.

B. **APPROVAL OF MINUTES – May 15, 2014**

Motion made by R. Reid and seconded by K. Schultz to approve the Mid-Michigan Health Plan Advisory Board Meeting Minutes from May 15, 2014 as presented. Motion carried.

C. **MAINTAIN AND INCREASE FUNDING**

1. Financial Highlights

M. Cheatham reviewed the Financial Highlights noting that for Plan A there was a deficit of \$126,424 due to higher than budgeted medical claims and utilization. R. Reynolds stated that the deficit should decrease as claims run out.

For Plan B, there was a small surplus of \$32,287. Plan B medical and pharmacy pmpm was lower than budgeted. Overall, the plan had a deficit of \$94,137.

For enrollment, M. Cheatham indicated that Plan A no longer exists. Plan B enrollment was budgeted at 300 members; however, only had 11 members in June. The MMHP had a fund balance of \$755,382.

2. Marketplace and Healthy Michigan Plan Update

M. Cheatham stated that the agency enrolled over 5,000 individuals within the three-county district in the Healthy Michigan Plan (HMP). He added that Montcalm and Gratiot Counties exceeded the state average for enrollment in the HMP. K. Schultz reported that the Department of Human Services is still enrolling noting that the process was being automated for their staff. R. Reynolds reported that 1,000 phone calls per hour are still being received at the enrollment center. Staff was added to take the numerous calls. She also added that the waiver was still pending approval by the Federal government for the cost share. M. Cheatham summarized that originally the health department district had over 16,000 uninsured in our three-county district. The MMHP provided a benefit to 1,000 of those 16,000 uninsured. As stated previously, about 5,000 of those are now on the HMP and 1,000 have signed up on the Marketplace; noting that there are still uninsured individuals in our three-county district. A. Tabor stated that she attended a recent state meeting where they indicated that as of July 11 2014, there were 355,700 individuals enrolled in the HMP; about 50% were men and 50% were women, and 45% of them were between 19-35 years of age.

3. FY 14/15 Budget

M. Cheatham reviewed the FY 14/15 Budget noting a dramatic decrease in hospital funding from previous years of \$1,600,000 to \$244,223. He mentioned that \$110,000 was included for Community Health Workers (CHWs) in the Pathways. A. Tabor indicated that the agency has funding for the Clinton County CHW through September 2015. K. Schultz added that for Clinton County, it appears there is already a need for another CHW.

A. Tabor reported that Shelly McPherson has been seeing clients since the middle of June and reported that the average caseload for a CHW is 40-45. After a Project Connect event, she has a caseload of 43 and handed out 100 brochures to interested individuals. A. Tabor shared a success story from one of Shelly's clients. K. Schultz stated that he cannot state enough good things about Shelly and the work she is doing.

M. Cheatham added that with three CHWs, the health department could serve 750 individuals (250 x 3) annually. He indicated that the agency's business model was based on our agency serving 1,000 individuals district-wide. He reported that if that led to a modest 10% reduction in ER usage, which might save the hospitals \$1,000,000. He stated the agency was getting close to the model of serving 1,000 individuals; however, expressed that more than three CHWs would eventually be needed.

R. Reid mentioned that he thought the hospital funding was going away. R. Reynolds indicated that the legislature extended the funding through December 2014 and that the IHCP would partner with Sparrow for the MMHP. She indicated that Carson Health's assistance would not be needed for the hospital funding because of the decreased amounts available. She thanked Carson Health for their participation in the program.

Motion made by K. Schultz and seconded by M. Santamaria to approve the FY 14/15 Budget as proposed and recommend approval by the IHPC full Board. Motion carried.

D. MAINTAIN AND IMPROVE SERVICE

1. Enrollment/Eligibility Criteria

R. Reynolds explained that those needing enrollment now are individuals that didn't sign up for the Marketplace but were eligible, those without coverage, and non-citizens (here illegally or legally). A. Tabor added that those that were eligible for the Marketplace but didn't sign up were asked to sign a statement that they understand they could enroll in the MMHP, but once the MMHP was phased out in December 2014, they would need to sign up on the Marketplace. R. Reynolds added that the role of the health department staff would be to assist these individuals with getting coverage.

2. Pathways to Better Health Community Health Worker (CHW) Update

M. Cheatham explained the Pathways and stated that the data included on the attachment covered the Pathways in Saginaw, Ingham, and Muskegon. M. Cheatham stated that data from Shelly's work was not included because she has only been in the position for two months. He reviewed chronic conditions, noting that depression is the highest condition at 41.3%. K. Schultz stated that he wanted to know when another CHW could be hired for Clinton County. M. Cheatham explained that there is a reimbursement mechanism in place to help sustain the program that would begin around June 2015. R. Reynolds indicated that the funding would not totally cover the cost of a CHW; however, could supplement the cost. M. Cheatham added that for the near future, supplemental funding could come from the MMHP fund balance to support CHWs.

M. Cheatham stated that the most common medical referral in the Pathways was to a primary care physician. For social service, the most common pathway was the need for transportation. R. Reynolds added that the role of the multi-purpose collaborative bodies would be to address these social service needs. She indicated that the health department would have its own data on the clients that Shelly receives in order to address the various needs.

3. Proposed HUB for Gratiot/Montcalm Counties

M. Cheatham stated that the MMHP is transitioning out of the health plan business. He discussed the transition to the Gratiot/Montcalm HUB and indicated that there was confusion in what to call the HUB as there is a MidMichigan Health, Mid-Michigan District Health Department and Masonic Pathways. He discussed using the Gratiot Collaborative Council and the Montcalm Human Services Coalition as oversight for the Gratiot/Montcalm Pathways. Additionally, he discussed including the Tiger Team in the CHW process. He also discussed the value of retaining the MMHP Advisory Board to

provide recommendations and guidance for use of the remaining fund balance. R. Reynolds indicated that the Ingham Health Plan Corporation could hold the money or the health department could hold it. M. Cheatham stated that he would discuss the holding of the money with the agency's Director of Administrative Services and advise Robin of their decision.

M. Cheatham stated that the CHW does not have to be a health department employee; the health department could provide a grant to another agency, such as the Montcalm Community College or EightCap to house the CHW. B. Ferrentino stated that EightCap is now located at the Barn theatre area on campus; however, there is no room to house a CHW, although he is very interested in doing so. He indicated that he would check to see if a location could be provided on campus. C. Zeese expressed a strong desire not to locate the CHW at community mental health. He explained that there is such a stigma associated with community mental health that people would not go there to see a CHW. R. Reynolds explained how the CHWs are based in Ingham and indicated that it has been a good fit everywhere they were placed.

R. Reynolds explained some of the problems with placement such as supervision through the placement agency and supervision through Andrea. In hindsight, she stated that Ingham Pathways didn't communicate as well as it should have with the placement agency supervisor. A. Tabor added that she could ask the Tiger Team their thoughts about where to house the CHWs. R. Reynolds stated that if preferred, the CHWs could be hired by the health department, but housed at an agency.

Motion made by K. Schultz and seconded by B. Ferrentino to recommend the Mid-Michigan District Health Department hire two CHWs for Gratiot and Montcalm Counties, effective October 1, 2014. Motion carried.

E. IMPROVE COMMUNITY AWARENESS

1. Future Governance Structure of MMHP

M. Cheatham stated that since the health plan was transitioning into a different model, the future structure and value of the MMHP Advisory Board was discussed. M. Santamaria indicated that it appears that the staff with "boots on the ground" experience needs to be a part of the group. He also suggested retaining the MMHP Advisory Board and to call an ad hoc meeting as needed. R. Reid indicated the importance of a hospital representative on the Board.

M. Cheatham indicated that he needs to interface with ED staff and specialty staff to assist the CHWs; however, that is not the role of the MMHP Advisory Board.

After discussion, all members agreed to meet one more time this year before handing off to the collaborative councils for oversight of the Gratiot/Montcalm Pathways. K. Schultz indicated that there was still a need

for the MMHP Advisory Board. C. Zeese stated that the Board of Health could possibly act in this capacity. He also suggested that this topic be discussed again at the next meeting. M. Cheatham stated that he would have data regarding the Gratiot/Montcalm Pathways in about six months and could call a meeting at that time. After discussion, R. Reid suggested that the MMHP Advisory Board meet in November and six months after the November meeting.

F. **MAINTAIN AND IMPROVE PROVIDER RELATIONSHIPS**

G. **OTHER BUSINESS**

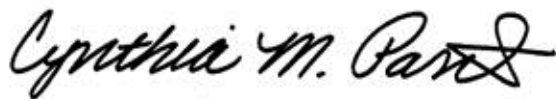
H. **NEXT MEETINGS**

1. Thursday, November 20, 2014, 9 a.m. at the Carson Professional Building, 2nd floor, room C.

Action Items		
Task	By Whom	By When
Let Robin know if MMDHD would like to hold the MMHP funds or if IHPC should continue to hold it.	M. Cheatham/M. Bowerman	10/1/14
Check to see if there was a spot to house a CHW on the MCC Campus	B. Ferrentino	11/20/14
Talk to the Tiger Team about CHWs for Gratiot/Montcalm Pathways and where to house them; name for the Pathways.	A. Tabor	11/20/14
Add future structure of MMHP Advisory Board to the November Agenda	C. Partlo	11/1/14
Schedule meeting for May 2014 and send reminder	C. Partlo	3/27/15

There being no further business to come before the Board, the meeting adjourned at 10:58 a.m.

Respectfully Submitted,



Cynthia M. Partlo
 Administrative Assistant on behalf of
 Mark W. (Marcus) Cheatham, Ph.D., Chairperson
 Mid-Michigan Health Plan Advisory Board



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MARK W. (MARCUS) CHEATHAM
Health Officer

ROBERT GRAHAM, DO, MPH, FAAFP
Medical Director



BOARD OF HEALTH
Bruce Delong
Jack A. Enderle
Betty Kellenberger
Jane Keon
Tom Lindeman
Laura McCollum

BOARD OF HEALTH REGULAR MEETING

at

Mid-Michigan District Health Department
Clinton County Branch Office
St. Johns, Michigan

Wednesday, August 27, 2014
10:00 a.m.

MINUTES

*We take action to assure the health and well being of our community and the environment
by responding to public health needs and providing a broad spectrum
of prevention and educational services.*

Members Present: Jack A. Enderle, Tom Lindeman, Betty Kellenberger, Jane Keon, Laura McCollum, Chairperson and Bruce Delong, Vice Chairperson

Members Absent: None

Staff Present: Mark W. (Marcus) Cheatham, Ph.D., Health Officer; Melissa Bowerman, Director of Administrative Services; Robert Graham, DO, MPH, FAAFP, Medical Director; Cindy Partlo, Board Secretary; Bob Gouin, Director of Environmental Health (*arrived at 11:05 a.m.*); and Andrea Tabor, Director of Community Health & Education; Jennifer Stratton, Supervisor for Community Health and Education (*arrived at 11:05 a.m.*)

Staff Absent: None

Guests: None

L. McCollum, Chairperson called the regular meeting of the Mid-Michigan District Board of Health to order at 10:07 a.m., on Wednesday, August 27, 2014, at the Clinton County Branch Office of the Mid-Michigan District Health Department, St. Johns, Michigan.

Pledge of Allegiance was led by B. Delong.

A. AGENDA NOTES, REVIEW, AND REVISIONS:

*Your Public Health Team,
Connecting with our Communities to Achieve Healthier Outcomes*

Motion made by J. Enderle and seconded by B. Kellenberger to approve the Agenda as presented. Motion carried.

B. CONSENT ITEMS:

1. Meeting Minutes
 - a. Michigan Association for Local Public Health (MALPH) Executive Committee Meeting held June 24, 2014
 - b. Mid-Michigan District Board of Health Regular Meeting held July 23, 2014
2. Communications – None

Motion made by B. Kellenberger to accept and place on file Meeting Minutes B. 1. a. and b. Motion seconded by B. Delong. Motion carried.

C. PUBLIC COMMENTS: None

D. BRANCH OFFICE EMPLOYEES: None

E. COMMITTEE REPORTS:

1. Finance Committee – Tom Lindeman, Chair
 - a. Mid-Michigan District Health Department's Monthly Balance Sheet, Revenue and Expenditure Report for July 2014

Motion made by T. Lindeman to approve and place on file the Mid-Michigan District Health Department's Monthly Balance Sheet, Revenue and Expenditure Report for July 2014. Motion seconded by B. Kellenberger. Motion carried.

- b. Mid-Michigan District Health Department's Expenses for July 12 through August 22, 2014

Motion made by T. Lindeman to pay the Mid-Michigan District Health Department's Expenses for July 12 through August 22, 2014, totaling \$642,257.21. Motion seconded by J. Enderle. Motion carried.

- c. Influenza Vaccine Fees

T. Lindeman requested approval to establish the following fees for influenza vaccine:

Influenza (6-35 months):	\$25.00
Influenza (3 years and up):	\$20.00
Influenza Mist:	\$25.00
Influenza High Dose:	\$35.00

He indicated that the agency also charges a \$15 administration fee per vaccine.

Motion made by T. Lindeman and seconded by B. Delong to approve the influenza vaccine fees as outlined above. Motion carried.

Motion made by T. Lindeman and seconded by J. Enderle to approve waiving the \$15 administration fee for county employees if private pay insurance does not cover it. Motion carried.

d. Employee Health Insurance

M. Cheatham requested the Board go into closed session to discuss employee health insurance pertaining to ongoing negotiations with the Teamsters Local 214.

Motion made by B. Kellenberger and seconded by J. Enderle to go into closed session to discuss employee health insurance pertaining to ongoing negotiations with the Teamsters. Chairman McCollum requested a roll call vote. C. Partlo called the roll: B. Delong – Yes; J. Enderle – Yes; B. Kellenberger – Yes; J. Keon – Yes; T. Lindeman – Yes; and L. McCollum – Yes. Motion carried 6-0.

The Board went into closed session at 10:39 a.m. The Board returned to open session at 11:00 a.m.

e. Community Health Workers (CHWs) for Gratiot/Montcalm Pathways to Better Health

M. Cheatham distributed and reviewed a memo regarding a new opportunity for a Pathways to Better Health project for Gratiot and Montcalm Counties. He explained how Pathways to Better Health work, noting that both counties need one CHW to staff the newly-formed Pathways to Better Health for Gratiot and Montcalm. He indicated that funding to hire the CHWs in the amount of \$110,000 was a one-year grant from the Mid-Michigan Health Plan. He requested that the Board authorize the hiring of two CHWs effective October 1, 2014. A. Tabor shared a success story from the Clinton County Pathways to Better Health, noting that the CHW in Clinton Co. has a current caseload of 48, which is over the projected caseload of 40-45.

Motion made by T. Lindeman and seconded by J. Keon to hire two CHWs for the Pathways to Better Health for Gratiot and Montcalm Counties effective October 1, 2014. Motion carried.

Motion made by T. Lindeman and seconded by B. Kellenberger to approve the Finance Committee report and place on file. Motion carried.

2. Personnel Committee – Betty Kellenberger, Chair – No Report.
3. Program Committee – Bruce Delong, Chair – No Report.
4. Mid-Central Coordinating Committee – Tom Lindeman, Vice Chair
 - a. Meeting scheduled for September 11, 2014, 5:00 p.m.

M. Cheatham said that two items of business will be discussed at the September 11, 2014 meeting: 1) Updating the associated agreement for the Mid-Central Coordinating Committee; and 2) shared Epidemiologist contract. He stated that he proposed that the Epidemiologist time be shared equally between all three health departments. He reported that District Health Department #10 does not want to purchase one-third of the Epidemiologist's time, so there will be important topics for the Committee members to consider. He noted he would send documents to the committee members prior to the meeting. A location has yet to be determined.

F. MEDICAL DIRECTOR'S REPORT: Robert Graham, DO, MPH, FAAFP

1. Ebola Virus Disease

Dr. Graham provided background regarding Ebola Virus Disease and reported that there are no current cases in the United States and there was no immediate threat to the people of the United States. He discussed the preparations taken by the Centers for Disease Control and Prevention (CDC) to prevent the spread of communicable diseases. Healthcare organizations in Michigan have been given guidance on how to handle suspected cases.

He stated that last month, local health departments held an educational seminar dealing with Middle East Respiratory Syndrome, MERS CoV.

Dr. Graham offered the following as the Recommendation of the Board of Health for the month of August:

Travel to West Africa should be postponed until there is evidence from the CDC and the World Health Organization that the Ebola virus disease outbreak has ended.

Motion made by B. Kellenberger and seconded by J. Keon to adopt the BOH Monthly Healthy Living Recommendation for August. Motion carried.

2. Pertussis/Whooping Cough

Dr. Graham reported that cases of pertussis/whooping cough have greatly increased within the district as well as within the state. He stated that the agency has taken a proactive approach to stop the spread of the disease. He indicated that letters have been sent to school superintendents requesting them to enforce their policies regarding no fever, no cough, no cold. If a case of Pertussis is diagnosed in a school-aged child, Dr. Graham stated that he would make a recommendation to that school to exclude all unvaccinated children until one week after the last case occurs in that school building. M. Cheatham clarified that the agency's position was not an order from the health department; but, only a recommendation. Dr. Graham summarized that whooping cough is very dangerous for children 6 months and younger, as well as for all children under 1 year of age as they don't have the capacity to fight the disease. He stated their little lungs are damaged and it takes about 12 weeks for them to recover, which can put them developmentally behind.

Motion made by J. Keon and seconded by B. Delong to accept the Medical Director's recommendation to exclude all unvaccinated children from the school where a case of Pertussis/Whooping Cough is diagnosed in a child until one week after the last case occurs in that school. Motion carried.

G. HEALTH OFFICER'S REPORT: Mark W. (Marcus) Cheatham, Ph.D., Health Officer

1. 2013 Mid-Michigan District Health Department (MMDHD) Annual Report

M. Cheatham stated that the 2013 Annual Report has not gone to the printer yet, so if the BOH had any suggested changes, it was not too late. He provided a brief overview of the Annual Report. T. Lindeman suggested that the employees on the front cover be identified.

2. Reverse Appraisal Results

M. Cheatham provided a presentation regarding the results of the management Reverse Appraisals noting that overall the team averaged a score of 4.25 on a scale of 1 to 5. He reviewed the leadership team's strengths and where they need to improve. He stated that the results have been reviewed with the Management Team. He stated that 81% of staff completed a Reverse appraisal.

M. Cheatham also reviewed his personal results noting that his average score was 4.25. He also reviewed his strengths and areas where he needed to improve and requested BOH feedback. L. McCollum offered that staff may not be aware of the outcome or actions taken to resolve an issue due to confidentiality.

3. Grant Update

M. Cheatham provided an update regarding recent grants that the agency has applied for. He stated that the agency was invited to apply for funding to expand the Sidney Dental Clinic.

H. OLD BUSINESS:

1. National Association of Local Boards of Health (NALBOH) 21st Annual Conference Report (*Betty Kellenberger*)

B. Kellenberger provided an overview of the NALBOH Annual Conference indicating that it was a totally different experience from last year's conference. She stated that it was obvious that NALBOH was having problems; and it was reported that NALBOH was in debt \$100,000 and was looking to file bankruptcy. She indicated that in one of the southern states-West Virginia or Georgia-it is mandated by the state that all children receive immunization with no non-medical exceptions. She indicated that most of the speakers were wonderful. The speaker on national accreditation did not present well and it was difficult to hear what she was saying. B. Kellenberger stated that only about 100 people attended the conference. She summarized that the organization appeared to be making good decisions and headed in the right direction.

2. Client Satisfaction Survey, First Quarter FY 13/14 (October 1 – December 31, 2013)

M. Cheatham indicated that a workgroup has been developing a new electronic Client Satisfaction Survey. He reviewed the interesting comments received, noting that negative comments are still being received about the phone system. He stated that negative comments are followed-up by the program Supervisor or Division Director.

3. Annual Commissioner Forum, September 25, 2014, 12 p.m. at First Baptist Church Community Center, 10010 E. Carson City Rd. (M-57), Carson City

M. Cheatham indicated that the Commissioner Forum was scheduled at the First Baptist Church Community Center to be centrally located. He indicated the topics to be covered are changing the funding formula and the Well and Septic Stakeholder's Committee.

4. Intergovernmental Agreement Changes (Additional member to the BOH)

M. Cheatham mentioned that as J. Enderle directed, he had a conversation with Mark Miller, Director of Local Health Services regarding the ability of the Mid-Michigan District Board of Health to appoint another member to the Board of Health to ensure a quorum is met. Mark Miller indicated that two commissioners from each county must be appointed. However, other representatives could be appointed if a county desired. M. Cheatham stated that the Intergovernmental Agreement would need to be changed. L. McCollum stated that Gratiot County does have difficulty with Commissioners attending all of the necessary meetings. She expressed that having additional members appointed to represent Gratiot County would be helpful.

5. Revised Total Coliform Rule Update

M. Cheatham stated that there were no new developments regarding the Revised Total Coliform Rule.

6. Women, Infants, and Children's (WIC) Evaluation – *Jennifer Stratton, Community Health and Education Division Supervisor*

Jennifer Stratton provided an overview of the WIC program, stating that it is a very beneficial program showing positive outcomes. A. Tabor reported on the WIC evaluation stating that this evaluation was the best evaluation the agency has had since she has been employed with the MMDHD with only four "not mets". She reviewed the areas for improvement and the action that the agency will take to correct the "not mets". Additionally, she reviewed the special recognition that the agency received. A. Tabor stated that J. Stratton would be sharing the results of the evaluation with program staff.

I. NEW BUSINESS:

1. Emerging Issues – None.

2. Michigan Pathways to Better Health

a. Ingham County Pathways to Better Health (Clinton County)

A. Tabor provided an update in the Finance Committee report.

b. Pathway for Gratiot and Montcalm Counties – Community Health Workers (CHW)

M. Cheatham stated that the issue was covered in the Finance Committee report.

J. LEGISLATIVE ACTION: None

K. INFORMATIONAL ITEMS:

1. Mid-Michigan District Board of Health Action Items, July 2014

2. Staffing Report

Provided for information only.

