

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
February 10th, 2015
Madison, Wisconsin**

DATE: February 3, 2015

TO: Chancellor Rebecca Blank, UW-Madison – Darrell Bazzell, Designated Representative
Kitty Rhodes, Secretary, DHS – Karen McKeown, Designated Representative
Cathy Stepp, Secretary, DNR – John R. Sullivan, Designated Representative
Ben Brancel, Secretary DATCP –Michelle Wachter, Designated Representative
Barry Irmen, Chair
Dr. Robert Corliss, Vice-Chair
James Morrison, Member
Carrie Lewis, Member
Jeffery Kindrai, Member

Steven Geis, DNR Alternate
Ron Arneson, DNR Alternate
Scott Hildebrand, UW-Madison Alternate
Steven Sobek, DATCP Alternate
Charles Warzecha, DHS Alternate

FROM: Dr. Charles Brokopp, Secretary
Director, Wisconsin State Laboratory of Hygiene



RE: Wisconsin State Laboratory of Hygiene Board of Directors Meeting
Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718
February 10th, 2015
1:00p.m. — 4:00p.m.

C:
Darren Berger
Cynda DeMontigny
Kristine Hansbery
Dave Guberud
Linda Johnson
Jan Klawitter
Dr. Daniel Kurtycz
Steve Marshall
Erin McCarthy
Amy Miles
Rebecca Moritz
Marie Ruetten
Michele Smith
Dr. Peter Shult
Steve Strebel
Russ Van Gilder
David Webb

**WISCONSIN STATE LABORATORY OF HYGIENE
BOARD OF DIRECTORS**

MEETING NOTICE

Tuesday, February 10th, 2015

1:00p.m. – 4:00p.m.

MEETING LOCATION

**Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718**

Notice is hereby given that the Wisconsin State Laboratory of Hygiene Board of Directors will convene at 1:00 p.m. on Tuesday, February 10th, 2015 at Wisconsin State Laboratory of Hygiene in Madison, Wisconsin.

Notice is further given that matters concerning Wisconsin State Laboratory of Hygiene issues, program responsibilities or operations specified in the Wisconsin Statutes, which arise after publication of this notice may be added to the agenda and publicly noticed no less than two hours before the scheduled board meeting if the board Chair determines that the matter is urgent.

Notice is further given that this meeting may be conducted partly or entirely by teleconference or videoconference.

Notice is further given that questions related to this notice, requests for special accommodations, or requests for a public appearance are addressed by the Wisconsin State Laboratory of Hygiene Administrative Offices by phone at (608) 890-0288 or in writing to the Wisconsin State Laboratory of Hygiene, 465 Henry Mall, Madison, Wisconsin, 53706.

ORDER OF BUSINESS: See agenda.

Respectfully submitted,



Charles D. Brokopp, DrPH
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors
Director, Wisconsin State Laboratory of Hygiene
February 3, 2015

**Wisconsin State Laboratory of Hygiene
Board of Directors Meeting
February 10th, 2015
1:00 P.M. – 4:00 P.M.**

**Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718**

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**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**PROCEDURAL ITEMS**

**Item 1. UPDATE ON BOARD MEMBERSHIP**

**Description of Item:**

- A) Introduction of Michelle Wachter, Designated Representative, DATCP
- B) Recognition of Susan Buroker's service on the Board
- C) Recognition of Dr. Ruth Etzel's service on the Board

**Suggested Board Action:**

- A) Welcome Michelle Wachter and introduction of Board members.
- B) Approve motion to express appreciation to former Board members and provide a plaque and letter to each former Board member.

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**PROCEDURAL ITEMS**

**Item 2. APPROVAL OF MINUTES**

**Description of Item:**

The draft minutes of the November 4<sup>th</sup>, 2014 board meeting are submitted for approval.

**Suggested Board Action:**

Motion: Approve the draft minutes of the November 4<sup>th</sup>, 2014 board meeting as submitted.

**Staff Recommendation and Comments:**

Approve draft minutes.

Once approved, minutes become part of the public record and are posted on the WSLH website: <http://www.slh.wisc.edu/about/board/board-meetings-agendas-and-minutes/>.

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015  
1:00 P.M – 4:00 P.M.  
2601 Agriculture Drive  
Madison, WI 53718**

**APPROVED MINUTES  
November 4<sup>th</sup>, 2014**

**MEMBERS PRESENT:** Dr. Robert Corliss (Vice-Chair), Susan Buroker, Jeffery Kindrai, Charles Warzecha (on behalf of Karen McKeown), Darrell Bazzell, Dr. Ruth Etzel, James Morrison, Carrie Lewis, Dr. Charles Brokopp

**WSLH STAFF PRESENT:** Dr. Peter Shult, Dr. David Warshauer, Dr. Daniel Kurtycz, Rebecca Adams, David Webb, Cynda DeMontigny, Marie Ruetten, Steve Marshall, Steve Strebel, Kristine Hansbery, and Nathaniel Javid

**DNR STAFF PRESENT:** Steve Geis, Ron Arneson

**GUESTS PRESENT:** None

**Vice-Chair Dr. Robert Corliss called the meeting to order at 1:00 P.M. in Chair Barry Irmen's absence.**

**Item 1. APPROVAL OF MINUTES**

Approve the minutes of the August 19, 2014 board meeting as submitted. Vice-Chair Dr. Robert Corliss made a motion to approve, seconded by Jeffery Kindrai. Carrie Lewis abstained. The motion passed on a unanimous vote.

**Item 2. REORGANIZATION OF AGENDA**

The agenda was reorganized to accommodate the schedule of Dr. Peter Shult, who will be presenting on Ebola.

### **Item 3. PUBLIC APPEARANCES**

There were no public appearances.

### **Item 4. BOARD MEMBERS' MATTERS**

Dr. Bob Corliss introduced new Board member, Carrie Lewis. Ms. Lewis introduced herself to the Board and thanked them for the opportunity to serve. Ms. Lewis has worked for the Milwaukee Water Works since 1995. The Milwaukee Water Works supplies clean water to 860,000 people in Milwaukee and fifteen surrounding communities. Milwaukee Water Works is in the business of public health, ensuring access to high quality water. The Board introduced themselves to Ms. Lewis as well.

Dr. Brokopp mentioned that the WSLH has two assistant laboratory directors: Steve Marshall and David Webb. Steve Marshall will be continuing his duties from an Interim Assistant Director along with continuing to lead our office for research support. Dave Webb has assumed the role of Assistant Director along with his prior duty as Director of the laboratory's Environmental Health Division.

### **Item 5. SCIENTIFIC PRESENTATIONS**

- 1) Ebola Update**
  - a) Dr. Peter Shult**
  - b) Mr. Charles Warzecha, DHS**

Dr. Peter Shult, Director, Communicable Disease Division, WSLH, presented on Ebola and EV-D68 to the Board. This is a large outbreak of Ebola with a reported case count approaching 14,000 with 5,000 deaths. On the global scale, the Ebola outbreak has been focused in Guinea, Sierra Leone, and Liberia. Even though Ebola is most prevalent in these three countries, the consequences of this outbreak are global. Therefore, Ebola planning is a non-stop occurrence for public health agencies including the WSLH. The bad news for labs is that there are no comprehensive guidelines solely for laboratories and no single authoritative source has the answers. Also, the situation with Ebola is rapidly evolving, and as such, recommendations will continue to change. The good news is that excellent guidance exists that can be adapted to this situation. The WSLH has the strongest clinical laboratory network in the country and we are not alone in planning. The WSLH is sharing information with other laboratories through routine updates via our Wisconsin Laboratory Messaging System, posting of up-to-date general guidance and links on our WSLH website and facilitating information sharing on the Wisconsin Clinical Laboratory Network (WCLN) listserv. Also, the WSLH is planning one or more interactive Ebola audio-conferences for WCLN members.

With regards to testing, the WSLH will be offering the Ebola Zaire Real-time RT-PCR provided by the CDC. Guidance for requesting the test and specimen submission will be



developed and distributed; however, testing will require CDC/WDPH approval. In the meantime, Ebola testing is available at the CDC or Minnesota's state public health lab. Testing for Ebola is complicated. The FDA has issued an emergency use authorization (EUA) for two new commercial Ebola tests. More EUAs will likely follow and the potential impact on the clinical and public health response is being determined – the WSLH is proactively assessing the situation and communicating with clinical labs and the WDPH. The WSLH is also addressing packaging and shipping of suspect Ebola specimens to the CDC, carrying out laboratory risk assessments, and laboratory infectious waste handling. In all, the laboratory needs to be fully engaged in Ebola preparedness planning, along with continually monitoring relevant guidance from the CDC and others, sharing information with the WCLN, and forwarding laboratory-related questions to the CDC.

Dr. Shult next discussed Enterovirus-D68 (EV-D68). EV-D68 is related to rhinoviruses that are a very common cause of respiratory illness. EV-D68 causes a wide variety of illnesses that usually affect children. The types of EV-D68 that circulate are variable and unpredictable with peak activity during the summer and fall. Currently, from mid-August to November 3, 2014, 1,105 cases have been reported from 47 states, indicating widespread activity. As of October 27, there have been 29 CDC confirmed cases in Wisconsin; however, not all hospitalized cases were diagnosed with EV-D68 – others included rhinoviruses and other enteroviruses. For response, diagnostic testing capabilities are rapidly evolving along with participation in surveillance and information sharing. The ultimate public health impact remains to be seen.

Mr. Charles Warzecha, Deputy Administrator, DHS, provided an Ebola update from DHS. Mr. Warzecha stated that the DHS is coordinating with the CDC and Wisconsin local public health agencies for surveillance of recent travelers with risks of developing Ebola along with meeting the communication and information needs of partners and the public through accurate, timely, and consistent messaging. Mr. Warzecha mentioned there are no Ebola cases in Wisconsin with the 2014 outbreak being the largest in history. Ebola is only spread through contact with bodily fluids and individuals are contagious only when they have symptoms. Symptoms of Ebola include fever, headache, weakness, diarrhea, vomiting, abdominal pain, lack of appetite and abnormal bleeding. Ebola's incubation is typically eight to ten days with a data range of two to twenty-one days. In addition to contact with bodily fluids, Ebola is also transmitted through exposure to objects that have been contaminated with infected blood or secretions, unprotected handling of a body who died from Ebola, and contact with infected wildlife. Ebola is not transmitted via air, food, or water.

Mr. Warzecha discussed surveillance and screening for Ebola. For example, 36,000 people were screened and 77 were denied boarding for West African airport exit screenings, although none were diagnosed with Ebola. The CDC issued a Level 3 travel warning notice for U.S. citizens to avoid non-essential travel to Guinea, Liberia, and Sierra Leone. Enhanced U.S. screening of incoming air travelers is taking place in New York's Kennedy Airport, New Jersey's Newark, Washington's Dulles, Chicago's O'Hare, and Atlanta's Hartsfield-Jackson. All travelers arriving in the U.S. from Guinea, Sierra

Leone, and Liberia will be routed through those airports with enhanced screening consisting of a visual and temperature check, completion of a CDC questionnaire, and an issuance of a Check and Report Ebola (CARE) kit. The CDC notifies the DHS of each Wisconsin-bound traveler identified with Ebola Exposure Risk Levels. LPHAs are promptly contacted by DHS which actively monitors health status for twenty-one days. Six people in Wisconsin currently meet DHS Ebola surveillance criteria. Overall, 49 people have been monitored in Wisconsin, 43 of whom have passed the 21-day incubation period for Ebola and no longer require monitoring. None had high-risk exposures and none had movement restrictions.

Hospitals must have a plan in place to ensure preparedness. On October 28, 2014, three health systems in Wisconsin were identified to care for confirmed Ebola patients and are collaborating with the DHS. These systems include UW Health, Froedtert & the Medical College of Wisconsin, and Milwaukee Children's Hospital of Wisconsin. The DHS coordinates transport of Ebola patients and is working on coordinating Personal Protection Equipment (PPE), Clinical Advisory Teams (CAT), and National Guard Joint Assistant Teams (JHAT).

Mr. Warzecha next discussed how to properly dispose of Ebola patient waste. Sanitary sewers may be used for the safe disposal of patient waste. Wastewater utility workers must practice sound hygiene when handling sewage. Mr. Warzecha reminded the Board that there are limited options for treatment to destroy the virus and no in-state Ebola-ready disposal facilities exist that can receive medium to large amounts of Ebola waste. Ultimately, the DHS is developing guidance for the safe cleanup of Ebola-contamination at non-health-care locations.

Mr. Warzecha concluded his presentation by stating that DHS is taking an active role in communication and outreach through weekly webinars, providing guidance, surveying, briefings, media releases and interviews, and website maintenance.

## **Item 6. FISCAL YEAR 2015 FIRST QUARTER REPORT**

### **1) Marie Ruetten, Wisconsin State Laboratory of Hygiene**

Marie Ruetten, Financial Manager, WSLH, presented the FY15 first-quarter report. The first quarter ended on September 30, 2014. Our revenue is under budget by \$110,460 YTD. This is mostly due to agency lab services. We are ahead in non-agency revenue, OWI funding, and interest income and behind in GPR and grant funding.

Expenses are under budget by \$413,150 YTD. Supplies and services are slightly under budget, which is good for this time of year. Our net operating income is under budget at \$224,973.

Ms. Ruetten presented a modified cash basis budget to reflect our reserve expenditures. Our FY15 approved annual budget included reserve expenditures in the

amount of \$1,643, 207. As of October 22, 2014, we have \$720,000 of capital expenses in ordering process not yet encumbered. Of this, \$290,000 is grant funded. We have spent \$343, 889 YTD.

Our YTD total support and revenue is \$10, 890,699, which is \$437,277 greater than it was on September 30, 2013. Our YTD expenses are \$10,812,982, which is \$230,621 greater than it was on September 30, 2013. Overall, our YTD net operating income is \$77, 717, which is \$667,898 less than it was on September 30, 2013.

Our available working capital is \$8,281,512 as of September 30, 2014 compared to \$7,995,430 on June 30, 2014. Our cash unrestricted balance as of September 30, 2014 is \$9,952,486 compared to \$9,613,272 on June 30, 2014. As of September 30, 2014 our cash balance is \$11,983,920; however, subtracting our restricted cash, deferred revenue, and encumbered payables, gives us an available unrestricted cash balance of \$3,756,251.

## **Item 7. STRATEGIC MAP UPDATE**

### **1) Steve Marshall, Assistant Director, Wisconsin State Laboratory of Hygiene**

Mr. Marshall provided an update on the WSLH strategic map to the Board. The three year strategic map has been modified from the historically used five year strategic plan to allow for more flexibility. In the new strategic map we are defining more categories and objectives and will focus on defining metrics and methods. The defined categories include: growth and sustainability, connectivity and data use, workforce enhancement, research and education support, and quality improvement. Each category contains several objectives. The categories and objectives were developed by the WSLH's Strategic Leadership Team (SLT). We have also updated our vision and mission statements to reflect more accurately the work we do today. Mr. Marshall asked the Board to submit their feedback to the WSLH on this draft strategic map. Jack Sullivan, DNR, suggested the strategic map could include customer service as one of the objectives. Mr. Marshall had the Board vote on the categories they thought were most important. The input from the Board will be reflected in the final strategic map.

## **Item 8. ENGAGEMENT, INCLUSION & DIVERSITY (EID) Update**

### **1) Dr. Charles Brokopp, Director, Wisconsin State Laboratory of Hygiene**

Dr. Brokopp presented the EID update to the Board. The EID initiative began with an employee engagement survey, which included all UW-Madison staff and was conducted by the VCFA's office in 2012 and 2014. The VCFA initiative creates an environment of respect and inclusiveness through opportunities for employee engagement. VCFA Darrell Bazzell mentioned that we developed a survey in order to measure our current

status and progress toward our goals. The overall response rate in 2012 was 50% and in 2014 it was 84%.

Engagement differs from satisfaction in that employees are more fully involved in and enthusiastic about their work. When employees are engaged, they feel listened to, trusted, valued and a sense of belonging is fostered. The survey was administered to 1) quantify employee engagement and inclusion in the workplace, 2) establish a baseline to make better, informed decisions and 3) compare metrics across time. The survey measures pride in one's work, satisfaction with leadership, opportunities at work, satisfaction with the recognition received, prospects for future professional growth, and a positive work environment. Survey statements are rated on a Likert scale (favorable, neutral, unfavorable) and responses are quantified by assigning a numerical value that is tabulated per question and aggregated per category. Ultimately, engaged employees help an organization because they use their skills, talents, and enthusiasm to perform at their highest level, creating higher productivity with better customer service and lower turnover.

Dr. Brokopp presented the WSLH survey response data for 2014 to the Board. Our favorable percentage increased and our unfavorable percentage decreased from 2012 to 2014 for overall satisfaction. This shows improvement in the right direction; however, we do have some room to improve. The six types of questions on the survey were 1) work environment, 2) relationship with co-workers, 3) tools and opportunities, 4) work unit pride, 5) relationship with supervisor and 6) overall satisfaction. Dr. Brokopp presented some of the questions that were included under each section on the survey. Our employee's mean satisfaction scores increased in each category from 2012 to 2014. Employees showed the greatest increase in favorable responses in: Overall work satisfaction (12%), work unit pride (10%), and relationship with supervisor (6%). The only decrease in favorable responses was in tools and opportunities category (-5%). Dr. Brokopp also presented some of the verbatim comments from the survey to the Board.

The next steps for EID include engaging the WSLH's Strategic Leadership Team (SLT) in reviewing data and obtaining training. The WSLH EID steering committee has established workgroups to focus on the six categories of responses, to review survey data, and identify specific action items. As a result, we will prepare a summary report and action plan.

## **Item 9. CONTRACTS REPORT**

### **1) Dr. Charles Brokopp, Director, Wisconsin State Laboratory of Hygiene**

Dr. Brokopp presented the contracts report to the Board. There are no current contracts that the Board needs to approve. Contracts for this period include special projects with APHL funded by the CDC. Also included are contracts through DHS relating to IT work and public health preparedness. We also have ongoing agreements and contracts with the DNR to provide laboratory support for eight projects that require our services.

## Item 10. DIRECTOR'S REPORT

### 1) Dr. Charles Brokopp, Director, Wisconsin State Laboratory of Hygiene

The next WSLH Board Meeting will take place on February 10<sup>th</sup>, 2015 at the 2601 Agriculture Drive location. Dr. Brokopp asked the Board to review the Public and Environmental Health Incidents of Educational Interest in the Board packet along with the Water Systems Report. Public and environmental health incidents described outbreaks caused by B.parapertussis, Ebola, MERS-CoV, Brucella melitensis, Campylobacter, and Enterovirus D68.

An annual worker fatality report was included in the Board packet. Rebecca Adams described the report as an annual listing of fatal occupational injuries in Wisconsin. Fatal injuries declined from 114 in 2012 to 96 in 2013 (>16%). Most fatal work-related incidents occurred in the trade, transportation and utility industries. The number of violent work-related incidents decreased by 59.3%.

Dr. Peter Shult, WSLH, Communicable Disease Division (CDD), provided an influenza update to the Board. An APHL sponsored influenza webinar on October 7<sup>th</sup>, 2014 presented by Dr. Shult and Dr. Julie Villanueva from the CDC. The CDD staff also developed influenza training for virologists from California, Utah and Wisconsin. Dr. Brokopp mentioned that the WSLH CDD received a certificate of appreciation from CDC for their role in anti-viral surveillance.

Dr. Brokopp mentioned that two recent inspections of our Environmental Health Division (EHD) by the American Board of Forensic Toxicology (ABFT) and the Wisconsin Department of Natural Resources (DNR) went very well. Only a few deficiencies were noted that need to be corrected.

Our new building is not ready for occupancy. Some deficiencies with the mechanical systems in the microbiology labs that will not allow us to move into the facility until the issues are addressed. Dr. Brokopp mentioned that we will have an update on this at the next WSLH Board meeting in February 2015.

Dr. Brokopp asked the Board to review the packet for information on recent staff recognitions and accomplishments.

**Vice-Chair Robert Corliss** made a motion to adjourn meeting at 4:00 P.M. **Charles Warzecha** seconded the motion. The motion passed unanimously and the meeting was adjourned.

Respectfully submitted by:

A handwritten signature in black ink that reads "Charles D. Brokopp, DrPH". The signature is written in a cursive style with a large initial 'C' and 'B'.

Charles D. Brokopp, DrPH  
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**PROCEDURAL ITEMS**

**Item 3. REORGANIZATION OF AGENDA**

**Description of the Item:**

Board members may suggest changes in the order in which agenda items are discussed.

**Suggested Board Action:**

None.

**Staff Recommendation and Comments:**

Reorganize the agenda as requested by the Board

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**PROCEDURAL ITEMS**

**Item 4. PUBLIC APPEARANCES**

**Description of the Item:**

Under the board's *Policies and Procedures* nonmembers are invited to make presentations.

**Suggested Board Action:**

Follow WSLH *Policies and Procedures*.

