

Outbreak Response Protocol: APPENDICES

PROCEDURES FOR RESPONDING TO DISEASE OUTBREAKS IN MINNESOTA

August 2022

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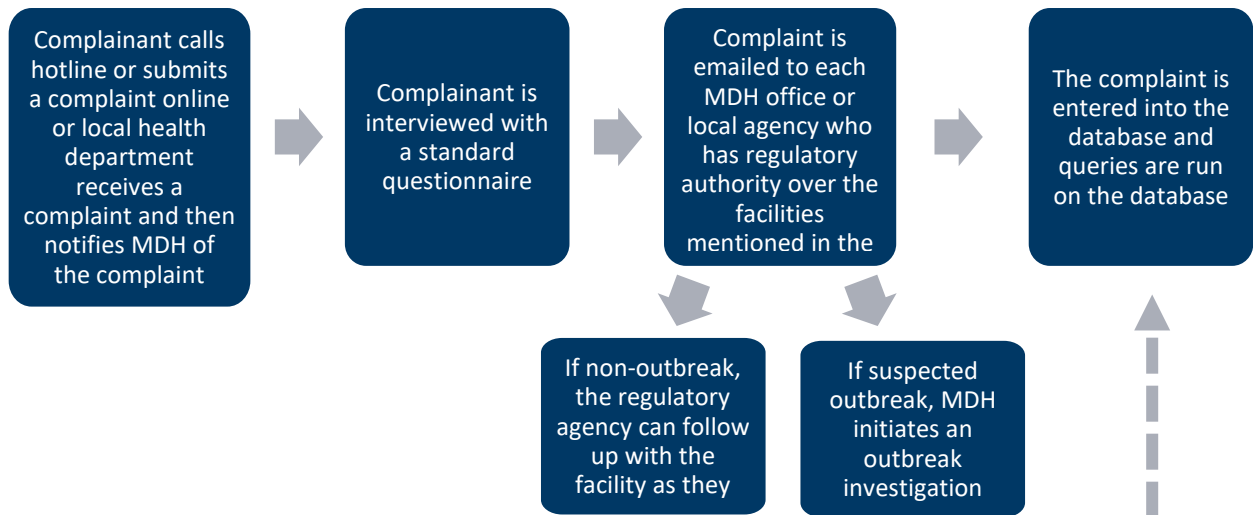
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Appendix 1a: Outbreak Detection

Outbreaks are identified through two main mechanisms

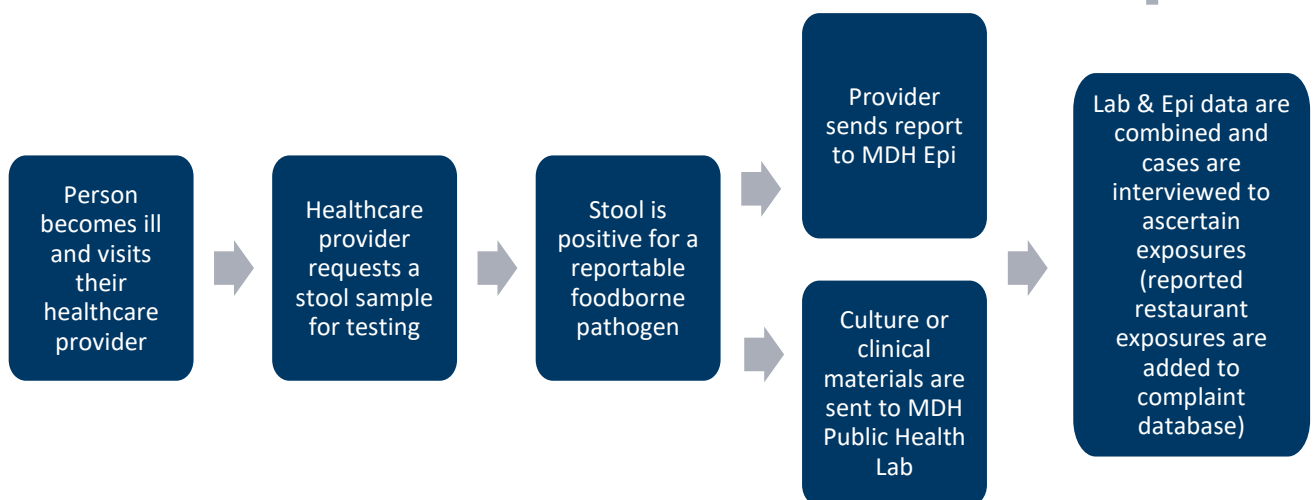
Foodborne & Waterborne Illness Hotline

(Primarily suspect pathogens; e.g., norovirus)



Pathogen-specific Surveillance

(Confirmed pathogens; e.g., *Salmonella*)



Details about Chart above

Foodborne & Waterborne Illness Hotline

1. Complainant calls the hotline, submits a complaint online, or reaches out to their local health department (local health department notifies MDH of the complaint). Waterborne injury complaints and complaints received by restaurants should also be reported to the Health Department for investigation and possible follow-up.
2. Complainant is interviewed with a standard questionnaire
3. Complaint is emailed to each MDH office or local agency who has regulatory authority over the facilities mentioned in the complaint
 - a. If non-outbreak, the regulatory agency can follow up with the facility as they see fit or
 - b. If suspected outbreak, MDH initiates an outbreak investigation
4. The complaint is entered into the database and queries are run on the database
 - a. If suspected outbreak, MDH initiates an outbreak investigation

Pathogen-specific Surveillance

1. Person becomes ill and visits their healthcare provider
2. Healthcare provider requests a stool sample for testing
3. Stool is positive for a reportable foodborne pathogen
 - a. Provider sends report to MDH Epi **and**
 - b. Culture or clinical materials are sent to MDH Public Health Lab
5. Lab & Epi data are combined, and cases are interviewed to ascertain exposures (reported restaurant exposures are added to complaint database)



Appendix 1b: Selected Diseases Reportable to the Minnesota Department of Health

Infectious Disease Reporting

(<https://www.health.state.mn.us/diseases/reportable>)

Under Minnesota state law, health care practitioners, institutions, child care facilities, and camps are required to report some diseases to the Minnesota Department of Health. See Minnesota Rules, Chapter 4605 (<https://www.revisor.mn.gov/rules/?id=4605>) for more information.

Amebiasis (*Entamoeba histolytica/dispar*)

Botulism (*Clostridium botulinum*)

Campylobacteriosis (*Campylobacter* spp.)*

Cholera (*Vibrio cholera*)*

Cryptosporidiosis (*Cryptosporidium* spp.)*

Cyclosporiasis (*Cyclospora* spp.)*

Enteric *Escherichia coli* infection*

(*E. coli* O157:H7, other Shiga toxin-producing *E. coli*, enterohemorrhagic *E. coli*, enteropathogenic *E. coli*, enteroinvasive *E. coli*, enteroaggregative *E. coli*, enterotoxigenic *E. coli*, or other pathogenic *E. coli*)

Free-living amebic infection*

(Including *Acanthamoeba* spp., *Naegleria fowleri*, *Balamuthia* spp., *Sappinia* spp.)

Giardiasis (*Giardia intestinalis*)

Hemolytic uremic syndrome (HUS)*

Listeriosis (*Listeria monocytogenes*)*

Salmonellosis, including typhoid (*Salmonella* spp.)*

Shigellosis (*Shigella* spp.)*

Typhoid (*Salmonella* Typhi)*

Unusual or increased case incidence of any suspect infectious illness

Vibrio spp.*

Yersiniosis, enteric (*Yersinia* spp.)*

* Submission of clinical materials required.

NOTE: This is not a complete list of diseases reportable to MDH.



Appendix 2: Complaint Intake Form

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

Foodborne Illness Report Minnesota Department of Health Phone: (651) 201-5414 Fax: (651) 201-5082		Revised: 11/24/2014
Complaint date: ____/____/____ Hotline call: <input type="checkbox"/> How you got # _____ Tennesen: <input type="checkbox"/> Agency: Minnesota Department of Health Reporter: _____		
First Name: _____ Last Name: _____ Age: ____ <input type="checkbox"/> Female <input type="checkbox"/> Male Address: _____ Zip: _____ Home phone: (____) _____ Work phone: (____) _____ Cell: (____) _____		
Establishment that the complainant suspects: _____ Number of persons exposed: ____ Number ill: ____ How many households with illness: ____ Did complainant call the establishment? : <input type="checkbox"/> Y <input type="checkbox"/> N If yes, who did they speak with: _____ <i>*If a retail food product is suspected, please fill out page 4 (Retail Food Product Complaint) in addition to the 4-day food history</i>		
ILLNESS HISTORY Illness Onset: ____/____/____ Time: ____ Recovery: ____/____/____ Time: ____ Vomiting <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: ____ Recovery: ____/____/____ Time: ____ Diarrhea <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: ____ Recovery: ____/____/____ Time: ____ # of stools per 24-hr. period (max): ____ Cramps <input type="checkbox"/> Y <input type="checkbox"/> N Fever <input type="checkbox"/> Y <input type="checkbox"/> N (temp: ____) Bloody stools <input type="checkbox"/> Y <input type="checkbox"/> N Other symptoms: _____ Visited health care provider <input type="checkbox"/> Y <input type="checkbox"/> N If yes, name and location: _____ Date of visit: ____/____/____ Provider requested stool sample <input type="checkbox"/> Y <input type="checkbox"/> N If yes, date stool submitted: ____/____/____ Hospitalized <input type="checkbox"/> Y <input type="checkbox"/> N		
FOOD HISTORY <i>If only one person is ill or if all ill persons live in same household, complete the entire four-day food history. If more than one person is ill and they live in different households, record only the common meals.</i>		
Meal Time	Date: ____/____/____ (work backward starting with onset date)	Hours to Illness Onset
Brk: ____ location: _____	food/drinks: _____	_____
Lun: ____ location: _____	food/drinks: _____	_____
Sup: ____ location: _____	food/drinks: _____	_____
Other: ____ location: _____	food/drinks: _____	_____