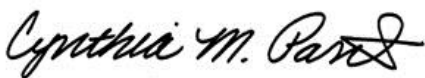
M. RELATED NEWS ARTICLES:

1. MMDHD News Articles available online at www.mmdhd.org/boh-news-2014.html
2. “DDT Still Killing Birds in Michigan”, *Scientific American*, July 28, 2014, <http://www.scientificamerican.com/article/ddt-still-killing-birds-in-michigan/>
3. “Birds Fall From Sky in St. Louis, Michigan, Amid Massive Chemical Cleanup”, August 3, 2014, <http://www.wzzm13.com/story/news/local/2014/08/03/birds-fall-from-sky-in-st-louis-mich-amid-massive-chemical-cleanup/13539401/>

N. AGENCY NEWSLETTERS: None

There being no further business to come before the Board, the meeting adjourned at 12:02 a.m.

Respectfully Submitted,



Cynthia M. Partlo
Board Secretary For
Laura McCollum, Chairperson
Mid-Michigan District Board of Health



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(989) 831-5237

MARK W. (MARCUS) CHEATHAM
Health Officer

ROBERT GRAHAM, DO, MPH, FAAFP
Medical Director



BOARD OF HEALTH
Bruce Delong
Jack A. Enderle
Betty Kellenberger
Jane Keon
Tom Lindeman
Laura McCollum

**BOARD OF HEALTH
PERSONNEL COMMITTEE MEETING**
at
Mid-Michigan District Health Department
Gratiot County Branch Office
Ithaca, Michigan

Wednesday, September 17, 2014
3:17 p.m.

MINUTES

Members Present: Bruce Delong, Laura McCollum, and Betty Kellenberger, Chair

Members Absent: None

Staff Present: Mark W. (Marcus) Cheatham, Ph.D., Health Officer; Melissa Bowerman, Director of Administrative Services

B. Kellenberger, Chairperson called the Personnel Committee meeting of the Mid-Michigan District Board of Health to order at 3:17 p.m., on Wednesday, September 17, 2014, at the Gratiot County Branch Office of the Mid-Michigan District Health Department, Ithaca, Michigan.

A. Public Comment – None

B. Consideration to Go into Closed Session for Purposes of Labor Negotiations

M. Cheatham requested the Personnel Committee go into closed session for purposes of labor negotiations and consideration of the Teamsters Local 214 ratified Contract.

Motion made by B. Delong and seconded by L. McCollum to go into closed session at 3:18 p.m. B. Kellenberger called for a roll call vote: B. Delong – Yes; L. McCollum – Yes; and B. Kellenberger – Yes. Motion carried 3-3.

The Personnel Committee returned to open session at 3:50 p.m.

C. Consider Acceptance of Teamsters Local 214 Ratified Contract

Motion made by B. Delong and seconded by B. Kellenberger to recommend the full Board of Health accept the Teamsters Local 214 ratified Contract. Motion carried.

D. Health Officer's Contract

M. Cheatham discussed the changes requested by the Board at their meeting held on May 28, 2014. The Board had agreed verbally that the Health Officer should not need permission to travel on work-related business. The Board did want to continue to grant prior approval for out-of-state travel expenditures. The contract has been changed to reflect this.

Motion made by L. McCollum and seconded by B. Delong to recommend the full Board of Health approve the Health Officer's Contract as revised. Motion carried.

There being no further business to come before the Board, the meeting adjourned at 4:00 p.m.

Respectfully Submitted,



Melissa Bowerman, Director
Administrative Services Division and
Acting Board Secretary For
Betty Kellenberger, Chairperson
Mid-Michigan District Board of Health
Personnel Committee

Mid-Michigan District Health Department

AUG 92%

FY 2014

AP: 11

Revenue

Revenue and Expenditure Report

Account	Budget	Current Month	Year-To-Date	Balance	% of Budget	Proposed Amended Budget
1 Onsite Sewage	116,203.00	11,451.00	116,570.50	-367.50	100%	127,000.00
2 Groundwater Quality	143,313.00	12,642.00	126,701.00	16,612.00	88%	136,000.00
3 Food Service	249,720.00	9,299.00	282,269.00	-32,549.00	113%	283,000.00
4 Campgrounds	3,000.00	1,389.00	2,901.00	99.00	97%	3,000.00
5 Swimming Pools	5,000.00	700.00	4,486.00	514.00	90%	5,000.00
6 Waste Haulers	7,925.00	160.00	1,740.00	6,185.00	22%	8,000.00
7 DHS Facility Inspections	21,750.00	2,246.00	20,627.00	1,123.00	95%	22,500.00
8 Body Art Fees	1,300.00	0.00	801.00	499.00	62%	1,000.00
9 EH Misc Fees	5,860.00	100.77	1,218.60	4,641.40	21%	1,300.00
10 Vision Fees	25,000.00	94.40	21,954.60	3,045.40	88%	24,000.00
11 Hearing Fees	21,000.00	103.60	17,419.60	3,580.40	83%	20,000.00
12 MIHP Fees	110,000.00	6,666.39	64,828.48	45,171.52	59%	72,500.00
13 Communicable Disease Fees	600.00	95.00	1,896.56	-1,296.56	316%	1,000.00
14 Immunization Fees	95,000.00	8,896.17	105,229.77	-10,229.77	111%	113,000.00
15 Family Planning/STD Fees	140,000.00	6,354.52	104,806.60	35,193.40	75%	108,000.00
16 Breast Cancer Fees	14,000.00	54.88	5,690.50	8,309.50	41%	6,000.00
17 Lead Fees	10,000.00	941.80	10,743.27	-743.27	107%	11,000.00
18 Varnish Fees	12,000.00	0.00	7,574.07	4,425.93	63%	10,500.00
19 WIC Varnish Fees	60,000.00	2,266.00	11,667.59	48,332.41	19%	14,000.00
20 Ched Miscellaneous Fees	200.00	0.00	0.00	200.00	0%	0.00
21 Miscellaneous Other Fees	100.00	0.62	74.22	25.78	74%	75.00
22 VFC/317 Vaccine Revenue	400,000.00	18,737.78	189,604.96	210,395.04	47%	250,000.00
23 MDCH Grants	1,497,221.00	113,440.00	1,343,319.75	153,901.25	90%	1,491,485.00
24 Essential Local Public Health Services	698,412.00	15,584.00	595,250.10	103,161.90	85%	704,169.00

25	MDCH Fee For Service Revenue	41,250.00	3,090.00	37,425.12	3,824.88	91%	41,000.00
26	DEQ Grants	76,255.00	4,916.00	61,541.50	14,713.50	81%	74,162.00
27	Other Grants/Community Support	310,660.00	25,902.54	330,788.54	-20,128.54	106%	365,500.00
28	Medicaid Full Cost Reimbursement	330,347.00	0.00	344,583.92	-14,236.92	104%	453,733.00
29	Interest	5,000.00	164.90	1,845.08	3,154.92	37%	2,000.00
30	Donations	7,000.00	30.04	2,748.69	4,251.31	39%	3,000.00
31	Cash Over/Short	0.00	-83.16	0.10	-0.10	0%	0.00
32	Clinton Co - Appropriation	269,543.00	19,998.60	250,190.74	19,352.26	93%	270,188.00
33	Clinton Co - MMHP	121,472.00	12,586.16	108,239.49	13,232.51	89%	120,825.00
34	Gratiot Co - Appropriation	130,833.00	7,800.46	123,845.54	6,987.46	95%	131,646.00
35	Gratiot Co - MMHP	152,964.00	15,849.16	136,301.83	16,662.17	89%	152,151.00
36	Montcalm Co - Appropriation	250,203.00	15,120.83	213,935.17	36,267.83	86%	229,056.00
37	Montcalm Co - MMHP	175,458.00	18,180.00	156,347.00	19,111.00	89%	174,527.00
38	Prior Year Adjustments	0.00	0.00	-865.32	865.32	0%	-900.00
39	Space Occupancy	261,950.00	22,788.00	250,671.00	11,279.00	96%	275,000.00
40	Cigarette Tax - Clinton	0.00	0.00	2,117.64	-2,117.64	0%	2,000.00
41	Cigarette Tax - Gratiot	0.00	0.00	1,193.64	-1,193.64	0%	1,000.00
42	Cigarette Tax - Montcalm	0.00	0.00	1,779.53	-1,779.53	0%	2,000.00
43	Deferred Revenues	0.00	0.00	0.00	0.00	0%	139,500.00
TOTAL REVENUE:		5,770,539.00	357,566.46	5,060,063.38	710,475.62	88%	5,848,917.00
W/O SPACE & VFC		5,108,589.00	316,040.68	4,619,787.42	488,801.58	90%	5,323,917.00

Mid-Michigan District Health Department

92%

FY 2014

AP: 11

Expenditure

Account	Current Month	Year-To-Date	Balance	% of Budget	Proposed Amended Budget	
1 Board of Health Per Diem	5,000.00	186.00	3,180.00	1,820.00	64%	4,000.00
2 Salaries	3,166,213.00	241,239.09	2,826,290.96	339,922.04	89%	3,090,244.00
3 FICA	240,703.00	17,813.52	209,266.89	31,436.11	87%	229,975.00
4 Health Insurance	678,195.00	58,706.53	606,830.94	71,364.06	89%	671,830.00
5 Dental Insurance	48,324.00	3,766.00	40,199.86	8,124.14	83%	44,500.00
6 Retirement	263,665.00	18,520.41	233,747.60	29,917.40	89%	254,495.00
7 Work Comp	50,342.00	4,413.00	51,663.00	-1,321.00	103%	56,300.00
8 Unemployment Comp	6,000.00	0.00	1,042.00	4,958.00	17%	7,000.00
9 Life Insurance	4,636.00	303.79	4,085.23	550.77	88%	4,500.00
10 Physicals	0.00	0.00	0.00	0.00	0%	0.00
11 Printed Materials	2,500.00	0.00	685.87	1,814.13	27%	2,800.00
12 Postage	10,500.00	975.50	31,098.49	-20,598.49	296%	36,000.00
13 Office Supplies	39,750.00	3,629.91	47,320.19	-7,570.19	119%	62,000.00
14 Computer/Printer Supplies	3,000.00	290.89	4,688.46	-1,688.46	156%	8,000.00
15 Medical Supplies	67,800.00	1,449.23	61,535.00	6,265.00	91%	72,000.00
16 CD Meds Biologics	30,500.00	6,672.97	44,042.21	-13,542.21	144%	70,042.00
17 VFC Supplies	400,000.00	18,737.78	189,604.96	210,395.04	47%	250,000.00
18 Dental Supplies	600.00	0.00	220.95	379.05	37%	300.00
19 Contractual Services	95,500.00	1,088.76	100,761.12	-5,261.12	106%	121,761.00
20 Legal Expenses	10,000.00	0.00	4,056.49	5,943.51	41%	9,000.00
21 Communications	65,120.00	9,448.34	66,255.88	-1,135.88	102%	78,200.00
22 Travel	121,700.00	11,495.07	121,331.65	368.35	100%	138,000.00

23	Advertising & Recruitment	4,000.00	0.00	4,134.51	-134.51	103%	7,000.00
24	Liability Insurance	34,000.00	2,740.00	30,157.00	3,843.00	89%	33,000.00
25	Equipment Maintenance/Lease	53,000.00	4,789.42	48,153.85	4,846.15	91%	56,150.00
26	Rent	26,100.00	2,031.50	23,319.50	2,780.50	89%	25,520.00
27	Space Occupancy	261,951.00	22,788.00	250,560.00	11,391.00	96%	275,000.00
28	Training	17,000.00	1,196.98	14,863.26	2,136.74	87%	18,000.00
29	Memberships/Certifications/Subscriptions	14,540.00	0.00	13,347.15	1,192.85	92%	15,000.00
30	Tuition Reimbursement	3,000.00	0.00	294.75	2,705.25	10%	300.00
31	Laboratory	5,200.00	341.16	1,964.27	3,235.73	38%	3,000.00
32	Behavioral Risk Factor Survey	0.00	0.00	20,690.00	-20,690.00	0%	21,000.00
33	Misc Other Expense	500.00	0.00	0.00	500.00	0%	0.00
34	Computer Support	39,200.00	6,652.43	64,720.73	-25,520.73	165%	65,000.00
35	Service Charges	2,000.00	367.75	3,712.33	-1,712.33	186%	4,500.00
36	Equipment (FB)	0.00	0.00	32,780.00	-32,780.00	0%	33,000.00
37	Accreditation Fees (FB)	0.00	0.00	25,679.00	-25,679.00	0%	26,000.00
38	Computer Upgrades (FB)	0.00	0.00	49,909.12	-49,909.12	0%	50,000.00
39	Facility Development (FB)	0.00	0.00	5,300.09	-5,300.09	0%	5,500.00
TOTAL EXPENSES		5,770,539.00	439,644.03	5,237,493.31	533,045.69	91%	5,848,917.00
W/O SPACE & VFC		5,108,588.00	398,118.25	4,797,328.35	311,259.65	94%	5,323,917.00
Revenue Over Expenditures (Deficit)		0.00	-82,077.57	-177,429.93	177,429.93	0%	0.00

MMDHD BALANCE SHEET
AS OF

8/31/2014

CURRENT ASSETS

CASH TO TREASURER	1,262,664.67
CASH ON DEPOSIT/IMPREST CASH	2,730.00
ACCOUNTS RECEIVABLE	144,996.21
DUE FROM GOVERNMENTAL AGENCIES	601,453.35
INVENTORY - VFC IMMS	89115.36
PREPAIDS	45,053.00
TOTAL ASSETS	2,146,012.59

LIABILITIES AND FUND BALANCE

ACCOUNTS PAYABLE	-54,285.51
PAYROLL DEDUCTIONS	1,163.95
PAYROLL PAYABLES	211,846.26
OTHER ACCRUED PAYABLE	-15.37
TRUST FUNDS	18,296.07
DEFERRED REVENUE PRIOR YEAR	73,430.48
DEFERRED REV - BRFS	14,040.20
DEFERRED REV DENTAL OUTREACH	-41,627.25
DEFERRED REVENUE MCDC	249,000.00
DEFERRED REVENUE-VFC IMMS	89,115.36
FUND BALANCE	288,168.60
FUND BALANCE EQUIPMENT	205,783.74
FUND BALANCE FACILITY DEV	124,580.00
FUND BALANCE SELF INS BONDS	13,949.72
FUND BALANCE-FUTURE RETIREMENT	308,829.80
FUND BALANCE-COMPENSATED LEAVES	522,410.47

FUND BALANCE-UNEMPLOYMENT	55,000.00
FUND BALANCE-TRAINING	35,000.00
FUND BALANCE/BRFS	11,522.00
FUND BALANCE-HEALTH INSURANCE	160,000.00
FUND BALANCE-POTENTIAL CLAIMS	12,234.00
FUND BALANCE - NAT'L ACCREDETATION	25,000.00
BALANCE SHEET NET INCOME	-177,429.93
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TOTAL LIABILITIES	2,146,012.59
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TOTAL NET INCOME	0.00

**MONTHLY EXPENSES FOR
August 23, 2014 - September 19, 2014**

<i>EV 1774</i>	\$ 142,486.04
<i>EV 1775</i>	<u>\$ 167,889.82</u>
TOTAL	\$ 310,375.86

Mid-Michigan District Health Department
615 North State Street, Suite 2
Stanton MI 48888
(989) 831-5237

CK# EV 1774

9/5/2014

Payables

101029		
thru	Quantum Checks & Direct Deposits	\$ 21,825.55
101064		

Payroll

AFLAC Employee Deduction		\$ 401.31
MERS Employee Electronic Transfer		\$ 3,279.82
Chemical Bank Payroll-Ameriprise NBS		\$ 380.00
Chemical Bank Payroll-Nationwide		\$ 1,725.00
Chemical Bank Payroll-MERS 457		\$ 240.00
Chemical Bank Payroll Tax Electronic Transfer		
Federal		\$ 27,427.32
State		\$ -
MERS Employer Electronic Transfer	14-Jul	\$ -
Chemical E-Banking fee	14-Jul	\$ -
Chemical Bank Interest	14-Jul	\$ -
Direct Deposit Payroll		\$ 87,207.04
State of Michigan Unemployment 4Q FY13		\$ -

TOTAL		\$ 142,486.04
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ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK DATE	VOID REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH# P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
53	09/05/14	KEL038 KELLENBERGER BETTY	AUGUST 2014	08/27/14	11583	\$ 66.48	\$ -	\$ 66.48
		DIRECT DEPOSIT						
			CHECK TOTALS:			\$ 66.48	\$ -	\$ 66.48
54	09/05/14	LIN033 LINDEMAN TOM	AUGUST 2014	08/27/14	11581	\$ 114.44	\$ -	\$ 114.44
		DIRECT DEPOSIT						
			CHECK TOTALS:			\$ 114.44	\$ -	\$ 114.44
101029	09/05/14	AHC045 AHC MEDIA	54874976	08/19/14	11578	\$ 496.95	\$ -	\$ 496.95
		COMPUTER CHECK			14/15 SUBSCRIPTION			
			CHECK TOTALS:			\$ 496.95	\$ -	\$ 496.95
101030	09/05/14	ALL001 ALLEY T	36443	07/10/14	11579	\$ 15.00	\$ -	\$ 15.00
		COMPUTER CHECK			GREEN MMDHD TSHIRT			
			CHECK TOTALS:			\$ 15.00	\$ -	\$ 15.00
101031	09/05/14	ASS039 ASSOCIATION FOR COMMUNITY HEALTH IMPROVEMENT	598124	08/04/14	11577	\$ 215.00	\$ -	\$ 215.00
		COMPUTER CHECK			14/15 DUES			
			CHECK TOTALS:			\$ 215.00	\$ -	\$ 215.00
101032	09/05/14	BAILEY MICHELLE	URM ACCT	09/01/14	11588	\$ 288.00	\$ -	\$ 288.00
		COMPUTER CHECK			FLEX PAYOUT			
			CHECK TOTALS:			\$ 288.00	\$ -	\$ 288.00
101033	09/05/14	CAP095 CAPITAL AREA UNITED WAY	9/5/14	09/01/14	11602	\$ 36.00	\$ -	\$ 36.00
		COMPUTER CHECK			EMPLOYEE DONATION			
			CHECK TOTALS:			\$ 36.00	\$ -	\$ 36.00
101034	09/05/14	CDW016 CDW GOVERNMENT, INC.	NT07477	08/14/14	11557 015090-00	\$ 196.51	\$ -	\$ 196.51
		COMPUTER CHECK			HP OFFICEJET/LISA MIKESSELL			
			NT47356	08/15/14	11556 015090-00	\$ 94.38	\$ -	\$ 94.38
					APC-BACKUP/HOLLY			
			CHECK TOTALS:			\$ 290.89	\$ -	\$ 290.89
101035	09/05/14	CHA166 CHARTER BUSINESS	8/28-9-27-14	08/18/14	11597	\$ 135.99	\$ -	\$ 135.99
		COMPUTER CHECK			CLINTON INTERNET			
			CHECK TOTALS:			\$ 135.99	\$ -	\$ 135.99
101036	09/05/14	CLI092 CLINTON COUNTY ADMIN/ACCT	AC-2014-032	09/02/14	11598	\$ 1,675.00	\$ -	\$ 1,675.00
		COMPUTER CHECK			OCTOBER DENTAL RENT			
			CHECK TOTALS:			\$ 1,675.00	\$ -	\$ 1,675.00

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK DATE	VOID REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH# P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101037	09/05/14	DOU055 DOUBLETREE BY HILTON HOTEL	84009169	09/03/14	11573	\$ 83.25	\$ -	\$ 83.25
		COMPUTER CHECK			TABOR/CURRIE HOTEL			
					CHECK TOTALS:	\$ 83.25	\$ -	\$ 83.25
101038	09/05/14	FOR008 FORESTRY SUPPLIERS INC	646415-00	08/21/14	11553 015093-00	\$ 151.59	\$ -	\$ 151.59
		COMPUTER CHECK			MEASURE TAPE,MEASURING WHEEL			
					CHECK TOTALS:	\$ 151.59	\$ -	\$ 151.59
101039	09/05/14	FRO027 FRONTIER	08/19/14	08/19/14	11609	\$ 362.57	\$ -	\$ 362.57
		COMPUTER CHECK			989-875-3681 8/19-9/18/14			
			08/20/14	08/20/14	11608	\$ 752.57	\$ -	\$ 752.57
					989-831-5237 7/20-8/19/14			
			8/19/14	08/19/14	11606	\$ 87.84	\$ -	\$ 87.84
					989-875-2952 8/19-9/18/14			
			8/20/14	08/20/14	11607	\$ 54.49	\$ -	\$ 54.49
					989-831-7707 7/20-8/19/14			
			8/28/14	08/28/14	11610	\$ 65.33	\$ -	\$ 65.33
					989-224-4300 8/28-9/27/14			
					CHECK TOTALS:	\$ 1,322.80	\$ -	\$ 1,322.80
101040	09/05/14	GRE012 GREAT LAKES CONFERENCE	FOWLER, BRYAN	09/03/14	11605	\$ 50.00	\$ -	\$ 50.00
		COMPUTER CHECK			9/8/14 TRAINING			
					CHECK TOTALS:	\$ 50.00	\$ -	\$ 50.00
101041	09/05/14	JAN035 JANDERNOA TIM	26795	08/18/14	11576	\$ 101.00	\$ -	\$ 101.00
		COMPUTER CHECK			AP12 #1 REFUND OVERPMT			
					CHECK TOTALS:	\$ 101.00	\$ -	\$ 101.00
101042	09/05/14	KEO043 KEON JANE	AUGUST 2014	08/27/14	11582	\$ 95.96	\$ -	\$ 95.96
		COMPUTER CHECK			TRAVEL/PER DIEM			
					CHECK TOTALS:	\$ 95.96	\$ -	\$ 95.96
101043	09/05/14	KKZ030 KKZO LLC	#01-14	08/21/14	11586	\$ 350.00	\$ -	\$ 350.00
		COMPUTER CHECK			FY15 CD REPORTING TOOLS			
			01-14	08/21/14	11585	\$ 250.00	\$ -	\$ 250.00
					FY14 CD REPORTING TOOLS			
					CHECK TOTALS:	\$ 600.00	\$ -	\$ 600.00