**Staff Recommendation and Comments:**

Follow WSLH *Policies and Procedures*.

*Per Policies and Procedures of the Wisconsin State Laboratory of Hygiene Board of Directors:*

§6.12 *Speaking privileges.* When the board is in session, no persons other than laboratory staff designated by the director shall be permitted to address the board except as hereinafter provided:

- (a) A committee report may be presented by a committee member who is not a member of the board.
- (b) A board or committee member in the course of presenting a matter to the board may request staff to assist in such a presentation.
- (c) If a board member directs a technical question for clarification of a specific issue to a person not authorized in this section, the Chair may permit such a person to respond.
- (d) The board may by majority vote or by decision of the Chair allow persons not otherwise authorized in this section to address the board if the situation warrants or the following criteria is followed:
  - (1) Written requests for public appearances on specific current agenda items shall be made to the board Secretary no later than two working days prior to the meetings. The request shall outline the reasons for the request including the subject matter to be discussed in as much detail as is feasible prior to the meeting of the board. Those requesting an appearance may, at or prior to the board meeting, provide board members copies of any written materials to be presented or a written statement of a position.
  - (2) Individual presentations will be limited to five minutes, unless otherwise authorized by the Chair.
  - (3) To schedule an appearance before the Wisconsin State Laboratory of Hygiene Board of Directors, contact the board Secretary, c/o Director, Wisconsin State Laboratory of Hygiene, 465 Henry Mall, Madison, Wisconsin 53706. Telephone (608) 890-0288. The subject or subjects to be discussed must be identified.
  - (4) The Wisconsin State Laboratory of Hygiene "Guidelines for Citizen Participation in WSLH Board Meetings" are published on its website: <http://>



[www.slh.wisc.edu/index.shtml](http://www.slh.wisc.edu/index.shtml) and printed copies are available on request. (See Appendix 5) [Section §6.12 approved 5/27/03 board meeting.]

## Appendix 5

### Guidelines for Citizen Participation at WSLH Board Meetings

The Wisconsin State Laboratory of Hygiene board provides opportunities for citizens to appear before the board to provide information to the board on items listed on the agenda. Such appearances shall be brief and concise. In order to accommodate this participation in the allotted time, the guidelines are as follows:

- A. Items to be brought before the board:
  - 1. The board Secretary and Chair will assign a specific time on the agenda to hear public comment when a request to speak has been received from a member of the public.
  - 2. Individuals or organizations will be limited to a total of five (5) minutes to make a presentation to the board. Following the presentation board members may ask clarifying questions.
  - 3. An organization is limited to one (1) spokesperson on an issue.
  - 4. On complex issues, individuals wishing to appear before the board are encouraged to submit written materials to the board Secretary in advance of the meeting so the board may be better informed on the subject in question. Such information should be submitted to the board Secretary for distribution to all board members no later than seven (7) working days before the board meeting.
  - 5. No matters that are in current litigation may be brought before the board.
- B. The board encourages individuals to confine their remarks to broad general policy issues rather than the day-to-day operations of the Wisconsin State Laboratory of Hygiene.
- C. Citizens who have questions for board members should ask these questions prior to the board meeting, during any recess during the board proceedings, or after board adjournment.
- D. Written requests to appear before the WSLH Board of Directors should be submitted no later than two (2) working days prior to a scheduled board meeting.
- E. Submit written requests to:  
Secretary, Wisconsin State Laboratory of Hygiene Board of Directors  
C/O WSLH Director  
465 Henry Mall  
Madison, WI 53706  
Telephone: (608) 890-0288  
Email: [charles.brokopp@slh.wisc.edu](mailto:charles.brokopp@slh.wisc.edu)

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 5. BOARD MEMBERS' MATTERS**

**Description of the Item:**

Board Members' Matters will present board members with the opportunity to ask questions and/or discuss issues related to the Wisconsin State Laboratory of Hygiene.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 6. ELECTION OF OFFICERS FOR 2015**

**Description of the Item:**

The officers of the Wisconsin State Laboratory of Hygiene Board: Chair, Vice-Chair/Chair-Elect, and Secretary are elected at the close of business of the first meeting ("annual meeting") of the calendar year. The officers serve through the end of the annual meeting of the following year.

The current Board Policies and Procedures are consistent with the above decision.

*§5.05 Intent*

(a) It is declared to be the intent of the board that the position of Chair be rotated annually among the voting members of the board and that each successive Vice-Chair is also, in effect, the Chair-Elect.

**Suggested Board Action:**

The Board will nominate a member to serve as Vice-Chair/Chair Elect for the 2015 term (February 2015 – February 2016).

**Draft Motion:** To be considered February 10<sup>th</sup>, 2015

**Move the nomination, in accord with Article 5, Policies and Procedures, of the following for officers of the WSLH Board of Directors: Dr. Robert Corliss for the position of Chair, XXX for the position of Vice-Chair/Chair-Elect, and Dr. Charles Brokopp for the position of Secretary for the year 2015 term.**

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 7. SCIENTIFIC PRESENTATIONS**

- 1) WSLH Disease Prevention Division
  - a) *Cervical Cytology Atlas Study & Website*  
*Dr. Daniel Kurtycz, WSLH*
  - b) *Human Papilloma Virus Study*  
*Ms. Erin McCarthy, WSLH*
  - c) *Colposcopy Library for Support of Cervical Cancer Services*  
*Ms. Michele Smith, WSLH*
  
- 2) New Laboratory Update
  - a) *Russ Van Gilder, DOA, Division of State Facilities*
  - b) *Darren Berger and Rebecca Moritz, UW FP&M*
  - c) *Dave Guberud, Ring & DuChateau*

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

COLPOSCOPY LIBRARY

Education for Clinicians and Laboratorians

Michele Smith, M.S. SCT(ASCP)

September 23, 2013

Wisconsin has a strong relationship in women’s health. Utilizing long standing partnerships among WSLH, DPH, and Family Planning Clinicians, the CT Program will develop and maintain a digital library of gynecologic materials. The goal of the library is to provide clinicians and laboratorians access to cytology, colposcopy, and biopsy cases for educational and review processes. The library will include: de-identified clinical information; full slide cytology images; colposcopy images and findings; full slide histology images; and a section for discussion and examination.

PURPOSE:

The development of a colposcopy library is to bring clinical, cytopathology, and surgical pathology information together. The information will be utilized by both clinical and laboratory professionals for educational use.

DPH and the Women’s Health Family Planning and Reproductive Health network is expanding colposcopy clinics throughout Wisconsin in order to better serve the needs of women in the state. The clinics will be able to use the colposcopy centers for referrals rather than going to the private health care system. In this way, the clinics will be able to continue serving the under- and uninsured women of Wisconsin without losing them to follow up and private treatment centers. The goal is to expand into rural areas so that women will not have to drive over 100 miles for follow up and treatment of abnormal cervical lesions. All of the nurse practitioners in the state who are specially trained for colposcopy services are committed to developing educational and review materials in order to maintain proficiency. The WSLH joins in the effort by not only providing cytopathology and surgical pathology services to these clinics, but also developing and maintaining the educational component for our clinical partners.

KEY STAKEHOLDERS:

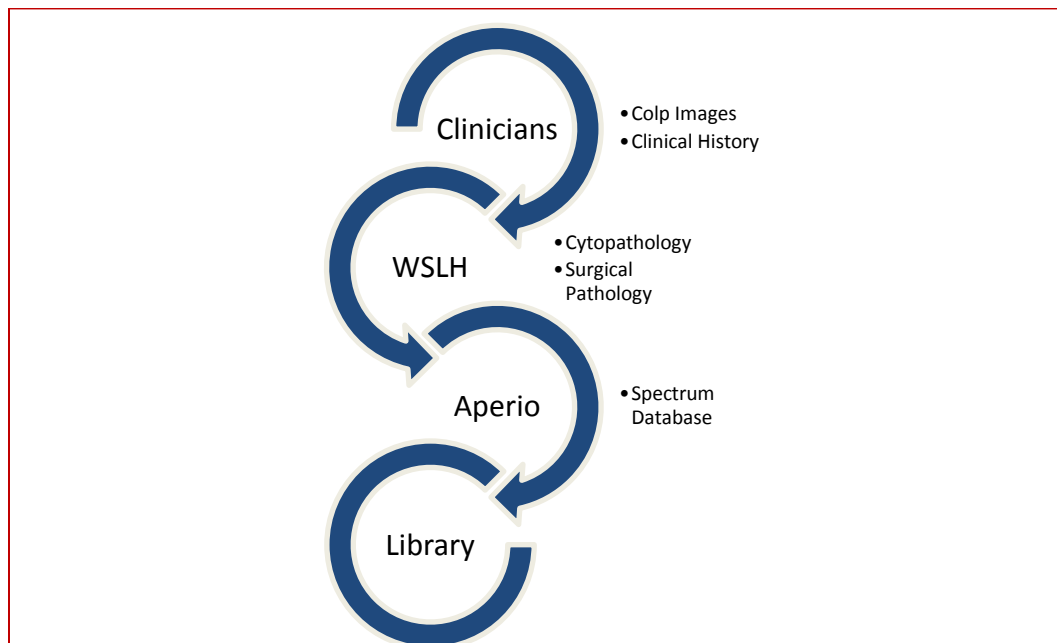
|      |                                              |                                               |
|------|----------------------------------------------|-----------------------------------------------|
| WSLH | Daniel F. I. Kurtycz, MD<br>Medical Director | Cytotechnology Program<br>Cytology Laboratory |
|      | Charles Brokopp Dr.PH                        | Laboratory Director                           |
|      | John Shalkham MA SCT(ASCP)                   | Division Manager                              |
|      | Michele Smith MS SCT(ASCP)                   | Colposcopy Library Project Manager            |
|      | Changhong Ye BS SCT(ASCP)                    | Aperio/Spectrum Lead                          |
|      | Erin McCarthy BS CT(ASCP)                    | Psyche/WindoPath Lead                         |
|      | Katy Penland                                 | Program Assistant                             |
|      | John Olson, DPHIS                            | Set up for file share                         |

|            |                          |                                          |
|------------|--------------------------|------------------------------------------|
| CLINICIANS | Jacquelyne Bodden, NP    | Neighborhood Health Partners             |
|            | Fredrik, Broekhuizen, MD | PPWI                                     |
|            | Donna Hays, RNC, WHNP    | First Choice Women’s Health Center       |
|            | Robin Janzer             | PPWI Cytology and Colposcopy<br>Director |
|            | Kathy King, MD           | PPWI Colposcopy Clinic                   |
|            | Kristina Knight, NP      | HCET/DPH                                 |
|            | Jennifer Waloway, NP     | NewCap Inc                               |
|            |                          | • Ashland/Superior                       |
|            |                          | • Bridge Street/FPHS                     |
|            |                          | • Options<br>• Other                     |
| DPH        | Mike Vaughn              | Program Manager                          |
| HCET       | Carrie Baranowski        | Colposcopy Manager                       |

BASIC FLOW CHART:

1. Clinicians will provide the first step in the library development by taking colposcopy photographs and/or video images.
  - a. All images will be submitted to WSLH via a secure file sharing service.
  - b. Relevant clinical information will also be submitted to WSLH via a secure file sharing service.
  - c. All images will be de-identified for the purpose of the library.
2. WSLH will match up patient with cytopathology and surgical pathology slides in the laboratory.
  - a. The goal will be to find the most current Pap test and concurrent biopsy slides available for this patient so that the slides correspond with the images and information taken during the time of the colposcopy visit.
  - b. All slides will be de-identified for the purpose of the library.
  - c. WSLH Cytology Supervisor will be the lead in maintaining PHI and slides with support from the CT Program Assistant.
3. WSLH will load all materials into the Aperio slide scanning system and Spectrum database.
  - a. All clinicians will receive a unique log in and password for access to all case materials.
  - b. WSLH Cytotechnology program staff will receive unique log in and password for access to all case materials.
  - c. WSLH Education Coordinator will be the lead user for all digital scanning with support from the CT Program Assistant.
4. WSLH CT Program staff will develop education discussion and examination questions based on the case.

- a. Ultimately, the plan will be to make this useful for other clinical and lab professionals as part of continuing education requirements.



WSLH ACTIONS:

**APERIO**

Changhong Ye will be the lead on scanning materials into Aperio and developing and maintaining the Spectrum Database.

Pap and Biopsy slide procurement will be led by Erin McCarthy.

Katy Penland will provide support to Changhong and Erin in this project.

**FILE SHARING**

Michele Smith will work with DPHIS staff to develop and maintain secure file sharing capabilities.

Each clinician identified in the initial pilot will receive their own personal file. A personalized log in and password system will be provided. Files will not stay long in the share folder. Within five working days, Katy or Michele will take the files off of the share folder and placed into the CT Program database.

File contents will be de-identified by Katy and Michele and be readied for placement into the library.

Katy and Michele will provide PHI to Erin McCarthy who will take the lead in obtaining related slide materials.

**CLINICIANS**

The WSLH will rely on clinicians to provide the library with colp images and clinical information related to the case.

## ***MAINTENANCE***

WSLH CT program will maintain all databases of case materials within the CT program servers. Changhong Ye will be the lead for the Aperio/Spectrum database. Katy Penland will be the lead for the internal case material database where patient identification will be stored and maintained. Erin McCarthy will be the lead for all information retrieved from the Psyche WindoPath system. Michele Smith will serve as project manager and main contact with clinicians during the first year. It is expected that Michele will handoff duties to Erin McCarthy after one year.

## ***EDUCATION DISCUSSION/EXAMINATION***

Cytotechnology Program staff will develop questions for each case based on clinical and technical information provided. Questions may take the form of a discussion forum at first and then build into examination questions. It is expected that the Program will request assistance from physicians in pathology and gynecology.

## **MARKETING/FUTURE PLANS:**

As the colposcopy library develops, the WSLH Cytotechnology Program expects to branch out in areas of pathology and gynecology. We will first reach out to other cytotechnology programs and then residency programs. We would like to partner with the UW-Madison or professional societies to develop certified CME credits for clinical and laboratory professionals.



## November 2012

- Colp Syposium
- Case Studies presented

## 2013

- Development of Colp Library
- Colposcopy Image Training
- Colposcopy Cameras
- My webspace trial
- File Share

## November 2013

- Colp Symposium

## 2014 and Beyond

- Building Colp Library
- Roll out library to:
  - WIFP Nurse Practitioners
  - CT Programs
  - WI Residency Programs
- Roll out to other professionals
- Gain CME certification

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 8. FY15 SECOND QUARTER REPORT**

**Description of the Item:**

Marie Ruetten will provide the FY15 first quarter report to the Board.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

WISCONSIN STATE LABORATORY OF HYGIENE

FINANCIAL REPORT

SECOND QUARTER FISCAL YEAR 2015

December 31, 2014

Contents

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FINANCIAL STATEMENTS

Statement of income - accrual basis

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**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**WISCONSIN STATE LABORATORY OF HYGIENE  
STATEMENT OF INCOME  
For the period July 1, 2014 through December 31, 2014  
Accrual Basis**

|                                       | FY 15<br>APPROVED<br>ANNUAL<br>BUDGET | FY15<br>YEAR- TO-<br>DATE<br>BUDGET | FY15<br>YEAR- TO-<br>DATE<br>ACTUAL | VARIANCE<br>Over/(Under) | VARIANCE<br>% of<br>BUDGET |
|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------|
| <b>SUPPORT AND REVENUE</b>            |                                       |                                     |                                     |                          |                            |
| Laboratory Services Revenues (Note 3) |                                       |                                     |                                     |                          |                            |
| Agency                                | \$ 6,343,772                          | \$ 3,081,863                        | \$ 2,770,123                        | \$ (311,740)             | -10.1%                     |
| Nonagency                             | 18,715,552                            | 9,201,018                           | 8,943,451                           | (257,567)                | -2.8%                      |
| GPR Funding                           | 11,152,523                            | 5,575,077                           | 5,340,082                           | (234,995)                | -4.2%                      |
| OWI Fund Revenues                     | 1,523,908                             | 743,129                             | 850,074                             | 106,945                  | 14.4%                      |
| Grant Funding                         | 5,174,751                             | 2,613,883                           | 2,647,257                           | 33,374                   | 1.3%                       |
| Interest Income                       | 8,400                                 | 4,200                               | 5,190                               | 990                      | 23.6%                      |
| <b>TOTAL SUPPORT AND REVENUE</b>      | <b>42,918,906</b>                     | <b>21,219,170</b>                   | <b>20,556,177</b>                   | <b>(662,993)</b>         | <b>-3.1%</b>               |
| <b>EXPENSES</b>                       |                                       |                                     |                                     |                          |                            |
| Salaries                              | 19,511,715                            | 9,347,725                           | 8,835,029                           | (512,696)                | -5.5%                      |
| Fringe Benefits                       | 7,710,552                             | 4,025,792                           | 3,718,823                           | (306,969)                | -7.6%                      |
| Supplies & Services                   | 12,570,504                            | 6,259,308                           | 6,627,831                           | 368,523                  | 5.9%                       |
| Transfer Overhead to UW               | 802,408                               | 396,197                             | 403,238                             | 7,041                    | 1.8%                       |
| Building Rent                         | 2,712,175                             | 1,356,079                           | 1,111,075                           | (245,004)                | -18.1%                     |
| Depreciation                          | 1,972,789                             | 986,395                             | 990,729                             | 4,334                    | 0.4%                       |
| Bad Debt Expense                      | 80,000                                | 39,984                              | 38,041                              | (1,943)                  | -4.9%                      |
| Interest Expense                      | 4,200                                 | 3,600                               | 1,444                               | (2,156)                  | -59.9%                     |
| <b>TOTAL EXPENSES</b>                 | <b>45,364,343</b>                     | <b>22,415,080</b>                   | <b>21,726,210</b>                   | <b>(688,870)</b>         | <b>-3.1%</b>               |
| <b>NET OPERATING INCOME/(LOSS)</b>    | <b>\$ (2,445,437)</b>                 | <b>\$ (1,195,910)</b>               | <b>\$ (1,170,033)</b>               | <b>\$ 25,877</b>         |                            |

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**WISCONSIN STATE LABORATORY OF HYGIENE  
STATEMENT OF INCOME  
For the period July 1, 2014 through December 31, 2014  
Modified Cash Basis**

|                                             | FY 15<br>APPROVED<br>ANNUAL<br>BUDGET | FY15<br>YEAR- TO-<br>DATE<br>BUDGET | FY15<br>YEAR- TO-<br>DATE<br>ACTUAL | VARIANCE<br>Over/(Under) | VARIANCE<br>% of<br>BUDGET |
|---------------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------|
| <b>SUPPORT AND REVENUE</b>                  |                                       |                                     |                                     |                          |                            |
| Laboratory Services Revenues (Note 3)       |                                       |                                     |                                     |                          |                            |
| Agency                                      | \$ 6,343,772                          | \$ 3,081,863                        | \$ 2,770,123                        | \$ (311,740)             | -10.1%                     |
| Nonagency                                   | 18,715,552                            | 9,201,018                           | 8,943,451                           | (257,567)                | -2.8%                      |
| GPR Funding                                 | 11,152,523                            | 5,575,077                           | 5,340,082                           | (234,995)                | -4.2%                      |
| OWI Fund Revenues                           | 1,523,908                             | 743,129                             | 850,074                             | 106,945                  | 14.4%                      |
| Grant Funding                               | 5,174,751                             | 2,613,883                           | 2,647,257                           | 33,374                   | 1.3%                       |
| Interest Income                             | 8,400                                 | 4,200                               | 5,190                               | 990                      | 23.6%                      |
| <b>TOTAL SUPPORT AND REVENUE</b>            | <b>42,918,906</b>                     | <b>21,219,170</b>                   | <b>20,556,177</b>                   | <b>(662,993)</b>         | <b>-3.1%</b>               |
| <b>EXPENSES</b>                             |                                       |                                     |                                     |                          |                            |
| Salaries                                    | 19,511,715                            | 9,347,725                           | 8,835,029                           | (512,696)                | -5.5%                      |
| Fringe Benefits                             | 7,710,552                             | 4,025,792                           | 3,718,823                           | (306,969)                | -7.6%                      |
| Supplies & Services                         | 12,570,504                            | 6,259,308                           | 6,627,831                           | 368,523                  | 5.9%                       |
| Transfer Overhead to UW                     | 802,408                               | 396,197                             | 403,238                             | 7,041                    | 1.8%                       |
| Building Rent                               | 2,712,175                             | 1,356,079                           | 1,111,075                           | (245,004)                | -18.1%                     |
| Capital Expense                             | 1,170,559                             | 1,025,061                           | 755,910                             | (269,151)                | -26.3%                     |
| Bad Debt Expense                            | 80,000                                | 39,984                              | 38,041                              | (1,943)                  | -4.9%                      |
| Interest Expense                            | 4,200                                 | 3,600                               | 1,444                               | (2,156)                  | -59.9%                     |
| <b>TOTAL EXPENSES</b>                       | <b>44,562,113</b>                     | <b>22,453,746</b>                   | <b>21,491,391</b>                   | <b>(962,355)</b>         | <b>-4.3%</b>               |
| <b>NET OPERATING INCOME OR (LOSS)</b>       | <b>\$ (1,643,207)</b>                 | <b>\$ (1,234,576)</b>               | <b>\$ (935,214)</b>                 | <b>\$ 299,362</b>        |                            |
| <b>RESERVE EXPENDITURES</b>                 | <b>\$ 1,643,207</b>                   | <b>\$ 821,603</b>                   | <b>\$ 990,910</b>                   | <b>\$ 169,307</b>        |                            |
| <b>MODIFIED NET OPERATING INCOME/(LOSS)</b> | <b>\$ -</b>                           | <b>\$ (412,973)</b>                 | <b>\$ 55,696</b>                    | <b>\$ 468,669</b>        |                            |