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Meal Time	Date: ____/____/____	Hours to Illness Onset
Brk: ____ location: _____		
food/drinks: _____		
Lun: ____ location: _____		
food/drinks: _____		
Sup: ____ location: _____		
food/drinks: _____		
Other: ____ location: _____ food/drinks: _____		
Meal Time	Date: ____/____/____	Hours to Illness Onset
Brk: ____ location: _____		
food/drinks: _____		
Lun: ____ location: _____		
food/drinks: _____		
Sup: ____ location: _____		
food/drinks: _____		
Other: ____ location: _____ food/drinks: _____		
Meal Time	Date: ____/____/____	Hours to Illness Onset
Brk: ____ location: _____		
food/drinks: _____		
Lun: ____ location: _____		
food/drinks: _____		
Sup: ____ location: _____		
food/drinks: _____		
Other: ____ location: _____ food/drinks: _____		
Complainant occupation: _____ Daycare exposure: Y N		
Have you been swimming in the past 2 weeks: Y N If yes, where _____ Date: ____/____/____		
Did you drink any well water in the past 2 weeks: Y N If yes, where _____		
Any ill household members in the last week: Y N If yes, who _____ Date: ____/____/____		
AGENCIES NOTIFIED <input type="checkbox"/> MDH-EHS <input type="checkbox"/> MDH-District Office <input type="checkbox"/> MN Dept of Ag <input type="checkbox"/> FDA <input type="checkbox"/> USDA <input type="checkbox"/> Local Agencies: _____		
Comments _____		

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HISTORY OF OTHERS ILL		Original Complainant's Name: _____
First name: _____	Last name: _____	Age: _____
Address: _____		Phone: _____
Illness Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
Vomiting <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
Diarrhea <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
# of stools per 24-hr. period (max): _____ Cramps <input type="checkbox"/> Y <input type="checkbox"/> N Fever <input type="checkbox"/> Y <input type="checkbox"/> N (temp: _____) Bloody stools <input type="checkbox"/> Y <input type="checkbox"/> N		
Other symptoms: _____		
Meals in common:		Incubation
Meal 1: location: _____ food/drinks: _____		_____
Meal 2: location: _____ food/drinks: _____		_____
Meal 3: location: _____ food/drinks: _____		_____

First name: _____	Last name: _____	Age: _____
Address: _____		Phone: _____
Illness Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
Vomiting <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
Diarrhea <input type="checkbox"/> Y <input type="checkbox"/> N Onset: ____/____/____ Time: _____		Recovery: ____/____/____ Time: _____
# of stools per 24-hr. period (max): _____ Cramps <input type="checkbox"/> Y <input type="checkbox"/> N Fever <input type="checkbox"/> Y <input type="checkbox"/> N (temp: _____) Bloody stools <input type="checkbox"/> Y <input type="checkbox"/> N		
Other symptoms: _____		
Meals in common:		Incubation
Meal 1: location: _____ food/drinks: _____		_____
Meal 2: location: _____ food/drinks: _____		_____
Meal 3: location: _____ food/drinks: _____		_____

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Original Complainant's Name: _____

RETAIL FOOD PRODUCT COMPLAINT *(please fill in as much information as you can)*

Name of product (please be specific): _____

Brand of product: _____

Manufacturer and/or distributor information (name and address): _____

Container type, size and weight (18 oz. plastic bottle, 1 lb. paper carton, etc.): _____

USDA establishment number (if a packaged meat product): _____

UPC code (12-digit bar code): _____

Product/Lot/Best if Used By Date (BIUB) code: _____

Purchase location (name of store): _____

Address of purchase location: _____

Purchase date: _____

Does consumer still have the product or other containers of the same product? : _____

Other information: _____



Appendix 3a: Submitting a Stool Sample to MDH (English)

You can also watch 'how to submit a stool sample for testing' on youtube at [health.mn.gov/stool](https://www.health.mn.gov/stool) or scan the QR Code



1. Please write name, date of birth, and collection date on the top part of lab slip (these are required by the laboratory for testing).



2. Write first name, last name, and date of birth on the vial.



3. Place collection container on toilet seat as shown. Deposit stool in tissue part.



4. Unscrew vial cap. Use scoop attached under cap to fill vial with stool until fluid reaches the red line. Put cap back on the vial.



5. Remove tissue part of collection device from cardboard part. Flush tissue and throw cardboard in trash.



6. Place vial into clear plastic biohazard bag along with the absorbent cloth. Seal clear plastic biohazard bag. Wash hands thoroughly with soap and water.



7. Place sealed clear plastic biohazard bag into the white biohazard envelope. Also place the completed lab slip in the white biohazard envelope. Seal the envelope.

8. Place white biohazard envelope in the box. Close the box (instructions on box). Place the box in a mailbox.

Please call 651-201-5655 if you have any questions. Thank you.



Appendix 3b: Submitting a Stool Sample to MDH (Spanish)

Instrucciones Para Enviar Una Muestra fecal (Excremento) al Departamento de Salud de Minnesota

You can also watch 'How to Submit a Stool Sample for Testing' on YouTube at health.mn.gov/stool or scan the QR code →

También puede ver el video "How to Submit a Stool Sample for Testing" en YouTube @ health.mn.gov/stool o escanee el código QR →



1. Please write name, date of birth, and collection date on the top part of lab slip (these are required by the laboratory for testing).

Por favor, complete la porción blanca del formulario de laboratorio. Escriba su nombre, fecha de nacimiento, y fecha de recolección de la muestra (el laboratorio requiere estos datos para hacer los exámenes de las muestras fecales).



2. Write first name, last name, and date of birth on the vial.

Escriba su nombre, apellido, y fecha de nacimiento en el frasco.



3. Place collection container on toilet seat as shown. Deposit stool in tissue part. ***Coloque el recolector de muestra fecal en el inodoro/lavabo. Deposite las heces (excremento) en la parte de papel.***



4. Unscrew vial cap. Use scoop attached under cap to fill vial with stool until fluid reaches the red line. Put cap back on the vial.

Desenrosque la tapa del frasco. Use la cucharita que está adherida a la tapa para traspasar el excremento al frasco. Llene el frasco hasta que el líquido llegue a la raya roja. Tape de nuevo el frasco asegurándose que la tapa está bien enroscada.



5. Remove tissue part of collection device from cardboard part. Flush tissue and throw cardboard in trash.

Remueva la parte de papel del recolector de muestra fecal y descártela en el inodoro/lavabo. Tire la parte de cartón en la basura.

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6. Place vial into clear plastic biohazard bag along with the absorbent cloth. Seal clear plastic biohazard bag. Wash hands thoroughly with soap and water.

Coloque el frasco y el papel absorbente dentro de la bolsa plástica que dice "biohazard". Cierre la bolsa. Lávese las manos con agua y jabón.



7. Place sealed clear plastic biohazard bag into the white biohazard envelope. Also place the completed lab slip in the white biohazard envelope. Seal the envelope.

Coloque la bolsa de plástico dentro del sobre blanco. También coloque el formulario de laboratorio dentro del sobre. Cierre el sobre.

8. Place white biohazard envelope in the box. Close the box (instructions on box). Place the box in a mailbox.

Coloque el sobre dentro de la caja. Cierre la caja. Coloque la caja en el correo (no tiene que ponerle estampillas o pagar por el envío).

Please call 651-201-5655 with questions. Thank you.

Por favor llame al 651-201-5655 si tiene preguntas. Muchas Gracias.



Appendix 4: Patron Tennessen Warning

Outbreak name:

Principal investigator:

[Month/Year]

We are investigating some reports of possible foodborne illness and are interviewing people who ate at:

For your protection, before beginning an interview, we are required to give you the following information regarding your participation in this investigation and your right to privacy.

We are collecting this information to determine what the cause of this reported illness may be. All information we collect about your health is private; the only persons who will have access to this information will be public health staff from the Minnesota Department of Health and staff from local public health agencies who work on this investigation. Under no conditions will your name be released to anyone else without your permission. You are under no obligation to participate in this investigation. There is no penalty if you choose not to participate in this investigation. However your participation may help us identify an outbreak of foodborne illness, identify its cause, and prevent further illness.



Appendix 5: Patron Interview Form

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

Date of Interview: ____/____/____ Interviewer: _____ ☐ Tennessee

PATRON INTERVIEW
Anytown, MN
July 2022

Name: _____ Age ____ Sex: F M

Street: _____ City: _____ County: _____

State: ____ Zip code: _____ Phone (H) _____ (W) _____

Race: _____ If Asian or African, Specify: _____ Ethnicity: Hispanic or Non-Hispanic

Illness Onset: ____/____/____	Time: _____	Recovery: ____/____/____	Time: _____
Vomiting <input type="checkbox"/> Y <input type="checkbox"/> N	Onset: ____/____/____	Time: _____	Recovery: ____/____/____ Time: _____
Diarrhea <input type="checkbox"/> Y <input type="checkbox"/> N	Onset: ____/____/____	Time: _____	Recovery: ____/____/____ Time: _____
Number of stools per 24 hour period: _____		Diarrhea duration: _____ days/hours	
Bloody stools <input type="checkbox"/> Y <input type="checkbox"/> N	Cramps <input type="checkbox"/> Y <input type="checkbox"/> N	Fever <input type="checkbox"/> Y <input type="checkbox"/> N	Temperature _____ °F
First Symptom: _____		Onset Date: ____/____/____ Time: _____	
Other Symptoms: _____		Onset Date: ____/____/____ Time: _____	
Called Provider: <input type="checkbox"/> Y <input type="checkbox"/> N	Visited Provider: <input type="checkbox"/> Y <input type="checkbox"/> N	Office / ER	Date of Visit: ____/____/____
Provider requested stool sample: <input type="checkbox"/> Y <input type="checkbox"/> N		Stool submitted: <input type="checkbox"/> Y <input type="checkbox"/> N	Hospitalized: <input type="checkbox"/> Y <input type="checkbox"/> N

Are you willing to submit a stool sample for testing? ☐Y ☐N

Meal Date: ____/____/____ Meal Time: _____

Meal Date: ____/____/____ Meal Time: _____
(Some people take leftovers home ... get multiple meal dates/times!)

<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	OTHER FOOD: _____
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	_____
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	BEVERAGES <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Water <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Pop (Type: _____) <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Wine <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Beer <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Mixed drink: _____ <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Any garnishes: _____ <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U
<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U	Other Beverage: _____ <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> U

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Did anyone in your household experience gastrointestinal illness in the week prior to this meal?

☐ Y ☐ N

Name and relationship

Age

Onset date

_____	_____	____/____/____
_____	_____	____/____/____
_____	_____	____/____/____

Were there other people in your party at the restaurant? If so, are you willing to provide contact information for them?