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK DATE	VOID REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH# P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101044	09/05/14	LAN024 LANSING RADIOLOGY	1669425658	08/05/14	11584	\$ 77.00	\$ -	\$ 77.00
		COMPUTER CHECK						
						\$ 77.00	\$ -	\$ 77.00
101045	09/05/14	MAD167 MADDEN SHANNON	8/21-8/28/14	08/29/14	11587	\$ 131.25	\$ -	\$ 131.25
		COMPUTER CHECK						
						\$ 131.25	\$ -	\$ 131.25
101046	09/05/14	MAL033 MALEHA	268	09/03/14	11572	\$ 125.00	\$ -	\$ 125.00
		COMPUTER CHECK						
						\$ 125.00	\$ -	\$ 125.00
101047	09/05/14	MCC164 McCOLLUM LAURA	AUGUST 2014	08/27/14	11580	\$ 69.28	\$ -	\$ 69.28
		COMPUTER CHECK						
						\$ 69.28	\$ -	\$ 69.28
101048	09/05/14	MCK032 MCKESSON MEDICAL	46260305	08/13/14	11558 015084-00	\$ 595.31	\$ -	\$ 595.31
		COMPUTER CHECK						
						\$ 163.97	\$ -	\$ 163.97
						\$ 759.28	\$ -	\$ 759.28
101049	09/05/14	MED144 MEDIBADGE	637469	05/26/14	11570 015096-00	\$ 1,026.38	\$ -	\$ 1,026.38
		COMPUTER CHECK						
						\$ 1,026.38	\$ -	\$ 1,026.38
101050	09/05/14	MER016 MERCK & CO INC	1600019061	08/28/14	11563 015083-00	\$ (20.00)	\$ -	\$ (20.00)
		COMPUTER CHECK						
						\$ 1,471.90	\$ -	\$ 1,471.90
101050	09/05/14	MER016 MERCK & CO INC	7006195639	08/13/14	11560 015083-00	\$ 1,471.90	\$ -	\$ 1,471.90
		COMPUTER CHECK						
						\$ 649.13	\$ -	\$ 649.13
						\$ 3,175.90	\$ -	\$ 3,175.90
						\$ 5,276.93	\$ -	\$ 5,276.93
101051	09/05/14	MERS01 MERS OF MICHIGAN	7006195640	08/13/14	11562 015083-00	\$ 649.13	\$ -	\$ 649.13
		COMPUTER CHECK						
						\$ 3,175.90	\$ -	\$ 3,175.90
						\$ 5,276.93	\$ -	\$ 5,276.93
101051	09/05/14	MERS01 MERS OF MICHIGAN	206527	09/03/14	11571	\$ 200.00	\$ -	\$ 200.00
		COMPUTER CHECK						
						\$ 200.00	\$ -	\$ 200.00

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK DATE	VOID REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH# P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101052	09/05/14	MIC007 MICHIGAN PUBLIC HEALTH INST	6325	09/03/14	11574	\$ 175.00	\$ -	\$ 175.00
		COMPUTER CHECK	21955		TABOR FP TRAINING			
			6326	09/03/14	11575	\$ 175.00	\$ -	\$ 175.00
			21222		CURRIE FP TRAINING			
			CHECK TOTALS:			\$ 350.00	\$ -	\$ 350.00
101053	09/05/14	MIS005 MISDU/FRIEND OF COURT	9/5/14	09/01/14	11601	\$ 234.68	\$ -	\$ 234.68
		COMPUTER CHECK	EMPLOYEE DEDUCTION					
			CHECK TOTALS:			\$ 234.68	\$ -	\$ 234.68
101054	09/05/14	MON170 MONTCALM COUNTY	LM-XV-P-117	08/21/14	11589	\$ 300.00	\$ -	\$ 300.00
		COMPUTER CHECK	KINNEE LEADERSHIP MONTCALM					
			CHECK TOTALS:			\$ 300.00	\$ -	\$ 300.00
101055	09/05/14	NEH002 NEHA TRAINING	252580	07/24/14	11595	\$ 300.00	\$ -	\$ 300.00
		COMPUTER CHECK	9544830-1		GRATIOT 7/24 EXAM			
			252590	07/15/14	11596	\$ 75.00	\$ -	\$ 75.00
			9544891-1		MONTCALM 7/15 EXAM			
			CHECK TOTALS:			\$ 375.00	\$ -	\$ 375.00
101056	09/05/14	NOV039 NOVARTIS VACCINES/DIAG	91886851	08/20/14	11592	\$ 574.84	\$ -	\$ 574.84
		COMPUTER CHECK	CLINTON MENVEO					
			91886852	08/20/14	11593	\$ 492.72	\$ -	\$ 492.72
			GRATIOT MENVEO					
			91886853	08/20/14	11594	\$ 328.48	\$ -	\$ 328.48
			MONTCALM MENVEO					
			CHECK TOTALS:			\$ 1,396.04	\$ -	\$ 1,396.04
101057	09/05/14	OFF001 OFFICEMAX INCORPORATED	446892	08/11/14	11555 015085-00	\$ 60.03	\$ -	\$ 60.03
		COMPUTER CHECK	BLACK CALENDAR BINDER					
			678454	08/21/14	11567 015089-00	\$ 154.20	\$ -	\$ 154.20
			FILE FOLDERS,LEGAL PADS					
			CHECK TOTALS:			\$ 214.23	\$ -	\$ 214.23
101058	09/05/14	QUI003 QUILL CORPORATION	5448444	08/20/14	11554 015092-00	\$ 67.98	\$ -	\$ 67.98
		COMPUTER CHECK	ALUMINUM FORM HOLDER					
			CHECK TOTALS:			\$ 67.98	\$ -	\$ 67.98

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK DATE	VOID REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH# P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101059	09/05/14	SHR011 SHRED-IT USA LLC	9404062149	08/15/14	11590	\$ 83.01	\$ -	\$ 83.01
		COMPUTER CHECK			CLINTON SHREDDING			
			9404093673	08/22/14	11591	\$ 83.01	\$ -	\$ 83.01
					GRATIOT SHREDDING			
			CHECK TOTALS:			\$ 166.02	\$ -	\$ 166.02
101060	09/05/14	STA194 STAPLES ADVANTAGE	3235183115	06/28/14	11568	\$ 25.57	\$ -	\$ 25.57
		COMPUTER CHECK			PENS,FILE FOLDERS			
			3235926265	07/05/14	11569	\$ 13.50	\$ -	\$ 13.50
					2X10 DESK SIGN			
			CHECK TOTALS:			\$ 39.07	\$ -	\$ 39.07
101061	09/05/14	UNI001 UNITED WAY OF MONTCALM CO	9/5/14	09/01/14	11604	\$ 63.00	\$ -	\$ 63.00
		COMPUTER CHECK			EMPLOYEE DONATION			
			CHECK TOTALS:			\$ 63.00	\$ -	\$ 63.00
101062	09/05/14	UNI009 UNITED WAY OF GRATIOT CO	9/5/14	09/01/14	11603	\$ 64.00	\$ -	\$ 64.00
		COMPUTER CHECK			EMPLOYEE DONATION			
			CHECK TOTALS:			\$ 64.00	\$ -	\$ 64.00
101063	09/05/14	VER004 VERIZON	9730790937	08/21/14	11600	\$ 731.29	\$ -	\$ 731.29
		COMPUTER CHECK			DISTRICIT WIDE CELL PHONES			
			9730965845	08/23/14	11599	\$ 218.83	\$ -	\$ 218.83
					MIHP MOBILE BROADBAND			
			CHECK TOTALS:			\$ 950.12	\$ -	\$ 950.12
101064	09/05/14	WINN73 WINN TELECOM	1619793B1	08/15/14	11611	\$ 4,201.94	\$ -	\$ 4,201.94
		COMPUTER CHECK			JUN 11 - SEPT 14 PHONES/INTERNET			
			CHECK TOTALS:			\$ 4,201.94	\$ -	\$ 4,201.94
			BANK CODE TOTALS:			\$ 21,825.55	\$ -	\$ 21,825.55
36		COMPUTER CHECKS						
0		MANUAL PAYMENT CHECKS						
0		VOID CHECKS - TRX						
0		VOID CHECKS - STUBS						
0		VOID CHECKS - ERROR						
0		VOID CHECKS - FORM ALIGNMENT						
2		DIRECT DEPOSITS						
38		CHECKS TOTAL						
			COMPANY TOTALS:			\$ 21,825.55	\$ -	\$ 21,825.55

**Mid-Michigan District Health Department
615 North State Street, Suite 2
Stanton MI 48888
(989) 831-5237**

CK# EV 1775 9/19/2014

Payables

101065 thru 101106	Quantum Checks & Direct Deposits	\$ 33,090.01
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Payroll

AFLAC Employee Deduction		\$ 401.31
MERS Employee Electronic Transfer		\$ 3,393.74
Chemical Bank Payroll-Ameriprise NBS		\$ 380.00
Chemical Bank Payroll-Nationwide		\$ 1,725.00
Chemical Bank Payroll-MERS 457		\$ 240.00
Chemical Bank Payroll Tax Electronic Transfer		
Federal		\$ 28,801.88
State		\$ 8,561.17
MERS Employer Electronic Transfer	May correction	\$ 409.50
Chemical E-Banking fee	14-Aug	\$ 70.22
Chemical Bank Interest	14-Aug	\$ (4.97)
Direct Deposit Payroll		\$ 90,821.96
State of Michigan Unemployment 4Q FY13		<u>\$ -</u>

TOTAL \$ 167,889.82

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101065	09/19/14	BES093 BESSIE MEDICAL	12011463555	09/09/14	11662	013097-00	\$ 2,497.00	\$ -	\$ 2,497.00
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 2,497.00	\$ -	\$ 2,497.00
101066	09/19/14	BRE100	080714	08/07/14	11646		\$ 4.80	\$ -	\$ 4.80
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 4.80	\$ -	\$ 4.80
101067	09/19/14	CAP095 CAPITAL AREA UNITED WAY	9/19/14	09/17/14	11673		\$ 36.00	\$ -	\$ 36.00
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 36.00	\$ -	\$ 36.00
101068	09/19/14	CHE172 CHERRY STREET HEALTH SERVICE	SEPTEMBER 2014	09/03/14	11642		\$ 125.00	\$ -	\$ 125.00
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 125.00	\$ -	\$ 125.00
101069	09/19/14	CIT014 CITIZENS BANK	OCTOBER 2014	09/16/14	11657		\$ 6,672.73	\$ -	\$ 6,672.73
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 6,672.73	\$ -	\$ 6,672.73
101070	09/19/14	CLI062 CLINTON MEMORIAL HOSPITAL	H400011508700	08/11/14	11637		\$ 410.00	\$ -	\$ 410.00
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 410.00	\$ -	\$ 410.00
101071	09/19/14	COH003 COHL, STOKER & TOSKEY	44741	08/06/14	11638		\$ 2,392.25	\$ -	\$ 2,392.25
		COMPUTER CHECK							
			44817	09/04/14	11640		\$ 1,139.00	\$ -	\$ 1,139.00
				CHECK TOTALS:			\$ 3,531.25	\$ -	\$ 3,531.25
101072	09/19/14	COV178 COVENANT MEDICAL CENTER	20940 SEPT 2014	09/07/14	11625		\$ 100.50	\$ -	\$ 100.50
		COMPUTER CHECK							
			21654 SEPT 2014	09/16/14	11627		\$ 15.50	\$ -	\$ 15.50
			22412 SEPT 2014	09/07/14	11626		\$ 12.00	\$ -	\$ 12.00
				CHECK TOTALS:			\$ 128.00	\$ -	\$ 128.00
101073	09/19/14	CRY023 CASAIR-CRYSTAL AUTO SYSTEM	154799	09/01/14	11613		\$ 1,500.00	\$ -	\$ 1,500.00
		COMPUTER CHECK							
				CHECK TOTALS:			\$ 1,500.00	\$ -	\$ 1,500.00

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101074	09/19/14	FIS042	080714	08/07/14	11648		\$ 6.00	\$ -	\$ 6.00
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 6.00	\$ -	\$ 6.00
101075	09/19/14	GAN035 GANNETT MICHIGAN NEWSPAPER	2113280394	08/31/14	11630		\$ 586.88	\$ -	\$ 586.88
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 586.88	\$ -	\$ 586.88
101076	09/19/14	GRA009 GRATIOT COUNTY HERALD	102	08/29/14	11653		\$ 11.75	\$ -	\$ 11.75
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 11.75	\$ -	\$ 11.75
101077	09/19/14	HOS101 HOSPITAL NETWORK HEALTHCARE	33272	08/31/14	11649		\$ 118.00	\$ -	\$ 118.00
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 118.00	\$ -	\$ 118.00
101078	09/19/14	IMP002 IMPREST CASH-MONTCALM	081414	08/14/14	11654		\$ 9.30	\$ -	\$ 9.30
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 9.30	\$ -	\$ 9.30
101079	09/19/14	LIN061 LINCOLN FINANCIAL GROUP	OCTOBER 2014	09/10/14	11629		\$ 530.03	\$ -	\$ 530.03
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 530.03	\$ -	\$ 530.03
101080	09/19/14	MDCH59 MICHIGAN DEPT OF COMM HEALTH	CL14-110905	09/04/14	11670		\$ 77.08	\$ -	\$ 77.08
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 77.08	\$ -	\$ 77.08
101081	09/19/14	MEM002 MEMA MI EMERG MGT ASSOC	75	07/02/14	11658		\$ 200.00	\$ -	\$ 200.00
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 200.00	\$ -	\$ 200.00
101082	09/19/14	MIC006 MICHIGAN DEPT OF AGRICULTURE	53766	08/19/14	11660		\$ 2,529.00	\$ -	\$ 2,529.00
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 2,529.00	\$ -	\$ 2,529.00
101083	09/19/14	MIC116 MICHIGAN GRAPHICS & SIGNS	13794	09/15/14	11650		\$ 400.00	\$ -	\$ 400.00
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 400.00	\$ -	\$ 400.00
101084	09/19/14	MIC171	082814	08/28/14	11647		\$ 4.32	\$ -	\$ 4.32
		COMPUTER CHECK							
			CHECK TOTALS:				\$ 4.32	\$ -	\$ 4.32

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101085	09/19/14	MIS005 MISDU/FRIEND OF COURT	9/19/14	09/17/14	11672		\$ 234.68	\$ -	\$ 234.68
		COMPUTER CHECK	913105050		EMPLOYEE DEDUCTION				
			CHECK TOTALS:				\$ 234.68	\$ -	\$ 234.68
101086	09/19/14	MNA004 MICHIGAN NURSES ASSOCIATION	SEPTEMBER 2014	09/17/14	11671		\$ 541.10	\$ -	\$ 541.10
		COMPUTER CHECK	DUES						
			CHECK TOTALS:				\$ 541.10	\$ -	\$ 541.10
101087	09/19/14	MOS084 MOS/MICHIGAN OFFICE SOLUTION	CM09669	09/16/14	11634		\$ (41.93)	\$ -	\$ (41.93)
		COMPUTER CHECK	CREDIT GBO CHED COPIER						
			IN199902	09/04/14	11633		\$ 560.29	\$ -	\$ 560.29
			GBO CHED COPIER OVERAGE						
			CHECK TOTALS:				\$ 518.36	\$ -	\$ 518.36
101088	09/19/14	NAT016 NRFSP	G1307310780	07/31/13	11639		\$ 700.00	\$ -	\$ 700.00
		COMPUTER CHECK	9539360-1		GRATIOT FOOD TESTS				
			CHECK TOTALS:				\$ 700.00	\$ -	\$ 700.00
101089	09/19/14	NEH002 NEHA TRAINING	258410	08/31/14	11652		\$ 275.00	\$ -	\$ 275.00
		COMPUTER CHECK	9544228-1		MONTCALM FOOD TESTS				
			258510	08/21/14	11651		\$ 275.00	\$ -	\$ 275.00
			9545320-1		MONTCALM FOOD TESTS				
			CHECK TOTALS:				\$ 550.00	\$ -	\$ 550.00
101090	09/19/14	NOV039 NOVARTIS VACCINES/DIAGNOSIS	91896057	09/01/14	11645		\$ 164.24	\$ -	\$ 164.24
		COMPUTER CHECK	MONTCALM MENVEO/JUNE 2014						
			91896058	09/01/14	11643		\$ 410.60	\$ -	\$ 410.60
			CLINTON MENVEO/JUNE 2014						
101090	09/19/14	NOV039 NOVARTIS VACCINES/DIAGNOSIS	91896059	09/01/14	11644		\$ 328.48	\$ -	\$ 328.48
			GRATIOT MENVEO/JUNE 2014						
			CHECK TOTALS:				\$ 903.32	\$ -	\$ 903.32
101091	09/19/14	NUR008 NURSE ADMINISTRATORS FORUM	2014-2015	08/18/14	11655		\$ 50.00	\$ -	\$ 50.00
		COMPUTER CHECK	TABOR FULL MEMEBERSHIP						
			CURRIE 2014-15	08/26/14	11656		\$ 35.00	\$ -	\$ 35.00
			ASSOCIATE MEMBERSHIP						
			CHECK TOTALS:				\$ 85.00	\$ -	\$ 85.00
101092	09/19/14	OFF001 OFFICEMAX INCORPORATED	990140	09/05/14	11665	016006-00	\$ 86.58	\$ -	\$ 86.58
		COMPUTER CHECK	COPY PAPER						
			CHECK TOTALS:				\$ 86.58	\$ -	\$ 86.58

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101093	09/19/14	OPT016 OPTUMINSIGHT	37471782	09/01/14	11632		\$ 117.13	\$ -	\$ 117.13
		COMPUTER CHECK							
							\$ 117.13	\$ -	\$ 117.13
101094	09/19/14	QUI003 QUILL CORPORATION	5846585	09/04/14	11667	016004-00	\$ 57.98	\$ -	\$ 57.98
		COMPUTER CHECK							
			5846596	09/04/14	11669	016008-00	\$ 29.99	\$ -	\$ 29.99
			5949592	09/09/14	11661	016003-00	\$ 31.98	\$ -	\$ 31.98
							\$ 119.95	\$ -	\$ 119.95
101095	09/19/14	R&S005 R&S NORTHEAST LLC	58276	09/09/14	11664	016012-00	\$ 496.45	\$ -	\$ 496.45
		COMPUTER CHECK							
							\$ 496.45	\$ -	\$ 496.45
101096	09/19/14	RAY060 RAYCRAFT ROGER	27683	09/10/14	11628		\$ 81.00	\$ -	\$ 81.00
		COMPUTER CHECK							
							\$ 81.00	\$ -	\$ 81.00
101097	09/19/14	STA002 STATE OF MICHIGAN/DEQ	874364	08/22/14	11636		\$ 25.00	\$ -	\$ 25.00
		COMPUTER CHECK							
			874747	08/28/14	11660		\$ 1,258.00	\$ -	\$ 1,258.00
							\$ 1,283.00	\$ -	\$ 1,283.00
101098	09/19/14	TEA001 TEAMSTERS LOCAL 214		SEPTMEBER 2014 09/17/14	11676		\$ 1,841.73	\$ -	\$ 1,841.73
		COMPUTER CHECK							
							\$ 1,841.73	\$ -	\$ 1,841.73
101099	09/19/14	TEA031 TEAM FINANCIAL GROUP, INC	113095	09/11/14	11631		\$ 3,999.42	\$ -	\$ 3,999.42
		COMPUTER CHECK							
							\$ 3,999.42	\$ -	\$ 3,999.42
101100	09/19/14	THE027 THERMOWORKS, INC.	INV-11964630	09/09/14	11663	016009-00	\$ 194.99	\$ -	\$ 194.99
		COMPUTER CHECK							
							\$ 194.99	\$ -	\$ 194.99
101101	09/19/14	TOB018 TOBACCO-FREE MICHIGAN	14/15	09/02/14	11641		\$ 50.00	\$ -	\$ 50.00
		COMPUTER CHECK							
							\$ 50.00	\$ -	\$ 50.00

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#	INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO	AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
101102	09/19/14	UNI001 UNITED WAY OF MONTCALM CO	9/19/14	09/17/14	11675		\$ 63.00	\$ -	\$ 63.00
		COMPUTER CHECK							
		CHECK TOTALS:					\$ 63.00	\$ -	\$ 63.00
101103	09/19/14	UNI009 UNITED WAY OF GRATIOT CO	9/19/14	09/17/14	11674		\$ 64.00	\$ -	\$ 64.00
		COMPUTER CHECK							
		CHECK TOTALS:					\$ 64.00	\$ -	\$ 64.00
101104	09/19/14	VOI018 VOICES FOR HEALTH	15472	08/19/14	11635		\$ 376.48	\$ -	\$ 376.48
		COMPUTER CHECK							
		CHECK TOTALS:					\$ 376.48	\$ -	\$ 376.48
101105	09/19/14	WES075 WEST BAY BEACH	61967716	07/16/14	11659		\$ 193.14	\$ -	\$ 193.14
		COMPUTER CHECK							
		CHECK TOTALS:					\$ 193.14	\$ -	\$ 193.14
101106	09/19/14	FIR003 FIRST NATIONAL BANK OMAHA	3709 AUG 2014	09/03/14	11614		\$ 97.58	\$ -	\$ 97.58
		COMPUTER CHECK							
		CHECK TOTALS:					\$ 97.58	\$ -	\$ 97.58
101106	09/19/14	FIR003 FIRST NATIONAL BANK OMAHA	8046 AUG 2014	09/03/14	11615		\$ 49.41	\$ -	\$ 49.41
			9571 AUG 2014	09/03/14	11616		\$ 682.59	\$ -	\$ 682.59
			9571 AUG 2014-1	09/03/14	11617 015086-00		\$ 24.99	\$ -	\$ 24.99
			9571 AUG 2014-2	09/03/14	11618 015080-00		\$ 24.99	\$ -	\$ 24.99
			9571 AUG 2014-3	09/03/14	11619 015087-00		\$ 23.58	\$ -	\$ 23.58
			9571 AUG 2014-4	09/03/14	11620 015088-00		\$ 33.99	\$ -	\$ 33.99
			9571 AUG 2014-5	09/03/14	11621 015097-00		\$ 9.22	\$ -	\$ 9.22
			9571 AUG 2014-6	09/03/14	11622 015099-00		\$ 40.99	\$ -	\$ 40.99
			9571 AUG 2014-7	09/03/14	11623 016001-00		\$ 226.20	\$ -	\$ 226.20
		CHECK TOTALS:					\$ 1,213.54	\$ -	\$ 1,213.54

ACCOUNTS PAYABLE CHECK REGISTER

CHECK NO	CHECK\VOID DATE	REMIT-TO NAME VENDOR-#
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INVOICE NO	INVOICE DATE	VOUCH#	P.O.-NO
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AMOUNT PAID	DISCOUNT TAKEN	CHECK AMOUNT
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BANK CODE TOTALS:	\$ 33,090.01	\$ -	\$ 33,090.01
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42 COMPUTER CHECKS
 0 MANUAL PAYMENT CHECKS
 0 VOID CHECKS - TRX
 0 VOID CHECKS - STUBS
 0 VOID CHECKS - ERROR
 0 VOID CHECKS - FORM ALIGNMENT
 0 DIRECT DEPOSITS
 42 CHECKS TOTAL

COMPANY TOTALS:	\$ 33,090.01	\$ -	\$ 33,090.01
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MID-MICHIGAN DISTRICT HEALTH DEPARTMENT

An Accredited Local Public Health Department

www.mmdhd.org

CLINTON
Branch Office
1307 E. Townsend Rd.
St. Johns, MI 48879-9036
(989) 224-2195

GRATIOT
Branch Office
151 Commerce Drive
Ithaca, MI 48847-1627
(989) 875-3681

MONTCALM
Branch Office
615 N. State St., Ste. 1
Stanton, MI 48888-9702
(989) 831-5237

ADMINISTRATIVE OFFICES
615 N. State St. Ste. 2
Stanton, MI 48888-9702
(989) 831-5237

MARK W. (MARCUS) CHEATHAM
Health Officer

ROBERT GRAHAM, DO, MPH, FAAFP
Medical Director



BOARD OF HEALTH
Bruce DeLong
Jack A. Enderle
Betty Kellenberger
Jane Keon
Tom Lindeman
Laura McCollum

MEMORANDUM

NOTE:
There will not be an August 2014 Highlights Report due to revised budget considerations.