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**WISCONSIN STATE LABORATORY OF HYGIENE  
COMPARATIVE INCOME STATEMENT  
For the 6 months ended December 31, 2014 and December 31, 2013**

|                                       | <b>6 Months<br/>Actual FY15</b> | <b>6 Months<br/>Actual FY14</b> | <b>Variance<br/>Over/(Under)</b> | <b>Percentage<br/>Change</b> |
|---------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------------|
| <b>SUPPORT AND REVENUE</b>            |                                 |                                 |                                  |                              |
| Laboratory Services Revenues (Note 3) |                                 |                                 |                                  |                              |
| Agency                                | \$ 2,770,123                    | \$ 3,113,495                    | \$ (343,372)                     | -11.0%                       |
| Nonagency                             | 8,943,451                       | 10,322,234                      | (1,378,783)                      | -13.4%                       |
| GPR Funding                           | 5,340,082                       | 5,215,530                       | 124,552                          | 2.4%                         |
| OWI Fund Revenues                     | 850,074                         | 787,365                         | 62,709                           | 8.0%                         |
| Grant Funding                         | 2,647,257                       | 2,380,827                       | 266,430                          | 11.2%                        |
| Interest Income                       | 5,190                           | 4,689                           | 501                              | 10.7%                        |
| <b>TOTAL SUPPORT AND REVENUE</b>      | <b>20,556,177</b>               | <b>21,824,140</b>               | <b>(1,267,963)</b>               | <b>-5.8%</b>                 |
| <b>EXPENSES</b>                       |                                 |                                 |                                  |                              |
| Salaries                              | 8,835,029                       | 8,555,272                       | 279,757                          | 3.3%                         |
| Fringe Benefits                       | 3,718,823                       | 3,545,677                       | 173,146                          | 4.9%                         |
| Supplies & Services                   | 6,627,831                       | 6,685,472                       | (57,641)                         | -0.9%                        |
| Transfer Overhead to UW               | 403,238                         | 384,875                         | 18,363                           | 4.8%                         |
| Building Rent                         | 1,111,075                       | 1,031,305                       | 79,770                           | 7.7%                         |
| Depreciation                          | 990,729                         | 912,575                         | 78,154                           | 8.6%                         |
| Bad Debt Expense                      | 38,041                          | 61,520                          | (23,479)                         | -38.2%                       |
| Interest Expense                      | 1,444                           | 2,488                           | (1,044)                          | -42.0%                       |
| <b>TOTAL EXPENSES</b>                 | <b>21,726,210</b>               | <b>21,179,184</b>               | <b>547,026</b>                   | <b>2.6%</b>                  |
| <b>NET OPERATING INCOME OR (LOSS)</b> | <b>\$ (1,170,033)</b>           | <b>\$ 644,956</b>               | <b>\$ (1,814,989)</b>            |                              |

**WISCONSIN STATE LABORATORY OF HYGIENE**  
**COMPARATIVE BALANCE SHEET**  
As of December 31, 2014 and June 30, 2014

| <b>ASSETS</b>                               | <u>December 31, 2014</u> | <u>June 30, 2014</u> |
|---------------------------------------------|--------------------------|----------------------|
| <b>CURRENT ASSETS</b>                       |                          |                      |
| Cash                                        | \$ 10,843,649            | \$ 9,064,175         |
| Cash-restricted-newborn screening surcharge | 1,694,330                | 1,734,826            |
| Net accounts receivables (Note 2)           | 4,825,937                | 5,479,437            |
| Other receivables                           | 364,411                  | 1,604,807            |
| Inventories                                 | 61,446                   | 62,573               |
| Prepaid expenses                            | 364,461                  | 417,176              |
| Total current assets                        | <u>18,154,234</u>        | <u>18,362,994</u>    |
| <b>EQUIPMENT AND BUILDING IMPROVEMENTS</b>  |                          |                      |
| Equipment                                   | 25,659,591               | 24,932,759           |
| Building improvements                       | 7,234,117                | 7,234,117            |
|                                             | <u>32,893,708</u>        | <u>32,166,876</u>    |
| Less accumulated depreciation               | <u>(22,848,659)</u>      | <u>(21,860,586)</u>  |
| Total net fixed assets                      | <u>10,045,049</u>        | <u>10,306,290</u>    |
| <b>Total Assets</b>                         | <u>\$ 28,199,283</u>     | <u>\$ 28,669,284</u> |
| <b>LIABILITIES AND EQUITY</b>               |                          |                      |
| <b>CURRENT LIABILITIES</b>                  |                          |                      |
| Salaries payable                            | \$ 238,060               | \$ 520,124           |
| Accounts payable                            | 1,343,630                | 1,409,616            |
| Newborn screening surcharge payable         | 1,694,330                | 1,734,826            |
| Accrued expenses                            | 60,000                   | 155,554              |
| Current obligations under capital leases    | -                        | 29,629               |
| Notes Payable - current                     | 94,390                   | 94,988               |
| Proficiency testing deferred revenue        | 2,579,645                | 1,360,380            |
| Newborn screening deferred revenue          | 2,106,652                | 2,111,558            |
| Compensated Absences (Note 5)               | 695,205                  | 813,915              |
| Total current liabilities                   | <u>8,811,912</u>         | <u>8,230,590</u>     |
| <b>LONG TERM DEBT</b>                       |                          |                      |
| Compensated Absences (Note 5)               | <u>1,587,530</u>         | <u>1,411,567</u>     |
| Total long term debt                        | <u>1,587,530</u>         | <u>1,411,567</u>     |
| <b>Total Liabilities</b>                    | <u>10,399,442</u>        | <u>9,642,157</u>     |
| <b>EQUITY</b>                               |                          |                      |
| Retained earnings-restricted (Note 4)       |                          |                      |
| Operating contingency                       | 2,282,927                | 2,136,900            |
| Total restricted retained earnings          | <u>2,282,927</u>         | <u>2,136,900</u>     |
| Net Operating Income or (Loss)              | (1,170,033)              | 1,760,554            |
| Retained earnings-unrestricted              | 11,271,534               | 9,714,260            |
| Contributed capital                         | 5,415,413                | 5,415,413            |
| Total unrestricted retained earnings        | <u>15,516,914</u>        | <u>16,890,227</u>    |
| <b>Total Equity</b>                         | <u>17,799,841</u>        | <u>19,027,127</u>    |
| <b>Total Liabilities and Equity</b>         | <u>\$ 28,199,283</u>     | <u>\$ 28,669,284</u> |
| Contingency Funding                         | 9,342,322                | 10,132,404           |

**WISCONSIN STATE LABORATORY OF HYGIENE**  
**STATEMENT OF CASH FLOWS**  
For the Period July 1, 2014 through December 31, 2014

**CASH FLOWS FROM OPERATING ACTIVITIES**

|                                                                                   |                |
|-----------------------------------------------------------------------------------|----------------|
| Net income                                                                        | \$ (1,170,033) |
| Adjustments to reconcile net income to net cash provided by operating activities: |                |
| Depreciation                                                                      | 990,729        |
| Changes in working capital components:                                            |                |
| Decrease in net accounts receivables                                              | 653,500        |
| Decrease in other receivables                                                     | 1,240,396      |
| Decrease in inventories                                                           | 1,127          |
| Decrease in prepaid expenses                                                      | 52,715         |
| (Decrease) in salaries payable                                                    | (282,064)      |
| (Decrease) in accounts payable                                                    | (65,986)       |
| (Decrease) in newborn screening surcharge payable                                 | (40,496)       |
| (Decrease) in accrued expenses                                                    | (95,554)       |
| (Decrease) in current obligations under capital leases                            | (29,629)       |
| (Decrease) in notes payable - current                                             | (598)          |
| Increase in proficiency testing deferred revenue                                  | 1,219,265      |
| (Decrease) in newborn screen deferred revenue                                     | <u>(4,906)</u> |
| Net cash provided (used) in operating activities                                  | 2,468,466      |

**CASH FLOWS FROM INVESTING ACTIVITIES**

|                                                       |                  |
|-------------------------------------------------------|------------------|
| Purchase of equipment and physical plant improvements | <u>(729,488)</u> |
| Net cash (used in) investing activities               | <u>(729,488)</u> |

**CASH FLOWS FROM FINANCING ACTIVITIES**

|                                                  |          |
|--------------------------------------------------|----------|
| Principal payment on Capital Lease               | <u>-</u> |
| Net cash provided (used in) financing activities | <u>-</u> |

Net increase (decrease) in cash 1,738,978

**Cash:**

|           |                      |
|-----------|----------------------|
| Beginning | <u>10,799,001</u>    |
| Ending    | <u>\$ 12,537,979</u> |



**WISCONSIN STATE LABORATORY OF HYGIENE**  
**NOTES TO THE FINANCIAL STATEMENTS**  
For the period July 1, 2014 through December 31, 2014

**NOTE 1 –NATURE OF BUSINESS AND SIGNIFICANT ACCOUNTING POLICIES**

Nature of Business:

- The Wisconsin State Laboratory of Hygiene (WSLH) is a governmental institution which provides medical, industrial and environmental laboratory testing and related services to individuals, private and public agencies, including the Department of Natural Resources (DNR) and the Department of Health Services (DHS). Approximately 75% of the WSLH operating revenues are program revenues, including contracts, grants, and fee-for-service billing. The remainder are general purpose revenues (GPR), which are Wisconsin state general fund dollars.

Budgetary Data:

- Fiscal Year 2014-2015 operating budget amounts were approved by the WSLH Board on June 17, 2014.

Basis of Presentation:

- The financial statements have been prepared on a modified accrual basis following Generally Accepted Accounting Principles (GAAP).

Basis of Accounting:

- Revenues are recognized at the completion of the revenue generating processes. Fee-for-service revenues are generally recognized in the period services are completed.
- Revenues from GPR, OWI, Grants, and expense reimbursement contracts for salaries, fringe benefits, capital, and supplies are recognized as expended.
- Expenses are recognized and accrued when the liability is incurred.

Estimates and assumptions:

- The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying footnotes. Actual results could differ from those estimates.

Assets:

- Cash is considered restricted if, by prior agreement with an outside entity, it must be segregated for future use by the outside entity or by WSLH at the outside entity's behest. As of December 31, 2014 available cash is restricted in an amount equal to the newborn screening surcharge payable to the Wisconsin Department of Health Services.
- Accounts receivable are reported at net realizable value. Net realizable value is equal to the gross amount of receivables less an estimated allowance for uncollectible amounts.
- Inventory is stated at cost (first in, first-out method).
- Equipment and building improvements are carried at cost. Expenditures for assets in excess of \$5,000 are capitalized. Depreciation is computed by the straight-line method.

Liabilities

- A liability for unearned revenue is recognized for prepaid receipts for WSLH-provided Proficiency Testing programs and for prepaid newborn screening tests.

**NOTE 2- ACCOUNTS RECEIVABLE**

- Accounts receivable and allowance for uncollectible account balances as of December 31, 2014 and June 30, 2014 are as follows:

|                           |                          |                      |
|---------------------------|--------------------------|----------------------|
|                           | <u>December 31, 2014</u> | <u>June 30, 2014</u> |
| Accounts Receivable Total | \$5,373,187              | \$6,056,412          |
| Allowance for bad debt    | <u>(547,250)</u>         | <u>(576,975)</u>     |
| Net Receivables           | \$4,825,937              | \$5,479,437          |

**NOTE 3- LABORATORY SERVICES REVENUES**

- At the Board's request, Laboratory Service Revenues on the Income Statement have been divided into two groups, Agency and Non-Agency, as follows:

Agency:

- DNR contracts
- DHS contracts
- DATCP
- University of Wisconsin
- Office of Justice Assistance
- Wisconsin Emergency Management

Non-Agency:

- UW Hospital Authority
- Medicare and Medicaid
- Municipalities
- Law Enforcement Agencies
- Proficiency Testing
- Newborn Screening

All other revenues from individuals, businesses, clinics, and hospitals.

**NOTE 4- RETAINED EARNINGS - RESTRICTED**

- The operating contingency is computed annually and reflects two months of salary and fringe benefit cost for positions funded from program revenues. The contingency fund is considered adequately funded if working capital is greater than the contingency fund restriction. As of December 31, 2014 working capital (current assets less current liabilities) was \$9,342,322 thereby meeting the target contingency reserve requirement of \$2,282,927.

**NOTE 5- COMPENSATED ABSENCES**

- GASB Statement No. 16, "Accounting for Compensated Absences," establishes standards of accounting and reporting for compensated absences by state and local governmental entities for which employees will be paid such as vacation, sick leave, and sabbatical leave. Using the criteria in Statement 16, a liability for compensated absences that is attributable to services already rendered and that is not contingent on a specific event that is outside the control of the State and its employees has been accrued. The table below details the liability by benefit category:

|              | Total            | Vacation  | Pers Hol  | Legal Hol | Comp<br>Time | Sabbatical  |
|--------------|------------------|-----------|-----------|-----------|--------------|-------------|
| Current      | \$695,205        | \$490,640 | \$130,663 | \$4,844   | \$5,041      | \$64,017    |
| Long<br>Term | <u>1,587,530</u> | 0         | 0         | 0         | 0            | 1,587,530   |
|              | \$2,282,735      | \$490,640 | \$130,663 | \$4,844   | \$5,041      | \$1,651,547 |

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 9. FORENSIC TOXICOLOGY UPDATE**

**Description of the Item:**

David Webb, Environmental Health Division Director and Assistant Director WSLH, and Amy Miles, Toxicology Manager, WSLH, will provide an update the forensic toxicology.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

Receive for information.

| Lab: Forensic Toxicology Lab                                  |        |        |        |        |        |        |        |        |        |        |        |        |         |        |
|---------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Report Description: Toxicology Turnaround Time Report -- 2014 |        |        |        |        |        |        |        |        |        |        |        |        |         |        |
|                                                               | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Nov-14 | Dec-14 | Avg     | Total  |
| <b>OWI Toxicology (Implied Consent)</b>                       |        |        |        |        |        |        |        |        |        |        |        |        |         |        |
| Samples Received Alcohol                                      | 1,552  | 1,047  | 1,279  | 1,348  | 1,195  | 1,375  | 1,586  | 1,676  | 1,255  | 1,381  | 1,287  | 1,122  | 1,341.9 | 16,103 |
| Samples Received Drugs                                        | 283    | 220    | 246    | 332    | 281    | 326    | 407    | 374    | 345    | 300    | 363    | 211    | 307.3   | 3,688  |
| TAT Alcohol                                                   | 6.1    | 4.1    | 4.8    | 2.8    | 3.0    | 3.1    | 4.0    | 4.0    | 3.9    | 3.2    | 4.1    | 2.0    | 3.7     | N/A    |
| TAT Drug                                                      | 124.4  | 198.7  | 185.2  | 168.3  | 96.1   | 100.1  | 68.6   | 53.3   | 130.9  | 88.6   | 67.8   | 48.6   | 110.9   | N/A    |
| <b>MVD Toxicology (Motor Vehicle Death)</b>                   |        |        |        |        |        |        |        |        |        |        |        |        |         |        |
| Samples Received Alcohol                                      | 17     | 21     | 14     | 8      | 19     | 18     | 16     | 22     | 13     | 13     | 19     | 20     | 16.7    | 200    |
| Samples Received Drugs                                        | 9      | 13     | 8      | 5      | 12     | 10     | 10     | 13     | 8      | 9      | 10     | 8      | 9.6     | 115    |
| TAT Alcohol                                                   | 4.0    | 1.9    | 7.1    | 3.6    | 4.1    | 1.2    | 5.0    | 1.8    | 3.0    | 2.3    | 3.8    | 2.2    | 3.3     | N/A    |
| TAT Drug                                                      | 113.1  | 0.0    | 171.8  | 120.1  | 85.9   | 53.3   | 24.1   | 28.4   | 68.0   | 51.8   | 47.5   | 24.0   | 65.7    | N/A    |
| <b>C/ME Toxicology (Coroner/Medical Examiner)</b>             |        |        |        |        |        |        |        |        |        |        |        |        |         |        |
| Samples Received Alcohol                                      | 29     | 29     | 35     | 20     | 37     | 22     | 35     | 35     | 34     | 41     | 29     | 24     | 30.8    | 370    |
| Samples Received Drugs                                        | 23     | 28     | 26     | 12     | 27     | 17     | 32     | 26     | 26     | 30     | 24     | 19     | 24.2    | 290    |
| TAT Alcohol                                                   | 4.0    | 1.9    | 3.2    | 3.2    | 4.1    | 3.0    | 3.9    | 1.8    | 1.1    | 3.0    | 3.8    | 2.9    | 3.0     | N/A    |
| TAT Drug                                                      | 113.7  | 450.3  | 153.8  | 133.0  | 82.1   | 81.0   | 52.2   | 21.5   | 22.7   | 17.6   | 42.0   | 33.9   | 100.3   | N/A    |

Lab: Forensic Toxicology Lab  
 Report Description: Toxicology Turnaround Time Report  
 Report Period: 1/1/2015 To 1/31/2015

|                                                   | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Avg     | Total |
|---------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|
| <b>OWI Toxicology (Implied Consent)</b>           |        |        |        |        |        |        |        |        |        |        |        |        |         |       |
| Samples Received Alcohol                          | 1,311  |        |        |        |        |        |        |        |        |        |        |        | 1,311.0 | 1,311 |
| Samples Received Drugs                            | 380    |        |        |        |        |        |        |        |        |        |        |        | 380.0   | 380   |
| TAT Alcohol                                       | 2.0    |        |        |        |        |        |        |        |        |        |        |        | 2.0     | N/A   |
| TAT Drug                                          | 60.0   |        |        |        |        |        |        |        |        |        |        |        | 60.0    | N/A   |
| <b>MVD Toxicology (Motor Vehicle Death)</b>       |        |        |        |        |        |        |        |        |        |        |        |        |         |       |
| Samples Received Alcohol                          | 17     |        |        |        |        |        |        |        |        |        |        |        | 17.0    | 17    |
| Samples Received Drugs                            | 9      |        |        |        |        |        |        |        |        |        |        |        | 9.0     | 9     |
| TAT Alcohol                                       | 4.9    |        |        |        |        |        |        |        |        |        |        |        | 4.9     | N/A   |
| TAT Drug                                          | 17.1   |        |        |        |        |        |        |        |        |        |        |        | 17.1    | N/A   |
| <b>C/ME Toxicology (Coroner/Medical Examiner)</b> |        |        |        |        |        |        |        |        |        |        |        |        |         |       |
| Samples Received Alcohol                          | 31     |        |        |        |        |        |        |        |        |        |        |        | 31.0    | 31    |
| Samples Received Drugs                            | 27     |        |        |        |        |        |        |        |        |        |        |        | 27.0    | 27    |
| TAT Alcohol                                       | 3.1    |        |        |        |        |        |        |        |        |        |        |        | 3.1     | N/A   |
| TAT Drug                                          | 28.1   |        |        |        |        |        |        |        |        |        |        |        | 28.1    | N/A   |

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 10. LAB FEE COSTING PLAN UPDATE**

**Description of the Item:**

Dr. Brokopp will provide the lab fee costing plan update to the Board.

**Suggested Board Action:**

Receive for information and input.