Name _____ Phone number _____

Name _____ Phone number _____

Name _____ Phone number _____

Name _____ Phone number _____



Appendix 6: Guidance for Writing Foodborne and Waterborne Outbreak Reports

Title

- Pathogen
- Establishment Name or Event
- County
- Month/Year

Background

- Date and source of initial complaint (e.g., hotline, restaurant) or date the investigating agency was notified of the outbreak
- Place of exposure (e.g., event, restaurant) and date
- Reported illness onset date
- Date investigation initiated
- Agencies notified

Methods

- Environmental health measures and dates implemented, including measures such as:
 - Visiting the facility and conducting an environmental assessment
 - Evaluation of food preparation and handling procedures
 - Gathering specific information if the incident was an event
 - Checking illness logs
 - Asking about patron complaints
- Interviews of food workers, and agency or agencies that conducted the interviews
- Acquisition of contact list of patrons, such as credit card receipts from restaurant, reservation lists, or attendee list from host
- Patron interviews to obtain information on food/beverage consumption and illness history, and agency that conducted the interviews
- Case definition (e.g., vomiting and/or diarrhea (≥ 3 stools in a 24-hour period)), including time definition if relevant
- Information regarding stool samples submitted to the MDH Public Health Laboratory for testing, and pathogens for which the specimens were tested (i.e., bacterial, viral, parasitic, bacterial toxins, or other testing)

- Food testing conducted, pathogens for which the specimens were tested, and agency that collected the food specimens and conducted the testing

Results

- Total number of interviews conducted
 - Number and percent that met the case definition
 - Number of attendees that reported illness that did not meet the case definition and were excluded from analyses
- Number and percent of cases reporting each specific symptom (e.g., diarrhea, vomiting, abdominal cramps, fever, bloody stools, and/or rash (in descending order of frequency))
- Median incubation and range in hours
- Median duration and range of illness in hours
- Number of cases that sought health care, number of cases that were hospitalized, and/or number of cases that died
- Number of stool specimens that were submitted to MDH and test results
- Food consumed/event menu
 - Who prepared the food
 - How the food was served (e.g., plated, buffet, self-serve)
- Results of analytical study, and type of analysis conducted (e.g., univariate analysis, multivariate analysis)
 - Food item, event, or exposure that was significantly associated with illness
 - Proportion of case and proportion of controls that reported the exposure of interest; odds ratio; 95% confidence interval, and p-value
- Employee illness reported previous to, on or after the implicated meal date
 - Total number of employees and number interviewed
 - Number of ill employees
 - Onset date of illness, food preparation duties, and if they worked while ill
 - Test results for food workers if tested
- Results of environmental health assessment/inspection
 - Any violations found pertinent to the outbreak
 - Interventions put into place (e.g., if ready-to-eat foods prepared during certain time frame were discarded, and any educational measures)
- Food recalls, press releases, and/or public notices and agencies involved in those actions

Conclusions

- State if this was a foodborne or waterborne outbreak, or other route of transmission
- Etiology of the outbreak (what pathogen was confirmed or suspected to have caused the illnesses)
- Source of the outbreak or factors contributing to the outbreak, such as ill employees, cross-contamination, inappropriate food temperatures
- Implicated food vehicle or exposure if identified
- Defense of conclusion, if needed (e.g., how do the symptoms, incubation period, and duration suggest a particular pathogen?)

***** If you would like to reference an actual outbreak report, feel free to contact the MDH FWVZD Section to request one. *****



Appendix 7: Outbreak Classifications

Outbreaks are classified based on the outbreak's 1) etiologic agent and 2) transmission route.

Etiologic Agent Classifications

Laboratory-Confirmed Agent: Outbreaks in which laboratory evidence of a specific etiologic agent is obtained

Epidemiologically Defined Agent: Outbreaks in which the clinical and epidemiologic evidence defines a likely agent, but laboratory confirmation is not obtained

Outbreak of Undetermined Etiology: Outbreaks in which laboratory confirmation is not obtained and clinical and epidemiologic evidence cannot define a likely agent

Transmission Route Classifications

Confirmed Foodborne Outbreak: A confirmed foodborne disease outbreak is defined as an incident in which two or more persons experience a similar illness after ingestion of a common food or meal; and epidemiologic evaluation implicates the meal or food as the source of illness. Confirmed outbreaks may or may not be laboratory-confirmed.

Probable Foodborne Outbreaks: A probable foodborne disease outbreak is defined as an incident in which two or more persons experience a similar illness after ingestion of a common food or meal, and a specific food or meal is suspected, but person-to-person transmission or other exposures cannot be ruled out.

Confirmed and Probable Waterborne Outbreaks: These are similar to foodborne outbreaks, except that epidemiologic analysis implicates water as the source of illness. Waterborne outbreaks may be associated with drinking water or with recreational water.

Confirmed and Probable Animal Contact Outbreaks: Outbreaks are considered to be due to animal contact if two or more persons experience a similar illness after exposure to live animals or animal environments.

Environmental Outbreaks: These are outbreaks where epidemiologic analysis implicated exposure to a contaminated environment as the route of infection. Other outbreaks with environmental sources (e.g., blastomycosis, histoplasmosis) are also included in this category.

Gastroenteritis Outbreaks due to Person-to-Person Transmission: These outbreaks are defined as two or more cases of gastrointestinal illness related by time and place in which an epidemiologic evaluation suggests person-to-person transmission occurred and was the primary mode.

Outbreaks with Other or Unknown Routes of Transmission: This category also includes gastroenteritis outbreaks for which the route of transmission could not be determined.

Note: An outbreak with ice as the implicated vehicle is considered foodborne (not waterborne). An outbreak associated with raw animal products or dead animals intended for consumption is considered foodborne (not animal contact).



Appendix 8: MOU between the Minnesota Department of Health and the Minnesota Department of Agriculture Concerning the Investigation of Foodborne Illnesses

DocuSign Envelope ID: C974F28C-0356-481C-8665-AF534ED01983

Memorandum of Understanding (MOU) between the Minnesota Department of Health and the Minnesota Department of Agriculture Concerning the Investigation of Foodborne Illnesses

I. GENERAL

The purpose of this MOU is to clarify the respective responsibilities of the Minnesota Department of Agriculture ("Agriculture") and the Minnesota Department of Health ("Health") in the surveillance for and investigation of foodborne illnesses, and in furtherance of such purpose, to broaden cooperative efforts between the two agencies.

Responsible Agencies

Under Minnesota Statutes Chapter 17 and Chapters 25 through 34A, Agriculture has the authority to license, inspect, and regulate dairy, meat, food- and feed-processing facilities. Under Minnesota Statutes, sections 157.15, 157.16 and 144.99, Health has the authority to license, inspect, and regulate restaurants, bars, mobile food vehicles, and other types of food service facilities. Health is also responsible for surveillance and investigation of foodborne illnesses.

Jurisdiction

This MOU applies to investigations of foodborne illnesses conducted by Agriculture, including delegated local health units, and Health that are associated with food in commerce in Minnesota.

Effective Date

This agreement will be effective upon signature of both parties to the agreement.

Legal Authority

Minnesota Statutes Section 17.03, Subd.11.(3) and Minnesota Statutes, Section 144.05 Subd. 2 provide authority for Agriculture and Health to enter into this MOU.

Non-Binding Agreement

It is the intent of the parties to this MOU that it set forth the roles of each party in investigation of foodborne illnesses conducted by Agriculture and Health and associated with food in commerce in Minnesota. The parties do not intend this MOU to be a binding document enforceable by a court.

OUTBREAK PROTOCOL APPENDICES

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II. RESPONSIBILITIES AND IMPLEMENTATION

Determination of Responsibility

When a food-related illness is associated with a food product or facility regulated by Agriculture, Health will be responsible for conducting the epidemiologic investigation. Health will provide relevant illness, exposure, and epidemiologic hypothesis information to Agriculture.

Agriculture will be responsible for conducting an investigation at the food-processing facility, food produced on farm, cottage food producers, food warehouse, or retail food establishment and those exempt from licensing under the authority of MDA. Agriculture will send a copy of these reports to Health. Agriculture will also coordinate any resulting actions to remove the contaminated food from distribution. When documents are required from a the food-processing facility, food produced on farm, cottage food producers, food warehouse, or retail food establishment and those exempt from licensing establishment located or headquartered outside of Minnesota, Agriculture will coordinate the obtainment of these documents directly from the firm or through the state or federal agency with regulatory jurisdiction. Agriculture will send a copy of these documents to Health as permitted by law.

Laboratory support for investigations will be coordinated by each agency under separate existing agreements.

Implementation

Agriculture will define areas of responsibility and inform its field representatives and delegated local health units of these responsibilities. Health will define areas of responsibility and inform its field representatives and delegated local health units. Responsibilities of other State and Federal agencies also will be identified and communicated.

Health, Agriculture, and local health units will provide or sponsor joint training sessions in the interpretation and application of principles, regulations, standards, and techniques of common concern or interest.

III. MECHANISM FOR INFORMATION EXCHANGE

Health, Agriculture, and each local health unit will maintain rosters of staff responsible for foodborne illness investigations and make such rosters available to each other.

If Agriculture becomes aware of actual or suspected cases of foodborne illness, it will collect contact information and forward it to Health through its statewide Foodborne Illness Hotline.

OUTBREAK PROTOCOL APPENDICES

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If Health becomes aware of illnesses believed to be caused by food in commerce in Minnesota, it will immediately report such cases in person, by telephone, or by e-mail to Agriculture.

Health and Agriculture will jointly investigate and complete final reports involving illnesses that occur at, or due to, establishments regulated by Agriculture. These reports will be forwarded to Agriculture and to Health.

If, during the course of the investigation, a definitive food vehicle is known or suspected to be still be in commerce or available for consumption, Agriculture and Health will discuss the need to notify the public either jointly or independently. Consumer advisories and press releases will be drafted in accordance to agency policies and shared with each agency prior to release.

Whenever one agency learns of an FDA Class I or similar recall of food or food products distributed in Minnesota that are known to have caused human illness, it will immediately notify the other agency of such recall. Throughout the recall process, both agencies at all levels will make a maximum effort to keep the other agency informed and cooperate in every way possible to expedite the removal of hazardous food in the marketplace.