TO: Board of Health

FROM: Melissa Bowerman, Administrative Services Director

DATE: September 19, 2014

SUBJECT: Amended Fiscal Year 13/14 Budget Recommendation

Annually during the last quarter of each fiscal year, an estimate is made of actual revenues and expenditures related to budgeted line items in the current fiscal year budget. This is done to assure the budget remains in balance for the remainder of the fiscal year. If necessary, amendments or adjustments will be recommended to the Board of Health (BOH).

The recommended line item adjustments as a result of this year's review are referenced in the "proposed budget" column located on the far right hand side of the attached Revenue and Expense report (dated August 2014). The rationale for these adjustments is outlined below.

Revenues

- **Environmental Health Fees** – Overall, the Environmental Health fees are higher than projected due to a higher demand for services and also partially due to the surcharge in Montcalm County.
- **Community Health & Education (CHED) Fees** – The most significant variances in the CHED Fees are in the Maternal Infant Health Program (MIHP), Immunizations and Varnish. There are multiple factors that have contributed to the difference in the MIHP program; however, the most significant is the vacancy that occurred during the beginning of the fiscal year. Immunization fees are higher than projected due to commercial billing of private pay vaccines. As was discussed with the BOH, the WIC Varnish program was delayed in getting started which led to significantly lower than estimated revenue.
- **Montcalm County Appropriation** – Adjusted to reflect actual county appropriation which is, in part, supported by Montcalm Environmental Health fee surcharges.
- **Cigarette Tax** – Adjusted to reflect the actual funding received.

- **Deferred Revenue** – This line item represents the BOH approved use of fund balance and also Dental Outreach deferred revenue funding to partially offset the lower than budgeted WIC Varnish fees discussed above.

Expenditures

- **Salaries** – Some vacancies throughout the year led to lower than budgeted amounts.
- **CD/Biologics** – Increased due to carrying more private pay vaccine since we are billing commercial insurance.
- **Postage** – As discussed with the BOH, the main reason for the overage in postage is due to more use in the MCIR program.
- **Office Supplies** – There has been a larger need for supplies than originally anticipated.
- **Behavioral Risk Factor Survey** – It was originally decided not to participate in the BRFS; however, after careful consideration, it was decided that the information was too valuable to not participate.
- **Fund Balance Items** – After the close of last fiscal year, the BOH authorized the use of fund balance for equipment purchases, PHAB accreditation fees, computer supplies and exam tables.

The total budget is expected to increase from \$5,770,539 to \$5,848,917. There are NO increases in county allocations being requested as a result of this budget amendment. Any increases in expenses have been offset by increased revenues. Accordingly, I am recommending BOH approval of the FY 13/14 Proposed Budget Amendment.

Attachment



MID-MICHIGAN DISTRICT HEALTH DEPARTMENT

An Accredited Local Public Health Department

www.mmdhd.org

CLINTON
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MARK W. (MARCUS) CHEATHAM
Health Officer

ROBERT GRAHAM, DO, MPH, FAAFP
Medical Director



BOARD OF HEALTH
Bruce DeLong
Jack A. Enderle
Betty Kellenberger
Jane Keon
Tom Lindeman
Laura McCollum

MEMORANDUM

TO: Board of Health
FROM: Melissa Bowerman, Director of Administrative Services
DATE: September 19, 2014
SUBJECT: FY 14/15 Fee Changes

Environmental Health Fee, Irrigation Well Permit Application

A fee for Irrigation Well Permit Application was missed on the fee schedule previously approved by the Board of Health for Fiscal Year 14/15. The fee for this, consistent with similar services offered by the Mid-Michigan District Health Department, is \$333.

Community Health and Education Fees, Intrauterine Contraceptive Methods

The cost for the Intrauterine Contraceptive Methods (Paraguard IUD and Mirena IUS) provided in the Family Planning clinic has increased recently. Additionally, there is a higher reimbursement rate offered by commercial insurances than is currently being billed. I am requesting an increase in fees as follows: \$485 for Paraguard and \$670 for Mirena.

Therefore, I am requesting the Board of Health to approve the three fees as outlined below effective October 1, 2014:

Environmental Health Division	
Irrigation Well Permit Application	\$333
Community Health and Education Division	
Paraguard IUD	\$485
Mirena IUS	\$670

EMPLOYMENT AGREEMENT

This Employment Agreement is made and entered into this 24th day of September, 2014 effective October 1, 2014, by the MID-MICHIGAN DISTRICT HEALTH DEPARTMENT BOARD OF HEALTH (“the Board”) and MARK CHEATHAM (“the Employee”).

1. Employment

In accordance with the terms of this Employment Agreement, the Board employs the Employee as the Health Officer for the Mid-Michigan District Health Department.

2. Term of Employment

Both parties recognize that the Employee’s employment in the position of Health Officer shall be completely at the will and pleasure of the Board. The Employee and this Employment Agreement may be terminated by a vote of five of the six sitting members of the Board, with or without cause.

3. Education, Training and Certification

The Employee represents that they have all the education, training and certification that may be required for the position of Health Officer.

4. Compensation

The Employee shall be compensated on a bi-weekly basis based upon the wage band established by the Board of Health (see attached wage band). Any changes in compensation during the term of the contract will be consistent with non-union wage adjustments. A performance review will be completed by the Board of Health annually.

5. Fringe Benefits

The Health Officer shall receive the following fringe benefits:

- a) Health, dental, disability and life insurance equivalent to the benefits provided by the Department to non-unionized personnel;
- b) Bereavement leave pay and sick leave pay benefits equivalent to the benefits provided by the Department to non-unionized personnel;
- c) Vacation leave equivalent to the benefit provided by the Department to non-unionized personnel. The accrual of such vacation leave shall be calculated in the same manner as the method used for the Department’s non-unionized personnel and the maximum accumulation of such leave shall also be calculated in the same manner as the method used for the Department’s non-unionized personnel;
- d) Personal leave each year equivalent to the benefit provided by the Department to non-unionized personnel;

- e) Mileage, travel, meals and lodging reimbursement equivalent to the benefits provided by the Department to non-unionized personnel;
- f) Pension:
 - i) Program: Michigan Employees Retirement System Benefit B-3;
 - ii) Benefit: 2.25% of the member's final average compensation multiplied by years and months of credited service, but not to exceed 80% of the member's final average compensation;
 - iii) Final Average Compensation: Average of the highest 60 consecutive months of earnings;
 - iv) Employee Contribution: 3% of wages;
 - v) Vesting: 10 years, retirement age 60;
- g) Professional dues and subscriptions. The Board agrees, within budget limitations, and subject to the Board's approval, to pay for the professional dues and subscriptions of the Employee necessary for the Employee's continuation and full participation in national, state, regional, and local associations necessary and desirable for the Employee's continued professional participation, growth, and advancement, and for the good of the Department;
- h) Professional committees, conferences and trainings. Consistent with the job description, the Employee may attend professional meetings, conferences, and trainings. Reasonable expenses for such professional in-State travel attended by the Health Officer will be paid by the department. Payment for out-of-state professional travel is subject to Board approval. A summary of attendance at professional committees, conferences, and trainings shall be included in the Health Officer's report to the Board.

6. Notice of Termination

The Board reserves the right to terminate this Employment Agreement and to end the Employee's employment with or without cause of any nature to the Employee. If the Board gives less than sixty (60) days' notice that it intends to terminate this Employment Agreement and the Employee's employment, it will pay to the Employee the difference, if any, between sixty (60) days' pay at the Employee's then current salary and the salary amount attributable to the notice actually given to the Employee. Sixty (60) days of continued health insurance coverage will be granted, unless the Board terminates for just cause.

In the event termination of this Employment Agreement is initiated by the Employee, the Employee shall provide sixty (60) days' written notice to the Board. The Employee's failure to do so shall result in the forfeiture of any accumulated vacation pay.

7. Return of Property

Upon termination of employment, the Employee shall immediately return all Department documents, correspondence, files, papers, or property of any kind which the Employee may have in his possession or control.

8. Supplemental Employment

The Employee must receive written approval of the Board before engaging in outside or supplemental employment. In no case shall outside or supplemental employment conflict with or impair the Employee's responsibilities to the Board.

9. Job Duties

The Employee shall perform all duties as required by the Board and outlined in the Employee's job description. The Employee agrees that at all times they will, faithfully and to the best of their ability, experience, and talents, perform all the duties that may be required of them. The Employee shall report to the Board and/or such other representative as may be designated by the Board.

10. Insurance

The Employee shall be covered by the Board's existing general liability insurance policy.

11. Compliance With The Law

The Employee shall perform all of their duties and obligations in complete compliance with all applicable Federal, State, and local laws, ordinances, rules, and regulations, and shall adhere to all of the Board's policies and procedures.

12. Invalid Provisions

If any provision of this Employment Agreement is held to be invalid by a court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby.

13. Modification of Agreement

This Employment Agreement may be modified only by the mutual written consent of both parties.

14. Complete Agreement

This Employment Agreement shall supercede any and all prior contractual arrangements between the parties and shall serve as the sole basis for the Employee's employment.

15. Authorization To Enter Into Agreement

This Employment Agreement has been approved by the Board on September 24, 2014 approving its terms and authorizing the Board's Chairperson to sign it on the Board's behalf. A copy of the Minutes of the Regular Board Meeting held September 24, 2014, is attached and incorporated by reference.

16. Expiration of Agreement

This Employment Agreement shall expire and terminate at 11:59 p.m., September 30, 2016.

MID-MICHIGAN DISTRICT HEALTH
DEPARTMENT BOARD OF HEALTH

Dated: _____, 2014

By: _____
Laura McCollum, Chairperson
"Board"

Dated: _____, 2014

By: _____
Mark Cheatham, Health Officer
"Employee"

Health Officer Wage Band

The wage bands listed below were established and approved by the Board of Health at their regularly scheduled meeting on Wednesday, September 24, 2014.

Wage Band Effective October 1, 2014 through September 30, 2015 (based on 2,088 hours) 2% Increase Effective October 1, 2014 through September 30, 2015, the following wage schedule shall become effective:

P	1	2	3	4	5
\$89,804.88	\$92,936.88	\$96,089.76	\$99,221.76	\$102,353.76	\$105,485.76
\$43.01	\$44.51	\$46.02	\$47.52	\$49.02	\$50.52

Wage Band Effective October 1, 2015 through September 30, 2016 – Follow non-union wage adjustment when determined.



Report to the Boards of Health
Mid-Michigan District Health Department, September 24, 2014 10:00 a.m.
Central Michigan District Health Department, September 24, 2014 4:00 PM
District Health Department Number 10, September 26, 2014
Robert Graham, DO, MPH, Medical Director

- Infectious Disease Soup

More than ever we are aware of many different types of infectious diseases. Some are new and some are old, but new again. Infectious diseases can be identified with unprecedented speed. DNA and RNA testing make recognition and categorizing contagious agents fast and somewhat easy. Equally quick is the speed with which information about an outbreak spreads. Sometimes the ease of communication allows for rumor and innuendo to overcome facts. Reliable and accurate information is often drowned out by sensationalism and controversy. Below is information that is based on research by reputable people that have devoted their scientific lives to thwart disease.

Pertussis/Whooping Cough was seen in every county of our three district health departments. Unvaccinated and under-vaccinated people were more likely to get whooping cough and spread the disease throughout our communities. We focused our efforts on finding cases and offering vaccination against Pertussis/Whooping Cough.

Middle East Respiratory Syndrome (MERS-CoV) has not appeared in our three districts. We led the effort to prepare hospitals, urgent care offices, emergency personnel and colleges to create awareness of this disease.

Ebola Virus/Ebola Hemorrhagic Disease has killed at least 3,000 people in West Africa. Any risk to people in the United States is very low. We have provided information to healthcare providers regarding precautions, testing, and reporting.

Enteroviruses are common germs that usually cause an upset stomach and or a diarrheal illness. Most people infected with an enterovirus will experience only mild symptoms. A worse reaction usually occurs in the very young, the very old, and people with weakened immune systems. An old strain of enterovirus called Enterovirus 68 (EV-D68) has reemerged. EV-D68 was first diagnosed in 1962. Little was heard about EV-68 until about two months ago when there was an outbreak of the disease in Kansas City and Chicago. EV-D68 is seen mainly in children. The unusual thing about EV-D68 is that it is more likely to cause respiratory symptoms than gastrointestinal symptoms.

West Nile Virus (WNV) is still around and will probably be around until every mosquito vanishes from the Earth. There have been fewer cases this year as compared to last year's increased number of cases.

On average, in the last 10 years, there have been 36,000 deaths in the United States from influenza-related illness. Many of these deaths were preventable with a flu shot.

The common thread in every one of the above infectious diseases is: preventable. In all of our communications with the public and healthcare providers we stress the element of prevention and preparedness.

Recommendation of the Board of Health:

Everyone over the age of six months should get a flu shot. Everyone two months of age and older should begin vaccination against whooping cough or have a completed series against whooping cough.



MID-MICHIGAN DISTRICT HEALTH DEPARTMENT

An Accredited Local Public Health Department

www.mmdhd.org

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Medical Director



BOARD OF HEALTH
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Laura McCollum

MEMORANDUM

TO: Board of Health

FROM: Marcus Cheatham, Health Officer

DATE: September 19, 2014

RE: Travel Request for Fall 2014

As you have not yet, at this time, approved my new contract, I must request your approval to travel to the Joint Public Health Informatics Task Force (JPHIT) face-to-face meeting in Washington, D.C. on October 29th and 30th. As is familiar to you by now, this travel is related to my role as Co-Chair of JPHIT. The National Association of County and City Health Departments (NACCHO) has taken over a fiduciary role for JPHIT from the Public Health Informatics Institute and will be paying for all my travel expenses. It is my recommendation that Melissa Bowerman be appointed as Acting Health Officer in my absence.

JPHIT has enjoyed a great deal of success in the past two years—mostly due to the outstanding staff in the two lead agencies which comprise it, NACCHO and the Association of State and Territorial Health Officers (ASTHO). At this meeting JPHIT will be discussing a request from the Centers for Disease Control and Prevention (CDC) to inform Congress about issues related to integrating the nation's multiple surveillance systems, meeting with Dr. Karen DeSalvo from the Office of the National Coordinator to discuss next steps for Meaningful Use and planning an outreach effort to improve the health care community's understanding of how public health can help them gain access to important health information.

Thank-you for your support of my work with JPHIT, an organization which I believe benefits the whole public health system.



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Medical Director



BOARD OF HEALTH
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Tom Lindeman
Laura McCollum

MEMORANDUM

TO: Board of Health

FROM: Mark W. (Marcus) Cheatham, Ph.D., Health Officer

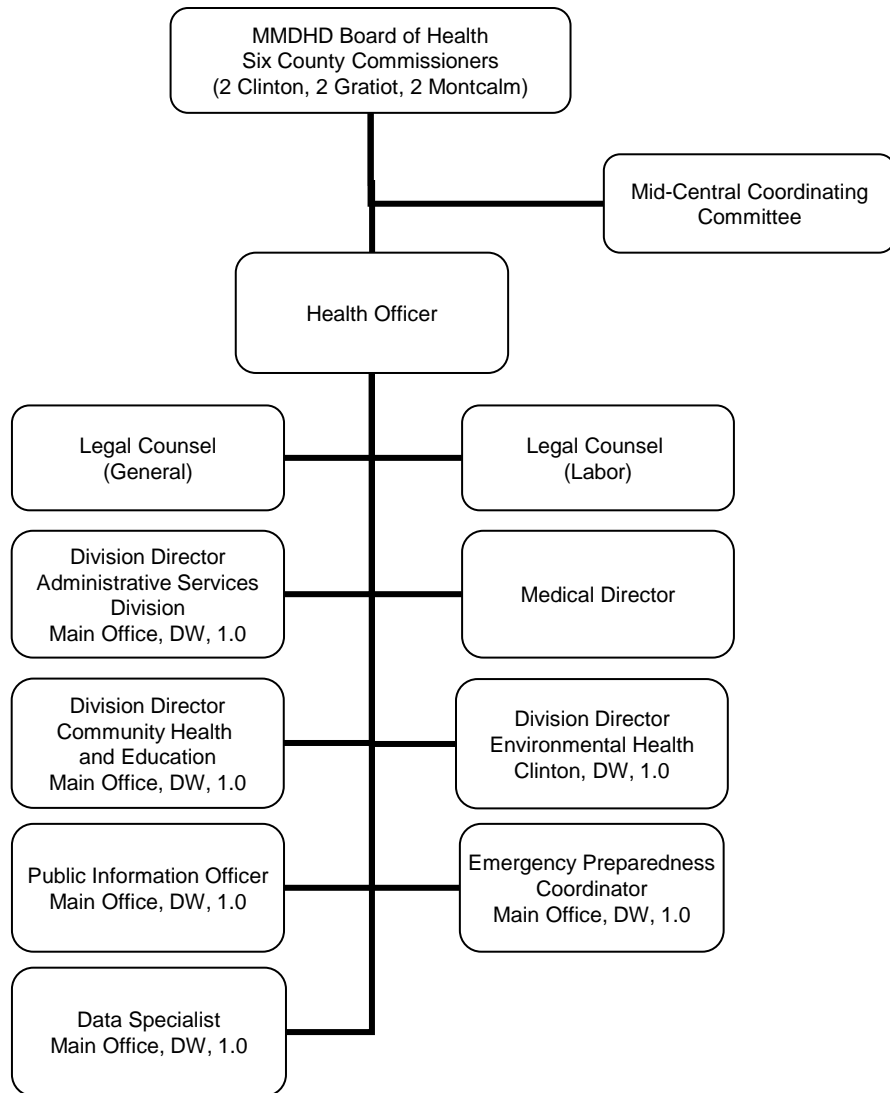
DATE: September 19, 2014

SUBJECT: Health Officer Coverage During Annual Leave

I will be taking annual leave from Saturday, September 27, 2014 through Sunday, October 5, 2014. In my absence, Melissa Bowerman, Director of the Administrative Services Division will assume responsibility for the day-to-day operation of the department, designated as the Person in Charge as per the attached Continuity of Leadership Policy approved by the Board of Health on March 28, 2014.