**Staff Recommendations and Comments:**

Receive for information and input



|          |                                                                                    |                            |                           |
|----------|------------------------------------------------------------------------------------|----------------------------|---------------------------|
| <b>D</b> | Maintenance<br>(annual maintenance costs of equip/# of tests)                      |                            | <b>\$0.00</b>             |
| <b>E</b> | Interdepartmental Expenses<br>(shipping, receiving, etc., per test)                |                            | <b>\$0.00</b>             |
| <b>F</b> | Labor                                                                              | <b>Amt (per<br/>batch)</b> | <b>Amt (per<br/>test)</b> |
|          | Step One: <b>Preamalytical</b> (sample prep)                                       |                            |                           |
|          | total annual salary                                                                |                            |                           |
|          | =                                                                                  | \$0                        |                           |
|          | per minute rate =                                                                  | 0.00                       |                           |
|          | number of minutes per test =                                                       | 0                          |                           |
|          | Subtotal = labor cost per test                                                     | \$0.00                     | <b>\$0.00</b>             |
|          | Step Two: <b>Analytical</b>                                                        |                            |                           |
|          | total annual salary                                                                |                            |                           |
|          | =                                                                                  | \$0                        |                           |
|          | per minute rate =                                                                  | 0.00                       |                           |
|          | number of minutes per test =                                                       | 0                          |                           |
|          | Subtotal = labor cost per test                                                     | \$0.00                     | <b>\$0.00</b>             |
|          | Step Three: <b>Post Analytical</b> (quantitation, interpretation, reporting)       |                            |                           |
|          | total annual salary                                                                |                            |                           |
|          | =                                                                                  | \$0                        |                           |
|          | per minute rate =                                                                  | 0.00                       |                           |
|          | number of minutes per test =                                                       | 0                          |                           |
|          | Subtotal = labor cost per test                                                     | \$0.00                     | <b>\$0.00</b>             |
|          | <b>Labor Subtotal</b>                                                              |                            | <b>\$0.00</b>             |
| <b>G</b> | Fringe Benefits (F Subtotal x 0.42)                                                |                            | <b>\$0.00</b>             |
| <b>H</b> | Employee Paid Time Off {(F+G) x 0.25}<br>(vacation, sick leave, personal holidays) |                            | <b>\$0.00</b>             |
| <b>I</b> | Direct Cost (Sum of A through H)                                                   |                            | <b>\$0.00</b>             |

Estimated market value of test, if known [Cite source(s) below]:

## TIMELINE

| Date            | Activity                                                                                                                                                                                | Due Date                       | Who                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------|
| Jan 21          | Present Test List, Formula and Timeline to SLT                                                                                                                                          |                                | Marie/Steve                                                        |
| Jan 21 - Feb 4  | Directors and supervisors review test list<br>20% of each laboratory Tests to be Costed, Representing 80% of work volume                                                                |                                | Labs                                                               |
|                 | Requests for updates to test list due to Steve Marshall                                                                                                                                 | Feb 4                          | Div<br>Directors                                                   |
| Feb 5           | Review Instructions at Supervisors Cross Cutting Meeting<br><br>(Division Directors, please invite any one else who should be there)<br>Revised Lists of Tests back to Supervisors/Labs | Feb 9                          | Marie/Steve<br>Div<br>Directors<br>Steve                           |
| Feb 5 - March 6 | Work on Direct Costing Worksheets                                                                                                                                                       | March 6                        | Labs                                                               |
| March 6-April 6 | Pricing Work<br>Draft Pricing Proposal to Board of Directors - due to Nathaniel<br>Board Reviews Pricing Proposal<br>Possible Board approval                                            | April 6<br>April 21<br>June 23 | S,D,M Div<br>Director<br>Marie/Steve<br>Dr. Brokopp<br>Dr. Brokopp |
| TBD             | New Fee Schedule                                                                                                                                                                        |                                |                                                                    |



Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 11. OCCUPATIONAL HEALTH LAB 2015 FEE SCHEDULE**

**Description of the Item:**

Dr. Brokopp and Steve Strelbel will present the fee schedule update request for consideration by the Board.

**Suggested Board Action:**

Receive for information and input. Request approval by Board at April meeting or sooner.

# **Wisconsin Occupational Health Laboratory**

## **2015 Fee Schedule Update Request – February 2015**

**Wisconsin State  
Laboratory of  
Hygiene**

**WISCONSIN OCCUPATIONAL HEALTH LABORATORY**

**PACKAGES**

**WOHL**  
2601 Agriculture DR  
Madison, WI 53718

**MAIL**

**WOHL**  
PO Box 7996  
Madison, WI 53707-7996

**TELEPHONE**

**608 224-6210**  
**800 446-0403**

**FAX**

**608 224-6213**

**WEB PAGE**

**www.wohl-lab.org**

## WOHL Sampling Guide

For specific sampling guidelines, please refer to the current Sampling Guide. Please contact the laboratory to have a copy mailed to you or access it on-line at [www.slh.wisc.edu/wohl/guide/index.html](http://www.slh.wisc.edu/wohl/guide/index.html). Many other types of analyses are offered which are not listed in the guide. Please call the laboratory for details and prices. Some of these analyses may require a minimum of 3 samples. If <3 samples are received the client will be billed for 3 samples.

## Accelerated Service Procedure

WOHL offers two accelerated service levels: RUSH or PRIORITY. Requests for RUSH or PRIORITY service must be prearranged before shipment of samples by calling **(800) 446-0403**. *Requests for accelerated service without prearrangement will be handled as accelerated samples, but no guarantees will be made as to length of turnaround time.*

## Levels of Service

**SAME DAY:** This level of service is only available for limited number of analyses. See page 3 for direct microscopic mold prices and call lab for all other analytes to see if same day analysis is available.

**RUSH:** Fee is two times the normal sample price. Samples are analyzed as **prearranged** with the analyst. Normal RUSH turnaround is one to two working days.

**PRIORITY:** Fee is 1.5 times normal sample price. Samples are analyzed as **prearranged** with the analyst. Normal PRIORITY turnaround is two to three working days.

**NORMAL:** Fee is listed price. Turnaround times vary with sample type and quantity. Average turnaround is five to ten working days. Samples are usually analyzed in order of receipt or scheduled for most efficient analysis.

Some analyses may require a minimum number of samples or a negotiated turnaround time for accelerated service.

Results will be reported by telephone fax or email to the person who submitted the sample.

WOHL strives to provide the fastest turnaround possible for all specimens, but some factors affect the availability of accelerated service, including:

- Number of samples--large quantities take longer to finish.
- Type of sample--certain sample types take longer to analyze.
- Number of requests per sample --samples with multiple analyses will take longer.
- Prearrangement--phoning ahead will place an accelerated order on your samples.

## Sample and Data Retention Policy

Our policy is to retain records for the period of time required by our accreditations and by law. Contact the lab to make arrangements for extended storage or transfer. Retention times for samples are as follows:

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Bulk Asbestos | 3 years | Total Weight Filters | 1 year |
|---------------|---------|----------------------|--------|

Air Asbestos Filters  
Other Bulk Samples

3 years  
1 year

Desorbed Air Samples  
Only until results are validated.

Prices may change without notice.

# 1

## Blank Submission Policy

The Wisconsin Occupational Health Laboratory strongly recommends submission of blank sampling media with all types of samples. Formaldehyde by OSHA 52, H<sub>2</sub>S, mercury and ozone specifically require blank correction.

Blanks added by the lab only correct for background levels of analyte on the media as a result of the manufacturing process and will not correct for additional contamination during handling by the client or shipping. Except for solvents the charge for blanks will be the same as for regular samples as they are analyzed identically. Solvent blanks will be \$46 and pesticide blanks will be \$86, regardless of the number of analytes.

## Minimum Number of Sample Requirements

There is no minimum number of samples required for the most common types of analyses. However, for rare and difficult analyses, there is a three sample minimum. Those analyses requiring a three sample minimum are marked with a "+". If <3 samples are received the client will be billed for 3 samples.

## Sampling Media

Sampling media costs are included in the listed price with the following exceptions:

|                              |       |                                       |       |
|------------------------------|-------|---------------------------------------|-------|
| <b>Passive VOC Monitors</b>  | 18.00 | <b>Shielded Cassettes (Wood Dust)</b> | 15.00 |
| <b>OVS-2 and OVS-7 Tubes</b> | 13.00 | <b>Air-O-Cell Cassettes</b>           | 5.00  |
| <b>OVS TENAX Tubes</b>       | 19.00 | <b>Nitrosoamine tube</b>              | 22.00 |
| <b>PPI Impactors</b>         | 27.00 |                                       |       |

Tests that have additional media charges are marked with an "\*".

## Loaner Equipment Available

|                                      |                               |                                       |
|--------------------------------------|-------------------------------|---------------------------------------|
| Air-O-Cell sampling pump accessories | High Volume (10-20 lpm) pumps | Personal sampling pumps & accessories |
| Andersen N6 sampler                  |                               | (uses client-supplied AA batteries)   |
| Field rotometers                     | MSA Dorr-Oliver cyclones      |                                       |
| WallChek sampler                     | (use 2-piece cassettes)       |                                       |

Samplers should be ordered close to day of sampling, used and returned as soon as possible. Customer pays all shipping charges. Overnight shipment recommended.

## Shipping Charges

There is no charge for shipping supplies by regular UPS within the United States. Next day and international shipment charges will be billed to the customer.

## Customer Service

Our customer service team can help you order supplies including sample submission forms, plan sampling strategies and interpret reports. Call us at 800-446-0403. To get the fastest response to your needs, please inform the office staff of the type of assistance you need. They will put you in touch with the staff member who can best meet your needs. You can also email us at the following addresses:

*Lab Director*.....WOHLdirector@mail.slh.wisc.edu  
*Sampling Questions*.....WOHLsampling@mail.slh.wisc.edu  
*Media Order*.....WOHLmedia-order@mail.slh.wisc.edu  
*Customer Service*.....WOHLservice@mail.slh.wisc.edu

## Credit Policy

Full payment is due within 30 days from date of invoice.

Questions about the Credit Policy may be addressed to the Accounts Receivable staff at 608-890-0324.

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Prices may change without notice.

## Bioaerosols

AIHA (EMLAP) Accredited Laboratory # 101070

| Test Description                                                                                                                                                                                                                                                                                                                                                    | Sample Type                                                                                | Fee               |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------|
| Fungal culture; enumeration and identification to genus level. Some fungi, e.g. <i>Aspergillus</i> , <i>Stachybotrys</i> , <i>Epicoccum</i> , <i>Trichoderma</i> , etc. are identified to the species level. Malt extract agar used. May substitute other agars for xerophilic and hydrophilic fungi. Media provided. <sup>e</sup> Samplers available. <sup>g</sup> | Andersen sample<br>Other impaction<br>agar methods                                         | <del>42.00</del>  | 44.00                                                          |
| Fungal culture; enumeration and identification to genus level. Some fungi, e.g. <i>Aspergillus</i> , <i>Stachybotrys</i> , <i>Epicoccum</i> , <i>Trichoderma</i> , etc. are identified to the species level. Malt extract agar used. May substitute other agars for xerophilic and hydrophilic fungi. Wipes and containers available <sup>ag</sup> .                | Bulk solids, liquids or<br>wipes <sup>a</sup>                                              | <del>52.00</del>  | 55.00                                                          |
| Fungal culture; enumeration and identification to genus level. Some fungi, e.g. <i>Aspergillus</i> , <i>Stachybotrys</i> , <i>Epicoccum</i> , <i>Trichoderma</i> , etc. are identified to the species level. Malt extract agar used. May substitute other agars for xerophilic and hydrophilic fungi. Cassettes available upon request. <sup>ag</sup>               | Mixed cellulose ester<br>filter cassette <sup>a</sup>                                      | <del>42.00</del>  | 44.00                                                          |
| Total spore count and identification. Samples collected by Zefon Air-O-Cell or Burkard Spore Trap. Air-O-Cell cassettes and pumps available upon request. <sup>b</sup>                                                                                                                                                                                              | Zefon Air-O-Cell<br>Cassettes <sup>b</sup> , Cyclex-d,<br>Micro 5 or Burkard<br>Spore Trap | <del>34.00*</del> | 36.00<br>WOHL furnished Zefon-Air-O-Cell cassettes \$5.00 each |
| Direct microscopic examination. Identification of spores and fungal elements present.                                                                                                                                                                                                                                                                               | Bulk and wipe samples                                                                      | <del>34.00*</del> | 36.00                                                          |
| Tape samples; identification and semi-quantitation of spores and fungal elements present. Clear tape should be used. Biotapes available. <sup>a</sup>                                                                                                                                                                                                               | Tape samples <sup>a</sup>                                                                  | <del>34.00*</del> | 36.00                                                          |
| Thermoactinomycetes culture; enumeration and identification to species level. Tryptic soy and Nutrient agar used. Media provided. <sup>e</sup> Samplers available.                                                                                                                                                                                                  | Andersen sample<br>Other impaction<br>agar methods                                         | <del>42.00</del>  | 44.00                                                          |

|                                                                                                                                                                |                                            |                  |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------|-------|
| Thermoactinomycetes culture; enumeration and identification to species level. Tryptic soy and Nutrient agar used. Wipes and containers available. <sup>a</sup> | Bulk solids, liquids or wipes <sup>a</sup> | <del>52.00</del> | 55.00 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------|-------|

Prices may change without notice

**3**

| Test Description                                                                                                                                                                                                                                                                            | Sample Type                                                                       | Fee                        |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|------------------------|
| Allergen analysis for Cockroach (Bla g1, Bla g2), Dust Mite (Der p1, Der f1), Mouse (Rat n1) and Mouse (Mus m1). Quantitative Elisa Method.                                                                                                                                                 | Vacuum samples <sup>h,f</sup><br>Air samples<br>(call lab before sampling)        | <del>62.00</del>           | 65.00<br>each allergen |
| Bacterial culture; enumeration and presumptive identification <sup>d</sup> (Gram stain reaction and colony morphology) of three predominant types. Tryptic soy agar used. May substitute blood agar for pathogenic bacteria. Media provided <sup>e</sup> . Samplers available. <sup>g</sup> | Andersen sample<br>Other impaction<br>agar methods                                | <del>42.00</del>           | 44.00                  |
| Bacterial culture; enumeration and presumptive identification <sup>d</sup> (Gram stain reaction and colony morphology) of three predominant types. Samplers available for AGI-30 samples. <sup>g</sup>                                                                                      | AGI-30 samples<br>Rodac plates                                                    | <del>42.00</del>           | 44.00                  |
| Bacterial culture; enumeration and presumptive identification <sup>d</sup> (Gram stain reaction and colony morphology) of three predominant types. Tryptic soy agar used. May substitute blood agar for pathogenic bacteria. Wipes and containers available. <sup>ag</sup>                  | Bulk solids,<br>Liquids or wipes <sup>a</sup>                                     | <del>52.00</del>           | 55.00                  |
| Total coliform and <i>E. coli</i>                                                                                                                                                                                                                                                           | Bulk solids, liquids or wipes <sup>a</sup>                                        | <del>29.00</del>           | 31.00                  |
| Legionella culture, enumeration and identification. CDC method. Sample collection kits available. <sup>c</sup>                                                                                                                                                                              | Liquids or wipes                                                                  | <del>106.00</del>          | 111.00                 |
| Identification of bacterial and fungal isolates from environmental sources using Biolog Carbon utilization microbial identification system. To genus and species                                                                                                                            | Isolates from samples above;<br>pure subcultures                                  | <del>62.00/organism</del>  | 65.00                  |
| Identification of bacterial isolates from environmental sources using conventional CDC methods. To genus and species                                                                                                                                                                        | Isolates from samples<br>above; pure subculture                                   | <del>120.00/organism</del> | 126.00                 |
| Endotoxin analysis by kinetic QCL <i>Limulus</i> amoebocyte lysate (LAL) methodology. <sup>a</sup>                                                                                                                                                                                          | Polycarbonate filter cassettes, <sup>a</sup><br>water or bulk solids <sup>f</sup> | <del>142.00</del>          | 149.00                 |

- <sup>a</sup> Cassettes, wipes, sterile containers and Biotapes for tape preparations are available upon request.
- <sup>b</sup> Zefon Air-O-Cell cassettes are available for \$5.00 each.
- <sup>c</sup> Sample collections kits available upon request.
- <sup>d</sup> Identification to genus and species available for additional charge per organism.
- <sup>e</sup> Customer pays all shipping charges. UPS or Federal Express may be used. Culture media must be sent refrigerated to and from customer by overnight shipment.
- <sup>f</sup> 3 sample minimum.
- <sup>g</sup> Further species identification available for an additional charge.
- <sup>h</sup> Dust collectors are available for \$8.00 each.
- \*Priority, Rush and Same Day analysis available

**4**

*Prices may change without notice.*

### Accelerated Service for Bioaerosol Direct Reading Samples Only Not Applicable for Cultured Samples

|                                 |                         |                   |        |
|---------------------------------|-------------------------|-------------------|--------|
| * <b>RUSH</b> testing available | 24 hour turnaround time | <del>68.00</del>  | 72.00  |
| <b>PRIORITY</b> testing         | 48 hour turnaround time | <del>54.00</del>  | 54.00  |
| <b>SAME DAY</b> testing         |                         | <del>102.00</del> | 110.00 |

## Asbestos Analysis

|                                   |                 |                   |        |
|-----------------------------------|-----------------|-------------------|--------|
| <b>ASBESTOS (Air Fiber Count)</b> | PCM             |                   |        |
| Phase Contrast Microscopy         |                 | <del>19.00</del>  | 20.00  |
| Transmission Electron Microscopy  | TEM             | <del>155.00</del> | 163.00 |
|                                   | .8µ MCE filter  |                   |        |
|                                   | .45µ MCE filter |                   |        |
| <b>ASBESTOS (Bulk)</b>            | PLM             |                   |        |
| Polarized Light Microscopy        |                 | <del>36.00</del>  | 38.00  |
| Floor tile by matrix reduction    |                 | <del>103.00</del> | 108.00 |
| Point counting                    |                 | <del>68.00</del>  | 71.00  |

## Particle Identification

WOHL performs analysis for particle identification using optical, FTIR, SEM & TEM microscopy.

|                                                               |                   |        |
|---------------------------------------------------------------|-------------------|--------|
| Confirmation of the presence or absence of a single component | <del>155.00</del> | 163.00 |
| Complete characterization of a sample                         | <del>340.00</del> | 325.00 |

## Environmental Lead

ELLAP Accredited through AIHA Laboratory # 101070

|                                            |                  |       |
|--------------------------------------------|------------------|-------|
| Lead in soil, paint chips or surface wipes | <del>25.00</del> | 26.00 |
| Lead in air                                | <del>32.00</del> | 34.00 |

## Industrial Hygiene Analysis

AIHA IHLAP Accredited Laboratory # 101070

Most of the Industrial Hygiene analyses available through WOHL are listed in alphabetical order beginning below.

**This list is not all-inclusive.** Please call the lab at 800-446-0403 if you can't find an analysis you need.

### Solvents (VOC's)

Compounds referred to as solvents or volatile organic compounds (VOC's) which are sampled on charcoal tubes are priced as follows: Individual compounds are \$48 each. Additional compatible compounds, collected on the same charcoal tube, are \$22 each. A scan

for identification and quantitation of all regulated compounds collected on a single charcoal tube is \$190.  
 A non-specific analysis for total VOC's is \$48 per sample

### Metals

A variety of metals can be collected on the same filter; however, some need to be collected separately due to solubility differences. Please call the lab if you have questions about which metals can be collected together. Pricing for ICP analysis is as follows: The first metal on a filter is \$34. Each additional metal on the same filter is \$13. Performing a weight analysis on a metal sample that has been collected on a pre-weighed filter is \$10. Scan prices are available as follows: 6-8 metals = \$83, 9-14 metals = \$119, >15 metals = \$167. There is a prep charge of \$5 for wipes and \$10 for bulks. Pricing for Atomic absorption analysis and special metals such as mercury can be found in the alphabetical listing.

### Crystalline Silica

The price for respirable or total airborne silica by Xray diffraction is \$71 for quartz, \$83 for quartz & cristobalite and \$94 for quartz, cristobalite and tridymite. The analysis includes a gravimetric analysis for weight. A prep charge of \$25 applies to bulk samples.

Prices may change without notice.