IV. MECHANISM FOR EMBARGO/SEIZURE OF FOOD SOURCES IMPLICATED IN EPIDEMIOLOGIC INVESTIGATIONS

Epidemiologic Investigation

Health will investigate foodborne disease outbreaks. Health will notify Agriculture of all ongoing investigations where a contaminated food source under the jurisdiction of Agriculture is the suspected cause of a disease outbreak. Agriculture will provide assistance in the investigation and will play the lead role in tracing contaminated foods back to their source by visiting regulated retailers, wholesalers, farm producers, cottage food producers and manufacturers to review and obtain records that document the chain of distribution for the products. Agriculture will coordinate with Health on any product tracing investigations conducted at Health-regulated establishments. Agriculture will summarize source investigations and provide those summaries to Health. Health will analyze the findings of the epidemiologic and source investigations and make a determination as to the likelihood of a causal association between the illness outbreak and a specific food exposure.

Embargo, Seizure, Recall, and Public Notification

Based on the information from Health and determination by Agriculture that a violation of law has occurred, and based on the authority in Minnesota State Statutes Sections 31.09, 31A.22, 31A.23, and 32.21, 34A.11, Agriculture will authorize condemnation, seizure, detain, or embargo proceedings of such food. Health will assist in cases involving such seizures, quarantines, destructions and embargos by taking reasonable efforts to assure the removal

OUTBREAK PROTOCOL APPENDICES

DocuSign Envelope ID: C974F28C-0356-481C-8665-AF534ED01983

f any remaining contaminated food from food service establishments. Where circumstances allow, Health and Agriculture will work cooperatively during situations when it is in the best interests of both agencies and the general public to do so.

V. REVIEW OF AGREEMENT

This agreement between the two departments will be reviewed biennially by both Agriculture and Health and make any necessary changes to this agreement.

VI. TERMINATION OF AGREEMENT

This agreement between the two departments will be reviewed biennially by both Agriculture and Health and changes made as necessary with respect to this agreement.

For the Department of Agriculture Food and Feed Safety Division (FFSD)

Signature Katherine Simon
Title FFSD Division Director
Date 2/23/2021

For the Department of Agriculture Dairy and Meat Inspection Division (DMID)

Signature Nicole Neeser
Title DMID Division Director
Date 2/23/2021

For the Department of Health

Signature Kirk Smith
Title Program Manager
Date 2/23/2021



Appendix 9: Statutory Authority Letter

Foodborne Illness Investigation Procedure

<<Date>>

To Whom It May Concern:

The Minnesota Department of Health (MDH) has undertaken an investigation into a potential outbreak of foodborne illness among individuals who ate at the << Restaurant>> in <<City>>, Minnesota on <<Date>>. Based on the past experience and expertise of MDH staff, this outbreak may represent an ongoing health threat that requires intervention. Accordingly, MDH would like to contact as soon as possible a sample of individuals who ate at this establishment. Information requested includes names and phone numbers of those who were at the restaurant. Data collected will be maintained as private, in accordance with the Minnesota Government Data Privacy Act. MDH has authority to undertake this investigation and collect private data under Minn. Stat. 144.05, subd. 1, 144.053, and Minn. Rules part 4605.7500.

For purposes of this investigation, the Commissioner of Health has authorized staff in the Infectious Disease Epidemiology, Prevention, and Control Division (IDEPC) of MDH to receive and utilize this data. In accordance with departmental practices policy, the private data collected will only be disseminated within MDH and local public health agencies on a need-to-know basis. In the event of subsequent legal actions, the private data will be protected from discovery under Minn. Stat. Section 144.658.

Thank you for your cooperation in this matter. As soon as you have this information ready, please fax it to <<Epidemiologist>> at 651-201-5082. If you have any further questions, please give us a call at 651-201-5414.

Sincerely,

<<Name>>

Epidemiologist
Minnesota Department of Health
625 Robert St. N
St. Paul, MN 55155
www.health.state.mn.us



Appendix 10a: Employee Illness Screening Form for Norovirus (English)

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 72 hours, has the employee experienced any of the symptoms listed below?
 - Employees with any of the symptoms listed below cannot return to work for at least 72 hours after symptoms end.
 - If an employee has experienced one of the symptoms below, notify your health inspector.
- The PIC and employee should initial each entry.

Employee Name	Date	Vomiting (Y/N)	Diarrhea (Y/N)	Employee Initials	PIC Initials

OUTBREAK PROTOCOL APPENDICES



Appendix 10b: Employee Illness Screening Form for Norovirus (Hmong)

To obtain this document, please see:

[Daim Ntawv Ntsuas Tus Neeg Ua Haujlwm Mob Norovirus \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillnorofmhm.pdf>)



Daim Ntawv Ntsuas Tus Neeg Ua Haujlwm Mob Norovirus Employee Illness Screening Form for Norovirus

Hmong

Siv daim ntawv no rau lub sijhawm txhawj xeeb txog tus neeg ua haujlwm li kev mob kev nkeeg. Chav ua haujlwm noj qab nyob zoo (health department) mam li qhia rau tus neeg uas yog tus coj (PIC) seb thaum twg thiaj li yuav tsis siv daim ntawv no lawm.

Lus Qhia

Tus PIC yuav nug cov lus nug tom ntej no rau txhua tus neeg ua haujlwm ua ntej lawv pib lawv lub sijhawm haujlwm:

- 72 xaub moos dhau los, tus neeg ua haujlwm puas tau muaj tej tsos mob li nram qab no?
- Cov neeg ua haujlwm uas muaj cov tsos mob li hauv qab no, yuav tsis pub lawv ua haujlwm kom txog txij li 72 xaub moos tom qab lawv tsis muaj tej tsos mob no lawm.
- Yog tias koj ib tus neeg ua haujlwm tau muaj cov tsos mob li hauv qab no, qhia rau koj tus kws tshuaj ntsuam kev noj qab nyob zoo (health inspector) paub.
- Tus PIC thiab tus neeg ua haujlwm yuav tsum initial lossis kos lawv npe rau txhua kab.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 72 hours, has the employee experienced any of the symptoms listed below?
- Employees with any of the symptoms listed below cannot return to work for at least 72 hours after symptoms end.
- If an employee has experienced one of the symptoms below, notify your health inspector.
- The PIC and employee should initial each entry.

Tus Neeg Ua Haujlwm Npe (Employee Name)	Hnub tim (Date)	Ntuav (Vomiting) (Y/N)	Raws Plab (Diarrhea) (Y/N)	Tus neeg ua haujlwm kos thawj tus tsiaj ntawv ntawd nws lub npe (Employee Initials)	Cov tsiaj ntawv ntawm tus neeg uas yog tus PIC npe (PIC Initials)

OUTBREAK PROTOCOL APPENDICES

DAIM FOOS NTSUAS TUS NEEG UA HAUJLWM MOB NOROVIRUS | EMPLOYEE
ILLNESS SCREENING FORM FOR NOROVIRUS

[illegible]

Minnesota Department of Health
Food, Pools, and Lodging Services
PO Box 64975
St. Paul, MN 55164-0975
651-201-4500
health.foodlodging@state.mn.us
www.health.state.mn.us

LUB 1 HLIS XYOO 2019

Xav tau cov ntaub ntawv no ua lwm hom, hu rau:
651-201-4500 or 651-201-6000.

JANUARY 2019

To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.




Appendix 10c: Employee Illness Screening Form for Norovirus (Spanish)

To obtain this document, please see:

[Formulario de Detección de Enfermedades de los Empleados - Norovirus \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillnorofmsp.pdf>)



Formulario de Detección de Enfermedades de los Empleados - Norovirus

Employee Illness Screening Form for Norovirus

Spanish

Este formulario debe usarse cuando se tiene una preocupación muy grande con respecto a la enfermedad del empleado. El departamento de salud le notificará a la persona a cargo (PIC) cuándo debe dejar de usar este formulario.

Instrucciones

La PIC le hará la siguiente pregunta a cada uno de los empleados antes de que empiecen sus respectivas guardias:

- ¿Durante las últimas 72 horas, el empleado ha experimentado alguno de los síntomas que aparecen a continuación?
- Los empleados que tengan alguno de los síntomas que se enumeran a continuación no podrán regresar al trabajo antes de, cuando menos, 72 horas después de haber desaparecido los síntomas.
- Si un empleado ha tenido alguno de los síntomas siguientes, notifíquelo a su inspector de salud.
- La PIC y el empleado deben confirmar cada anotación con sus iniciales.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 72 hours, has the employee experienced any of the symptoms listed below?
- Employees with any of the symptoms listed below cannot return to work for at least 72 hours after symptoms end.
- If an employee has experienced one of the symptoms below, notify your health inspector.
- The PIC and employee should initial each entry.

Nombre del empleado (Employee Name)	Fecha (Date)	Vómitos (Sí o No) (Vomiting (Y/N))	Diarrea (Sí o No) (Diarrhea (Y/N))	Iniciales del Empleado (Employee Initials)	Iniciales de la Persona a Cargo (PIC) (PIC Initials)

1

OUTBREAK PROTOCOL APPENDICES

FORMULARIO DE DETECCIÓN DE ENFERMEDADES DE LOS EMPLEADOS -
NOROVIRUS | EMPLOYEE ILLNESS SCREENING FORM FOR NOROVIRUS

[illegible]

Minnesota Department of Health
Food, Pools, and Lodging Services
PO Box 64975
St. Paul, MN 55164-0975
651-201-4500
health.foodlodging@state.mn.us
www.health.state.mn.us

ENERO DE 2019

Para obtener esta información en otro formato,
llame al 651-201-4500 or 651-201-6000.

JANUARY 2019

To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.



Appendix 10d: Employee Illness Screening Form for Norovirus (Somali)

To obtain this document, please see:

[Foomka Baaritaanka Caafimaadka Shaqaalaha ee Norovirus \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillnorofmso.pdf>)

DEPARTMENT OF HEALTH

Foomka Baaritaanka Caafimaadka Shaqaalaha ee Norovirus

Employee Illness Screening Form for Norovirus

Somali

Foomkaan waxaa la adeegsadaa inta lagu jiro marka ay barato walaaca xanuunka shaqaalaha. Waaxda caafimaadka ayaa u sheegi doonta qofka masuuliyada leh (PIC) marka la joojinaayo adeegsiga foomkaan.

Tilmaamaha

PIC ayaa su'aasha soo socota waydiin doona shaqaale kasta kahor intuu bilaabin tookadiisa shaqada:

- 72 saacadood ee lasoo dhaafay, shaqaaluhu ma qabay wax kamid ah astaamaha hoos ku qoran?
 - Shaqaalaha qaba wax kamid ah astaamaha hoos ku qoran kuma laaban karaan shaqada ugu yaraan 72 saacadood kadib marka xanuunku ka ba'o.
 - Haddii shaqaale qabo wax kamid ah astaamaha hoose, u sheeg kormeerahaaga caafimaadka.
- PIC iyo shaqaaluhu waa inay saxiixaan qayb kasta.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 72 hours, has the employee experienced any of the symptoms listed below?
 - Employees with any of the symptoms listed below cannot return to work for at least 72 hours after symptoms end.
 - If an employee has experienced one of the symptoms below, notify your health inspector.
- The PIC and employee should initial each entry.