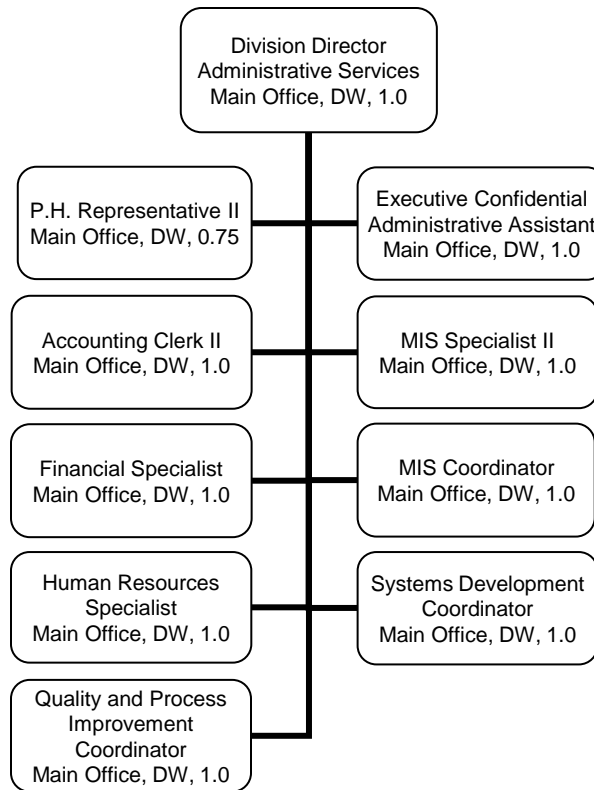
FY 14-15

Mid-Michigan District Health Department



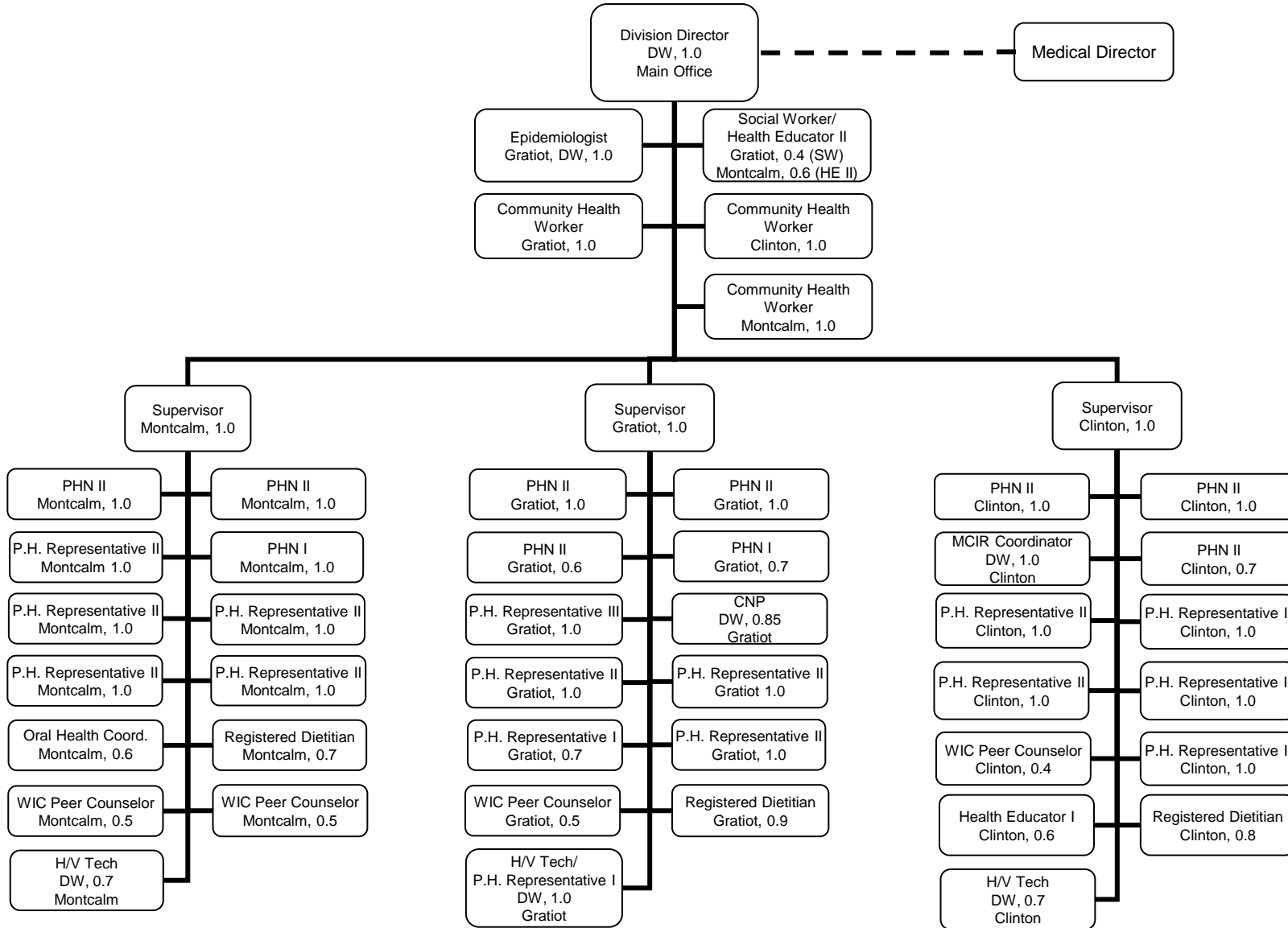
FY 14-15

Mid-Michigan District Health Department Administrative Services Division



FY 14-15

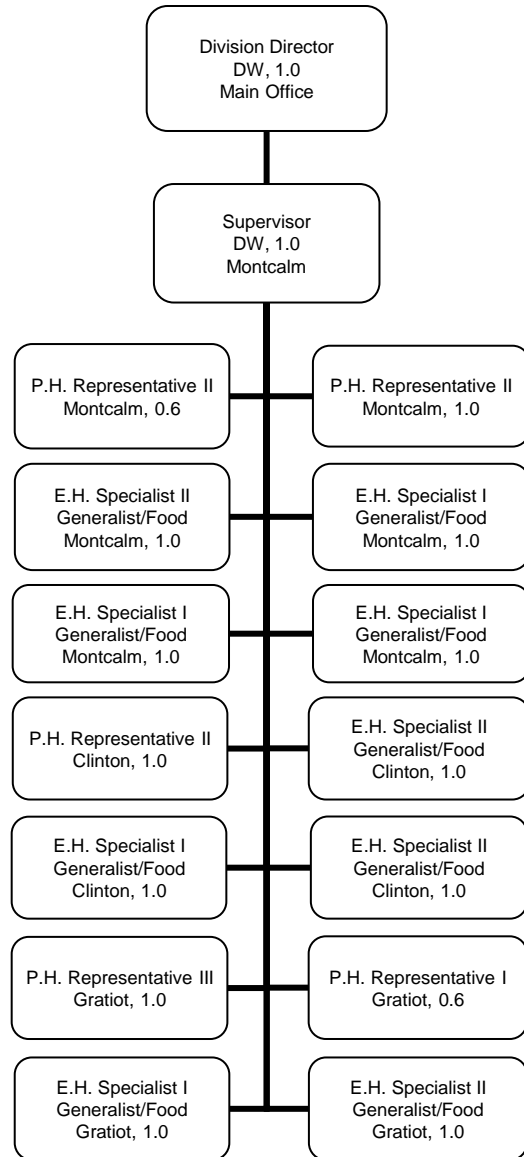
Mid-Michigan District Health Department Community Health and Education



51

FY 14-15

Mid-Michigan District Health Department Environmental Health Division



Board of Health Actions and Outcomes
August – 2013 through August 2014
Edited for Conciseness

August 2013

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendations for the month of September:

To reduce the likelihood of contracting swimmer's itch:

⇒ *Thoroughly rinse off each time you leave the lake or vigorously towel off after leaving the lake.*

⇒ *Remove rip-rap from around your favorite swimming area.*

⇒ *Do not feed or encourage waterfowl to remain in your favorite swimming*

- The Board of Health approved a proposal from Winn Telecom for new agency telephone service saving the agency approximately \$5,000 per year over the agency's current vendor. Additionally, the proposal included fiber internet services as well which will be used as a back-up when the agency's current vendor experiences connectivity issues while converting over to fiber. The agency has been losing internet connection frequently which caused operations to cease, in particular access to electronic medical records in the clinics. Winn Telecom internet would be used in the event of an internet outage.

Phone quality and Internet speed are significantly improved. Insight is fast and stable. Videoconference quality is very good.

- The Board of Health also approved by a 4-1 vote (T. Lindeman voted no) a counterproposal from Administration for the non-union employees to receive a 2%-2% wage increase and a 2-year agreement effective October 1, 2013.

September 2013

- The Board of Health approved the agency's FY 12/13 Amended Budget.

- In an effort to save costs and provide additional services, the agency changed lab providers. With this change, the agency was able to provide testing for Herpes Simplex Virus (HSV). The Board of Health approved the Herpes Simplex Culture testing fee of \$10.25.

Other lab fees for Chlamydia (\$7.75) and Gonorrhea (\$15.00) were also lower through the new partnership with Covenant Lab as hoped.

- The Board of Health authorized the agency to pay the cost for two new dental clinic chairs and associated equipment for the Community-Based Clinic in St. Johns to the Michigan Community Dental Clinics, Inc. (MCDC) as proposed, not to exceed \$17,780.

The chairs were installed.

- The Board of Health authorized the Board Chair to sign a letter inviting District Health Department #10 Board of Health to join the Mid-Central Coordinating Committee.

MCCC has not met since DHD#10 joined. The Health Departments have disagreed about sharing costs. This is one action that did not have the expected outcome.

- The Board of Health authorized M. Cheatham to draft a letter to the Michigan Department of Community Health (MDCH) for consideration at the October Regular Board meeting urging them to consider combining the National Voluntary Public Health Accreditation program and the local public health accreditation system for the State of Michigan, supporting B. Gouin's recommendation that the State provides technical assistance to local public health departments through the quality improvement process.

Marcus was asked by MDCH to chair a statewide committee, called the Efficiencies Committee, on finding ways to bring the two accreditation systems together. MDCH accepted the committee's recommendations, which call for making local accreditation a "roadmap" to national accreditation.

October 2013

- The agency successfully passed accreditation and the staff will be presented with an Accreditation Certificate in December. Commissioners are encouraged to attend one of the follow presentations: Community Health & Education Staff Meeting at the Gratiot-Isabella RESD in Ithaca on Friday, December 6th at 9 a.m. or Environmental Health and Administrative Services staff at the Montcalm County Administrative Offices in Stanton on Thursday, December 12th at 9 a.m. Mark Miller, Director of Local Health Services, at the Michigan Department of Community Health will attend to present the award.

In the past the presentations were made to County Boards of Commissioners. This time the BOH decided it should be for staff. Staff said they were very excited to hear how highly regarded the Department is.

- Dr. Graham explained the goals of the American Board of Internists and the American Academy of Family Physicians to make recommendations based on research on health outcomes, scrutinizing the standards of care to ensure situations are handled producing more benefit than harm. The Board of Health approved the following Monthly Board of Health Healthy Living Recommendations for the month of November:
 - That patients talk to their doctor about the risks and benefits of the plan of care prescribed by their doctor.
 - The Board of Health recommends that uninsured or underinsured people sign up for health insurance.
- The Board of Health received an update regarding the Affordable Care Act and the agency's activities. The agency is now a Certified Application Counselor organization and has two trained staff assisting residents with the process district-wide. The Board approved an increase of .15 FTE for one of the temporary part-time staff.

Medicaid and Marketplace enrollment in Gratiot and Montcalm counties significantly exceeded statewide averages.

November 2013

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendations for the month of December:
 - Get a flu shot before going to Grandma's House for Thanksgiving.
 - Baked yams, sweet potatoes, and baking potatoes are a good source of nutrients. They are an excellent and economical source of calories.
 - Have a Happy Thanksgiving!
- The Board of Health approved use of the Eljen Geotextile Sand Filter septic system within the district.

The systems turned out to be too expensive for the local market and none have been installed. Elgen may ask for approval of an alternate plan in the future.

December 2013

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendations for the month of January:
 - Read and follow directions for all pesticides used in the home. Never use pesticides intended for outdoor use inside the home.

January 2014

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of February:
 - Get a flu shot
 - Encourage new moms to breastfeed their babies for at least the first six months.
- The Board of Health took action to enforce the Food Code by establishing a Formal Hearing Board to convene a Formal Hearing to consider limiting, suspending, or revoking the Food Service License for the Classic Pub & Grill in DeWitt. Commissioners Tom Lindeman (Montcalm County) and Jack Enderle (Clinton County) will serve on the Formal Hearing Board, together with Marcus Cheatham. Pursuant to the law, the hearing will be scheduled within 30 days.

Classic Pub did not undertake a corrective plan of action and remains on a limited license.

February 2014

- As the agency is now able to bill commercial insurances, reimbursement became available for several different condyloma (genital warts) treatments. The Board of Health approved fees for the services provided for condyloma treatment effective March 1, 2014.
- Commercial billings are an increasingly sizeable portion of our revenue.*
- Ingham County has offered the agency a grant for a Community Health Worker (CHW) for their Ingham County HUB to connect Clinton County residents to needed services. The grant is for FY 14/15, with the possibility of additional funding in subsequent years. The Board of Health approved the Community Health Worker Job Description at the Teamsters Local 214, T4 level.

The CHW program has been very successful and caseloads are higher than statewide averages.

- The Board of Health approved the purchase of two modules (Case Management and Sexually-Transmitted Diseases) for the agency's Insight Software at a cost of \$15,000 to be paid from the Equipment/Technology fund balance. The modules will improve processes in the clinical programs.

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of March:
 - *Women planning to become pregnant should quit smoking and alcohol consumption, eat food high in folic acid such as leafy green vegetables, fruits, dried beans, peas, nuts*
 - *Women planning pregnancy should see a doctor prior to conception for a health review and prenatal testing and bring mom's immunizations up to date*
 - *After delivery, parents should insist on a smoke-free environment¹*

¹*Evidence-Based Prenatal Care: Part 1. General Prenatal Care and Counseling Issues, April 5, 2005, American Family Physician*

- As a component of the agency's Performance Management System, the Quarterly Service Report (QSR) was modified to make the report more useful and user-friendly. After review of the proposed changes to the Quarterly Service Report, the Board of Health gave their support for the new format.

Using the QSR as a model MIS is moving forward on automating our performance management system.

March 2014

- The Board of Health approved the agency's FY 12/13 Audit which showed an unmodified, clean opinion.
- The Board of Health authorized the agency to pay \$3,788 from the Deferred Revenue Dental Outreach reserve to Sheridan Community Hospital to support a one day per month hospital-based dental clinic serving children and adults with developmental disabilities.

The clinic is up and running and treating patients.

- The agency learned that in conjunction with the fluoride varnish applications provided in the Women, Infants, and Children's Program, it was possible to bill for oral screenings performed by a Public Health Nurse. The Board of Health approved a \$15.00 oral screening fee retroactive to March 1, 2014.

MIS has programmed a WIC fluoride varnish module in Insight and the billing is going smoothly.

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of March:
 - *Whooping cough continues to spread through our communities. Pregnant women, family members and care givers of newborns are urged to get vaccinated against whooping coughⁱ*

ⁱ*MMWR December 15, 2006 / 55(RR17); 1-33*

- The 2014 County Health Rankings were released for the 82 counties in Michigan and the following are the results for our district:
 - Clinton County ranked 3 for Health Outcomes and Health Factors (improved from 4 to 3 in Health Factors)
 - Gratiot County ranked 48 for Health Outcomes and 44 for Health Factors (improved from 49 to 48 in Health outcomes and 56 to 44 in Health Factors)
 - Montcalm County ranked 27 for Health outcomes and 42 for Health Factors (improved from 50 to 42 in Health Factors)

April 2014

- The Board of Health approved the use of a new brand of Aerobic Treatment Unit (ATU) within the district, pending receipt of a written recommendation from the Director of Environmental Quality.
- The Board of Health authorized the Board Chairperson to sign Resolution 01-2014 to support restoration of funding for Essential Local Public Health Services (ELPHS).

The State of Michigan did restore the funding to previous levels.

May 2014

- The agency has held discussions with the Montcalm County Controller/Administrator about the possibility of taking over the Montcalm County Solid Waste Program. This would bring additional revenue for the agency; however, the agency would need to hire an additional Environmental Health Sanitarian. After discussion, the Board of Health recommended that Marcus Cheatham and Bob Gouin continue discussions with Montcalm County and bring a detailed proposal before the Board at their June meeting.

MMDHD did take over the program which has been running smoothly.

- Bonnie Havlicek, Director of Community Health and Education Division announced her resignation from her position effective June 27, 2014. The agency would present a staffing plan at the June Special Finance Committee Meeting.
- The Board of Health approved the Hydro-Action Aerobic Treatment System for use within the district.

June 2014

- The Board of Health approved the agency's Staffing Transition Proposal effective June 30, 2014. Andrea Tabor has accepted the Director of Community Health and Education position and her former position of Health Services Administrator will not be filled at this time. The responsibilities of the Health Services Administrator will be distributed to staff with Ross Pope taking on the bulk of the responsibilities for national accreditation and quality improvement; being promoted to Quality & Process Improvement Coordinator. Health department participation in community meetings would be decreasing as a result of the cutbacks.
- The Board of Health approved an Agreement with Montcalm County for Resource Recovery Services.
- The Board of Health approved an Associated Agreement with Central Michigan District Health Department, District Health Department #10, and the Mid-Michigan District Health Department for continued shared physician services.
- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of July:
 - *Users of e-cigarettes should take precautions to keep e-cigarettes and the drug-containing liquids out of reach of children.*
 - *Use of fluorinated community drinking water is a safe and healthy practice.*

July 2014

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of August:
 - *Parents should follow the Safe to Sleep® guidelines to reduce the risks of a child dying from SUIDS. Always put an infant to bed on their back on a firm mattress with nothing in the bed such as a pillow, stuffed animals, and blankets; and the infant should be dressed in clothing that keeps the child comfortably warm and not hot. Infants should not be put to bed with another person.*
 - *Parents are urged to talk to their family doctor about immunizations before they decide whether or not to vaccinate their children.*
- The Board of Health adopted the Well and Septic Stakeholder Committee's recommendations as outlined in the report, *Implementing the Upper Maple River Watershed Plan: Approaches to Decreased Environmental and Public Health Risks from Failing Well and Septic Systems, July 10, 2014*. Additionally, the Board of Health authorized the agency to move forward with the recommendations, with potential funding to support the activities coming from the Clinton County Conservation District.

The recommendations will be presented to the County Commissioners at the Commissioners forum.
- Marcus Cheatham, Health Officer informed the Board that the Michigan Department of Environmental Quality is contemplating a change in the Water Well Program called the Revised Total Coliform Rule (rTCR). This change would significantly increase the amount of testing that facilities on wells that serve water to the public must do (rural businesses, churches, schools, etc.). It would also increase the cost of the Water Well Program. Although no revenues have been identified by the State to offset this.

Health Officers have met with MDEQ and requested that the rules not be implemented without funding.

August 2014

- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of August:
 - *Travel to West Africa should be postponed until there is evidence from the CDC and the World Health Organization that the Ebola virus disease outbreak has ended.*
- The Board of Health also accepted Dr. Graham's recommendation to exclude all unvaccinated children from the school where a case of Pertussis/Whooping Cough is diagnosed in a child until one week after the last case occurs in that school.

Schools were notified of this recommendation.
- The Board of Health approved the hiring of two Community Health Workers (CHWs) for the Pathways to Better Health for Gratiot and Montcalm Counties effective October 1, 2014. Funding to hire the CHWs was received from the Mid-Michigan Health Plan.

This completes a major part of the agency's strategic plan.

Mid-Michigan District Health Department Legislative Update

9/24/2014

- **HB 5801:** This is a very bad bill in which we would thank our veterans for their service by allowing them to become victims of painful and expensive disease. It would exclude war veterans' organizations from the prohibition against smoking in public places. The bill would also expose non-smokers in veterans' organizations to secondhand smoke which is known to be lethal. Amends secs. 12601 & 12905 of 1978 PA 368 (MCL 333.12601 & 333.12905). Last Action: 9/16/2014 referred to Committee on Regulatory Reform
- **HB 5809:** This bill deals with smoking in tobacco specialty retail stores. It would modify the exemption for smoking in specialty stores to match cigar bars. Instead we should make cigar bars match specialty stores. Amends secs. 12601, 12603, 12606a & 12905 of 1978 PA 368 (MCL 333.12601 et seq.). Last Action: 9/16/2014 referred to Committee on Regulatory Reform
- **HB 4271:** This bill is intended to bring coherence to the Michigan Medical Marihuana Act and give local government the ability to permit or prohibit marihuana dispensaries—now called provisioning centers—in their jurisdictions. Public health is concerned about the impact of this bill because we would likely be given the task of ensuring provisioning centers comply with the Food Code without additional funding. The current language in the bill says “The local county health department shall inspect a provisioning center at least annually for compliance with subsections (2) and (3). The provisioning center shall pay for all costs associated with the inspection under this subsection.”
- **HB 5200:** This bill creates a broad definition of a pest infestation and includes it as a reason the state or local health department may issue an order to correct, and assess costs for refusal to comply with order. This bill is intended to address bed bugs. Local public health opposes this bill because bed bugs do not transmit disease, however if passed this bill would make communities expect us to eliminate infestations. Amends sec. 2455 of 1978 PA 368 (MCL 333.2455). TIE BAR WITH: HB 5199'13, HB 5201'13
- **SB 939:** Would remove the exemption from the definition of food establishments for nursing homes, homes for the aged, and adult foster care facilities meaning local public health would have to inspect them. Most of them currently do not comply. We understand that this bill will not come to a vote this year. Amends sec. 1107 of 2000 PA 92 (MCL 289.1107). TIE BAR WITH: SB 0886'14, SB 0887'14, SB 0888'14
- **HB 5523:** Would reform current legislation related to mobile home parks and specify remedies for health and safety violations and provide other reforms. We support tougher regulation on mobile home parks, although this bill needs more work. We understand this bill will not come to a vote this year. Amends secs. 2, 4, 7, 16, 17, 43 & 48 of 1987 PA 96 (MCL 125.2302 et seq.) & adds secs. 48b & 48d.

MID-MICHIGAN DISTRICT BOARD OF HEALTH

Action Items August 2014



- The Board of Health approved the following Monthly Board of Health Healthy Living Recommendation for the month of August:

Travel to West Africa should be postponed until there is evidence from the CDC and the World Health Organization that the Ebola virus disease outbreak has ended.

- The Board of Health also accepted Dr. Graham's recommendation to exclude all unvaccinated children from the school where a case of Pertussis/Whooping Cough is diagnosed in a child until one week after the last case occurs in that school.
- The Board of Health established influenza vaccine fees for the FY 14/15 season and also approved a \$15 administrative fee per vaccine. Additionally, the Board of Health also approved waiving the \$15 administrative fee for county employees receiving influenza vaccine administered by the health department if private pay insurance does not cover the vaccine.
- The Board of Health approved the hiring of two Community Health Workers (CHWs) for the Pathways to Better Health for Gratiot and Montcalm Counties effective October 1, 2014. Funding to hire the CHWs was received from the Mid-Michigan Health Plan.



STAFFING CHANGES

SEPTEMBER - 2014

AS

STATUS	POSITION	BRANCH OFFICE
	<i>No changes</i>	

CHED

STATUS	POSITION	BRANCH OFFICE
NEW HIRE	Dena Kent, PT (0.7 FTE) P.H. Nurse II, Clinton Branch Office effective September 23, 2014	Clinton
VACANCY	FT Community Health Worker, Gratiot Branch Office effective October 1, 2014	Gratiot
VACANCY	FT Community Health Worker, Montcalm Branch Office effective October 1, 2014	Montcalm

EH

STATUS	POSITION	BRANCH OFFICE
	<i>No changes</i>	

Air is Still Contaminated 40 Years after the Michigan Chemical Plant Disaster in St. Louis, Michigan

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S Supporting Information

ABSTRACT: The Michigan Chemical (also known as Velsicol Chemical) plant located in St. Louis, Michigan operated from 1936–1978. During this time, the plant manufactured polybrominated biphenyls (PBBs), hexabromobenzene (HBB), 1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane (DDT), and tris(2,3-dibromopropyl) phosphate (TDBPP), among other products. Due to widespread PBB contamination of Michigan, the plant eventually became a Superfund site, and despite years of cleanup activities, many of the compounds can still be found in the local ecosystem. To investigate the current atmospheric levels and to determine their spatial distributions, we collected tree bark samples from around Michigan and measured the concentrations of these pollutants. For comparison, other organic pollutants, such as polybrominated diphenyl ethers (PBDEs) and organophosphate esters (OPEs), which were not manufactured at the Michigan Chemical plant, were also measured in the same tree bark samples. Our results show levels of PBBs, DDT, and HBB in tree bark collected within 10 km of the Velsicol Superfund site (43, 477, and 108 ng/g lipid wgt., respectively) are 1–2 orders of magnitude higher than at sites located more than 10 km from the site (0.36, 28, and 0.36 ng/g lipid wgt., respectively). Levels of PBDEs and OPEs did not depend on distance from St. Louis. This is the first study on the atmospheric distribution of these chemicals around the Superfund site.