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## Method Table

Use the following table to determine the instrument used for the analysis.

|                 |                                    |               |                                  |
|-----------------|------------------------------------|---------------|----------------------------------|
| <b>Culture</b>  | Culture Microbiological Analysis   | <b>ISE</b>    | Ion Selective Electrode          |
| <b>CVAA</b>     | Cold Vapor Atomic Absorption       | <b>LC</b>     | Liquid Chromatography            |
| <b>ECOC</b>     | Elemental/Organic Carbon Analyzer  | <b>PCM</b>    | Phase Contrast Microscopy        |
| <b>Flame AA</b> | Flame Atomic Absorption            | <b>PLM</b>    | Polarized Light Microscopy       |
| <b>GC</b>       | Gas Chromatography                 | <b>SEM</b>    | Scanning Electron Microscopy     |
| <b>GF AA</b>    | Graphite Furnace Atomic Absorption | <b>TEM</b>    | Transmission Electron Microscopy |
| <b>IC</b>       | Ion Chromatography                 | <b>UV-VIS</b> | UV-Visible Spectroscopy          |
| <b>ICP</b>      | Inductively Coupled Plasma         | <b>XRD</b>    | X-Ray Diffraction                |

| Analyte                                                                     | Method | Media                            | Fee               |        |
|-----------------------------------------------------------------------------|--------|----------------------------------|-------------------|--------|
| <b>ACETIC ACID (See Acids)</b>                                              |        |                                  |                   |        |
| <b>ACETIC ANHYDRIDE</b>                                                     | GC     | VA filters                       | <del>113.00</del> | 125.00 |
| <b>ACETONE (See Solvents)</b>                                               | GC     | ORBO 91 tube<br>or charcoal tube | <del>46.00</del>  | 48.00  |
| <b>ACETONITRILE</b>                                                         | GC     | Charcoal tube                    | <del>68.00</del>  | 71.00  |
| <b>ACIDS</b>                                                                | IC     | Washed silica gel tube           |                   |        |
| Fluoride, chloride, nitrite, nitrate<br>phosphate, sulfate, bromide, iodide |        |                                  |                   |        |
| First anion                                                                 |        |                                  | <del>47.00</del>  | 50.00  |
| Each additional                                                             |        |                                  | <del>22.00</del>  | 23.00  |
| Fluoride, chloride, acetate, formate                                        |        |                                  |                   |        |
| First anion                                                                 |        |                                  | <del>47.00</del>  | 50.00  |
| Each additional                                                             |        |                                  | <del>22.00</del>  | 23.00  |
| Propionic, butyric, citric                                                  |        |                                  |                   |        |
| First anion                                                                 |        |                                  | <del>102.00</del> | 108.00 |
| Each additional                                                             |        |                                  | <del>30.00</del>  | 32.00  |



|                                                                                    |  |  |                     |        |
|------------------------------------------------------------------------------------|--|--|---------------------|--------|
| Acid Mist Scan I (fluoride, chloride, nitrate, phosphate, sulfate)                 |  |  | <del>103.00</del>   | 108.00 |
| Acid Mist Scan IV (fluoride, chloride, formic, acetic, propionic, butyric, citric) |  |  | <del>181.00</del>   | 190.00 |
| Bulk sample preparation                                                            |  |  | add 52.00           | 55.00  |
| Azides, hydrozoic acid                                                             |  |  | <del>103.00</del> + | 108.00 |

|                                |    |                                                    |                    |       |
|--------------------------------|----|----------------------------------------------------|--------------------|-------|
| <b>ACRYLAMIDE</b>              | GC | OVS-7 tube*                                        | <del>74.00</del>   | 81.00 |
| <b>ACRYLIC ACID</b>            | LC | 2 Chromosorb 108 tubes                             | <del>79.00</del> + | 83.00 |
| <b>ACRYLONITRILE</b>           | GC | Charcoal tube                                      | <del>68.00</del>   | 71.00 |
| <b>ALCOHOLS (See Solvents)</b> | GC | Silica gel tube, charcoal tube or Anasorb 747 tube | <del>46.00</del>   | 48.00 |

**6** \* = Media Charge + = 3 Sample Minimum

*Prices may change without notice*

| <b>Analyte</b> | <b>Method</b> | <b>Media</b> | <b>Fee</b> |  |
|----------------|---------------|--------------|------------|--|
|----------------|---------------|--------------|------------|--|

|                                                                                                                                                                                                                                                 |                            |                                                  |                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------|--------|
| <b>ALDEHYDES</b>                                                                                                                                                                                                                                | LC                         | DNPH cartridge                                   |                     |        |
| Formaldehyde, acetaldehyde, acrolein, propionaldehyde, butyraldehyde, crotonaldehyde                                                                                                                                                            |                            |                                                  |                     |        |
| First aldehyde                                                                                                                                                                                                                                  |                            |                                                  | <del>91.00</del>    | 95.00  |
| Each additional                                                                                                                                                                                                                                 |                            |                                                  | <del>45.00</del>    | 47.00  |
| TO-11 Scan                                                                                                                                                                                                                                      |                            |                                                  | <del>285.00</del>   | 295.00 |
| Acetaldehyde, acetone, acrolein, benzaldehyde, butyraldehyde, crotonaldehyde, 2, 5-dimethylbenzaldehyde, formaldehyde, hexanaldehyde, isovaleraldehyde, methyl ethyl ketone, propionaldehyde, m & p-tolualdehyde, o-tolualdehyde, valeraldehyde |                            |                                                  |                     |        |
| <b>ALDEHYDES-OSHA 52</b>                                                                                                                                                                                                                        | GC                         | HMP treated XAD tube                             |                     |        |
| Acrolein, acetaldehyde, formaldehyde                                                                                                                                                                                                            |                            |                                                  |                     |        |
| First aldehyde                                                                                                                                                                                                                                  |                            |                                                  | <del>60.00</del>    | 63.00  |
| Each additional                                                                                                                                                                                                                                 |                            |                                                  | <del>22.00</del>    | 23.00  |
| <b>ALKALINE DUST BY TITRATION</b>                                                                                                                                                                                                               | Titration                  | Teflon filter                                    | <del>103.00</del> + | 108.00 |
| <b>ALLERGENS</b>                                                                                                                                                                                                                                |                            |                                                  | <del>62.00</del> +  | 65.00  |
| Cockroach (Bla g1, Bla g2)                                                                                                                                                                                                                      | Dust Mite (Der p1, Der f1) |                                                  | each                |        |
| Mouse (Mus m1)                                                                                                                                                                                                                                  | Rat (Rat n1)               | Call for media                                   | allergen            |        |
| <b>AMINES</b>                                                                                                                                                                                                                                   | IC                         | H <sub>3</sub> PO <sub>4</sub> coated XAD-7 tube |                     |        |
| Ethanolamines (ethanolamine, diethanolamine, triethanolamine)                                                                                                                                                                                   |                            |                                                  | <del>103.00</del> + | 108.00 |
| Each additional                                                                                                                                                                                                                                 |                            |                                                  | <del>30.00</del>    | 32.00  |
| Low Molecular Weight Aliphatic Amines (methylamine, trimethylamine, ethylamine, diethylamine, dimethylethylamine, triethylamine)                                                                                                                |                            |                                                  |                     |        |
| First amine                                                                                                                                                                                                                                     |                            |                                                  | <del>103.00</del> + | 108.00 |
| Each additional                                                                                                                                                                                                                                 |                            |                                                  | <del>30.00</del>    | 32.00  |

|                                                                                                                     |    |                                                  |         |        |
|---------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------|---------|--------|
| <b>AMINE SCANS</b>                                                                                                  | IC | H <sub>3</sub> PO <sub>4</sub> coated XAD-7 tube |         |        |
| Ethanolamines<br>(mono, di & triethanolamine)                                                                       |    |                                                  | 130.00+ | 108.00 |
| Low Molecular Weight Aliphatic<br>Amines                                                                            |    |                                                  | 206.00+ | 210.00 |
| <b>AMINES</b>                                                                                                       | GC | H <sub>3</sub> PO <sub>4</sub> coated XAD-7 tube |         |        |
| Diethylaminoethanol,<br>dimethylaminoethanol, cyclohexylamine,<br>morpholine, methylmorpholine,<br>diisopropylamine |    |                                                  |         |        |
| Each amine                                                                                                          |    |                                                  | 115.00+ | 125.00 |

Prices may change without notice.

\* = Media Charge    + = 3 Sample Minimum    **7**

| <b>Analyte</b>                                                                                   | <b>Method</b> | <b>Media</b>       | <b>Fee</b>     |        |
|--------------------------------------------------------------------------------------------------|---------------|--------------------|----------------|--------|
| <b>AMINES</b>                                                                                    | LC            | NITC tubes         |                |        |
| Diethanolamine, diethylene triamine,<br>ethanolamine, ethylene diamine,<br>triethylene tetramine |               |                    |                |        |
| Each amine                                                                                       |               |                    | 103.00+        | 108.00 |
| <b>AMINES (other)</b>                                                                            | GC or LC      | Call for media     | Call for price |        |
| <b>AMMONIA</b>                                                                                   | IC            | Treated tube       | 51.00          | 54.00  |
| <b>ARSINE</b>                                                                                    | GFAA          | Charcoal tube      | 45.00+         | 47.00  |
| <b>ASBESTOS (Air Fiber Count)</b>                                                                |               |                    |                |        |
| Phase Contrast Microscopy                                                                        | PCM           | .8μ MCE filter     | 19.00          | 28.00  |
| Transmission Electron Microscopy                                                                 | TEM           | .45μ MCE filter    | 155.00         | 163.00 |
| <b>ASBESTOS (Bulk)</b>                                                                           | PLM           |                    |                |        |
| Polarized Light Microscopy                                                                       |               |                    | 36.00          | 38.00  |
| Floor tile by matrix reduction                                                                   |               |                    | 103.00         | 108.00 |
| Point counting                                                                                   |               |                    | 68.00          | 71.00  |
| <b>ASBESTOS (water)</b>                                                                          | TEM           |                    | 136.00         | 143.00 |
| <b>ASPHALT FUMES)</b><br>(as benzene solubles)                                                   | Gravimetric   | Glass fiber filter | 68.00+         | 71.00  |
| <b>AZIDES, HYDROZOIC ACID</b>                                                                    | IC            | Special tube       | 103.00+        | 108.00 |
| <b>BACTERIA</b>                                                                                  | Culture       | Media plate        | 42.00          | 44.00  |

|                                                                             |     |                     |                   |        |
|-----------------------------------------------------------------------------|-----|---------------------|-------------------|--------|
|                                                                             |     | Bulk, wipe          | <del>52.00</del>  | 55.00  |
| <b>BENZOPHENONE</b>                                                         | GC  | Chromosorb 106 tube | <del>74.00</del>  | 78.00  |
| <b>BENZOYL PEROXIDE</b>                                                     | LC  | Teflon filter       | <del>79.00+</del> | 83.00  |
| <b>BISPHENOL A</b>                                                          | LC  | Glass fiber filter  | <del>79.00+</del> | 83.00  |
| <b>BORON TRIFLUORIDE</b>                                                    | ISE | Impinger            | <del>82.00+</del> | 86.00  |
| <b>BROMINE</b>                                                              | IC  | Ag filter           | <del>68.00</del>  | 71.00  |
| <b>BTEX (benzene, toluene, ethyl benzene<br/>&amp; xylene) See Solvents</b> | GC  | Charcoal tube       | <del>109.00</del> | 114.00 |

**8** \* = Media Charge + = 3 Sample Minimum

*Prices may change without notice.*

| <b>Analyte</b>                                | <b>Method</b> | <b>Media</b>                 | <b>Fee</b>         |        |
|-----------------------------------------------|---------------|------------------------------|--------------------|--------|
| <b>BUTADIENE</b>                              | GC            | TBC charcoal tube            | <del>68.00</del>   | 71.00  |
| <b>BUTOXYETHANOL(2-)</b>                      | GC            | Charcoal tube                | <del>46.00</del>   | 48.00  |
| <b>CAPROLACTAM</b>                            | LC            |                              |                    |        |
| dust and vapor combined                       |               | OVS-7 tube*                  | <del>79.00+</del>  | 83.00  |
| dust and vapor separately                     |               | OVS-7 tube*                  | <del>158.00+</del> | 166.00 |
| <b>CARBON BLACK<br/>(OSHA THF extraction)</b> | Gravimetric   | 5 µ PVC filter               | <del>68.00</del>   | 71.00  |
| <b>CARBON DIOXIDE</b>                         | GC            | Mini-can or Foil bag*        | <del>75.00</del>   | 79.00  |
| <b>CARBON MONOXIDE</b>                        | GC            | Mini-can or Foil bag*        | <del>75.00</del>   | 79.00  |
| <b>o-CHLOROBENZYLIDENE<br/>MALONITRILE</b>    | LC            | Teflon filter and tenax tube | <del>102.00+</del> | 107.00 |
| <b>CHLORINE</b>                               | IC            | Ag filter                    | <del>68.00</del>   | 71.00  |
| <b>CHLORINE DIOXIDE</b>                       | IC            | Special impinger solution    | <del>68.00+</del>  | 71.00  |
| <b>COAL TAR PITCH VOLATILES</b>               | Gravimetric   | Glass fiber filter           | <del>68.00+</del>  | 71.00  |
| <b>COATINGS (EPA method 24 or 24A)</b>        | GC            | Double seal can              | <del>275.00</del>  | 290.00 |
| <b>CRESOL</b>                                 | LC            | XAD-7 tube                   | <del>82.00</del>   | 86.00  |
| <b>CRISTOBALITE (See Silica)</b>              | XRD           | PVC filter                   |                    |        |
| <b>CYANIDE/HYDROGEN CYANIDE</b>               | IC or UV-VIS  | Soda lime tube               | <del>82.00+</del>  | 86.00  |

|                                          |                |                                  |                    |                  |
|------------------------------------------|----------------|----------------------------------|--------------------|------------------|
| <b>DIACETYL</b>                          | GC             | 2 silica gel tubes               | <del>74.00</del>   | 78.00            |
| <del><b>DIBORANE</b></del>               | <del>ICP</del> | <del>Treated charcoal tube</del> | <del>45.00+</del>  | <del>47.00</del> |
| <b>DIESEL EXHAUST (Elemental Carbon)</b> | ECOC           | Quartz filter                    | <del>60.00</del>   | 63.00            |
|                                          |                | SKC impactor (double filter)     | <del>91.00</del>   | 95.00            |
| <b>DUST (Respirable or Total)</b>        | GRAV           | 5 $\mu$ PVC filter               | <del>19.00</del>   | 25.00            |
| <b>ELEMENTAL CARBON</b>                  | ECOC           | Quartz filter                    | <del>60.00</del>   | 63.00            |
|                                          |                | SKC impactor (double filter)     | <del>91.00</del>   | 95.00            |
| <b>ENDOTOXIN</b>                         |                | Polycarbonate filter or bulk     | <del>142.00+</del> | 149.00           |

Prices may change without notice.

\* = Media Charge + = 3 Sample Minimum **9**

| <b>Analyte</b>                                                                                               | <b>Method</b> | <b>Media</b>                                      | <b>Fee</b>         |        |
|--------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------|--------------------|--------|
| <b>ETHYLCYANOACRYLATE</b>                                                                                    | LC            | H <sub>3</sub> PO <sub>4</sub> treated XAD 7 tube | <del>102.00+</del> | 107.00 |
| <b>ETHYLENE GLYCOL</b>                                                                                       | GC            | OVS-7 tube*                                       | <del>72.00</del>   | 76.00  |
| <b>ETHYLENE OXIDE</b>                                                                                        | GC            | HBr tube                                          | <del>118.00+</del> | 130.00 |
| <b>FIBERGLASS</b>                                                                                            | PCM           | 0.8 MCE filter                                    | <del>19.00</del>   | 28.00  |
| <b>FLUORIDE/HYDROGEN FLUORIDE</b>                                                                            | ISE           | Special filters                                   | <del>124.00+</del> | 130.00 |
| <b>FORMALDEHYDE</b>                                                                                          | GC            | HMP treated XAD-2 tube                            | <del>60.00</del>   | 63.00  |
|                                                                                                              | LC            | DNPH Sep-Pack                                     | <del>91.00</del>   | 95.00  |
| <b>GASES</b>                                                                                                 | GC            | Mini-can or Foil bag*                             | <del>75.00</del>   | 79.00  |
| Carbon dioxide, carbon monoxide,<br>nitrous oxide, methane, propane, oxygen<br>Call lab for gases not listed |               |                                                   |                    |        |
| <b>GLUTERALDEHYDE</b>                                                                                        | LC            | DNPH coated glass fiber filter                    | <del>91.00</del>   | 95.00  |
| <b>GLYCOL ETHERS (See Solvents)</b>                                                                          |               |                                                   |                    |        |
| <b>HALOTHANE</b>                                                                                             | GC            | Anasorb 747 tube                                  | <del>46.00</del>   | 48.00  |
| <b>HEXAVALENT CHROMIUM</b>                                                                                   | IC            | PVC filter                                        | <del>68.00</del>   | 71.00  |
| Additional charge for analysis<br>on paint-related samples                                                   |               |                                                   |                    |        |
|                                                                                                              |               |                                                   | <del>34.00</del>   | 36.00  |

|                                    |        |                                                  |         |        |
|------------------------------------|--------|--------------------------------------------------|---------|--------|
| <b>HYDROCARBONS (See Solvents)</b> | GC     | Charcoal tube                                    |         |        |
| <b>HYDROGEN PEROXIDE</b>           | UV-VIS | Impinger                                         | 52.00+  | 55.00  |
| <b>HYDROGEN SULFIDE</b>            | IC     | H <sub>2</sub> S tube                            | 68.00+  | 71.00  |
| <b>HYDROQUINONE</b>                | LC     | H <sub>3</sub> PO <sub>4</sub> coated XAD-7 tube | 82.00+  | 86.00  |
| <b>HYDROZOIC ACID, AZIDES</b>      | IC     | Special tube                                     | 103.00+ | 108.00 |
| <b>IODINE</b>                      | ISE    | Treated charcoal tube                            | 82.00+  | 86.00  |

**10** \* = Media Charge + = 3 Sample Minimum

Prices may change without notice.

| <b>Analyte</b>                                                                                                                                                    | <b>Method</b> | <b>Media</b>                   | <b>Fee</b> |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------|------------|--------|
| <b>ISOCYANATES</b><br>HDI; MDI; PAPI; IDI; 2,4TDI;<br>2,6TDI, desmodur N: desmodur W<br>(MDI and desmodur N should be sampled separately on a special MDI filter) | LC            | Treated glass fiber filter     |            |        |
| First isocyanate                                                                                                                                                  |               |                                | 91.00      | 95.00  |
| Each additional                                                                                                                                                   |               |                                | 45.00      | 47.00  |
| Scan                                                                                                                                                              |               |                                | 181.00     | 190.00 |
| <b>ISOFLURANE</b>                                                                                                                                                 | GC            | Anasorb 747 tube               | 46.00      | 48.00  |
| <b>LEAD (Paint, soil or wipe)</b>                                                                                                                                 | ICP           |                                | 25.00      | 26.00  |
| <b>LEGIONELLA (water &amp; wipes)</b>                                                                                                                             | Culture       | Legionella kit                 | 106.00     | 111.00 |
| <b>MALEIC ANHYDRIDE</b>                                                                                                                                           | LC            | Call for sampling instructions | 113.00+    | 119.00 |
| <b>MEK (2-butanone) (See Solvents)</b>                                                                                                                            | GC            | Charcoal tube or ORBO 91 tube  | 46.00      | 48.00  |
| <b>MEK PEROXIDE</b>                                                                                                                                               | UV-VIS        | Impinger or XAD-4 tube         | 91.00+     | 95.00  |
| <b>MERCURY</b>                                                                                                                                                    | CVAA          | Tube or filter                 | 45.00+     | 47.00  |
|                                                                                                                                                                   |               | Bulk or wipe                   | 56.00+     | 59.00  |
| <b>METALS (except Lead)</b>                                                                                                                                       |               |                                |            |        |
| Wipe Prep Charge                                                                                                                                                  |               |                                | 5.00       |        |
| Bulk Prep Charge                                                                                                                                                  |               |                                | 10.00      |        |

### Routine Elements and Compounds by ICP

Any combination of the following metals may be included in a multi-component analysis: Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Sn, Sr, Ti, V, and Zn. Certain compounds which contain the above metals may also be included in the scan, such as metal oxides. Please note that compounds cannot be determined specifically. The metal content is determined and a conversion factor is applied. The ICP

determines metal content, which may or may not include all compounds of that metal. It is advised that if you are interested in a compound not listed above, you should call the lab to determine the best sampling strategy. Acceptable media include MCE and PVC filters, wipes and bulks.

|                               |        |        |
|-------------------------------|--------|--------|
| First component               | 32.00  | 34.00  |
| Plus weight on pvc filter     | 10.00  | 15.00  |
| Each additional component     | 12.00  | 13.00  |
| Scan of 6 to 8 components     | 79.00  | 83.00  |
| Scan of 9 to 14 components    | 113.00 | 119.00 |
| Scan of 15 or more components | 159.00 | 167.00 |

Prices may change without notice.