Magaca Shaqaalaha (Employee Name)	Taariikhda (Date)	Matag (haa/maya) (Vomiting (Y/N))	Shuban (haa/maya) (Diarrhea (Y/N))	Saxiixyada Shaqaalaha (Employee Initials)	Saxiixa PIC (PIC Initials)

1

FOOMKA BAARITAANKA CAAFIMAADKA SHAQAALAHA EE NOROVIRUS |
EMPLOYEE ILLNESS SCREENING FORM FOR NOROVIRUS

Minnesota Department of Health
Food, Pools, and Lodging Services
PO Box 64975
St. Paul, MN 55164-0975
651-201-4500
health.foodlodging@state.mn.us
www.health.state.mn.us

JANUARY 2019

To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.



Appendix 10e: Employee Illness Screening Form for *Salmonella* (English)

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 72 hours, has the employee experienced any of the symptoms listed below?
 - Employees with any of the symptoms listed below cannot return to work for at least 72 hours after symptoms end.
 - If an employee has experienced one of the symptoms below, notify your health inspector.
- The PIC and employee should initial each entry.

Employee Name	Date	Vomiting (Y/N)	Diarrhea (Y/N)	Fever (Y/N)	Cramping (Y/N)	Employee Initials	PIC Initials

OUTBREAK PROTOCOL APPENDICES



Appendix 10f: Employee Illness Screening Form for *Salmonella* (Hmong)

To obtain this document, please see:

[Daim Ntawv Ntsuas Tus Neeg Ua Haujlwm Mob Salmonella \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillsalmfmmh.pdf>)

Daim Ntawv Ntsuas Tus Neeg Ua Haujlwm Mob *Salmonella*

Employee Illness Screening Form for Salmonella

Hmong

Siv daim ntawv no rau lub sijhawm txhawj xeeb txog tus neeg ua haujlwm li kev mob kev nkeeg. Chav ua haujlwm noj qab nyob zoo (health department) mam li qhia rau tus neeg uas yog tus coj (PIC) seb thaum twg thiaj li tsis siv daim ntawv no lawm.

Lus Qhia

Tus PIC yuav nug cov lus nug tom ntej no rau txhua tus neeg ua haujlwm ua ntej lawv pib lawv sij haujlwm:

2 lub lim tiam dhau los, tus neeg ua haujlwm puas tau muaj tej tsos mob li nram qab no?

- Yog tias ib tus neeg ua haujlwm twg tau muaj tej tsos mob li hauv qab no, yuav tsis pub lawv ua haujlwm thiab yuav tsum muab lawv xa mus tsev.
- Tus PIC yuav tsum qhia rau chav ua haujlwm noj qab nyob zoo (health department) txog seb thaum twg mam li rov pub cov neeg no rov qab ua haujlwm.

Tus PIC thiab tus neeg ua haujlwm yuav tsum initial lossis kos lawv npe rau txhua kab.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

In the last 2 weeks, has the employee experienced any of the symptoms listed below?

- If an employee has any of the symptoms listed below, they cannot work and should be sent home immediately.
- The PIC must contact the health department for further instructions before employees with any of the symptoms listed below can return to work.

The PIC and employee should initial each entry.

Tus Neeg Ua Haujlwm Npe (Employee Name)	Hnub tim (Date)	Ntuav (Y/N) (Vomiting (Y/N))	Raws Plab (Y/N) (Diarrhea (Y/N))	Ua Npaws (Y/N) (Fever (Y/N))	Mob Plab Tej Zag Tej Zag (Y/N) (Cramping (Y/N))	Tus neeg ua haujlwm kos thawj tus tsiaj ntawv ntawd nws lub npe (Employee Initials)	Cov tsiaj ntawv ntawm tus neeg uas yog tus PIC npe (PIC Initials)

1

DAIM FOOS NTSUAS TUS NEEG UA HAUJLWM MOB SALMONELLA | EMPLOYEE
ILLNESS SCREENING FORM FOR SALMONELLA[illegible]

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JANUARY 2019

To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.




Appendix 10g: Employee Illness Screening Form for *Salmonella* (Spanish)

To obtain this document, please see:

[Formulario de Detección de Enfermedades de los \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillsalmfmsp.pdf>)



Formulario de Detección de Enfermedades de los Empleados - *Salmonella*

Employee Illness Screening Form for Salmonella

Spanish

Este formulario debe usarse cuando se tiene una preocupación muy grande con respecto a la enfermedad del empleado. El departamento de salud le notificará a la persona a cargo (PIC) cuándo debe dejar de usar este formulario.

Instrucciones

La PIC le hará la siguiente pregunta a cada uno de los empleados antes de que empiecen sus respectivas guardias:

- ¿Durante las últimas dos semanas el empleado ha experimentado alguno de los síntomas que aparecen a continuación?
 - Si un empleado ha tenido alguno de los síntomas que se enumeran a continuación, no puede seguir trabajando y se le debe enviar a casa de inmediato.
 - La PIC debe contactar al departamento de salud para que le den instrucciones adicionales antes que los empleados que han tenido cualquiera de los síntomas puedan volver al trabajo.
 - La PIC y el empleado deben confirmar cada anotación con sus iniciales.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 2 weeks, has the employee experienced any of the symptoms listed below?
 - If an employee has any of the symptoms listed below, they cannot work and should be sent home immediately.
 - The PIC must contact the health department for further instructions before employees with any of the symptoms listed below can return to work.
 - The PIC and employee should initial each entry.

Nombre del empleado (Employee Name)	Fecha (Date)	Vómitos (Sí o No) (Vomiting (Y/N))	Diarrea (Sí o No) (Diarrhea (Y/N))	Fiebre (Sí o No) (Fever (Y/N))	Retortijones (Sí o No) (Cramping (Y/N))	Iniciales del Empleado (Employee Initials)	Iniciales de la Persona a Cargo (PIC) (PIC Initials)

1

OUTBREAK PROTOCOL APPENDICES

FORMULARIO DE DETECCIÓN DE ENFERMEDADES DE LOS EMPLEADOS - SALMONELLA | EMPLOYEE ILLNESS SCREENING FORM FOR SALMONELLA

Nombre del empleado (Employee Name)	Fecha (Date)	Vómitos (Sí o No) (Vomiting (Y/N))	Diarrea (Sí o No) (Diarrhea (Y/N))	Fiebre (Sí o No) (Fever (Y/N))	Retortijones (Sí o No) (Cramping (Y/N))	Iniciales del Empleado (Employee Initials)	Iniciales de la Persona a Cargo (PIC) (PIC Initials)

Minnesota Department of Health
Food, Pools, and Lodging Services
PO Box 64975
St. Paul, MN 55164-0975
651-201-4500
health.foodlodging@state.mn.us
www.health.state.mn.us

ENERO DE 2019

*Para obtener esta información en otro formato,
llame al 651-201-4500 or 651-201-6000.*

JANUARY 2019

*To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.*



Appendix 10h: Employee Illness Screening Form for *Salmonella* (Somali)

To obtain this document, please see:

[Foomka Baaritaanka Caafimaadka Shaqaalaha ee Salmonella \(PDF\)](#)

(<https://www.health.state.mn.us/communities/environment/food/docs/empillsalmfmso.pdf>)

Foomka Baaritaanka Caafimaadka Shaqaalaha ee *Salmonella*

Employee Illness Screening Form for Salmonella

Somali

Foomkaan waxaa la adeegsadaa inta lagu jiro marka ay badato walaaca xanuunka shaqaalaha. Waaxda caafimaadka ayaa u sheegi doonta qofka masuuliyada leh (PIC) marka la joojinaayo adeegsiga foomkaan.

Tilmaamaha

PIC ayaa su'aasha soo socota waydiin doonta shaqaale kasta kahor intuuusan bilaabin tookadiisa shaqada:

- 2 asbuuc ee lasoo dhaafay, shaqaaluhu ma qabay wax kamid ah astaamaha hoos ku qoran?
- Haddii shaqaale qabo wax kamid ah astaamaha hoos ku qoran, ma shaqayn karo waana in guriga loo diraa isla markaaba.
- PIC waa qasab inuu la xariiro waaxda caafimaadka si tilmaamo dheeraad ah loo siiyo kahor intaan shaqaalaha qaba wax kamid ah astaamaha hoos ku qoran ku laaban shaqada.
- PIC iyo shaqaaluhu waa inay saxiixaan qayb kasta.

English

This form is for use during times of elevated concern for employee illness. The health department will notify the person in charge (PIC) when to discontinue using this form.

Instructions

The PIC will ask the following question of each employee before they begin each of their shifts:

- In the last 2 weeks, has the employee experienced any of the symptoms listed below?
- If an employee has any of the symptoms listed below, they cannot work and should be sent home immediately.
- The PIC must contact the health department for further instructions before employees with any of the symptoms listed below can return to work.
- The PIC and employee should initial each entry.

Magaca Shaqaalaha (Employee Name)	Taariikhda (Date)	Matag (haa/maya) (Vomiting (Y/N))	Shuban (haa/maya) (Diarrhea (Y/N))	Qandho (haa/maya) (Fever (Y/N))	Nabar caloosha ka haya (haa/maya) (Cramping (Y/N))	Erayada hore ee magaca shaqaalaha (Employee Initials)	Erayada hore ee magaca PIC (PIC Initials)

1

FOOMKA BAARITAANKA CAAFIMAADKA SHAQAALAHA EE SALMONELLA |
EMPLOYEE ILLNESS SCREENING FORM FOR SALMONELLA[illegible]

JANAAYO 2019


JANUARY 2019

To obtain this information in a different format, call:
651-201-4500 or 651-201-6000.