INTRODUCTION

Through a mislabeling accident in 1973, the Michigan Chemical Corp. in St. Louis, Michigan, switched two of its products: polybrominated biphenyls (PBBs), which were intended to be used as a flame retardant in plastics, and magnesium oxide, which was intended to be used as a nutritional additive for dairy cow feed. The result was the widespread PBB contamination of dairy cows in the lower peninsula of Michigan. The public was widely exposed to PBBs by the consumption of milk from these cows, and dairy farmers and their families were exposed by the consumption of contaminated cow meat. Eventually, over 30,000 livestock (cattle and swine), 1,600,000 poultry, and thousands of pounds of eggs, milk, butter, cheese, and dairy feed had to be destroyed.^{1,2}

The Michigan Bureau of Environmental Protection began its investigation of the Michigan Chemical plant in 1974.³ Michigan Chemical ceased production of PBBs in 1974 and merged with Velsicol Chemical Corp in 1976, which closed the plant in 1978.^{4–6} Early studies showed that the plant's soil, the town's groundwater, and the sediment and fish from the adjacent Pine River were contaminated with PBBs, hexabromobenzene (HBB), 1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane (DDT), and tris(2,3-dibromopropyl) phosphate (TDBPP).^{7,8} In 1982, the U.S. Environmental Protection Agency (EPA) reported that the maximum concentrations in Pine River sediment of PBBs, DDT, and HBB were 330,

26,000, and 9,300 $\mu\text{g/g}$, respectively.⁹ As a result, in 1982, Velsicol Chemical, the State of Michigan, and the EPA entered into a consent decree, and the main plant site was included on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List and became a Superfund site.^{8,10} Velsicol was required to contain the 52 acre plant by constructing a 2 foot thick slurry wall around it and to cap the entire site with a 3 foot thick clay layer. At the same time, it was decided that the Pine River sediments would be left in place. The consent decree required Velsicol to conduct long-term maintenance at the site but cleared them from all liability for remediation of the Pine River sediments.

After collecting Pine River sediment in 1996 and 1997, the State of Michigan and the U.S. EPA reported that DDT levels were "extremely high" (up to 32,000 ppm) and that these levels had not decreased since 1980.¹¹ In 1998, the U.S. EPA decided to remove all sediment containing >3000 ppm of DDTs. This action was the result of the analyses of sediment and fish, which showed that the levels of DDTs in Pine River reservoir fish had actually increased from 11 to 23 ppm from 1989 to 1994.⁸ In 2002, the EPA collected and removed 12,000 L of nonaqueous phase liquid (NAPL), which contained >70% DDTs, from the

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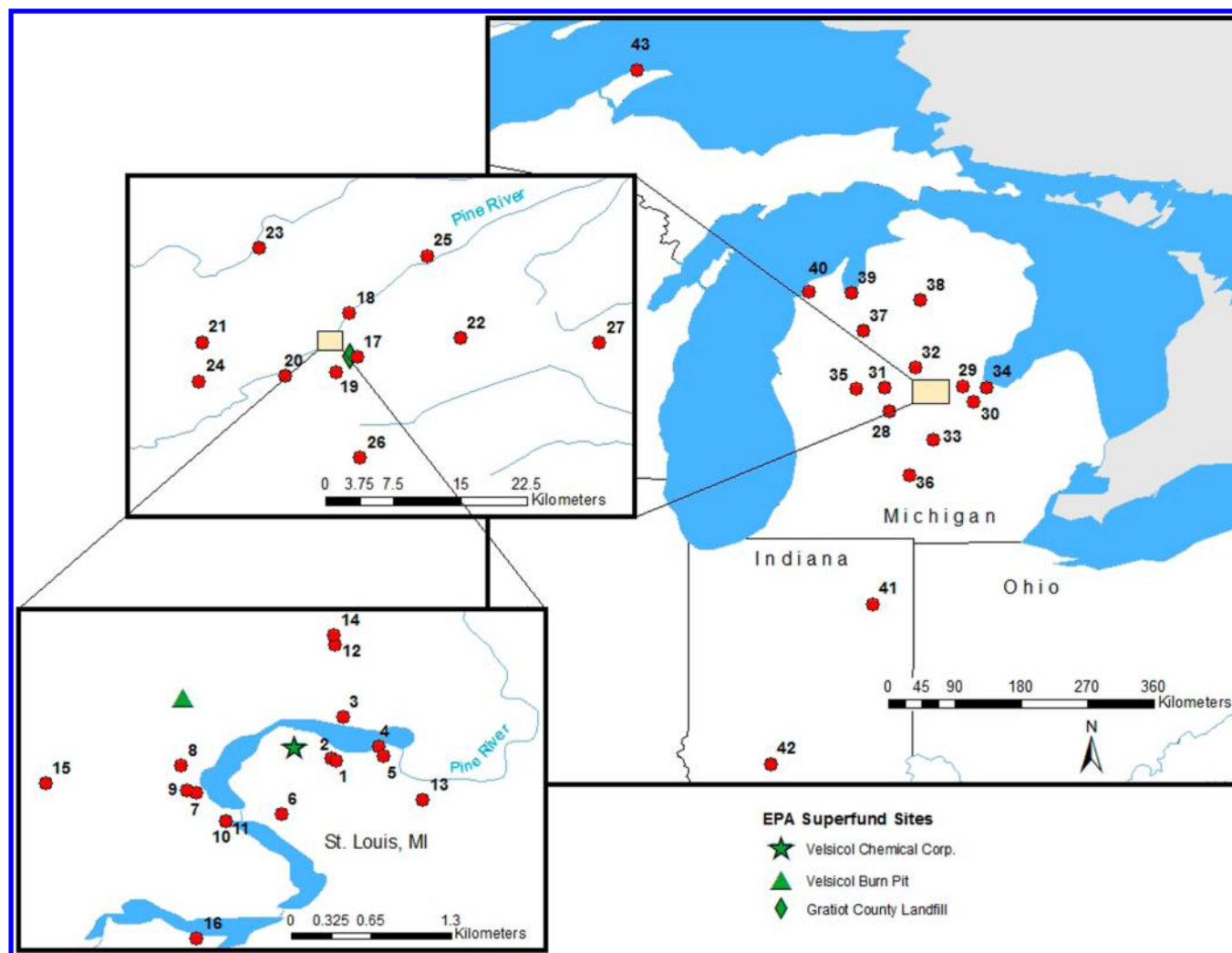


Figure 1. Map of sampling and Superfund sites centered on St. Louis, Michigan. Tree bark sampling sites are labeled with a red circle and their identification number. The Velsicol Chemical Corporation plant, burn pit, and the Gratiot County Landfill are labeled with a green star, triangle, and diamond, respectively. The geographical coordinates of each site are given in Table S1, Supporting Information. Samples 10 and 11 were from two different sets of trees located within 40 m of each other.

sediment of the Pine River.⁸ More recently in 2012, dead robins frequently found at the site and in neighboring residential backyards were diagnosed with organochlorine poisoning from high levels of DDE (an environmental degradation product of DDT).⁸ Even though the PBB incident was widely publicized, DDT contamination still remains the main concern of the U.S. EPA. As of 2006, they had spent nearly \$100 million on sediment cleanup, and they expect to spend up to \$350 million to reach their cleanup goals.^{10,12}

In addition to the plant site itself, there are two other Superfund sites associated with the former Michigan Chemical site; these include the Velsicol Burn Pit (for some odd reason located on the Gratiot County Golf Course) and the Gratiot County Landfill. From 1956 until 1970, Velsicol used the burn pit to dispose of 7,500–11,400 L of hazardous waste including DDT. In 1982, Velsicol removed 52,000 m³ of soil from the burn pit and placed it under the clay cap on the plant site; nevertheless, contamination was still seen at the burn pit site in 2006.¹³ The Gratiot County Landfill has been in continuous operation since 1971, and it was used for the disposal of domestic, commercial, and industrial solid waste including 122,000 kg of PBBs.¹⁴ Ponds and aquifers in the vicinity of the

landfill have also been found to be contaminated by these chemicals.¹⁴

In this study, we investigated the current atmospheric levels of the chemicals that were produced by Michigan Chemical and dumped at and near the site after the plant was closed more than 40 years ago. These are the first published air quality results around the Velsicol Superfund site; the EPA only monitored air quality during remediation in 2000 and that data was not made public.¹⁵ The compounds of interest here are HBB, PBBs (congeners 153 and 180), DDTs (*o,p'*- and *p,p'*-DDT, DDD, and DDE) and TDBPP. For comparison, the atmospheric levels of several chemicals that were presumably not produced at the St. Louis Superfund site, but represent widespread environmental pollutants, were also measured. These are pentabromobenzene (PBBZ), pentabromoethylbenzene (PBEB), hexabromocyclododecanes (HBCDs, measured as the sum of the α , β , and γ isomers), polybrominated diphenyl ethers (PBDEs) (including BDE-28, 47, 66, 99, 100, 153, 183, 196, 197, 201, 203, 204, and 206-209), and several organophosphate esters (OPEs), including *tris*(1,3-dichloro-2-propyl)phosphate (TDCPP), *tris*(1-chloro-2-propyl)phosphate (TCPP), tributyl phosphate (TnBP), tri(butoxyethyl)-

phosphate (TBEP), triphenyl phosphate (TPP), and 2-ethylhexyl diphenyl phosphate (EHDPP).

We used tree bark as a passive air sampler. Tree bark is an efficient passive atmospheric sampler because, due to its high lipid content, it accumulates lipophilic atmospheric pollutants from both the atmospheric vapor and particle phases. Bark gives an integrated relative measurement of the atmospheric concentrations over a time scale of 3–10 years, which is the time that the bark remains on the tree.^{16,17} Concentrations of lipophilic pollutants in tree bark have been shown to correlate with atmospheric concentrations measured near the sampled tree.^{16,18} Bark has been used for the analysis of persistent organic pollutants in numerous studies.^{16–26} In this study, 43 tree bark samples were collected around central Michigan starting in St. Louis; see Figure 1. This wide geographical area gave us the opportunity to examine the spatial distribution of each pollutant.

MATERIALS AND METHODS

Sampling. Table S1, Supporting Information, contains information on the sampling sites used in this study. Tree bark samples were collected in July 2013 and March 2014 from coniferous trees with coarse bark, mainly pine trees (*Pinus sp.*). At most sites, three different trees were chosen that were located within about 50 m of one another. At each tree, approximately 100 g of bark was collected from two sides of the tree; the bark was removed with a precleaned chisel at a height of 1.5 m. The bark was then wrapped in aluminum foil, sealed in a plastic bag, and kept at ambient temperature until the samples were returned to the laboratory, where they were stored at $-20\text{ }^{\circ}\text{C}$ until extraction.

Sample Preparation. A previous method¹⁹ was modified for this research. In brief, bark samples were cut into 1 cm pieces. For each site, the total mass of extracted bark was 3 g; that is, 1 g from each tree. Bark samples were weighed and then packed into a Soxhlet extraction thimble containing 10 g of granular anhydrous sodium sulfate (Fisher Chemical, Fair Lawn, NJ), and an additional 10 g of sodium sulfate was added on top of the bark sample to prevent floating. Each Soxhlet sample was spiked with known amounts of the recovery standards [BDE-77, BDE-166, ¹³C₁₂-BDE-209, ϵ -HCH, *tris*(2-chloroethyl)phosphate-*d*₁₂, and ¹³C₁₈-triphenyl phosphate] and then extracted for 24 h with 400 mL of a 1:1 (v/v) hexane in acetone solution.

After the extraction was complete, the lipid content was determined gravimetrically by removing an aliquot of the extract into a preweighed aluminum dish and evaporating the solvent. Then, acid-activated copper was added to the sample to remove sulfur; the copper was filtered off after about 8 h. The bark extract was then rotary evaporated to 2 mL with two solvent exchanges with 75 mL of hexane. Samples were cleaned and fractionated on a fully activated 10 g Florisil (PR; Sigma-Aldrich, St. Louis) column. This column was eluted with 15 mL of hexane (fraction 1, not analyzed), 70 mL of a 3:2 (v/v) dichloromethane in hexane solution (fraction 2), and then 90 mL of a 4:1 (v/v) acetone in dichloromethane solution (fraction 3). All compounds of interest eluted in fraction 2, except the OPEs, which eluted in fraction 3. These included TDBPP, TDCPP, TCPP, TnBP, TBEP, TPP, and EHDPP.

Fractions 2 and 3 were concentrated by rotary evaporation to 2 mL, with one and two solvent exchanges of 25 mL of hexane, respectively. Extracts were transferred to 4 mL vials, blown down with dry N₂ to 2 mL, and spiked with known amounts of

internal quantitation standards (BDE-118, BDE-181, anthracene-*d*₁₀, and perylene-*d*₁₂). Fraction 2 was further concentrated with N₂ blow-down to a volume of 100 μL and analyzed for the halogenated compounds by electron capture negative ionization (ECNI) gas chromatographic mass spectrometry. Fraction 3 was analyzed for OPEs by electron impact (EI) gas chromatographic mass spectrometry.

Instrumental Analysis. Fraction 2 [containing HBB, PBBs, DDTs, PBBZ, PBEB, HBCDs (measured as the sum of the α , β , and γ isomers), and PBDEs] was analyzed on an Agilent 7890 series gas chromatograph (GC) coupled to an Agilent 5975C mass spectrometer (MS) operating in ECNI mode using methane as the reagent gas. The mass spectrometer ion source and quadrupole temperatures were maintained at 200 and 140 $^{\circ}\text{C}$, respectively. One μL of the sample was injected in the pulsed splitless mode at 240 $^{\circ}\text{C}$. Chromatographic resolution was achieved with an Rtx-1614 (15 m \times 250 μm i.d., 0.1 μm film thickness) fused silica capillary GC column (Restek Corporation, Bellefonte, CA). The carrier gas was helium (99.999%; Liquid Carbonic, Chicago) regulated at a constant flow of 1.5 mL/min. The GC/MS transfer line was maintained at 320 $^{\circ}\text{C}$. For analysis of PBDEs, HBB, PBBZ, HBCDs, and PBEB, the GC oven temperature was programmed as follows: 100 $^{\circ}\text{C}$ for 2 min, 25 $^{\circ}\text{C}/\text{min}$ to 250 $^{\circ}\text{C}$, 3 $^{\circ}\text{C}/\text{min}$ to 270 $^{\circ}\text{C}$, 25 $^{\circ}\text{C}/\text{min}$ to 320 $^{\circ}\text{C}$, and 320 $^{\circ}\text{C}$ for 9 min. For analysis of PBBs and DDTs, the GC oven temperature was programmed as follows: 120 $^{\circ}\text{C}$ for 2 min, 0.8 $^{\circ}\text{C}/\text{min}$ to 150 $^{\circ}\text{C}$, 5 $^{\circ}\text{C}/\text{min}$ to 200 $^{\circ}\text{C}$, 25 $^{\circ}\text{C}/\text{min}$ to 320 $^{\circ}\text{C}$, and 320 $^{\circ}\text{C}$ for 5 min.

Selected ion monitoring of the two bromide ions at m/z 79 and 81 was used to quantitate most of the target compounds. The exceptions were m/z 79, 81, and 279 for the quantitation of BDE-28 and BDE-47; m/z 409 and 411 for BDE-197; m/z 720 and 722 for BDE-201; m/z 562 and 564 for BDE-203 and BDE-196; m/z 79, 81, and 562 for BDE-183; m/z 487 and 489 for BDE-204 and BDE-206 to BDE-209. For the analysis of the two PBB congeners, m/z 79 and 81 were also used for quantitation, but m/z 468 and 628 were included for confirmation of PBB-153 and PBB-180, respectively. To quantitate DDTs, m/z 35 and 37 were used along with m/z 246 for *o,p'*-DDD and *p,p'*-DDD and m/z 246 and 281 for *o,p'*- and *p,p'*-DDT and DDE.

Analysis of fraction 3 was performed on an Agilent 6890 series GC coupled to an Agilent 5973 MS operating in EI mode. The mass spectrometer ion source temperature and electron energy were maintained at 230 $^{\circ}\text{C}$ and 70 eV, respectively. Injections were performed in the pulsed splitless mode at 280 $^{\circ}\text{C}$ for 1 μL samples. Chromatographic resolution was achieved with a DB-5MS Ultra Inert capillary column (30 m \times 250 μm i.d., 0.25 μm film thickness, Agilent Technologies, Santa Clara, CA). The carrier gas was helium (99.999%; Liquid Carbonic, Chicago) regulated at a constant flow of 1.5 mL/min. The GC/MS transfer line was maintained at 300 $^{\circ}\text{C}$. For analysis of OPEs, the GC oven temperature was programmed as follows: 70 $^{\circ}\text{C}$ for 3 min, 10 $^{\circ}\text{C}/\text{min}$ to 170 $^{\circ}\text{C}$, held for 5 min, 10 $^{\circ}\text{C}/\text{min}$ to 230 $^{\circ}\text{C}$, held for 5 min, 5 $^{\circ}\text{C}/\text{min}$ to 250 $^{\circ}\text{C}$, and then 10 $^{\circ}\text{C}/\text{min}$ to 300 $^{\circ}\text{C}$ for 4 min. Selected ion monitoring of the following ions was used to quantitate TDBPP, TDCPP, TCPP, TnBP, TBEP, TPP, and EHDPP: 119 and 137, 191, 125, 99, 85, 326, and 251, respectively. All compounds were quantitated using the internal standard method using anthracene-*d*₁₀ and perylene-*d*₁₂ for OPEs and BDE-118 and BDE-181 for the remaining compounds.

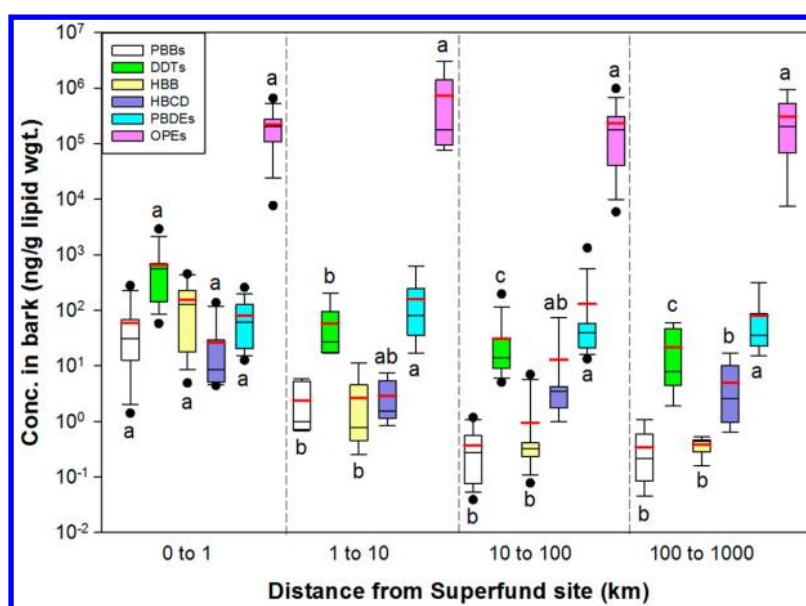


Figure 2. Boxplots of concentrations of pollutants according to distance from the Velsicol Superfund site in St. Louis, Michigan. All concentrations in tree bark are reported in ng/g lipid weight. The thin black lines represent the median, the thick red lines represent the mean, the boxes represent the 25th and 75th percentiles, the whiskers represent the 5th and 95th percentiles, and outliers are displayed by circles. ANOVA results using logarithmically transformed concentrations are shown; the concentration distributions sharing the same letter are not statistically different at the $P < 0.05$ level.

Materials. A PBDE standard mixture (BFR-PAR) was purchased from Wellington Laboratories, Guelph, ON. This solution contained all PBDE congeners of interest along with HBB and PBEB. Additionally, PBBZ, $^{13}\text{C}_{12}$ -BDE-209 from Wellington Laboratories, and α -HBCD and BDE-118 from AccuStandard, New Haven, CT, were added individually to the calibration standard. BDE-77, BDE-166, BDE-181, TDCPP, TCPP, TnBP, TBEP, TPP, EHDP, and $^{13}\text{C}_{18}$ -triphenyl phosphate were purchased from Wellington Laboratories. TBPP and *tris*(2-chloroethyl) phosphate- d_{12} were purchased from Sigma-Aldrich, St. Louis, MO. *p,p'*-DDD was purchased from Supelco Analytical, Bellefonte, PA. The remaining DDTs and ϵ -HCH were purchased from Ultra Scientific, North Kingstown, RI. PBB-153, PBB-180, and TDBPP were purchased from AccuStandard. The PAH standards, anthracene- d_{10} and perylene- d_{12} , were purchased from Chem Service, Inc., West Chester, PA. All solvents used for the extraction and cleanup processes were residue analysis grade. Glassware was baked at 500 °C for at least 6 h prior to use.

Quality Assurance and Quality Control. To ensure the correct identification and quantitation of the target compounds, three criteria were used: (a) The GC retention times matched those of the standard compounds within ± 0.1 min. (b) The signal-to-noise ratio was greater than 3:1. (c) The isotopic ratios for selected ion pairs were within $\pm 15\%$ of the theoretical values. Six recovery standards were added to each sample before extraction with average recoveries (\pm standard errors) of $71 \pm 12\%$, $62 \pm 12\%$, $43 \pm 9\%$, $55 \pm 12\%$, $50 \pm 11\%$, and $71 \pm 9\%$ for BDE-77, BDE-166, $^{13}\text{C}_{12}$ -BDE-209, ϵ -HCH, *tris*(2-chloroethyl)phosphate- d_{12} , and $^{13}\text{C}_{18}$ -triphenyl phosphate, respectively. At least one blank was included in each set of 6–8 extracted samples. The masses of all of the compounds in the blanks were $<30\%$ of the average mass measured in the tree bark samples, except for PBDEs and OPEs which were 33% and 31% of the average mass detected in the bark samples. Blanks consisted of 10 g of sodium sulfate, which was spiked with the

same amount of recovery standards. Samples were not blank or recovery corrected; sample concentrations below the procedural blank, in the sample's respective set, were treated as nondetects.