\* = Media Charge    + = 3 Sample Minimum    **11**

| Analyte | Method | Media | Fee |
|---------|--------|-------|-----|
|---------|--------|-------|-----|

**METALS (Continued)**

**Non-Routine Elements and Compounds by ICP**

*Please call the laboratory to discuss appropriate sampling techniques & compatibilities for metals not listed in "Routine Elements" above.*

|                           |                  |       |
|---------------------------|------------------|-------|
| First component           | 39.00+           | 41.00 |
| Each additional           | 23.00            | 24.00 |
| Plus weight on pvc filter | Additional 10.00 | 15.00 |

**Flame Atomic Absorption**

|                                                   |          |                                                                  |                 |                |
|---------------------------------------------------|----------|------------------------------------------------------------------|-----------------|----------------|
| Na, K, NaOH, KOH,<br>Na Polyacrylate by Cs method | Flame AA | Special clear band filter for Na, K<br>Special low sodium filter | 34.00+<br>37.00 | 36.00<br>39.00 |
|---------------------------------------------------|----------|------------------------------------------------------------------|-----------------|----------------|

**Special ICP analysis**

|                                              |                  |                  |
|----------------------------------------------|------------------|------------------|
| <del>—Eu with previous sodium analysis</del> | <del>40.00</del> | <del>42.00</del> |
| <del>—Eu only</del>                          | <del>68.00</del> | <del>71.00</del> |

|                                  |                           |                                                   |                |                |
|----------------------------------|---------------------------|---------------------------------------------------|----------------|----------------|
| <b>METAL WORKING FLUIDS</b>      | Gravimetric<br>Extraction | Preweighed teflon filter                          | 19.00<br>68.00 | 25.00<br>71.00 |
| <b>METHACRYLIC ACID</b>          | LC                        | 2 226-30-08 tubes                                 | 79.00+         | 83.00          |
| <b>METHANE</b>                   | GC                        | Mini-can or Tedlar bag*                           | 75.00          | 79.00          |
| <b>METHYL CYANOACRYLATE</b>      | LC                        | H <sub>3</sub> PO <sub>4</sub> treated XAD-7 tube | 103.00+        | 108.00         |
| <b>METHYL PYRROLIDINONE (N-)</b> | GC                        | Charcoal tube                                     | 46.00          | 48.00          |

|                                                  |            |                            |                            |
|--------------------------------------------------|------------|----------------------------|----------------------------|
| <b>METHYLENE-BIS-<br/>2-CHLOROANILINE (MOCA)</b> | GC         | Treated glass fiber filter | <del>118.00</del> + 130.00 |
| <b>METHYLENE DIANILINE (MDA)</b>                 | GC         | Treated glass fiber filter | <del>118.00</del> + 130.00 |
| <b>MICROSCOPIC ID</b>                            | Microscopy | Bulk, wipe or filter       |                            |
| Complete analysis                                |            |                            | <del>310.00</del> 325.00   |
| Single component                                 |            |                            | <del>155.00</del> 165.00   |

**12** \* = Media Charge + = 3 Sample Minimum

*Prices may change without notice.*

| <b>Analyte</b>                             | <b>Method</b>     | <b>Media</b>                     | <b>Fee</b>                        |
|--------------------------------------------|-------------------|----------------------------------|-----------------------------------|
| <b>MINICAN</b>                             |                   |                                  |                                   |
| VOC Scan                                   | GC/MS             | Mini-can                         | <del>250.00</del> 275.00          |
| Sulfur/Mercaptan Scan                      | GC/MS             | Mini-can                         | <del>250.00</del> —275.00         |
| <b>MOLDS AND SPORES</b>                    | Culture           | MCE filter or agar plate         | <del>42.00</del> 44.00            |
|                                            |                   | Bulk or wipe                     | <del>52.00</del> 55.00            |
|                                            | Total Spore Count |                                  |                                   |
|                                            |                   | Air-O-Cell cassette*             | <del>34.00</del> 36.00            |
|                                            |                   | Other spore traps                | <del>34.00</del> 36.00            |
| <b>NAPHTHALENE</b>                         | GC                | Chromosorb 106 tube              | <del>46.00</del> 48.00            |
| <b>NICOTINE</b>                            | GC                | XAD-4 tube                       | <del>75.00</del> + 79.00          |
| <b>NITRIC OXIDE</b>                        | IC                | TEA-treated molecular sieve      | <del>47.00</del> 49.00            |
| <b>NITROGEN DIOXIDE</b>                    | IC                | TEA-treated molecular sieve      | <del>47.00</del> 49.00            |
| <b>NITROSAMINE SCAN</b>                    | LC-MS             | Thermosorb N                     | <del>335.00</del> + 350.00        |
| <b>NITROUS OXIDE</b>                       | GC                | Mini-can or Foil bag*            | <del>75.00</del> 79.00            |
| <b>OIL MIST (See metal working fluids)</b> |                   |                                  |                                   |
| <del><b>OXYGEN</b></del>                   | <del>GC</del>     | <del>Mini can or Foil bag*</del> | <del>75.00</del> <del>79.00</del> |
| <b>OZONE</b>                               | IC                | Special filter                   | <del>68.00</del> 71.00            |

|                                                                     |            |                                          |                    |        |
|---------------------------------------------------------------------|------------|------------------------------------------|--------------------|--------|
| <b>PARAFFIN WAX FUMES</b>                                           | GC         | Glass fiber filter                       | 74.00+             | 78.00  |
| <b>PARTICLE IDENTIFICATION<br/>OR SIZING (microscopic analysis)</b> | Microscopy |                                          |                    |        |
| Complete characterization                                           |            |                                          | 310.00             | 325.00 |
| Single compound                                                     |            |                                          | <del>155.00</del>  | 165.00 |
| Particle sizing                                                     |            |                                          | 155.00             | 165.00 |
| <b>PCBs</b>                                                         | GC         | OVS-2 tube* or wipe                      |                    |        |
| PCB Scan                                                            |            |                                          | 95.00+             | 125.00 |
| PCB wipe surcharge                                                  |            |                                          | 10.00              |        |
| <b>PENTAMIDINE</b>                                                  | LC         | PVC filter                               | <del>103.00+</del> | 108.00 |
| <b>PENTACHLOROPHENOL</b>                                            | LC         | Special XAD-7 tube train<br>(SKC 226-97) | <del>103.00+</del> | 108.00 |

Prices may change without notice.

= Media Charge + = 3 Sample Minimum **13**

| <b>Analyte</b>                                                                                                                                                     | <b>Method</b> | <b>Media</b>                             | <b>Fee</b>         |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|--------------------|--------|
| <b>PESTICIDES BY GC</b>                                                                                                                                            | GC            | OVS-2 tube*, wipe or bulk                |                    |        |
| Single pesticide (see website for full list)                                                                                                                       |               |                                          | <del>86.00+</del>  | 96.00  |
| Additional                                                                                                                                                         |               |                                          | <del>50.00</del>   | 55.00  |
| Pesticide scan (entire list below) ( <b>call lab for other scans</b> )                                                                                             |               |                                          | <del>310.00+</del> | 350.00 |
| <b>Organophosphate pesticides:</b> Chlorpyrifos, Diazinon,<br>Malathion, Parathion, Dichlorvos                                                                     |               |                                          |                    |        |
| <b>Chlorinated pesticides:</b> Heptachlor, Aldrin, Dieldrin, DDT, Endrin                                                                                           |               |                                          |                    |        |
| Partial Scan - Chlorinated only or Organophosphates only                                                                                                           |               |                                          | <del>195.00+</del> | 225.00 |
| Wipes & Bulks surcharge                                                                                                                                            |               |                                          | 10.00              |        |
| Blanks                                                                                                                                                             |               |                                          | <del>86.00</del>   | 90.00  |
| <b>PESTICIDES BY LC</b>                                                                                                                                            | LC            | Glass fiber filter or OVS-2 tube*        | <del>102.00+</del> | 107.00 |
| <b>PHENOL/CRESOL</b>                                                                                                                                               |               |                                          |                    |        |
| First compound                                                                                                                                                     | LC            | XAD-7 tube                               | <del>82.00</del>   | 86.00  |
| Second compound                                                                                                                                                    |               |                                          | <del>26.00</del>   | 27.00  |
| <b>PHENOLS (OTHER)</b>                                                                                                                                             |               |                                          |                    |        |
| dichlorophenol, dinitrophenol, dimethyl phenol,<br>4-nitrophenol, 4 chloro-3-methyl phenol, 4-t amyl phenol,<br>pentachlorophenol, trichlorophenol, phenol, cresol |               |                                          |                    |        |
| First compound                                                                                                                                                     | LC            | Special XAD-7 tube train<br>(SKC 226-97) | <del>100.00+</del> | 105.00 |
| Each additional                                                                                                                                                    |               |                                          | <del>25.00+</del>  | 26.00  |
| <b>PHENOLS SCAN 5</b>                                                                                                                                              |               |                                          | <del>155.00+</del> | 163.00 |
| Client selects 5 from above list of 10 phenols                                                                                                                     |               |                                          |                    |        |
| <b>PHENOLS SCAN 10</b>                                                                                                                                             |               |                                          | <del>272.00+</del> | 286.00 |
| Includes all of above list                                                                                                                                         |               |                                          |                    |        |



|                                                             |    |                                     |                            |
|-------------------------------------------------------------|----|-------------------------------------|----------------------------|
| <b>PHOSGENE</b>                                             | GC | HMP treated XAD-2 tube              | <del>105.00</del> + 110.00 |
| <b>PHTHALATES</b>                                           | GC | OVS Tenax tube*                     |                            |
| First or specific phthalate                                 |    |                                     | <del>79.00</del> + 83.00   |
| Each additional                                             |    |                                     | <del>38.00</del> 40.00     |
| Phthalate Scan (5 total)                                    |    |                                     | <del>187.00</del> 196.00   |
| <b>PHTHALIC ANHYDRIDE</b>                                   | LC | Veratrylamine filter                | <del>113.00</del> + 119.00 |
| <b>POLYNUCLEAR AROMATIC<br/>HYDROCARBONS (PAHs or PNAs)</b> | LC | Glass fiber filter or<br>OVS2 tube* |                            |
| Single PAH                                                  |    |                                     | <del>103.00</del> 108.00   |
| Each additional                                             |    |                                     | <del>31.00</del> 33.00     |
| OSHA 58 (5 PAHs)                                            |    |                                     | <del>187.00</del> 196.00   |
| (11 PAHs)                                                   |    |                                     | <del>250.00</del> 262.00   |
| <b>PROPANE</b>                                              | GC | Mini-can or Foil bag*               | <del>75.00</del> 79.00     |

**14** \* = Media Charge + = 3 Sample Minimum

*Prices may change without notice*

| <b>Analyte</b>                                        | <b>Method</b> | <b>Media</b>                                              | <b>Fee</b>               |
|-------------------------------------------------------|---------------|-----------------------------------------------------------|--------------------------|
| <b>RADON</b>                                          |               | Charcoal canister                                         | <del>26.00</del> 27.00   |
| <b>RIBAVIRIN</b>                                      | LC            | Glass fiber filter                                        | <del>79.00</del> + 83.00 |
| <b>RESCORCINOL</b>                                    | GC            | XAD-7 tube                                                | <del>74.00</del> + 78.00 |
| <b>SILICA - AIR</b>                                   | XRD           | PVC filter, PPI*                                          |                          |
| Quartz, cristobalite, tridymite (includes weight)     |               |                                                           |                          |
| First compound                                        |               |                                                           | <del>68.00</del> 71.00   |
| Quartz and cristobalite                               |               |                                                           | <del>79.00</del> 83.00   |
| Quartz, cristobalite and tridymite                    |               |                                                           | <del>90.00</del> 94.00   |
| <b>SILICA - BULK</b>                                  |               |                                                           |                          |
| Quartz, cristobalite, tridymite                       |               |                                                           |                          |
| First compound                                        |               |                                                           | <del>91.00</del> 96.00   |
| Each additional                                       |               |                                                           | <del>11.00</del> 12.00   |
| <b>SOLVENTS</b>                                       | GC            | Charcoal tube, silica gel tube,<br>ORBO 91 tube or badge* |                          |
| First substance per tube                              |               |                                                           | <del>46.00</del> 48.00   |
| Each additional substance per tube                    |               |                                                           | <del>21.00</del> 22.00   |
| Solvent Scan (call for details or see Sampling Guide) |               |                                                           | <del>180.00</del> 190.00 |
| Blanks                                                |               |                                                           | <del>46.00</del> 48.00   |
| Total VOCs as toluene or hexane                       |               |                                                           | <del>46.00</del> 48.00   |
| Minican VOC scan (call for details)                   | GC/MS         | Mini-can                                                  | <del>250.00</del> 275.00 |

**SODIUM POLYACRYLATE (See Metals Flame AA)**

|                                  |                   |                                |       |
|----------------------------------|-------------------|--------------------------------|-------|
| <b>SPORES AND FUNGI</b><br>46.00 | Culture           | MCE filter, agar plate         | 42.00 |
| 55.00                            |                   | Bulk ,wipe                     | 52.00 |
|                                  | Total Spore Count |                                |       |
| 36.00                            |                   | Air-O-Cell cassette*           | 34.00 |
| 36.00                            |                   | Other spore traps              | 34.00 |
| <b>SULFUR DIOXIDE</b><br>49.00   | IC                | SO <sub>2</sub> tube or filter | 47.00 |

*Prices may change without notice.*

\* = Media Charge + = 3 Sample Minimum

**15**

| <b>Analyte</b>                                    | <b>Method</b> | <b>Media</b>   | <b>Fee</b> |
|---------------------------------------------------|---------------|----------------|------------|
| <b>TOTAL or RESPIRABLE DUST</b><br>25.00          | Gravimetric   | 5µ PVC filter  | 19.00      |
| <b>TRIGLYCIDYL ISOCYANURATE</b><br>118.00+ 130.00 | GC            | Treated filter |            |
| <b>TRIMELLETIC ANHYDRIDE</b><br>113.00+ 119.00    | LC            | Special filter |            |
| <b>VINYL CHLORIDE</b><br>71.00                    | GC            | ORBO 91 tube   | 68.00      |
| <b>VOC (See Solvents)</b>                         | GC            | Charcoal tube  |            |

**16** \* = Media Charge + = 3 Sample Minimum

*Prices may change without notice*

Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**BUSINESS ITEMS**

**Item 12. STRATEGIC MAP UPDATE**

**Description of the Item:**

Steve Marshall, Assistant Director, WSLH, will provide an update on the new WSLH strategic map.

**Suggested Board Action:**

Receive for information.

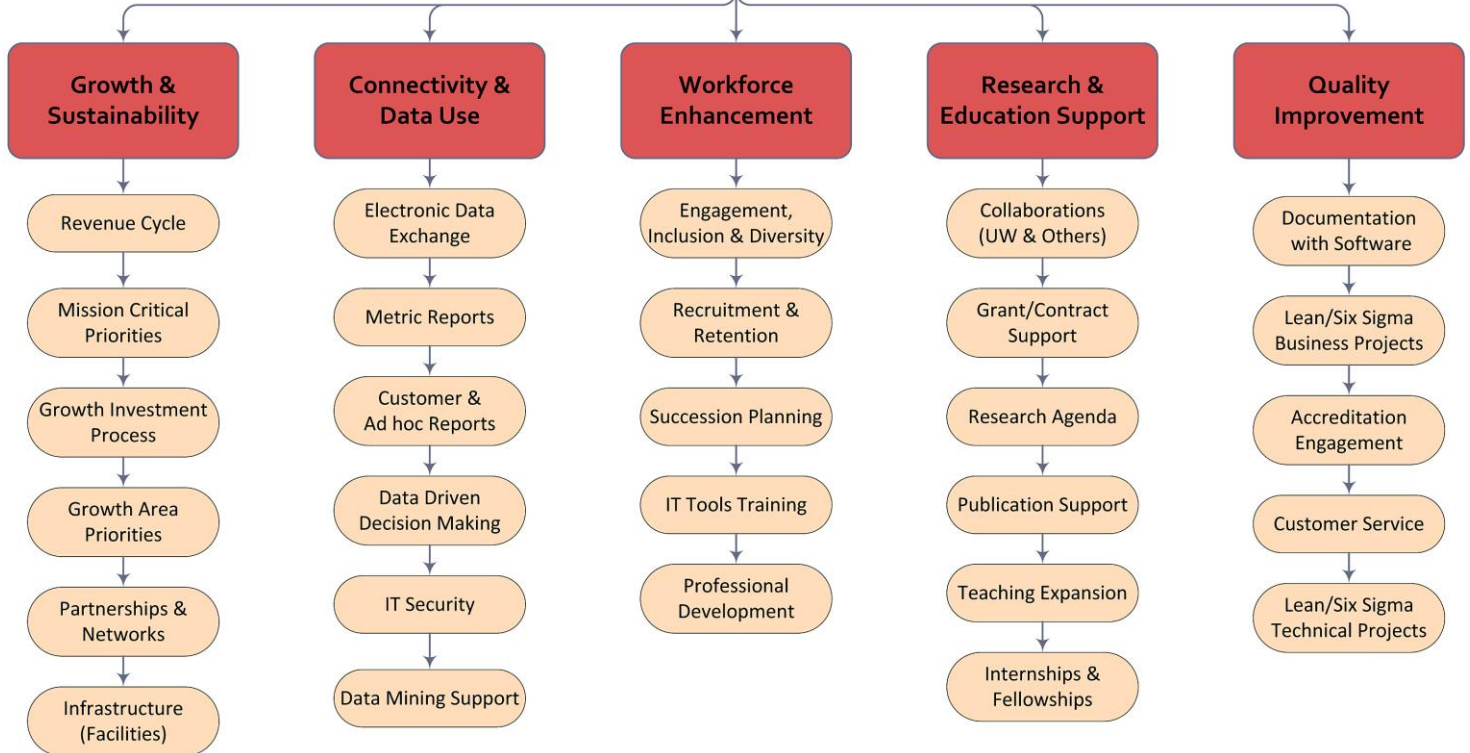
**Staff Recommendations and Comments:**

There are no contracts requiring board approval.

**MISSION:** To improve and protect the human condition by providing accurate and precise testing, service, research and education.

**Advance the Mission and Vision of the WSLH**

**VISION:** To be a global leader in improving quality of life through the advancement of science-based public, environmental and occupational health laboratory practice and policy.



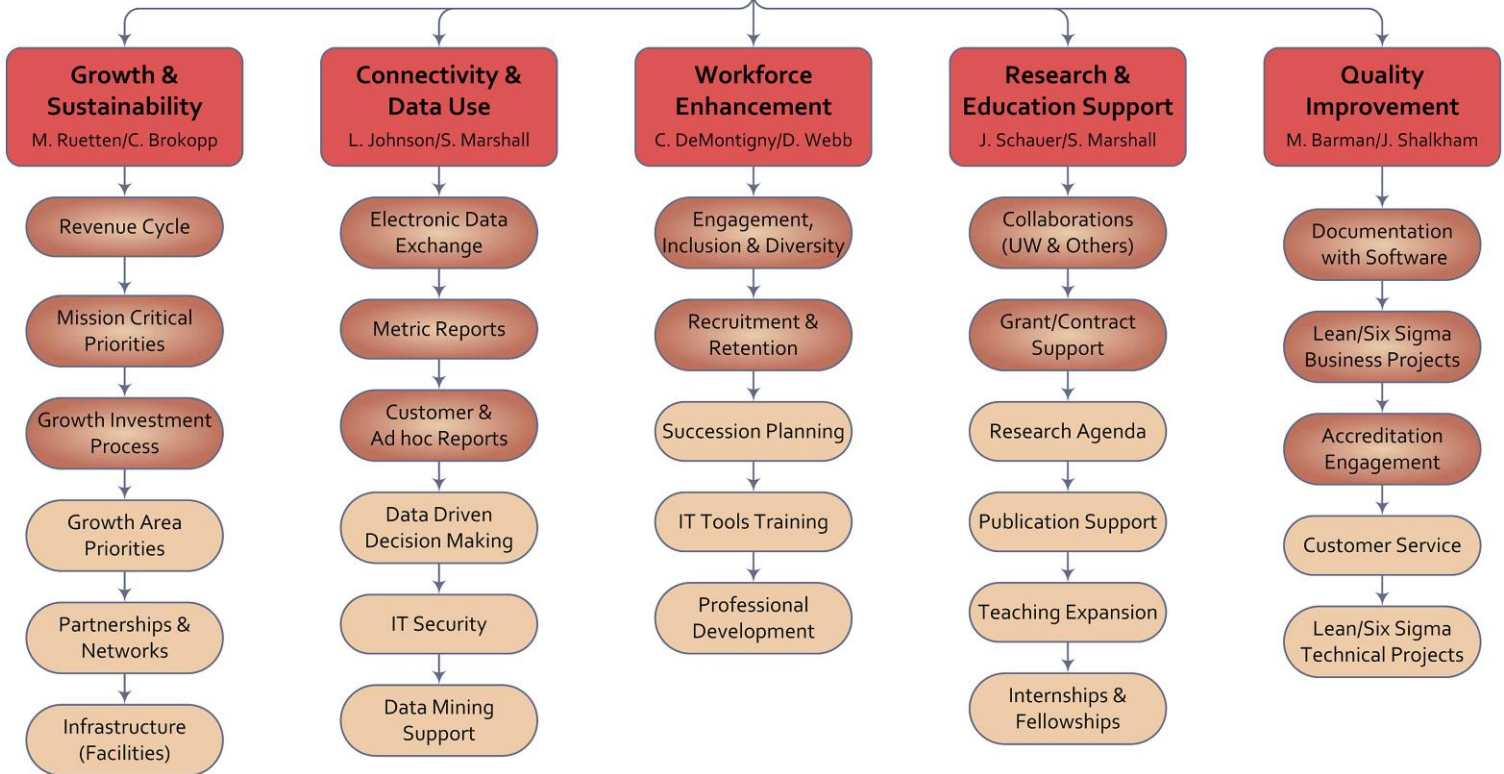
Last Updated 1/12/2015

**MISSION:** To improve and protect the human condition by providing accurate and precise testing, service, research and education.