Appendix 11a: Employee Interview Norovirus (English)

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

	Date of Interview: ____/____/____ Interviewer: _____																														
FACILITY NAME FACILITY LOCATION Employee Interview Form																															
<p>The Minnesota Department of Health (MDH) and [LOCAL PUBLIC HEALTH] are working on a foodborne illness outbreak investigation that may be associated with the facility where you work. The purpose of the investigation is to learn the source of the outbreak and stop transmission. We want to ask you questions about your work duties in food service and any recent illness you have had.</p>																															
<p>PRIVACY: Any information you give to us about yourself (including test results) is considered private data. Only public health officials involved in this outbreak investigation will have access to the private data. Do we have your permission to also share this information with management staff at the facility where you work? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>																															
<p>VOLUNTARY: You are not required to answer questions. However, your answers will help us understand how this outbreak happened and prevent further transmission. If you don't answer questions, you will be excluded from work because we won't know if you could spread illness to others.</p>																															
<p>Will you answer some brief questions? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p>																															
<p>STOOL SAMPLE: We may ask you to provide a stool specimen. Stools will be tested for bacterial and viral pathogens at MDH. Stool kits and testing are free of charge. You will be given results when they are available.</p>																															
<hr/>																															
Name (last, first): _____ Age: _____ Male Female Other Signature: _____ or Phone Interview (verbal consent): <input type="checkbox"/> Address: _____ City: _____ Zip: _____ Phone: _____ Job Title/Description: _____																															
<p>• Have you had any of the following symptoms since December 24?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Nausea</td> <td style="width: 10%;"><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td style="width: 70%;"></td> </tr> <tr> <td>Vomiting</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td>Onset date/time: ____/____/____ Recovery: ____/____/____</td> </tr> <tr> <td>Cramps</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td></td> </tr> <tr> <td>Diarrhea</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td>Onset date/time: ____/____/____ Recovery: ____/____/____</td> </tr> <tr> <td># stools/24 hrs</td> <td>_____</td> <td>Duration of diarrhea: _____ days/hours (if unsure of dates/times)</td> </tr> <tr> <td>Bloody stools</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td></td> </tr> <tr> <td>Fever</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td>Temperature: _____ ° F</td> </tr> <tr> <td>First symptom:</td> <td></td> <td>Onset date/time: ____/____/____</td> </tr> <tr> <td colspan="3">Other symptoms: _____</td> </tr> <tr> <td colspan="3">When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick</td> </tr> </table>		Nausea	<input type="checkbox"/> Y <input type="checkbox"/> N		Vomiting	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____	Cramps	<input type="checkbox"/> Y <input type="checkbox"/> N		Diarrhea	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____	# stools/24 hrs	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times)	Bloody stools	<input type="checkbox"/> Y <input type="checkbox"/> N		Fever	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F	First symptom:		Onset date/time: ____/____/____	Other symptoms: _____			When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick		
Nausea	<input type="checkbox"/> Y <input type="checkbox"/> N																														
Vomiting	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____																													
Cramps	<input type="checkbox"/> Y <input type="checkbox"/> N																														
Diarrhea	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____																													
# stools/24 hrs	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times)																													
Bloody stools	<input type="checkbox"/> Y <input type="checkbox"/> N																														
Fever	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F																													
First symptom:		Onset date/time: ____/____/____																													
Other symptoms: _____																															
When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick																															
<p>ILL EMPLOYEES</p> <p>• Are you willing to provide a stool sample for testing? <input type="checkbox"/> YES (contact epi) <input type="checkbox"/> NO</p> <p>• Did you visit a health care provider for the illness? <input type="checkbox"/> YES <input type="checkbox"/> NO Hospitalized overnight? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, when? ____/____/____ Where? _____ Submit a stool sample? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>• Did you work while having diarrhea and/or vomiting? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, when? _____ If no, when did you return to work? _____</p>																															

OUTBREAK PROTOCOL APPENDICES



Employee Name: _____

ALL EMPLOYEES

- Do you work at any other food service facilities? ☐ YES ☐ NO
If yes, where? _____ How often? _____
- Have any members of your household been ill with diarrhea and/or vomiting since **December 24**? ☐ YES ☐ NO
Vomiting (onset: ____ / ____) ☐ Y ☐ N Cramps ☐ Y ☐ N Fever ☐ Y ☐ N Blood in stool ☐ Y ☐ N
Diarrhea (onset: ____ / ____) ☐ Y ☐ N (# stools/24 hrs: ____)
- Do you remember any vomiting incidents at the facility? ☐ YES ☐ NO
Describe (who, where, when): _____
If yes, did you help clean up the incident? ☐ YES ☐ NO
- Have any of your co-workers been ill with vomiting and/or diarrhea? ☐ YES ☐ NO
Describe (who, when): _____

During **January 6 -- January 10**:

- Which of these dates did you work?

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

During **January 6 -- January 10**:


- Did you do any food prep? ☐ YES ☐ NO
Describe: _____
- Did you make or serve any drinks, including adding garnish or ice? ☐ YES ☐ NO
Describe: _____
- Did you prepare any ready-to-eat foods, like salads, breads, or chips (including garnishing plates and packaging to-go food)? ☐ YES ☐ NO
Describe: _____
- What were your other job duties?
Describe: _____

If you are ill with vomiting or diarrhea, it is important that you not return to work in food service for at least 72 hours after your recovery.



Appendix 11b: Employee Interview Norovirus (Spanish)

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

 <p>MDH Minnesota Department of Health</p> <p style="text-align: center;">FACILITY NAME FACILITY LOCATION</p> <p style="text-align: center;">Employee Interview Form</p> <p>The Minnesota Department of Health (MDH) and [LOCAL PUBLIC HEALTH] are working on a foodborne illness outbreak investigation that may be associated with the facility where you work. The purpose of the investigation is to learn the source of the outbreak and stop transmission. We want to ask you questions about your work duties in food service and any recent illness you have had.</p> <p><i>El Departamento de Salud de Minnesota está investigando unas quejas de enfermedades que están asociadas con el restaurante donde usted trabaja. El propósito de esta investigación es entender la causa de las enfermedades y parar la transmisión. Queremos hacerle unas preguntas sobre su trabajo y acerca de enfermedades que podría haber tenido recientemente.</i></p> <p>PRIVACY: Any information you give to us about yourself (including test results) is considered private data. Only public health officials involved in this outbreak investigation will have access to the private data. Do we have your permission to also share this information with management staff at the facility where you work? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><i>Responder a la entrevista es totalmente voluntario y toda la información que usted nos de será confidencial. Las únicas personas que podrían tener acceso a esta información son los funcionarios del Departamento de Salud. ¿Podemos compartir esta información con su jefe?</i></p> <p>VOLUNTARY: You are not required to answer questions. However, your answers will help us understand how this outbreak happened and prevent further transmission. If you don't answer questions, you will be excluded from work because we won't know if you could spread illness to others.</p> <p>Will you answer some brief questions? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p> <p><i>Si hay preguntas que no desea contestar, puede no hacerlo. Sin embargo, sus respuestas son importantes para descubrir la causa del brote y prevenir más enfermedades. Si no responde a las preguntas, usted será excluido del trabajo porque no podremos evaluar si usted puede transmitir la enfermedad a otras personas.</i></p> <p>STOOL SAMPLE: We may ask you to provide a stool specimen. Stools will be tested for bacterial and viral pathogens at MDH. Stool kits and testing are free of charge. You will be given results when they are available.</p> <p>Es posible que le pidamos una muestra de heces. Las heces serán analizadas en el Departamento de Salud de Minnesota por patógenos bacterianos y virales. Los kits para tomar las muestras de heces y los exámenes de estas muestras son gratis. Se le darán los resultados cuando estos estén disponibles.</p>	<p>Date of Interview: ____/____/____</p> <p>Interviewer: _____</p>
<p>Name (last, first): _____ Age: _____ Male Female Other Nombre (apellido, nombre) Edad Hombre Mujer Otro</p> <p>Signature: _____ or Phone Interview (verbal consent): <input type="checkbox"/> Firma Entrevista por el teléfono (consentimiento verbal)</p> <p>Address: _____ City: _____ Dirección Ciudad</p> <p>Zip: _____ Phone: _____ Código postal número de teléfono</p> <p>Job Title/Description: _____ Nombre del puesto/Descripción del trabajo</p>	



Minnesota
Department of Health

Employee Name: _____

- Have you had any of the following symptoms since _____?
¿Desde el _____, ha estado enfermo con los siguientes síntomas?

Nausea <i>Náusea</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Vomiting <i>Vómito</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____ <i>Fecha/hora comienzo Fecha/hora cuando se recuperó</i>
Cramps <i>Cólicos</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Diarrhea <i>Diarrea</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____ <i>Fecha/hora comienzo Fecha/hora cuando se recuperó</i>
# stools/24 hrs <i>¿Cuántas veces en 24 horas?</i>	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times) <i>Duración de diarrea horas/días (si no está seguro(a) de fechas/días)</i>
Bloody stools <i>¿Notó sangre en las heces?</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Fever <i>Calentura/fiebre</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F <i>Temperatura</i>
First symptom: <i>Primer síntoma</i>		Onset date/time: ____/____/____ <i>Fecha/ hora de primer síntoma</i>
Other symptoms: _____ <i>Otros síntomas</i>		
When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick <i>¿Cuándo se recuperó? Todavía tiene síntomas</i>		

ILL EMPLOYEES

- Are you willing to provide a stool sample for testing? ☐ YES (contact epi) ☐ NO
¿Estaría dispuesto(a) a dar una muestra de heces para analizar?

Did you visit a health care provider for the illness? ☐ YES ☐ NO
¿Visitó su proveedor de salud médica para esta enfermedad?

If yes, when? ____/____/____ Where? _____
¿Cuándo? ¿Dónde?

Hospitalized overnight? ☐ YES ☐ NO
¿Fue hospitalizado (pasó la noche en el hospital)?

Submit a stool sample? ☐ YES ☐ NO
¿Le dio a su médico una muestra de heces?

- Did you work while having diarrhea and/or vomiting? ☐ YES ☐ NO
¿Fue a trabajar cuando tenía diarrea/vómito?

If yes, when? _____ If no, when did you return to work? _____
¿Cuándo? ¿Cuándo regresó al trabajo?



Employee Name: _____

ALL EMPLOYEES

- Do you work at any other food service facilities? ☐ YES ☐ NO

¿Trabaja en otros restaurantes o servicios de comida?

If yes, where? _____ How often? _____

¿Dónde?

¿Cuál es su horario?

- Have any members of your household been ill with diarrhea and/or vomiting since _____? ☐ YES ☐ NO

¿Desde el _____, ha habido alguien que vive en su casa con diarrea o vómito?

Vomiting (onset: ____/____) ☐ Y ☐ N

¿En qué fecha comenzó a vomitar?