RESULTS AND DISCUSSION

Concentrations for all target compounds at each site are given in Table S1, Supporting Information. All concentrations are given in ng/g (or $\mu\text{g/g}$) lipid weight (as opposed to bark weight) because this approach has been shown to normalize for variations in the sampled tree species.²⁶ A visual representation of the data is given in Figure 2, which shows the data as box plots grouped by distance from the Velsicol Superfund site, which is located at 43.4129 N, 84.6152 W.

As expected, the concentrations of PBBs decrease with distance from the Velsicol Superfund site. The highest concentration of PBBs was 278 ng/g at site 10, which is located <1 km from the site. PBB concentrations decrease until a background level of about 0.4 ng/g is reached at >10 km from the site. This background level is higher than that measured in tree bark from a 2006 study, which sampled trees from various areas of the United States (average concentration for PBB-153 only was 0.06 ng/g lipid).²³ The mean PBB concentrations at 0–1 km from the site are at least 100 times higher than those 100–1,000 km from the site (see Figure 2). This sharp decrease in concentration with distance was also reported in 1974 for sediment samples taken from the Pine River; PBB concentrations decreased from 6,200 to 100 $\mu\text{g/kg}$ in about 46 km.³ Yun and co-workers²⁷ showed that the sediment concentrations of PBB decreased by a factor of 100–300 from the Pine River to the upper reaches of the Saginaw River.

The highest level of DDTs was 2,910 ng/g at site 13, which is a park located about 0.9 km southeast of the site. As seen in Figure 2, the average DDT concentration decreases from about 656 ng/g near the site to about 35 ng/g at distances >1 km from the site. On average, *p,p'*-DDT dominates the distribution

profile (Figure S1, Supporting Information), comprising 48% of the total DDTs, with *p,p'*-DDE being the next most abundant at 29%. The relatively high background and similar distribution throughout the study are probably due to the old use of DDT throughout Michigan, where it remains in the soil.²⁸ DDT concentrations, compared to those of PBB and HBB, continue to remain high in sediment from the Pine River; in 2010, they were 2,000 $\mu\text{g}/\text{kg}$ around the site.⁸ Hermanson et al.²⁸ investigated the levels of atmospheric DDTs in Michigan from 1992 to 1994 and observed an average atmospheric concentration of 55 pg/m^3 except for South Haven, Michigan, where DDT was thought to have been used extensively and where its concentration was 1,200 pg/m^3 . Figure 3 shows that

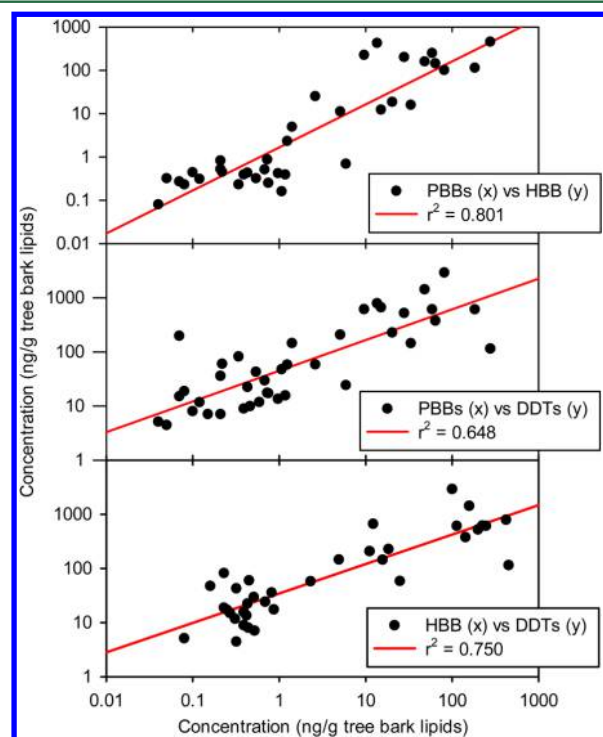


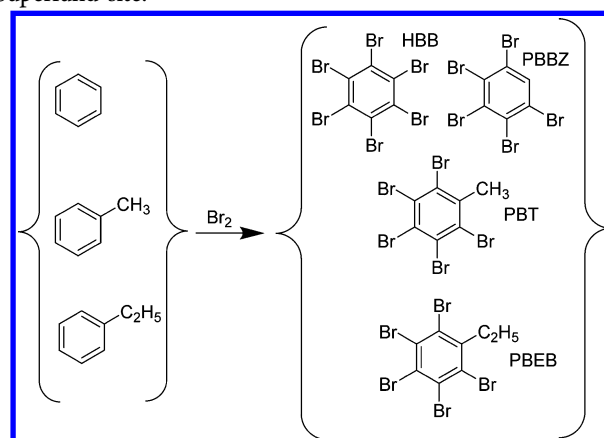
Figure 3. Plots of the PBB, DDT, and HBB concentrations vs one another, showing the regressions and correlation coefficients. All other correlation coefficients are given in Table 1.

DDT concentrations correlate well with those of PBBs and HBB ($r^2 = 0.648$, $P < 0.001$ and $r^2 = 0.750$, $P < 0.001$, respectively) indicating that DDTs came from the same source as PBBs and HBB.

Levels of HBB are about 153 ng/g at distances <1 km from the site and about 1 ng/g at distances >1 km from the site (Figure 2). This is the largest change in concentration with distance that we observed. The highest concentration was 454 ng/g at site 10, which is about 0.73 km from the site. Figure 3 shows that PBB and HBB concentrations correlate very well with each other ($r^2 = 0.801$, $P < 0.001$), indicating that they were produced at the same location. As mentioned above, HBB concentrations correlate well with those of DDTs even though DDT has higher background levels.

The concentrations of pentabromobenzene (PBBZ) and pentabromoethylbenzene (PBEB) are included only in Table S1, Supporting Information, because their average levels are low (about 0.73 and 0.22 ng/g , respectively). However, Table 1 shows that the levels of these two compounds correlate well with those of the other brominated compounds produced by

Michigan Chemical. PBBZ concentrations show an $r^2 = 0.867$ ($P < 0.001$) for HBB, $r^2 = 0.731$ ($P < 0.001$) for PBBs, and $r^2 = 0.712$ ($P = 0.001$) for DDTs. Similarly, PBEB concentrations show an $r^2 = 0.395$ ($P = 0.001$) for HBB, $r^2 = 0.507$ ($P < 0.001$) for PBBs, and $r^2 = 0.354$ ($P = 0.002$) for DDT. These observations suggest that PBBZ and PBEB may be impurities in the production of HBB and PBBs, which were made by the bromination of benzene or biphenyl, respectively.²⁹ It is likely that the benzene and biphenyl used for these purposes were technical grade materials and that they contained toluene, ethylbenzene, and xylenes as impurities. Partial bromination of benzene would yield PBBZ, and bromination of toluene and or ethylbenzene would yield pentabromotoluene (PBT), which we did not observe in a preliminary study of these samples, and PBEB, respectively (see the scheme below). The maximum concentrations of PBBZ and PBEB were 20.6 and 1.31 ng/g , respectively, at site 12, which is <1 km from the Velsicol Superfund site.



HBCDs, PBDEs, and OPEs are widely used flame retardants and plasticizers and represent ubiquitous environmental organic pollutants, but they were not known to be products of the Michigan Chemical plant. Hence, we thought these chemicals would not show a dependence on distance from the plant. This was confirmed for PBDEs and for OPEs (Figure 2), which do not have elevated concentrations near the plant. On the other hand, the concentrations of HBCDs are somewhat elevated near the plant (Figure 2). In fact, HBCD concentrations show an $r^2 = 0.319$ ($P = 0.003$) for HBB, $r^2 = 0.320$ ($P = 0.002$) for PBBs, and $r^2 = 0.290$ ($P = 0.003$) for DDTs (Table 1). These relationships suggest that HBCDs could have been manufactured at the Michigan Chemical plant, more on this later.

The concentrations of PBDEs in these tree bark samples were not related to distance from the Velsicol Superfund site (Figure 2), indicating that these compounds were not made at this site. In fact, PBDEs were not produced much, if at all, until PBBs were taken off the market in 1978.⁴ An interesting finding was that PBDE levels (and those of HBCDs) were particularly high at site 29, which was in Midland, Michigan, home to the Dow Chemical Company, a company known to have used both of these flame retardants.^{30,31} In 2006, PBDEs were measured in tree bark from around the United States, and the authors reported similar concentrations for sites not located near PBDE's manufacturing plants. Our highest measured PBDE value (1,320 ng/g) is similar to concentrations found at sites in Missouri and Mississippi (1,600 and 1,500 ng/g lipid, respectively) but lower than the 5,700 ng/g lipid level found in Arkansas, which was near PBDE's manufacturing site.²³ Congener profiles are given in Figure S1, Supporting

Table 1. Correlation Coefficients (r^2) and Probabilities of the Insignificance of the Correlation for the Concentrations of Halogenated Compounds Measured in Tree Bark in Michigan

	HBB						
PBBs	0.801		PBBs				
	0.000						
DDTs	0.750	0.648	DDTs				
	0.000	0.000					
HBCDs	0.319	0.320	0.290				
	0.003	0.002	0.003	HBCDs			
PBBZ	0.867	0.731	0.712	0.436			
	0.000	0.000	0.001	0.075	PBBZ		
PBEB	0.395	0.507	0.354	0.333	0.701		
	0.001	0.000	0.002	0.015	0.019	PBEB	
TDBPP	0.004	0.044	0.030	0.027	0.158	0.002	
	0.759	0.296	0.388	0.505	0.290	0.860	TDBPP
TDCPP	0.405	0.291	0.288	0.002	0.285	0.029	0.010
	0.000	0.007	0.001	0.841	0.112	0.460	0.634

Information, for PBDEs. Overall, the profiles did not change with distance from the site, and the dominant congener throughout was BDE-209 (an overall 67% of the total PBDEs).

By far, the most abundant group of chemicals seen in tree bark are the OPEs, the concentrations of which are 1000–10,000 times higher than those of the other target compounds (Figure 2). Of the OPEs, the most abundant compounds are TDBPP and TDCPP, which are (on average) 48% and 43% of the total OPE concentrations, respectively. The third halogenated OPE, TCPP, comprises 4% of the OPEs. It is known that TDBPP was made at the Michigan Chemical site; however, the concentrations of TDBPP do not decrease with distance from the site and do not correlate with those of HBB ($r^2 = 0.004$, $P = 0.759$), PBBs ($r^2 = 0.044$, $P = 0.296$), or DDTs ($r^2 = 0.030$, $P = 0.388$). The one exception is TDCPP, the concentrations of which do decrease with distance from the Velsicol Superfund site and do correlate with those of HBB ($r^2 = 0.405$, $P < 0.001$), PBBs ($r^2 = 0.291$, $P = 0.007$), and DDTs ($r^2 = 0.288$, $P = 0.001$). This finding led to an interesting discovery: According to EPA's documentation,^{7,8} TDCPP and HBCDs were not made at the Velsicol plant; however, in 1977, the National Institute for Occupational Safety and Health (NIOSH) listed 27 chemicals used in production processes at this site, and TDCPP and HBCDs were among them.³² This could explain the significant correlations of TDCPP and HBCD concentrations with those of HBB, PBBs, and DDTs.

It is evident that those chemicals that were made in St. Louis, Michigan, are behaving differently in the atmosphere than those that were not. To further demonstrate this point, the correlation coefficients between the levels of these compounds in tree bark and the distance from the site were examined (see Figure S2, Supporting Information). For the sum of HBB, PBB, HBCDs, PBBZ, and PBEB (total brominated compounds), $r^2 = 0.535$ ($P < 0.001$); for the total DDT-related compounds, $r^2 = 0.524$ ($P < 0.001$), but for the PBDEs, $r^2 = 0.002$ ($P = 0.776$). Clearly, the levels of HBB, DDTs, and PBBs are elevated close to the manufacturing site with a sharp decrease after 10 km, whereas the levels of PBDEs and OPE are constant with distance from the site. The Velsicol Superfund site is still a point source of this pollution to surrounding areas even after 40 years, and people living within a 10 km radius of the site are still being subject to relatively high levels of HBB, PBBs, and DDTs

in the air they breathe. The EPA has focused on the remediation of soil, sediment, and water; however, humans can control what they eat and touch but not what they breathe. This study suggests that air monitoring around Superfund sites should be continued before, throughout, and long after remediation. Tree bark analysis provides an inexpensive method for examining air quality and could be easily implemented at other Superfund sites.

■ ASSOCIATED CONTENT

📄 Supporting Information

Table with the identification numbers for the tree bark sampling sites, locations, lipid percentages, distances from the Velsicol Superfund site, and concentrations (in ng/g tree bark lipids or $\mu\text{g/g}$ tree bark lipids) of PBBs, DDTs, HBB, HBCDs, PBBZ, PBEB, PBDEs, OPEs, TDBPP, TDCPP, TCPP, TnBP, TBEP, TPP, and EHDPP; figures of congener distributions of DDTs and PBDEs and total brominated compound concentrations, total DDT-related compound concentrations, and total PBDE concentrations as a function of distance from the Velsicol Superfund site. This material is available free of charge via the Internet at <http://pubs.acs.org>.

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Notes

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Inside MMDHD

Health Enhancement Committee (HEC)
Employee Newsletter

September 2014

Get out of your seat!

After a long day at your desk, the thought of slinking into your favorite comfy chair and watching TV might sound like a good idea, but if you've already spent a good chunk of your day sitting at your desk, that comfy chair could do you more harm than good.

Research shows sitting for long periods of time can affect your metabolism and body fat. That can lead to higher risks for cardiovascular problems, such as high blood pressure, heart disease and even early death.

So, if you're sitting in your chair for a long time, set a timer to go off once an hour to remind yourself to get up and move. If you have projects that can be done standing up, get off your chair and work upright for awhile, or take phone calls while standing. Instead of calling or e-mailing co-workers, get out of your chair and go talk to them face-to-face. And if you're able to take a break, go outside and go for a walk. You can even try "walking meetings!"

- As seen in "The Nation's Health"



A message from the Health Officer Let the robots do the work

MMDHD has made amazing (if unevenly distributed) strides in technological innovation. Everyone in the Department is engaged in some way with sophisticated technology whether it's Insight, Quantum, Sword, MiWIC, MCIR, MDSS or something else. What impresses me is how good we've gotten at pulling together interdisciplinary teams to solve technical problems on the fly. The WIC Varnish program is a great example.

Somehow we left our brothers and sisters in Environmental Health behind for a while. Sword is still slow and the water program is still on paper. But now EH is engaged in designing the workflows and screens for new software to be installed next year that will change all that—and it's about time.

Our motto has to be "Let the robots do the work!" We don't have enough PHRs to let them spend hours rummaging for files; supervisors can't be creating reports by making hash marks on paper. As you know, every day you are going to be asked to change workflows and take on new tasks, and as you do this, please, ask the question "How can we do this without taking on new work: Let the robots do the work!"

A great example of this is our almost-born performance management system. The idea of a PM system is that critical information about department performance is available to everyone. Most of you have participated in brainstorming sessions about what our PM system should measure. In selecting measures we asked two questions: 1) When we see this number will it change our work? If it won't change your work, why bother? 2) Can getting the number be automated? If getting the number creates more work, it probably won't improve performance.

Good examples of numbers that might go in a PM system include clinic wait times or time to obtain a permit. If you see those times going up you are going to ask what is going wrong, and try to fix it. A bad number would be the cancer mortality rate. Although that is important information and we are engaged in activities to reduce cancer, knowing that number today won't change what we do at work. And we don't control that information so we can't automate collecting it.

The first part of our performance management system is complete. This consists of the automation of the quarterly service reports (QSR) in CHED (the QSR for EH can't be automated until we get the new Sword modules). The QSR is very important. It tells us if we are hitting our caseload and productivity goals. The automated QSR was a multidisciplinary effort of folks in CHED, Admin, Billing, MIS, etc. A big thanks to everyone who contributed.

The automated QSR is on the intranet at <http://quantum/qsreport1.php>. Go ahead, take a look, pick some arbitrary dates and click "submit". Count to three. There are your numbers. The amazing thing about the new QSR is that it is so easy it is boring. The fact is getting these numbers used to take days of work. Division Directors begged to be allowed to stop making staff do this work. But instead of stopping we delegated: to the robots.



Birthday Greetings

MMDHD extends sincerest birthday wishes to the following employees.

Sept. 5: Cindy Partlo
Sept. 7: Mario Lucchesi
Sept. 13: Ruby Suarez
Sept. 14: Gayle Hood
Sept. 17: Candy Smith
Sept. 19: Courtney Beagle
Sept. 27: Laura Simon
Sept. 29: Andrea Tabor

Years of Service

Congratulations to the following employees on another year of dedicated service.

Twenty-Five Years

Holly Stevens

Twenty Years

Dawn Wadle

Fifteen Years

Drew Discher
Bryan Fowler
Lonnie Smith

Ten Years

Angie Felton
Becky Stoddard

Five Years

Gayle Hood

One Year

Charity Little
Andrew Holdeman



In the spotlight

Hazel Hall,

MCIR Coordinator

Hazel Hall has been with the agency over 13 cumulative years. She currently serves as the Region Three Michigan Care Improvement Registry (MCIR) Coordinator, and previously served as an Accounting Clerk for nine years.

Current duties: “Training medical staff on the use of the MCIR system and troubleshooting vaccine inventory discrepancies. The newest change in MCIR is HL7 implementation, and I’m currently assisting providers with getting the process started and training on reports once they are up and running.”

What’s the hardest/most challenging aspect of your job? “The majority of medical facilities and provider offices are managing their days with fewer staff due to the economy. They have deadlines and policies that have to legally be met, but their staffing is so minimal that it’s hard for them to find the time needed to complete everything.”

What aspect of your job do you enjoy most? “Troubleshooting. The MCIR Inventory Module is basically a financial module and I love the breakdown of transactions necessary to unveil discrepancies. The HL7 implementation is great because it’s taking workload off the front desk staff. Most errors are due to users choosing incorrect options, and training makes all the difference in the world!”

How have you made a difference? “I’ve streamlined the trainings, developed training booklets, and I’ve tried to make myself available when office staff is available. It’s great to see a person’s face with that “aha” moment.”

Have you received any internal awards? “EARN and Outstanding Performance Awards”

Have you served on any MMDHD committees? “I was lucky enough to serve on the very first Vision Action Team (VAT). I’ve also been on a few outside committees and am currently involved with

the American Immunization Register Association.”

Education: “I graduated from Merrill High School and attended both Mid-Michigan Community College and Central Michigan University. FIRE UP CHIPS!”

Other work experience: “My first job was at the Merrill Whippy Dip at the tender age of 14. But sadly, I was let go from that job (I may have eaten too many ice cream cones!). I have also worked for Art’s IGA in Merrill and Ithaca; Carlos A. Phillippon, M.D.; Gratiot Community Hospital, CMU, and last but certainly not least, MMDHD, where I plan to retire from someday.”

Personal: “My family is from Midland, and we moved to Merrill after my father passed away when I was 14. I have five sisters, four brothers, and many nieces and nephews, great nieces and nephews, and great, great nephews. My husband, Rick, and I have two daughters, Missy and Greg Moeggenberg, and Katie and Mike Allen. We’re lucky to have three granddaughters, 12 1/2, 4 1/2, 2 and one grandson, 3 1/2, who all live very close to us.”

Interests/hobbies: “I have very little free time with four grandkids, but I do enjoy them, along with sewing, making stained glass, making homemade cards, poetry, four-wheeling and whatever else I can be talked into. I loved the stage growing up and have performed in many musicals and plays. I love the music of Rod Stewart and Kid Rock.”

Outside committees/volunteering: “I am currently a volunteer for the Gratiot County Free Clinic and the Mid-Michigan Special Olympics. I’ve also volunteered for the Gratiot County 4H.”

“My life is an open book. You all know me;
I am what I am.”

Travels: “We’ve traveled to many states, including Kentucky, Georgia, Florida, Pennsylvania, New York, Arizona, South Dakota, Texas, and to Mexico and Canada. My most memorable trip was to Arizona to see my brother, who was stationed there with my mom, dad, two brothers, sister and grandparents. We traveled in a wood paneled station wagon with no air conditioning for two very long weeks. I loved the Grand Canyon then, and still think it’s amazing and beautiful each time we travel there.”

Do you have a “bucket list”? “I’d like to travel to Alaska and Glacier National Park. I’d also like to write a children’s book in prose.”

What would I do if I were not here? I'd be sitting roadside, my thumb in the air. I'd be washing dishes at a free lunch somewhere. I'd be standing in line with a very blank stare. I'd be looking for warmth from the frosty night air. I'd be glancing around, afraid to be there. I've been lucky enough to have choices to make, but some people don't, please give them a break.

- Hazel Hall

Anything else to share? “My life is an open book. You all know me, I am what I am. The most influential people in my life were my brother-in-law, Ron, and Dr. Phillippon. I learned more from them than anyone else. Ron gave me the will to seek knowledge (hey, I was at the bottom of 7 other kids... my parents were tired!). Dr. Phillippon taught me that there are worse things in life than death, and to be kind to people each day, because you never know what they are going through.”

Condolences

Our sincerest
condolences to:

Jennifer Stratton, whose
grandfather passed away
in July.

Breann Bonga, whose
grandmother passed
away in June.

Bryan Fowler, whose
grandfather passed away
in May.

Juncai Li, whose mother
passed away in March.

Ross Pope, whose
grandfather passed away
in January.

Check this out!

Take a look at these health and wellness deals, just for you, from BlueCross Blue Shield. The site features two types of deals- standing discounts (redeem anytime) and exclusive, limited-time offers designed for living well. Here's the link:

https://www.blue365deals.com/publishers/505/daily_deals/how_it_works

The screenshot displays the Blue365 website interface. At the top, there is a navigation bar with the BlueCross BlueShield logo, the Blue365 logo, and links for 'BROWSE DEALS', 'HOW IT WORKS', and 'Log In | Register'. Below the navigation bar, the main content area is titled 'How It Works' and features a video player showing a smartphone screen with a '60% OFF' discount. To the right of the video player, there is a 'Frequently Asked Questions' section with a list of questions such as 'BlueCross and Blue Shield Companies?', 'Blue365?', 'Blue365 Vendors?', and 'How to browse, buy or redeem a Blue365 Featured Deal or Ongoing Deal?'. At the bottom of the page, there is a 'Feature Your Business' section with a call to action: 'Does your business have great deals for the Blue365 community? Click here to find out how to join the good health movement.'