**Advance the Mission and Vision of the WSLH**

S. Marshall/D. Webb

**VISION:** To be a global leader in improving quality of life through the advancement of science-based public, environmental and occupational health laboratory practice and policy.

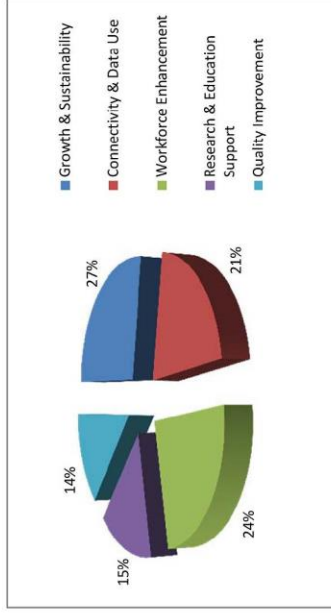


\*2015 priorities chosen based on relative importance, projects already underway, and progression to other objectives.

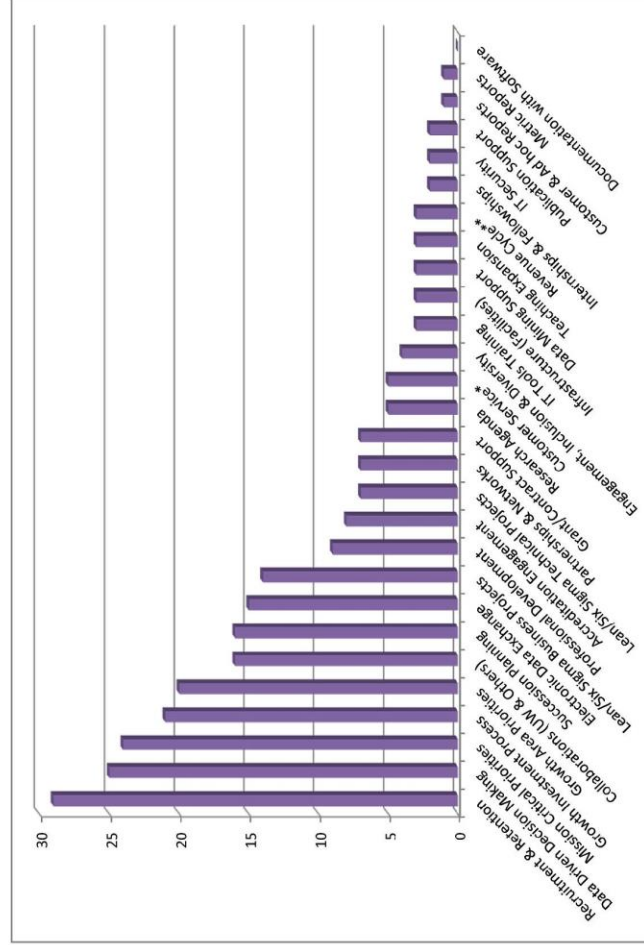
Last Updated 1/12/2015

## WSLH Strategic Map 2015-2017 Category and Objective Importance Rating

| Categories                   | AD Sups    | HM Sups   | Board     | Total      |
|------------------------------|------------|-----------|-----------|------------|
| Growth & Sustainability      | 23         | 16        | 13        | 52         |
| Connectivity & Data Use      | 23         | 6         | 10        | 39         |
| Workforce Enhancement        | 28         | 12        | 5         | 45         |
| Research & Education Support | 13         | 5         | 10        | 28         |
| Quality Improvement          | 14         | 5         | 7         | 26         |
| <b>Total</b>                 | <b>101</b> | <b>44</b> | <b>45</b> | <b>190</b> |



| Objectives                        | AD Sups    | HM Sups   | Board     | SLT      | Total      |
|-----------------------------------|------------|-----------|-----------|----------|------------|
| Recruitment & Retention           | 18         | 4         | 1         | 6        | 29         |
| Data Driven Decision Making       | 13         | 2         | 6         | 4        | 25         |
| Mission Critical Priorities       | 0          | 2         | 10        | 12       | 24         |
| Growth Investment Process         | 11         | 4         | 0         | 6        | 21         |
| Growth Area Priorities            | 8          | 6         | 2         | 4        | 20         |
| Collaborations (UW & Others)      | 7          | 4         | 1         | 4        | 16         |
| Succession Planning               | 2          | 6         | 0         | 8        | 16         |
| Electronic Data Exchange          | 6          | 3         | 2         | 4        | 15         |
| Lean/Six Sigma Business Projects  | 9          | 0         | 2         | 3        | 14         |
| Professional Development          | 4          | 2         | 3         | 0        | 9          |
| Accreditation Engagement          | 4          | 4         | 0         | 0        | 8          |
| Lean/Six Sigma Technical Projects | 1          | 1         | 5         | 0        | 7          |
| Partnerships & Networks           | 2          | 4         | 0         | 1        | 7          |
| Grant/Contract Support            | 2          | 1         | 2         | 2        | 7          |
| Research Agenda                   | 1          | 0         | 3         | 1        | 5          |
| Customer Service*                 |            |           |           | 5        | 5          |
| Engagement, Inclusion & Diversity | 1          | 0         | 1         | 2        | 4          |
| IT Tools Training                 | 3          | 0         | 0         | 0        | 3          |
| Infrastructure (Facilities)       | 2          | 0         | 1         | 0        | 3          |
| Data Mining Support               | 1          | 0         | 2         | 0        | 3          |
| Teaching Expansion                | 1          | 0         | 2         | 0        | 3          |
| Revenue Cycle**                   |            |           |           | 3        | 3          |
| Internships & Fellowships         | 2          | 0         | 0         | 0        | 2          |
| IT Security                       | 2          | 0         | 0         | 0        | 2          |
| Publication Support               | 0          | 0         | 2         | 0        | 2          |
| Customer & Ad hoc Reports         | 1          | 0         | 0         | 0        | 1          |
| Metric Reports                    | 0          | 1         | 0         | 0        | 1          |
| Documentation with Software       | 0          | 0         | 0         | 0        | 0          |
| <b>Total</b>                      | <b>101</b> | <b>44</b> | <b>45</b> | <b>0</b> | <b>255</b> |



\*added by Board

\*\*added by Supervisors

**Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015**

**BUSINESS ITEMS**

**Item 13. CONTRACTS REPORT**

**Description of the Item:**

The table on the following page contains the major grants and contracts that have been received since the last Board meeting. Dr. Brokopp or other staff will be available to provide more details on these grants and contracts.

**Suggested Board Action:**

Receive for information.

**Staff Recommendations and Comments:**

There are no contracts requiring board approval.

WSLH Contracts: November 2014 – January 2015

| CUSTOMER                                  | START DATE | END DATE   | ACCOUNT NAME                               | SCOPE OF WORK                                                                                         | AWARD AMOUNT  | WSLH DEPT |
|-------------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------|-----------|
| Association of Public Health Laboratories | 10/1/2014  | 6/30/2015  | APHL Influenza                             | Virus isolation, neuraminidase testing and sequencing for the National Influenza Surveillance Project | \$ 350,000.00 | CDD       |
| Association of Public Health Laboratories | 11/1/2014  | 6/15/2015  | APHL CLIA Training                         | Enhancing the quality of antimicrobial susceptibility testing in Wisconsin clinical laboratories      | \$ 15,000.00  | CDD       |
| Association of Public Health Laboratories | 11/1/2014  | 6/1/2015   | APHL Newborn Screening Specimen Collection | Development of interactive training webinar for Newborn Screening Specimen Collection Program         | \$ 16,500.00  | DPD       |
| Florida Power and Light                   | 9/22/2014  | 7/29/2016  | Florida Power and Light                    | Analyzing particulate sample filters by SEM for the Port St Lucie nuclear plant                       | \$ 8,000.00   | OHSD      |
| Puerto Rico Dept of Labor                 | 6/3/2014   | 6/30/2015  | Puerto Rico DOL                            | Puerto Rico OSHA program testing of various environmental samples                                     | \$ 38,500.00  | OHSD      |
| Takeda                                    | 12/31/2012 | 5/31/2016  | Takeda                                     | High precision calcium isotope ratio analysis of urine samples                                        | \$ 22,834.00  | EHD       |
| The Nature Conservancy                    | 10/1/2014  | 9/30/2015  | TNC Peconica                               | Sediment testing for the Peconica River                                                               | \$ 14,654.00  | EHD       |
| The Nature Conservancy                    | 10/1/2014  | 9/30/2015  | TNC Sherboyan                              | Sediment testing for the Sheboygan River                                                              | \$ 29,497.60  | EHD       |
| Western Fuels Colorado                    | 1/1/2015   | 12/31/2015 | WFC Colowyo Coal Company                   | Mine airborne contaminate PVC filters and testing                                                     | \$ 5,000.00   | OHSD      |
| Wisconsin Department of Health Services   | 7/1/2014   | 3/31/2015  | WDHS NBS Outreach Coordinator              | NBS Outreach Coordinator                                                                              | \$ 30,202.00  | DPD       |
| Wisconsin Department of Health Services   | 7/1/2014   | 6/30/2015  | WDHS NBS Statewide Genetics Consultant     | NBS Statewide Genetics Consultant                                                                     | \$ 86,519.00  | DPD       |
| Wisconsin Department of Health Services   | 1/1/2015   | 12/31/2015 | WDHS CARS Reproductive Health 1            | Womens Health and Family Practice Program, Reproductive Health, Cervical Cancer                       | \$ 261,500.00 | DPD       |
| Wisconsin Department of Health Services   | 1/1/2015   | 12/31/2015 | WDHS CARS MCH Womens Repo Health QA/QI     | Womens Health and Family Practice Program, Quality Improvement Development                            | \$ 127,482.00 | DPD       |
| Wisconsin Department of Health Services   | 1/1/2015   | 12/31/2015 | WDHS CARS RH Train Tech Assist             | Womens Health and Family Practice Program Training and Technical Assistance                           | \$ 232,829.00 | DPD       |
| Wisconsin Department of Health Services   | 1/1/2015   | 12/31/2015 | WDHS CARS RH EC FPW                        | Womens Health and Family Practice Program, Cervical Cancer Screening and Infrastructure Improvement   | \$ 75,000.00  | DPD       |
| Wisconsin Department of Health Services   | 1/1/2015   | 12/31/2015 | WDHS CARS Reproductive Health 2            | Womens Health and Family Practice Program, Community Based Services                                   | \$ 206,952.00 | DPD       |
| Wisconsin Department of Health Services   | 7/1/2014   | 6/30/2015  | WDHS Radiological Environ Monitoring       | Testing and inventory identification of Radiation Protection Section Environmental Monitoring Program | \$ 107,406.00 | EHD       |



Wisconsin State Laboratory of Hygiene  
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**BUSINESS ITEMS**

**Item 14. DIRECTOR'S REPORT**

- A. FY15 Meeting Calendar**
- B. Public or Environmental Health Incidents of Educational Interest**
- C. Water Systems Report**
- D. Engagement, Inclusion, and Diversity Update**
- E. FY14 Annual Report**
- F. Impact of Governor's Budget FY 16-17**

**WISCONSIN STATE LABORATORY OF HYGIENE  
BOARD OF DIRECTORS  
FY15 MEETING CALENDAR**

|                                                                                                                                                          |                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>April 21, 2015</b><br><b>1:00p.m. – 4:00p.m.</b><br><b>Wisconsin State Laboratory of Hygiene</b><br><b>2601 Agriculture Drive, Madison, Wisconsin</b> | <b>June 23, 2015</b><br><b>1:00p.m. – 4:00p.m.</b><br><b>Wisconsin State Laboratory of Hygiene</b><br><b>2601 Agriculture Drive, Madison, Wisconsin</b>    |
| <ul style="list-style-type: none"> <li>■ Present FY15 3<sup>rd</sup> quarter report</li> <li>■ Submit FY16 preliminary budget</li> </ul>                 | <ul style="list-style-type: none"> <li>■ Approve FY16 budget</li> <li>■ Approve FY16 basic agreements</li> </ul>                                           |
| <b>August 18, 2015</b><br><b>TBA</b>                                                                                                                     | <b>November 3, 2015</b><br><b>1:00p.m. – 4:00p.m.</b><br><b>Wisconsin State Laboratory of Hygiene</b><br><b>2601 Agriculture Drive, Madison, Wisconsin</b> |
| <ul style="list-style-type: none"> <li>■ Present FY15 year-end closeout report</li> </ul>                                                                | <ul style="list-style-type: none"> <li>■ Present FY16 1<sup>st</sup> quarter report</li> </ul>                                                             |

**Report to the Wisconsin State Laboratory of Hygiene Board**

**Representative Public or Environmental Health Incidents of Educational Interest  
For the Period October 23, 2014 – January 27, 2015**

| <b>Approx. Date</b>               | <b>Agent or Event Name</b>                            | <b>Description</b>                                                                                                                                                                                                                                                                                | <b>Current Status</b> |
|-----------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>OUTBREAKS and INCIDENTS</b>    |                                                       |                                                                                                                                                                                                                                                                                                   |                       |
| December 2014                     | Ebola Virus PCR                                       | WSLH Communicable Disease Division (CDD) has been qualified by the CDC to perform PCR for Ebola virus. At this time no patient specimens have been tested.                                                                                                                                        | Complete              |
| January 2015                      | Mumps/Flu                                             | States are seeing patients with parotitis that are negative for mumps, but positive for influenza and parainfluenza. DPH and WSLH are asking providers to collect specimens for PCR for both mumps and influenza and other respiratory viruses to help determine the etiology of parotitis in WI. | Ongoing               |
| January 2015                      | Whole Genome Sequencing                               | WSLH Communicable Disease Division is in the process of implementing whole genome sequencing of Salmonella, Listeria, and Shiga toxin-producing E. coli for foodborne outbreak investigations.                                                                                                    | Ongoing               |
| January 2015                      | MERS-CoV                                              | CDD has been certified by the CDC to perform PCR testing for MERS-CoV.                                                                                                                                                                                                                            | Complete              |
|                                   |                                                       |                                                                                                                                                                                                                                                                                                   |                       |
| <b>RECENT EVENTS and FINDINGS</b> |                                                       |                                                                                                                                                                                                                                                                                                   |                       |
| October 2014                      | Wisconsin Dept. of Justice – OWI Prosecutor’s Seminar | William Johnson, Stephanie Weber and Amy Miles from WSLH Toxicology each presented various topics to Wisconsin prosecutors regarding updates from the WSLH and trending drugs.                                                                                                                    | Complete              |
| October 2014                      | American Board of Forensic Toxicology (ABFT)          | Lorraine Edwards passed the ABFT exam and is now certified by ABFT as a Diplomate in Forensic Toxicology.                                                                                                                                                                                         | Complete              |
| November 2014                     | Publication in the <i>Journal of the American</i>     | Dr. Sharon Long, WSLH Environmental Microbiology, has a publication in the <i>Journal of the American Water Works Association</i> – “Direct                                                                                                                                                       | Complete              |

|                        |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
|------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                        | <i>Water Works Association</i>                                        | and Indirect challenges for Water Quality from the Hydraulic Fracturing Industry.”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |
| In press               | Publication in <i>Environmental Engineering Science</i>               | Dr. Sharon Long, WSLH Environmental Microbiology, has a paper in press in <i>Environmental Engineering Science</i> – “A Torque Teno Virus Occurrence and Relationship to Bacterial and Viral Indicators in Feces, Wastewaters and Waters in the United States.”<br>Plummer, J.D., S.C. Long, Z. Liu, and A.J. Charest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | In progress |
| November 5, 2014       | Wednesday Night at the Lab                                            | Dr. Sharon Long, WSLH Environmental Microbiology, gave a UW Wednesday Nite @ the Lab presentation -- “Everybody poops: Using unique microbiome characteristics for source tracking.”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Complete    |
| November 10, 2014      | Wisconsin Clinical Laboratory Network - Communicable Disease Division | In the fall of 2014, while hospitals and laboratories across the state were frantically working to develop their individual Ebola plans, the WSLH presented an audio conference for the WI laboratories entitled “ <i>Your Ebola Laboratory Plan</i> ”. Dr. Pete Shult, WSLH Communicable Disease Division, led the discussion by reviewing laboratory-specific guidance on Ebola preparedness and giving an update on the WSLH Ebola testing capabilities. He was joined by guest speakers Dr. Nathan Ledebor, Medical College of Wisconsin and Dynacare Laboratories, and Cheryl Jordan, UW Hospital and Clinics, who discussed the specific plans their facilities had developed as designated Category 1 facilities. Category 1 facilities are prepared to provide care to any WI patient that is confirmed to have Ebola. Laboratorians listening to the audio conference were encouraged to participate by asking questions and voicing any concerns they had about the Ebola plans their facility was developing. Roughly 270 clinical laboratorians participated in the live audio conference. The audio conference is available on the WSLH archived past training events webpage for those who were unable to attend the live audio conference. | Complete    |
| November 16 – 20, 2014 | AWWA Water Quality Technology Conference                              | WSLH scientists played multiple roles in the three-day American Water Works Association 2014 Water Quality Technology conference, which had an attendance of about 1,100.<br><br>Becky Hoffman, WSLH Biomonitoring, chaired the planning committee for the conference. Her 13-member committee developed the technical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Complete    |

|                   |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
|-------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                   |                                                                        | <p>program for the conference, including reviewing more than 400 abstracts and workshop and special session topic requests, as well as finding speakers.</p> <p>Dr. Sharon Long, WSLH Environmental Microbiology, gave a research presentation at the conference on a qPCR-based analysis of environmental water samples for <i>E. coli</i> and toxigenic <i>E. coli</i>. Her co-presenters were India Mansour and Mark Walter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| November 20, 2014 | Wisconsin Dept. of Justice – Special Prosecutor Education and Training | Amy Miles presented to the prosecutors for the State of Wisconsin on the current status of the Forensic Toxicology Section at the WSLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Complete |
| Winter 2014       | Publication in the <i>Journal of Legal Nursing</i>                     | Thomas Neuser, WSLH Forensic Toxicology, authored: “Considerations in Evaluating a Measured Ethanol Concentration: A Review”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Complete |
| December 2014     | Publication in <i>Environmental Science and Technology</i>             | <p>Dr. Jamie Schauer and Dr. Martin Shafer (both WSLH Environmental Health Division and UW College of Engineering) were co-authors on the paper “The Discoloration of the Taj Mahal due to Particulate Carbon and Dust Deposition”.</p> <p>The paper is the result of a years-long research collaboration between the WSLH/UW-Madison, Georgia Tech, India Institute of Technology-Kanpur and the Archeological Institute of India. The chemical measurements were done at the WSLH and were used to understand the sources of air pollution at the Taj Mahal.</p> <p>The paper has received large amounts of media attention in India and China and has led to immediate policies to control air pollution sources.</p> <p>The answers aren’t just important for one of the most beautiful buildings in the world, but also for the many people living in the area since these types of contaminants can also cause negative health effects.</p> | Complete |
| December 2014     | Wisconsin Public Health Association                                    | Jan Klawitter, WSLH Public Affairs, was elected to the Wisconsin Public Health Association Board of Directors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Complete |

|                       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|-----------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| December-January 2014 | Nerve agent exposure studies                                          | At the request of CDC, the Chemical Emergency Response Program participated in two distinct studies involving the measurement of nerve agent metabolites in humans. The first is an evaluation of testing capabilities in human serum, a novel matrix. The second is an international comparison study of nerve agent measurement in human urine. Results of the studies are not yet available.                                                                                                                                                                                                                                                                                                                                       | Ongoing  |
| December 10, 2014     | Wisconsin Clinical Laboratory Network - Communicable Disease Division | To wrap up the 2014 Wisconsin Clinical Laboratory Network (WCLN) audio conference season, the WSLH presented “ <i>Emerging and Re-emerging Diseases</i> ”. Dr. David Warshauer, WSLH Communicable Disease Division, highlighted some of the new and emerging agents of disease and reviewed some of the re-emerging organisms that we continually battle. The 110 clinical laboratorians who joined the live audio conference learned about the epidemiology, clinical manifestations, and laboratory diagnostic testing available for such pathogens as MERS and Enterovirus-D68. The audio conference is available on the WSLH archived past training events webpage for those who were unable to attend the live audio conference. | Complete |
| December 19, 2014     | Wisconsin Coroners and Medical Examiners Webinar Training Series      | Lorraine Edwards, WSLH Forensic Toxicology, gave the first of a series of planned training webinars to Wisconsin coroners and medical examiners. The topics included in this webinar: current drug testing status at the WSLH, overview of the section, and case histories. Lorraine will be providing these webinars on a quarterly basis.                                                                                                                                                                                                                                                                                                                                                                                           | Ongoing  |
| January 2015          | ORCHARDS school influenza study                                       | This CDC-funded University of Wisconsin-Madison study focuses on schoolchildren in the Oregon, WI, school district and combines rapid testing at a UW clinic lab, confirmatory PCR testing at the WSLH Communicable Disease Division, and epidemiology with the goal of better understanding how the flu and other respiratory viruses can spread amongst children and hopefully find trends that could minimize or prevent school outbreaks. The WSLH also performed testing last year using the rapid flu testing platform being utilized in the study to verify it would work in this context.                                                                                                                                     | Ongoing  |
| January 2015          | New CLIA registration number for UW                                   | The WSLH received notice of CLIA registration supporting the UWCGC, a partnership between the WSLH Cytogenetics and Molecular Genetics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Complete |

|                  |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
|------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                  | Collaborative Genomics Core (UWCGC)                                                    | <p>Department, the UW Biotechnology Center and UW Hospitals and Clinics.</p> <p>The CLIA registration allows for development and processing of clinical specimens within the UW Biotechnology Center Sequencing and Array Cores. This includes the completion of validation studies for clinical testing that will be available through the UWCGC partnership, including high-density array, and next-generation sequencing, and the development of novel technologies. This CLIA registration can also be utilized by the WSLH Newborn Screening Laboratory and Communicable Disease Division for assay development and clinical testing at the Biotech Center.</p>                                                                                                                   |          |
| January 2015     | NIH grant studying impact of particulate matter (air pollution) on airway/lung disease | <p>Dr. Jamie Schauer, WSLH Environmental Health Division and UW College of Engineering, is Co-Primary Investigator on a \$1.8 million National Institutes of Health grant – “A Novel Mechanism for Environmentally Induced Airway Disease.” The Primary Investigator for the grant is Dr. Joshua Mezrich with the UW Department of Surgery.</p> <p>The grant will allow Schauer and Mezrich to continue their research on the effect of particulate matter on lung transplant patients.</p>                                                                                                                                                                                                                                                                                            | Ongoing  |
| January 14, 2015 | Wisconsin Clinical Laboratory Network - Communicable Disease Division                  | <p>The WCLN 2015 audio conference season began with a review of “<i>Bloodborne Parasites: A New Perspective on Some Old Nemesis</i>”. This is a timely topic since symptoms of Ebola are similar to symptoms of bloodborne parasites such as Malaria. Ann Valley and Tim Monson (both WSLH Communicable Disease Division) reviewed the bloodborne parasites that are most commonly encountered in WI. Identifying characteristics, conventional and newer molecular diagnostic methods, and the importance of patient history were highlighted during their presentation. Approximately 113 clinical laboratorians attended the live call. Those who were unable to make the live audio conference can access the archived presentation from our WSLH past training event webpage.</p> | Complete |
| January 19, 2015 | MLK Youth Day of Service                                                               | <p>Ariana Mankerian (EHD Radiochemistry), Courtney Krueger (EHD Organic Chemistry) and Jordan Montpetit (WOHL Inorganic Chemistry) planned and facilitated a nearly two-hour long</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Complete |