Cramps ☐ Y ☐ N

Cólicos

Fever ☐ Y ☐ N

Calentura/febre

Blood in stool ☐ Y ☐ N

¿Notó sangre en las heces?

Diarrhea (onset: ____/____) ☐ Y ☐ N (# stools/24 hrs: ____)

¿En qué fecha le comenzó la diarrea? (# en 24 horas.)

- Do you remember any vomiting incidents at the facility? ☐ YES ☐ NO

¿Usted recuerda haber visto a alguien vomitar en su trabajo?

Describe (who, where, when): _____

Describe (quién, dónde, cuándo)

If yes, did you help clean up the incident? ☐ YES ☐ NO

¿Ayudó a limpiarlo?

- Have any of your co-workers been ill with vomiting and/or diarrhea? ☐ YES ☐ NO

¿Usted sabe si alguno de sus compañeros de trabajo ha estado enfermo con diarrea o vómito?

Describe (who, when): _____

Describe (quién, cuándo)

During _____ to _____:

- Which of these dates did you work?

¿Del _____ al _____, en qué fechas trabajó?

SUNDAY Domingo	MONDAY Lunes	TUESDAY Martes	WEDNESDAY Miércoles	THURSDAY Jueves	FRIDAY Viernes	SATURDAY Sábado
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

During _____ to _____:

Del _____ al _____:

- Did you do any food prep? ☐ YES ☐ NO

¿Preparó (cortó, manipuló) los alimentos?



Employee Name: _____

Describe: _____
 Describa _____

- Did you make or serve any drinks, including adding garnish or ice? ☐ YES ☐ NO
 ¿Preparó o sirvió bebidas, incluyendo el hielo o adornos/decoraciones?

Describe: _____
 Describa _____

- Did you prepare any ready-to-eat foods, like salads, breads, or chips (including garnishing plates and packaging to-go food)? ☐ YES ☐ NO
 ¿Preparó (cortó, manipuló) alimentos que están listos para comer (pre-hechos), como ensaladas, panes, o las papitas "chips" (incluyendo el adorno o empaquetado de estos alimentos pre-hechos)?

Describe: _____
 Describa _____

- What were your other job duties?
 ¿Cuáles fueron sus otras funciones del trabajo?

Describe: _____
 Describa _____


If you are ill with vomiting or diarrhea, it is important that you not return to work in food service for at least 72 hours after your recovery.

Si tiene diarrea o vómito, es importante que no regrese a trabajar en servicios de comida por 72 horas después de recuperarse.



Appendix 11c: Employee Interview *Salmonella* (English)

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

	Date of Interview: ____/____/____ Interviewer: _____	
FACILITY • LOCATION Employee Interview Form		
<p>The Minnesota Department of Health (MDH) and [LOCAL PUBLIC HEALTH] are working on a foodborne illness outbreak investigation that may be associated with the facility where you work. The purpose of the investigation is to learn the source of the outbreak and stop transmission. We want to ask you questions about your work duties in food service and any recent illness you may have had.</p>		
<p>PRIVACY: Any information you give to us about yourself (including test results) is considered private data. Only public health officials involved in this outbreak investigation will have access to the private data. Do we have your permission to also share this information with management staff at the facility where you work? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>		
<p>VOLUNTARY: You are not required to answer questions. However, your answers help us understand how this outbreak happened and prevent further transmission. If you don't answer questions, you will be excluded from work because we won't know if you could spread illness to others.</p>		
<p>Will you answer some brief questions? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p>		
<p>STOOL SAMPLE: We will be testing stool samples to see if employees have <i>Salmonella</i> (a germ that can be spread by food). You must submit two stool samples, collected at least 24 hours apart. If you have been ill, or test positive for <i>Salmonella</i>, you will be excluded from work until two stool samples in a row test negative for <i>Salmonella</i>. If you don't submit stool specimens, you will be excluded from work because we won't know if you could spread illness to others. Stool kits and testing are free of charge. You will be given results when they are available.</p>		
<p>Will you submit stool samples? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p>		
<hr/>		
<p>Name (last, first): _____ DOB: ____/____/____ Male Female Other Signature: _____ or Phone Interview (verbal consent): <input type="checkbox"/> Address: _____ City: _____ Zip: _____ Phone: _____ Job Title/Description: _____</p>		
<hr/>		
<p>• Have you had any of the following symptoms since August 1st?</p>		
Nausea	<input type="checkbox"/> Y <input type="checkbox"/> N	
Vomiting	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____
Cramps	<input type="checkbox"/> Y <input type="checkbox"/> N	
Diarrhea	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____
# stools/24 hrs	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times)
Bloody stools	<input type="checkbox"/> Y <input type="checkbox"/> N	
Fever	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F
First symptom:		Onset date/time: ____/____/____
Other symptoms: _____		
When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick		
<hr/>		
<p>ILL EMPLOYEES</p>		
<p>• Did you visit a health care provider for the illness? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, when? ____/____/____ Where? _____</p>		
<p>Hospitalized overnight? <input type="checkbox"/> YES <input type="checkbox"/> NO Submit a stool sample? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>		
<p>• Did you work while having diarrhea and/or vomiting? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, when? _____ If no, when did you return to work? _____</p>		

OUTBREAK PROTOCOL APPENDICES

Employee Name: _____

ALL EMPLOYEES

- Do you work at any other food service facilities? ☐ YES ☐ NO
If yes, where? _____ How often? _____
- Have any members of your household been ill with the following symptoms since August 1st? ☐ YES ☐ NO
Vomiting (onset: ____/____) ☐ Y ☐ N Cramps ☐ Y ☐ N Fever ☐ Y ☐ N Blood in stool ☐ Y ☐ N
Diarrhea (onset: ____/____) ☐ Y ☐ N (# stools/24 hrs: ____)
- Have any of your co-workers been ill with vomiting and/or diarrhea? ☐ YES ☐ NO
Describe (who, when): _____

During August 14 - 19:

- Which of these dates did you work?

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16	<input type="checkbox"/> 17	<input type="checkbox"/> 18	<input type="checkbox"/> 19	
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

During August 14 - 19:

- Did you do any food prep? ☐ YES ☐ NO
Describe: _____
- Did you make or serve any drinks, including adding garnish or ice? ☐ YES ☐ NO
Describe: _____
- Did you prepare any ready-to-eat foods, like salads, breads, or chips (including garnishing plates and packaging to-go food)? ☐ YES ☐ NO
Describe: _____
- What were your other job duties?
Describe: _____



Appendix 11d: Employee Interview *Salmonella* (Spanish)

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

<div style="display: flex; align-items: center;"> <div> Minnesota Department of Health </div> </div>	Date of Interview: ____/____/____ Interviewer: _____
<div style="background-color: yellow; display: inline-block; padding: 2px 5px; margin: 0 auto;">FACILITY • LOCATION</div> <p>Employee Interview Form</p>	
<p>The Minnesota Department of Health (MDH) and Ramsey County Public Health working on a foodborne illness outbreak investigation that may be associated with the facility where you work. The purpose of the investigation is to learn the source of the outbreak and stop transmission. We want to ask you questions about your work duties in food service and any recent illness you may have had.</p> <p><i>El Departamento de Salud de Minnesota está investigando unas quejas de enfermedades que están asociadas con el restaurante donde usted trabaja. El propósito de esta investigación es entender la causa de las enfermedades y parar la transmisión. Queremos hacerle unas preguntas sobre su trabajo y acerca de enfermedades que podría haber tenido recientemente.</i></p> <p>PRIVACY: Any information you give to us about yourself (including test results) is considered private data. Only public health officials involved in this outbreak investigation will have access to the private data. Do we have your permission to also share this information with management staff at the facility where you work? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><i>Responder a la entrevista es totalmente voluntario y toda la información que usted nos de será confidencial. Las únicas personas que podrían tener acceso a esta información son los funcionarios del Departamento de Salud. ¿Podemos compartir esta información con su jefe?</i></p> <p>VOLUNTARY: You are not required to answer questions. However, your answers help us understand how this outbreak happened and prevent further transmission. If you don't answer questions, you will be excluded from work because we won't know if you could spread illness to others.</p> <p>Will you answer some brief questions? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p> <p><i>Si hay preguntas que no desea contestar, puede no hacerlo. Sin embargo, sus respuestas son importantes para descubrir la causa del brote y prevenir más enfermedades. Si no responde a las preguntas, usted será excluido del trabajo porque no podremos evaluar si usted puede transmitir la enfermedad a otras personas.</i></p> <p>STOOL SAMPLE: We will be testing stool samples to see if employees have <i>Salmonella</i> (a germ that can be spread by food). You must submit two stool samples, collected at least 24 hours apart. If you have been ill, or test positive for <i>Salmonella</i>, you will be excluded from work until two stool samples in a row test negative for <i>Salmonella</i>. If you don't submit stool specimens, you will be excluded from work because we won't know if you could spread illness to others. Stool kits and testing are free of charge. You will be given results when they are available.</p> <p><i>MUESTRA DE HECES: Analizaremos muestras de heces para ver si los empleados tienen Salmonella (una bacteria que se puede propagar a través de los alimentos). Debe enviar dos muestras de heces, recolectadas con al menos 24 horas de diferencia. Si ha estado enfermo(a) o ha dado positivo en la prueba de Salmonella, se le excluirá del trabajo hasta que usted tenga dos muestras seguidas que sean negativas por Salmonella. Si no envía sus muestras de heces, será excluido(a) del trabajo porque no podremos evaluar si usted puede contagiar a otras personas. Los kits para tomar las muestras de heces y los exámenes de estas muestras son gratis. Se le darán los resultados cuando estos estén disponibles.</i></p> <p>Will you submit stool samples? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p> <p><i>¿Está dispuesto(a) a enviar muestras de heces para analizar?</i></p>	

Photo of example Employee Interview Form Salmonella (Spanish), page 1.

Employee Name: _____

Name (last, first): _____ Age: _____ Male Female Other
Nombre (apellido, nombre) Edad Hombre Mujer Otro

Signature: _____ or Phone Interview (verbal consent): ☐
Firma Entrevista por el teléfono

Address: _____ City: _____
Dirección Ciudad

Zip: _____ Phone: _____
Código postal número de teléfono

Job Title/Description: _____
Nombre del puesto/Descripción del trabajo

• Have you had any of the following symptoms since _____?
¿Desde el _____, ha estado enfermo con los siguientes síntomas?