Performance Management update

By Ross Pope

As some of you may know, MMDHD was awarded 20 hours of technical assistance from the Michigan Public Health Institute (MPHI) to help in the development of our agency's performance management (pm) system. We were very fortunate to work with public health experts Jessie Jones and Dilhara Muthukuda from MPHI. We met approximately every two weeks from April 17 – July 16 to work through the performance indicator identification and selection process. This was a team effort and we will continue to utilize staff support throughout the development and implementation of our PM system as we move forward.

Thanks to our staff's willingness and flexibility to be involved in this process, we were able to include multiple staff members in the performance indicator identification and selection process for the five key areas. The five key areas our indicators focus on are CHED, EH, Finance, Human Resources, and MIS. This approach proved to be immensely valuable in obtaining ideas from our own experts and what they thought would be beneficial to monitor continuously to grow and improve our agency's capabilities. These team members were able to identify indicators, data sources, reporting capabilities, and much more to really nail down the framework for our PM system.

We will continue to involve staff as we fine-tune our indicators and reporting mechanisms over the next couple of months. This should allow us to develop more automated reporting processes for the PM system and program specific reports that we are already required to complete. This will reduce the burden placed on staff to compile that data. An example of this reporting automation can be found on the intranet for CHED program data that is utilized in the Quarterly Service Report (QSR). MIS will begin building the PM system

infrastructure this fall and test specific areas of the system before it is rolled out completely. We anticipate the system coming out in segments as there is still a lot of work to be completed, possibly one of the five key areas at a time. We anticipate having a fully functioning PM system in early spring by implementing new reporting software for EH, as that software is targeted for installation by February.

If you have any general questions or ideas you would like to share, feel free to contact any QVAT member, or for more specific questions, you can contact Ross at any time.

Makin' moves

Stacey Peterman accepted the full-time H/V and PHR position in GBO.

Bryan Fowler transferred to Gratiot Branch Office.

Andrea Tabor moved into her new role as CHED Director.

Ross Pope transitioned from Data Specialist to Quality Specialist Coordinator.



Stacey Peterman



Courtney Beagle



Bryan Fowler



Andrea Tabor



Ross Pope



Brandon Jongkind



Chris Pearson from Komen presenting a grant check to Becky Stoddard and Andrea Tabor for Clinton County.

ACE Award winners

Achievement • Character • Excellence



Congrats to **Laura Simon**, Registered Dietitian, the ACE Award winner for the period April- June, 2014.

Jennifer Stratton, Simon's supervisor, said Laura plays an important role in the Women's, Infant's, and Children (WIC) program, helps co-workers stay focused and positive, and represents the agency well.

Laura's nominations:

- Laura has a positive attitude with staff and clients. Her kind disposition extends outside our agency to the animal shelter, where she can be found taking dogs for walks during her breaks.
- Laura is such a pleasure to work with! She is always willing to help in other counties when other dietitians aren't available. She comes to work everyday with a smile and such a positive attitude. She is probably one of the nicest people I've ever had the pleasure of meeting.
- Laura is a shining personality. She is always ready to support and encourage and put aside her own personal needs and frustrations in order to do so.
- Laura is willing to step in any time to help and is so kind and caring to clients and staff. Love working with her!
- Being around Laura makes me want to be a better person. She is such a beautiful soul!

Also nominated:

Eric Deford, Mario Lucchesi, Ross Pope and Candy Smith.



Congrats to **Jamie Sage**, PHN II, who received the first ACE Award.

Jen Stratton, Sage's Supervisor, said she demonstrates great leadership skills, is a resource to clients and staff, and an asset to the agency.

Jamie's nominations:

- Way to go Jamie! Teamwork at its best!
- Jamie always goes above and beyond, whether with WIC or Family Planning.
- Love working with her, she's one of the best team players!
- Jamie went out of her way to ask if anyone needed help during her down time. Thanks!
- Go Jamie, you're awesome!
- Jamie knows the meaning of team work! Great to work with.
- We can always count on Jamie offering to help, great team player.
- Great team work
- Always willing to help others out. Seeks out additional assignments if she has time.

Also nominated: Andrew Holdeman, Marjo Christensen, Sarah Doak, Laurie Finn, Angie Martin and Sue Corrigan.

Congratulations, and thanks for going the extra mile!



New Employees

Welcome to MMDHD!

Sarah Smaltz, EH Specialist I Branch: GBO Started: 8-25-14



Sarah attended CMU and graduated with a dual major in hydrogeology and environmental science. After college she worked at an environmental consulting firm.

Family: She is the youngest of eight siblings

Interests/Hobbies: Books, comics, history, car shows, racing, mud bogs, concerts and hunting.

Travels: She loves to travel to New England and historical places.

Stephen Pratt, EH Specialist I Branch: CBO Started: 8-11-14



Stephen attended Romeo High School and then Grand Valley State University. His most recently coached boys and men in the sport of lacrosse.

Family: An older sister.

Interests/Hobbies: Coaching and playing lacrosse, weight lifting, hunting, fishing, skiing and snowboarding.

Travels: He's been to numerous other states, most recently California and Utah.

Tracy Hartman, PHR I Branch: GBO Started: 5-14-14



Tracy is a Registered Medical Assistant who has worked the last 11 years in family practice and orthopedics. She really likes working with the public and being able to help people.

Family: Husband, Udell and children Samantha, 23; Matthew, 19; Madison, 15; and Katelyn, 13.

Pets: Dogs Rico and Sami.

Interests/Hobbies: Travel, involved with children's sports, 4H, and school activities.

Awards/Honors: Received many awards of excellence while working at Family Medical Care in Ithaca for submitting MCIR information on time.

Travels: Loves to travel in Michigan, especially the U.P. Hopes to see more of the U.S.

Shelly McPherson, Community Health Worker Branch: CBO Started: 5-5-14



Her given name is Michelle, but uses her nickname, Shelly. She has worked in many different financial institutions and ran her own daycare.

Family: Children Kyle, Ethan, Grant, and Gavin. Her husband, Greg has three children: Ethan, Andrea and Isabella.

Pets: a black lab named Macey.

Interests/Hobbies: She is very involved with the school and with her church.

Community Activities: PTO President

Travels: She loves to camp!

Nicole Montgomery, WIC Peer Counselor **Branch: CBO** **Started: 2-25-14**



Nicole is a graduate of Excel Academies of Cosmetology and has been a cosmetologist and a cosmetology instructor. She is positive and encourages others to be positive and happy!
Family: Married with three and a half-year-old daughter, Lillian; 21-month-old son, Gavin; and three-month-old son, Brayden.
Interests/Hobbies: Spending time with family, adventures with the kids (zoo, gymnastics).
Awards/Honors: Highest retail sales in salon, award for self-motivation and improvement
Travels: England, Scotland, California, Florida, Wyoming, Arizona, Maine, New Jersey, New York, and Pennsylvania

Shelley Treynor, Oral Health Prevention Coordinator **Branch: MBO** **Started: 2-25-14**



Shelley has an associates degree in dental hygiene from GRCC and practices hygiene in a private practice for four years.
Family: Shelley is married and has a 7-year-old daughter and one-year old son.
Pets: two dogs.

Jamie Shepler, PHN I **Branch: GBO** **Started: 1-13-14**



Jamie graduated from Montcalm Community College with an Associates degree in nursing. She has over 10 years experience as a medical assistant in various office settings, as well as four years of clinical experience at Carson Health Network.
Family: Husband, Aaron; son Daryn; and 10-year-old son, Jared.
Pets: Chocolate lab named Hunter, and a mixed breed named Molly.
Interests/Hobbies: Quilting, hunting, fishing, ATV riding, camping and spending time w/ family.
Awards/Honors: Presidential Honors list at MCC and graduated with honors
Travels: Too many to list!

Brandon Jongkind, EH Specialist I **Branch: CBO** **Started: 1-6-14**



Brandon graduated from GVSU in April 2013 with concentrations in geography, geographic information systems, city planning, and environmental science. He interned at the Ottawa County Health Department for seven months before coming to MMDHD.
Family: Married.

Elizabeth Kalnins, EH Specialist I **Branch: MBO** **Started: 11-25-13**



Elizabeth earned her degree from CMU and she interned with MMDHD! She previously worked at DHD #10.
Family: Two brothers named Jason and Tyler and a younger sister named Anna.
Interests/Hobbies: Riding horses and hunting
Travels: Alaska, Dominican Republic, Wyoming, Montana, Canada, East Coast, and South Dakota

Supporting a worthy cause



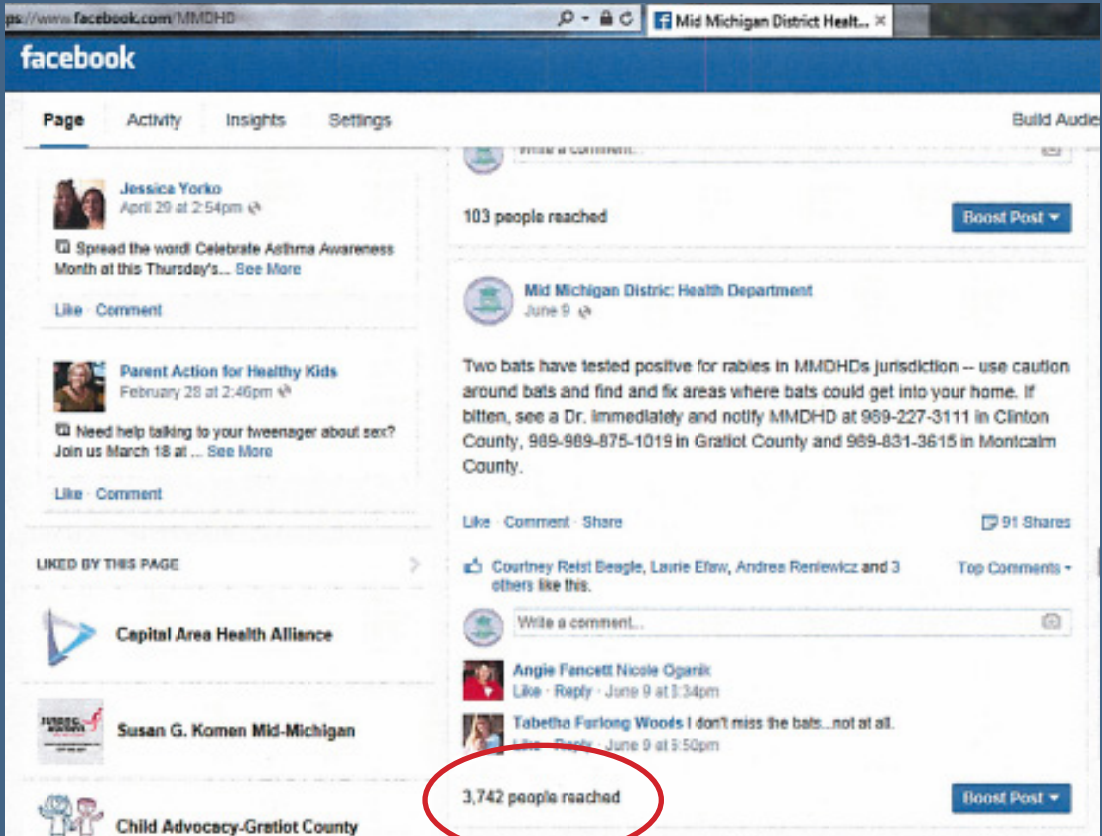
Cindy Partlo, her husband, daughter, and BOH member, Betty Kellenberger, rode in the MSU Gran Fondo bike ride on June 28 to benefit skin cancer research.



Angie Felton, Jenniffer Efaw, and Bob Gouin supporting Girls on the run in May.



Facebook fan favorite



MMDHD on the radio

MMDHD is featured the fourth Tuesday of each month on Greenville's 106.3 radio morning show. Lynda Farquharson will be joined by Montcalm County EMS Director, Dave Feldpausch on September 23, as they share emergency preparedness tips. Molly Smith and Jessica Gallop will be taping an interview on Alma's WWMLM 1520 in September. We'll let you know when it is scheduled to broadcast.

MMDHD blog

Check out our [blog at www.mmdhd.blogspot.com](http://www.mmdhd.blogspot.com). A link can also be found on our website. If you have a suggested topic, let Marcus Cheatham or Leslie Kinnee know.

Like us on Facebook

MMDHD currently has two Facebook accounts to keep followers informed of important notices, reminders, and other items of public health concern—the agency account and the Breastfeeding Peer Counselors' account. Like these accounts and encourage your family and friends to do the same.

Follow us on Twitter

Yes, MMDHD now has a Twitter account. Facebook will continue to be used for everyday information, while Twitter will be reserved for more important, or even urgent notices.

Achievements

Cheryl Thelen earned her Certified Health Education Specialist certification. The credential is issued by the National Commission for Health Education Credentialing, Inc. Cheryl took the 150 question national exam at CMU on April 26. The certification affirms that she has met the standards for “professional competency and commitment to the profession,” and also recognizes that she is a prevention specialist.

Gayle Hood completed the training required to become a Certified Lactation Specialist and passed her exam in May. This certification allows her to offer encouragement and support as well as help mothers solve breastfeeding issues and develop strategies to increase breastfeeding. She is now eligible to take the exam to become a Certified Lactation Consultant.

Lynda Farquharson, Emergency Preparedness Coordinator, was presented with a Longevity Award from the Michigan Department of Community Health Office of Public Health Preparedness for her continued commitment and dedicated service since 2003.

REMINDER!

Be sure to fill out a training request form on the intranet, even for free trainings like webinars!



Stanton Old Fashioned Days parade
 With Jamie Sorgenfrei's daughter, Jamie Sorgenfrei, Leslie Kinnee, Dawn Wadle with her daughter and granddaughter, Jacque Beres, and Leslie Kinnee's daughter.



Andrea Tabor and Wendy Currie at a Komen Race for the Cure event this past spring.

KIDS HEALTH BY THE NUMBERS

6 SNACKS PER DAY
 The number of snacks that about a fifth of American children eat per day. Most have 3. Thirty years ago, it was 1.

1 out of 2 KIDS CAN GET JUNKFOOD AT SCHOOL
 The number of elementary school children who can buy junk food at school.

15 LBS. MORE SUGAR
 The average American now eats 15 more pounds of sugar a year than in 1970.

30% GET ENOUGH PHYSICAL ACTIVITY
 The percentage of high school students getting the recommended levels of physical activity.

7.5 HOURS / DAY ON ELECTRONIC MEDIA
 The average time per day 8- to 18-year-old adolescents spend per day using entertainment media, including television, computers, video games, cell phones and movies.



MMDHD Holidays

October 13
 Columbus Day

November 11
 Veteran's Day

November 27
 Thanksgiving

November 28
 Day after Thanksgiving

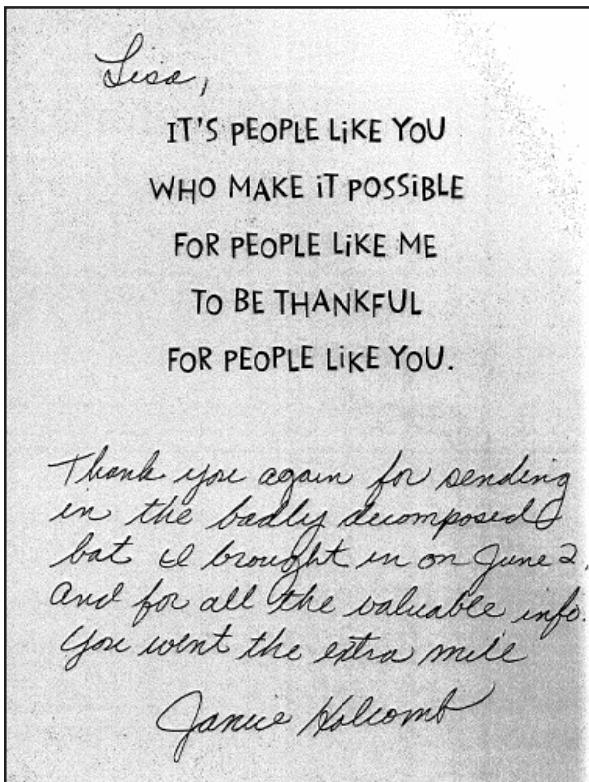


CSHC picnic

MMDHD held a picnic for families enrolled in the Children's Special Healthcare Services program earlier this summer. Kudos to staff for organizing such a wonderful event, which included food, face painting, games for the kids, and much more.

Photo: Peggy Fox, Jamie Sorgenfrei's daughter, Jamie Sorgenfrei, Lauren Simon, Kim Peters, Shannon Madden, Jacque Beres, and Sara Thelen.

KUDOS!



Kim Monahan spoke with the mother of one of our new WIC moms who asked about Peer Counselor **Nicole Montgomery**. She stated, "I don't know what Nicky said to my daughter, but whatever it was gave her so much confidence! She has powered through her breastfeeding issues and we are so proud of her!" She wanted to be sure that Nicole is properly thanked because her kindness is very much appreciated. Apparently, the family has had some difficulties navigating the DHS system and are really grateful for the ease with which they were able to obtain services at MMDHD, especially those of our Peer Counselor.

A co-worker had this to say about **Courtney Beagle**. "Courtney does a wonderful job assisting people with the Marketplace. She is so patient, calm, and businesslike. When a client asks questions, she is very confident with her answers and accurate. She has picked up a lot of knowledge about insurance coverage, co-pays, deductibles, and exemptions."

In April, Stephanie Sanchez, AFIX Coordinator, with MDCH Division of Immunization, conducted a routine QA with AFIX site visit, and had this to say about the visit and **Lisa Mikesell**. "The data and information contained in this site visit is exemplary!! Great to see the NOTE section used! Thanks and nice job!"

Congrats again to the **WIC team** for the very successful Management Evaluation, which was completed in July. All of your hard work impressed the reviewer, and much more importantly, makes a difference every day!

Shelly McPherson, Community Health Worker, recently helped a 54 year old man sign up for the Pathways Program. When Shelly first met him, his home was going into foreclosure and he was in the process of getting evicted, he did not have a primary care provider, was getting a mere \$18 in food stamps each month, didn't have health insurance, wasn't getting a pension from the VA that he was eligible for....and not surprising...was severely depressed due to his situation. Within a few visits, Shelly signed him up for Medicaid, increased his food stamps to \$189 per month, acquired food through a community food pantry, accessed a program through a State grant that was available to provide funds to keep Veterans in their home, established him with a primary care provider and completed the necessary paperwork for him to receive the pension he is due. Not surprising, the client shared that he was less depressed and felt, for the first time in a long while, that someone cared.

Health Enhancement Committee News

Take Your Child to Work Day 2014

The pitter patter of little feet could be heard running through the halls on April 24, which was Take Your Child to Work Day.

Katie Allen and daughter Kacie, Sue Corrigan and grandson Brock, Lisa Mikesell and daughter Brianna



Erin Cambric and son Paxton



Breann Bonga and son Brayden



Jamie Sage and daughter Grace

*Not pictured:
Laura Hunt and daughter Carrie; and
Candy Smith and granddaughter Tanisha*

Penny War

Thanks again to all who participated in the third annual Penny War. This year's winner was GBO, with \$108.90 raised district-wide. GBO decided to donate their winnings to Alma's back-to-school event. According to Wendy Currie, CHED Supervisor, the event's organizers were extremely grateful to receive the donation. They were able to purchase lots of school supplies as well as other items for children in need.

Walking Club

In June, 35 employees participated in the third annual walking club by cruising down Route 66. The winning team of Candy Smith, Lynda Farquharson, Cindy Partlo, Kim Monahan, and Molly Smith made it over half-way, logging an impressive 1,412 miles.

Upcoming HEC events:

- October: Football tailgate potluck and Halloween activities
- November: District-Wide silent auction and 50/50 raffle
- December: Door decorating, cookie exchange, charity events, ugly sweater contest, Christmas luncheons

The Winner's Creed

If you think you are beaten,
you are;
If you think you dare not,
you don't;
If you'd like to win,
but think you can't,
It's almost certain you won't.

If you think you'll lose,
you're last;
Since out in the world we find
Success begins with a
person's will,
It's all in your state of mind.

Life's battles don't always go
to the stronger or faster hand;
But sooner or later
the person who wins
is the one who thinks...
I CAN!

-Author unknown



Tech trends

How strong are your passwords?

Tip submitted by Mario Lucchesi

A good password provides the first line of defense against unauthorized access to your computer, helping to protect your personal online information and agency resources. But most are not strong enough to offer the kind of protection people expect. The stronger your password, the more protected your computer will be from hackers and malicious software. So, how can you tell how strong your passwords are? Visit <https://howsecureismypassword.net/> to find out. You can also follow these tips:

A strong password:

- Is at least eight characters long
- Does not contain your user name, real name, or company name
- Does not contain a complete word
- Is significantly different from previous passwords
- Contains characters from each of the following categories: uppercase letters, lowercase letters, numbers, and symbols found on the keyboard.

If you feel you must write down your passwords in order to remember them, make sure you don't label "passwords" and keep them in a safe place.



Family Planning QI Team

Left to right: Andrea Tabor, Intern Lauren Buhr, Wendy Currie, Bonnie Waterman, Melissa Bowerman, Kim Monahan, Becky Stoddard, Cathy Smith and Ross Pope.

New (or not so new) Additions



Jase Raymond Schestag, grandson of Duane Schneider, EH Specialist II, was born on March 9, 2014.



Westin Lee, grandson of Jennifer Stratton, CHED Supervisor, was born November 8, 2013. He was 7 pounds, 8 ounces and was 20 3/4 inches long.



Dean Thomas, grandson of Wendy Currie, CHED Supervisor, was born February 26, 2014.



Adelyn Luanne, granddaughter of Lisa Howard, PHR II, was born December 7, 2013. She weighed 6 pounds, 5 ounces and was 20 inches long.



Oliver James, grandson of Lynda Farquharson, EPC, was born February 26, 2014 at 6 pounds, 9 ounces and 20" long.



Kaylee Mae, daughter of Sara Thelen, Health Educator, was born October 30, 2013. She weighed 7 pounds, 13 ounces and was 20 1/4 inches long.

HEC Committee

Purpose: To assist employees in establishing a balance of health and wellness in the workplace.

Mission: To create a sense of community within the agency that conveys a positive outlook and a shared vision for the health and wellness of self and others.

Members: Lynda Farquharson, Leslie Kinnee, Charity Little, Kim Peters, Sarah Thelen, Samantha Tran, and Dawn Wadle.