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | <p>session exploring water issues for ~ 35 middle and high schoolers as part of the Martin Luther King, Jr. Day of Service, sponsored by the Urban League of Greater Madison and held at the Wisconsin Institutes for Discovery building on campus.</p> <p>The session included two interactive activities that helped the students delve into issues of water resources and interdependency, water quality and contaminants, and water quality monitoring.</p> |  |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |



Wisconsin State Laboratory of Hygiene  
Board of Directors Meeting  
February 10<sup>th</sup>, 2015

**Report to the  
Wisconsin State Laboratory of Hygiene Board  
Water Systems Tests by the WSLH  
For the period October 1 – December 31, 2014**

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| Number of systems on a boil water notice                                              | 61   |
| Number of water systems tested                                                        | 3084 |
| Percent of systems on a boil water notice                                             | 2.0% |
| Number of boil water notices for <u>municipal community water systems</u> .           | 1    |
| Number of boil water notices for <u>other than a municipal community water system</u> | 3    |
| Number of boil water notices for <u>non-transient, non-community water systems</u> .  | 7    |
| Number of boil water notices for <u>transient water systems</u> .                     | 50   |

|             | # of systems tested by SLH |    |    |     | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|-----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN  | MC                      | OC | NN | TN |
| Adams       | 3                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Ashland     | 2                          | 0  | 2  | 2   | 0                       | 0  | 0  | 0  |
| Barron      | 2                          | 2  | 2  | 1   | 0                       | 0  | 0  | 1  |
| Bayfield    | 1                          | 1  | 1  | 1   | 1                       | 0  | 0  | 0  |
| Brown       | 9                          | 0  | 2  | 13  | 0                       | 0  | 1  | 1  |
| Buffalo     | 3                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 0  | 2  | 1   | 0                       | 0  | 0  | 0  |
| Calumet     | 7                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Chippewa    | 1                          | 1  | 0  | 16  | 0                       | 0  | 0  | 0  |
| Clark       | 7                          | 1  | 6  | 12  | 0                       | 0  | 0  | 1  |
| Columbia    | 10                         | 4  | 5  | 14  | 0                       | 0  | 0  | 0  |
| Crawford    | 5                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Dane        | 32                         | 10 | 16 | 26  | 0                       | 0  | 0  | 0  |
| Dodge       | 16                         | 3  | 5  | 21  | 0                       | 0  | 0  | 1  |
| Door        | 3                          | 2  | 2  | 206 | 0                       | 1  | 0  | 19 |
| Douglas     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Dunn        | 1                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Eau Claire  | 0                          | 4  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 1  | 6   | 0                       | 0  | 0  | 1  |
| Fond Du Lac | 8                          | 2  | 2  | 12  | 0                       | 0  | 0  | 0  |
| Forest      | 4                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Grant       | 12                         | 4  | 3  | 15  | 0                       | 0  | 0  | 1  |
| Green       | 7                          | 0  | 3  | 5   | 0                       | 0  | 0  | 1  |
| Green Lake  | 5                          | 1  | 1  | 5   | 0                       | 0  | 0  | 1  |
| Iowa        | 8                          | 0  | 4  | 18  | 0                       | 0  | 0  | 0  |
| Iron        | 5                          | 0  | 0  | 5   | 0                       | 0  | 0  | 1  |
| Jackson     | 3                          | 0  | 1  | 9   | 0                       | 0  | 0  | 0  |
| Jefferson   | 6                          | 3  | 3  | 28  | 0                       | 0  | 0  | 2  |
| Juneau      | 9                          | 2  | 1  | 5   | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 14 | 10 | 7   | 0                       | 0  | 0  | 0  |
| Kewaunee    | 3                          | 0  | 2  | 6   | 0                       | 0  | 0  | 0  |
| La Crosse   | 0                          | 2  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Langlade    | 1                          | 1  | 0  | 10  | 0                       | 0  | 0  | 1  |
| Lincoln     | 3                          | 0  | 0  | 1   | 0                       | 0  | 0  | 0  |
| Manitowoc   | 6                          | 3  | 4  | 24  | 0                       | 0  | 0  | 0  |
| Marathon    | 3                          | 1  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Marinette   | 7                          | 1  | 1  | 23  | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 0  | 5  | 13  | 0                       | 0  | 0  | 0  |
| Menominee   | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 2  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Monroe      | 6                          | 3  | 1  | 1   | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 1  | 0  | 23  | 0                       | 0  | 0  | 0  |
| Oneida      | 1                          | 4  | 1  | 4   | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 0  | 5   | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 4  | 10 | 1   | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 0  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 1  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Polk        | 2                          | 0  | 0  | 64  | 0                       | 0  | 0  | 3  |
| Portage     | 4                          | 1  | 4  | 0   | 0                       | 0  | 0  | 0  |
| Price       | 2                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Racine      | 2                          | 6  | 12 | 6   | 0                       | 0  | 0  | 0  |
| Richland    | 6                          | 0  | 2  | 3   | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 7  | 7  | 15  | 0                       | 0  | 0  | 0  |
| Rusk        | 2                          | 1  | 1  | 0   | 0                       | 0  | 1  | 0  |
| Sauk        | 10                         | 1  | 3  | 13  | 0                       | 0  | 0  | 1  |
| Sawyer      | 2                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 1  | 0  | 12  | 0                       | 0  | 0  | 0  |
| Sheboygan   | 8                          | 0  | 1  | 11  | 0                       | 0  | 0  | 0  |
| St. Croix   | 2                          | 2  | 0  | 5   | 0                       | 0  | 0  | 0  |
| Taylor      | 2                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Trempealeau | 7                          | 2  | 0  | 4   | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Vernon      | 4                          | 0  | 0  | 12  | 0                       | 0  | 0  | 0  |
| Vilas       | 3                          | 3  | 0  | 3   | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 3  | 1  | 8   | 0                       | 0  | 0  | 0  |
| Washburn    | 1                          | 1  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Washington  | 1                          | 7  | 7  | 0   | 0                       | 0  | 0  | 0  |
| Waukesha    | 4                          | 5  | 10 | 26  | 0                       | 0  | 0  | 1  |
| Waupaca     | 6                          | 0  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 1  | 0  | 12  | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 1  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Wood        | 5                          | 3  | 3  | 0   | 0                       | 0  | 0  | 0  |

## October 2014

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

OC is other than municipal community water system which means a community water system that is not a municipal water system. Examples of other than municipal community water systems include but are not limited to those serving mobile home parks, apartments and condominiums.

NN is non-transient non-community water system which means a non-community water system that regularly serves at least 25 of the same persons over 6 months per year. Examples of non-transient non-community water systems include those serving schools, day care centers and factories.

TN is non-community transient water system which means a non-community water system that serves at least 25 people at least 60 days of the year. Examples of transient non-community water systems include those serving taverns, motels, restaurants, churches, campgrounds and parks.

|             | # of systems tested by SLH |    |    |    | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN | MC                      | OC | NN | TN |
| Adams       | 3                          | 1  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Ashland     | 3                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Barron      | 2                          | 0  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Bayfield    | 1                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Brown       | 9                          | 1  | 3  | 3  | 0                       | 0  | 0  | 1  |
| Buffalo     | 3                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Calumet     | 7                          | 1  | 2  | 2  | 0                       | 0  | 0  | 0  |
| Chippewa    | 1                          | 2  | 0  | 14 | 0                       | 0  | 0  | 0  |
| Clark       | 4                          | 1  | 2  | 3  | 0                       | 0  | 0  | 1  |
| Columbia    | 10                         | 1  | 3  | 3  | 0                       | 0  | 0  | 0  |
| Crawford    | 5                          | 0  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Dane        | 33                         | 6  | 10 | 13 | 0                       | 0  | 0  | 0  |
| Dodge       | 16                         | 1  | 6  | 48 | 0                       | 0  | 0  | 2  |
| Door        | 3                          | 1  | 2  | 60 | 0                       | 0  | 0  | 0  |
| Douglas     | 0                          | 0  | 1  | 6  | 0                       | 0  | 0  | 1  |
| Dunn        | 1                          | 2  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Eau Claire  | 0                          | 2  | 2  | 0  | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 0  | 3  | 0                       | 0  | 0  | 0  |
| Fond Du Lac | 8                          | 3  | 3  | 1  | 0                       | 1  | 0  | 0  |
| Forest      | 3                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Grant       | 12                         | 4  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Green       | 7                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Green Lake  | 5                          | 0  | 2  | 2  | 0                       | 0  | 0  | 0  |
| Iowa        | 8                          | 0  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Iron        | 5                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Jackson     | 2                          | 0  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Jefferson   | 6                          | 3  | 6  | 7  | 0                       | 1  | 0  | 1  |
| Juneau      | 10                         | 3  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 8  | 4  | 0  | 0                       | 0  | 0  | 0  |
| Kewaunee    | 3                          | 0  | 4  | 0  | 0                       | 0  | 1  | 0  |
| La Crosse   | 0                          | 1  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 3  | 0                       | 0  | 0  | 0  |
| Langlade    | 1                          | 0  | 2  | 2  | 0                       | 0  | 0  | 0  |
| Lincoln     | 3                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Manitowoc   | 5                          | 2  | 2  | 3  | 0                       | 0  | 0  | 0  |
| Marathon    | 3                          | 0  | 3  | 0  | 0                       | 0  | 0  | 0  |
| Marinette   | 6                          | 1  | 0  | 2  | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 2  | 0  | 4  | 0                       | 0  | 0  | 0  |
| Menominee   | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 1  | 3  | 1  | 0                       | 0  | 3  | 1  |
| Monroe      | 6                          | 2  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 3  | 2  | 5  | 0                       | 0  | 0  | 0  |
| Oneida      | 1                          | 3  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 0  | 5  | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 1  | 14 | 1  | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Polk        | 1                          | 0  | 0  | 7  | 0                       | 0  | 0  | 1  |
| Portage     | 4                          | 1  | 3  | 0  | 0                       | 0  | 0  | 0  |
| Price       | 2                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Racine      | 1                          | 0  | 9  | 6  | 0                       | 0  | 0  | 1  |
| Richland    | 6                          | 0  | 1  | 1  | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 5  | 7  | 10 | 0                       | 0  | 0  | 0  |
| Rusk        | 1                          | 0  | 1  | 0  | 0                       | 0  | 0  | 0  |
| Sauk        | 11                         | 1  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Sawyer      | 2                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 0  | 1  | 2  | 0                       | 0  | 0  | 0  |
| Sheboygan   | 8                          | 0  | 8  | 0  | 0                       | 0  | 0  | 0  |
| St. Croix   | 2                          | 1  | 2  | 1  | 0                       | 0  | 0  | 0  |
| Taylor      | 1                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Trempealeau | 6                          | 1  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Vernon      | 4                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Vilas       | 3                          | 2  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 0  | 5  | 0  | 0                       | 0  | 0  | 0  |
| Washburn    | 1                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Washington  | 0                          | 7  | 3  | 0  | 0                       | 0  | 0  | 0  |
| Waukesha    | 5                          | 6  | 12 | 3  | 0                       | 0  | 0  | 0  |
| Waupaca     | 6                          | 2  | 3  | 0  | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 0  | 0  | 1  | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 0  | 0  | 0  | 0                       | 0  | 0  | 0  |
| Wood        | 5                          | 1  | 4  | 0  | 0                       | 0  | 0  | 0  |

## November 2014

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

OC is other than municipal community water system which means a community water system that is not a municipal water system. Examples of other than municipal community water systems include but are not limited to those serving mobile home parks, apartments and condominiums.

NN is non-transient non-community water system which means a non-community water system that regularly serves at least 25 of the same persons over 6 months per year. Examples of non-transient non-community water systems include those serving schools, day care centers and factories.

TN is non-community transient water system which means a non-community water system that serves at least 25 people at least 60 days of the year. Examples of transient non-community water systems include those serving taverns, motels, restaurants, churches, campgrounds and parks.

|             | # of systems tested by SLH |    |    |     | # of Boil Water Notices |    |    |    |
|-------------|----------------------------|----|----|-----|-------------------------|----|----|----|
|             | MC                         | OC | NN | TN  | MC                      | OC | NN | TN |
| Adams       | 4                          | 1  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Ashland     | 3                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Barron      | 1                          | 0  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Bayfield    | 1                          | 1  | 2  | 1   | 0                       | 0  | 0  | 0  |
| Brown       | 9                          | 0  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Buffalo     | 3                          | 0  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Burnett     | 0                          | 1  | 1  | 1   | 0                       | 0  | 0  | 0  |
| Calumet     | 7                          | 2  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Chippewa    | 0                          | 0  | 2  | 7   | 0                       | 0  | 0  | 1  |
| Clark       | 6                          | 1  | 2  | 2   | 0                       | 0  | 0  | 0  |
| Columbia    | 10                         | 3  | 6  | 7   | 0                       | 0  | 0  | 0  |
| Crawford    | 5                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Dane        | 32                         | 12 | 9  | 21  | 0                       | 0  | 0  | 0  |
| Dodge       | 16                         | 3  | 11 | 46  | 0                       | 0  | 0  | 1  |
| Door        | 3                          | 1  | 4  | 107 | 0                       | 0  | 0  | 0  |
| Douglas     | 0                          | 0  | 1  | 5   | 0                       | 0  | 0  | 0  |
| Dunn        | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Eau Claire  | 0                          | 0  | 5  | 0   | 0                       | 0  | 0  | 0  |
| Florence    | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Fond Du Lac | 8                          | 2  | 3  | 6   | 0                       | 0  | 0  | 0  |
| Forest      | 4                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Grant       | 12                         | 4  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Green       | 7                          | 1  | 2  | 1   | 0                       | 0  | 0  | 0  |
| Green Lake  | 5                          | 0  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Iowa        | 7                          | 2  | 3  | 2   | 0                       | 0  | 0  | 1  |
| Iron        | 5                          | 0  | 0  | 1   | 0                       | 0  | 0  | 1  |
| Jackson     | 2                          | 0  | 2  | 3   | 0                       | 0  | 0  | 0  |
| Jefferson   | 6                          | 8  | 4  | 25  | 0                       | 0  | 0  | 0  |
| Juneau      | 10                         | 3  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Kenosha     | 0                          | 8  | 4  | 0   | 0                       | 0  | 1  | 0  |
| Kewaunee    | 3                          | 1  | 2  | 0   | 0                       | 0  | 0  | 0  |
| La Crosse   | 0                          | 3  | 7  | 1   | 0                       | 0  | 0  | 0  |
| Lafayette   | 6                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Langlade    | 1                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Lincoln     | 3                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Manitowoc   | 5                          | 3  | 9  | 2   | 0                       | 0  | 0  | 0  |
| Marathon    | 3                          | 0  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Marinette   | 7                          | 1  | 2  | 6   | 0                       | 0  | 0  | 0  |
| Marquette   | 1                          | 1  | 3  | 3   | 0                       | 0  | 0  | 0  |
| Menominee   | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Milwaukee   | 2                          | 2  | 1  | 1   | 0                       | 0  | 0  | 0  |
| Monroe      | 6                          | 2  | 3  | 1   | 0                       | 0  | 0  | 0  |
| Oconto      | 5                          | 1  | 2  | 1   | 0                       | 0  | 0  | 0  |
| Oneida      | 1                          | 4  | 3  | 3   | 0                       | 0  | 0  | 0  |
| Outagamie   | 9                          | 0  | 1  | 1   | 0                       | 0  | 0  | 0  |
| Ozaukee     | 1                          | 5  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Pepin       | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Pierce      | 2                          | 0  | 4  | 0   | 0                       | 0  | 0  | 0  |
| Polk        | 1                          | 0  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Portage     | 4                          | 4  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Price       | 3                          | 0  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Racine      | 1                          | 0  | 13 | 1   | 0                       | 0  | 0  | 0  |
| Richland    | 6                          | 0  | 3  | 2   | 0                       | 0  | 0  | 0  |
| Rock        | 7                          | 5  | 9  | 7   | 0                       | 0  | 0  | 1  |
| Rusk        | 1                          | 1  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Sauk        | 10                         | 1  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Sawyer      | 2                          | 0  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Shawano     | 9                          | 0  | 1  | 2   | 0                       | 0  | 0  | 0  |
| Sheboygan   | 8                          | 1  | 2  | 5   | 0                       | 0  | 0  | 0  |
| St. Croix   | 2                          | 2  | 3  | 0   | 0                       | 0  | 0  | 0  |
| Taylor      | 1                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Trempealeau | 6                          | 1  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Unknown     | 0                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Vernon      | 4                          | 1  | 0  | 2   | 0                       | 0  | 0  | 0  |
| Vilas       | 3                          | 5  | 2  | 0   | 0                       | 0  | 0  | 0  |
| Walworth    | 2                          | 2  | 4  | 2   | 0                       | 0  | 0  | 0  |
| Washburn    | 1                          | 0  | 1  | 0   | 0                       | 0  | 0  | 0  |
| Washington  | 1                          | 6  | 4  | 1   | 0                       | 0  | 0  | 0  |
| Waukesha    | 4                          | 4  | 9  | 1   | 0                       | 0  | 0  | 0  |
| Waupaca     | 6                          | 0  | 2  | 3   | 0                       | 0  | 0  | 0  |
| Waushara    | 4                          | 1  | 2  | 1   | 0                       | 0  | 0  | 0  |
| Winnebago   | 4                          | 0  | 0  | 0   | 0                       | 0  | 0  | 0  |
| Wood        | 5                          | 1  | 3  | 2   | 0                       | 0  | 0  | 0  |

## December 2014

### Report on Public Water System Testing

MC is municipal community water system which means a water system which serves at least 15 service connections used by year round residents or regularly serves at least 25 year round resident and is owned by a county, city, village, town, town sanitary district, or utility district.

OC is other than municipal community water system which means a community water system that is not a municipal water system. Examples of other than municipal community water systems include but are not limited to those serving mobile home parks, apartments and condominiums.

NN is non-transient non-community water system which means a non-community water system that regularly serves at least 25 of the same persons over 6 months per year. Examples of non-transient non-community water systems include those serving schools, day care centers and factories.

TN is non-community transient water system which means a non-community water system that serves at least 25 people at least 60 days of the year. Examples of transient non-community water systems include those serving taverns, motels, restaurants, churches, campgrounds and parks.