Nausea <i>Náusea</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Vomiting <i>Vómito</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____ <i>Fecha/hora de comienzo Fecha/hora cuando se recuperó</i>
Cramps <i>Cólicos</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Diarrhea <i>Diarrea</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____ Recovery: ____/____/____ <i>Fecha/hora de comienzo Fecha/hora cuando se recuperó</i>
# stools/24 hrs <i>¿Cuántas veces en 24 horas?</i>	_____	Duration of diarrhea: _____ days/hours <i>Duración de diarrea horas/días</i>
Bloody stools <i>¿Notó sangre en las heces?</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	
Fever <i>Calentura/fiebre</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F <i>Temperatura</i>
First symptom: <i>Primer síntoma</i>	Onset date/time: ____/____/____ <i>Fecha/ hora de primer síntoma</i>	
Other symptoms: _____ <i>Otros síntomas</i>		
When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick <i>Cuándo se recuperó? Todavía tiene síntomas</i>		

ILL EMPLOYEES

• Did you visit a health care provider for the illness? ☐ Y ☐ N Did you submit a stool sample? ☐ Y ☐ N
¿Visitó su proveedor de salud médica para esta enfermedad? Le dio a su médico una muestra de heces?

If yes, when? ____/____/____ where? _____ Hospitalized overnight? ☐ Y ☐ N
¿Cuándo? ¿Dónde? ¿Fue hospitalizado (paso la noche en el hospital)?

Did you work while having diarrhea and/or vomiting? ☐ YES ☐ NO
¿Fue a trabajar cuando tenía diarrea/vómito?

If yes, when? _____ If no, when did you return to work? _____
Si sí, ¿cuándo? Si no, ¿cuándo regresó al trabajo?

OUTBREAK PROTOCOL APPENDICES

Employee Name: _____

ALL EMPLOYEES

- Do you work at any other food service facilities? ☐ YES ☐ NO
¿Trabaja en otros restaurantes o servicios de comida?

If yes, where? _____ How often? _____
¿dónde? ¿Cuál es su horario?

- Have any members of your household been ill with diarrhea and/or vomiting since _____? ☐ YES ☐ NO
¿Desde el _____, ha habido alguien que vive en su casa con diarrea o vómito?

Vomiting (onset: ____/____) ☐ Y ☐ N Cramps ☐ Y ☐ N Fever ☐ Y ☐ N Blood in stool ☐ Y ☐ N
¿En qué fecha comenzó a vomitar? Cólicos Calentura/fiebre Notó sangre en las heces

Diarrhea (onset: ____/____) ☐ Y ☐ N (# stools/24 hrs: ____)
¿En qué fecha le comenzó la diarrea? (# en 24 horas.)

Have any of your co-workers been ill with vomiting and/or diarrhea? ☐ YES ☐ NO
¿Usted sabe si alguno de sus compañeros de trabajo ha estado enfermo con diarrea o vómito?

Describe (who, when): _____
Quién, cuándo

During _____ to _____

- Which of these dates did you work?
¿Del _____ al _____, en cuáles fechas trabajó?

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

During _____ to _____:

Del _____ al _____:

- Did you do any food prep? ☐ YES ☐ NO
¿Preparó (cortó, manipuló) los alimentos?

Describe: _____

- Did you make or serve any drinks, including adding garnish or ice? ☐ YES ☐ NO
¿Preparó o sirvió bebidas, incluyendo el hielo o adornos/decoraciones?

Describe: _____

- Did you prepare any ready-to-eat foods, like salads, breads, or chips (including garnishing plates and packaging to-go food)? ☐ YES ☐ NO
¿Preparó (cortó, manipuló) alimentos que están listos para comer (pre-hechos), como ensaladas, panes, o las papitas "chips" (incluyendo el adorno o empaquetado de estos alimentos pre-hechos)?

Describe: _____

- What were your other job duties?
¿Cuáles fueron sus otras funciones del trabajo?

Describe: _____

SALM



Appendix 11e: Employee Interview Waterborne

To obtain this document, please contact health.foodill@state.mn.us or 651-201-5655.

<div style="clear: both;"></div>	Date of Interview: ____/____/____ Interviewer: _____																																				
Facility Name Employee Interview																																					
<p>The Minnesota Department of Health (MDH) is working on a waterborne illness outbreak investigation that may be associated with the facility where you work. The purpose of the investigation is to learn the source of the outbreak and stop transmission. We want to ask you questions about your work duties and any recent illness you may have had.</p> <p>PRIVACY: Any information you give to us about yourself (including test results) is considered private data. Only public health officials involved in this outbreak investigation will have access to the private data. Do we have your permission to also share this information with management staff at the facility where you work? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>VOLUNTARY: You are not required to answer questions. However, your answers help us understand how this outbreak happened and prevent further transmission. If you don't answer questions, you may be excluded from work (or your duties restricted) because we won't know if you could spread illness to others.</p> <p>Will you answer some brief questions? <input type="checkbox"/> YES <input type="checkbox"/> NO (exclusions apply – contact epi)</p> <p>STOOL SAMPLE: If you have been ill, we may ask you to provide a stool specimen for testing. Stools will be tested for pathogens at the MDH lab. Stool kits and testing are free of charge. You will be given results when they are available.</p>																																					
Name (last, first): _____ Age: _____ Male Female Other Signature: _____ or Phone Interview (verbal consent): <input type="checkbox"/> Address: _____ City: _____ Zip: _____ Phone: _____ Job Title/Description: _____																																					
• Have you been ill with diarrhea and/or vomiting since xxx ? <input type="checkbox"/> YES <input type="checkbox"/> NO																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Vomiting</td> <td style="width: 10%;"><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td style="width: 40%;">Onset date/time: ____/____/____</td> <td style="width: 30%;">Recovery: ____/____/____</td> </tr> <tr> <td>Cramps</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td colspan="2"></td> </tr> <tr> <td>Diarrhea</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td>Onset date/time: ____/____/____</td> <td>Recovery: ____/____/____</td> </tr> <tr> <td># stools/24 hrs</td> <td>_____</td> <td colspan="2">Duration of diarrhea: _____ days/hours (if unsure of dates/times)</td> </tr> <tr> <td>Bloody stools</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td colspan="2"></td> </tr> <tr> <td>Fever</td> <td><input type="checkbox"/> Y <input type="checkbox"/> N</td> <td colspan="2">Temperature: _____ ° F</td> </tr> <tr> <td>First symptom:</td> <td></td> <td>Onset date/time: ____/____/____</td> <td></td> </tr> <tr> <td colspan="4">Other symptoms: _____</td> </tr> <tr> <td colspan="4">When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick</td> </tr> </table>	Vomiting	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____	Recovery: ____/____/____	Cramps	<input type="checkbox"/> Y <input type="checkbox"/> N			Diarrhea	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____	Recovery: ____/____/____	# stools/24 hrs	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times)		Bloody stools	<input type="checkbox"/> Y <input type="checkbox"/> N			Fever	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F		First symptom:		Onset date/time: ____/____/____		Other symptoms: _____				When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick				
Vomiting	<input type="checkbox"/> Y <input type="checkbox"/> N	Onset date/time: ____/____/____	Recovery: ____/____/____																																		
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# stools/24 hrs	_____	Duration of diarrhea: _____ days/hours (if unsure of dates/times)																																			
Bloody stools	<input type="checkbox"/> Y <input type="checkbox"/> N																																				
Fever	<input type="checkbox"/> Y <input type="checkbox"/> N	Temperature: _____ ° F																																			
First symptom:		Onset date/time: ____/____/____																																			
Other symptoms: _____																																					
When did you feel completely recovered? ____/____/____ or <input type="checkbox"/> still feeling sick																																					
ILL EMPLOYEES																																					
• Are you willing to provide a stool sample for testing? <input type="checkbox"/> YES (contact epi) <input type="checkbox"/> NO																																					
• Did you visit a health care provider for the illness? <input type="checkbox"/> YES <input type="checkbox"/> NO <div style="display: inline-block; width: 150px; border-left: 1px dashed black; padding-left: 5px; vertical-align: top;"> Hospitalized overnight? <input type="checkbox"/> YES <input type="checkbox"/> NO Submit a stool sample? <input type="checkbox"/> YES <input type="checkbox"/> NO </div>																																					
If yes, when? ____/____/____ Where? _____																																					
• Did you work while having diarrhea and/or vomiting? <input type="checkbox"/> YES <input type="checkbox"/> NO																																					
If yes, when? _____ If no, when did you return to work? _____																																					
• Have you gone swimming anywhere else since your illness started? <input type="checkbox"/> YES <input type="checkbox"/> NO																																					
---if yes, where? _____ When? _____																																					
SUSPWATER																																					

OUTBREAK PROTOCOL APPENDICES



Employee Name: _____

ALL EMPLOYEES

- Do you work at any other aquatic facilities? ☐ YES ☐ NO
---If yes, where? _____ How often? _____
- Do you remember any vomiting or fecal incidents at the facility? ☐ YES ☐ NO
Describe (who, where, when): _____
If yes, did you help clean up the incident? ☐ YES ☐ NO

If you have been ill with diarrhea, it is important that you not go swimming for at least 2 weeks following the end of your symptoms.



Appendix 12a: Environmental Health Checklist When Responding to a Suspected Bacterial Intoxication Outbreak

1. Ask management if they have received any illness complaints. If they have, and the complaints were not reported to EH, inform them that this is a violation of the food code and that all future complaints need to be reported.
2. Because bacterial intoxications are not spread by person-to-person transmission but rather by ingesting a food that has been time/temperature abused and has developed toxins, employee interviews are not necessary. However, it is still important to ask management about any recent illness among employees, as employees may have eaten the same food item.
3. Obtain credit card receipts, reservation lists, online reservation lists (ex: Open Table) and/or takeout/carry out orders for the meal date in question. Provide these to Epi.
4. Obtain restaurant menu (if different from online menu) and ask if the establishment had any specials on the date in question.
5. Provide education on bacterial intoxications to management.
6. While on-site, conduct an Environmental Assessment and provide findings to Epi:
 - Review food flows of particular item(s) of interest and determine the potential for time/temperature abuse of those food items.
 - Does the establishment maintain temperature logs? Review available logs.
 - Take temperatures of foods both in hot and cold-holding.
 - Any cooling violations observed-issues with temperature or cooling methods?
 - Any reheating issues?
 - Review hand-hygiene: Adequate handwashing? Bare-hand contact with RTE?
 - Note violations and provide appropriate corrective actions
7. If Epi suspects and outbreak of *Staph. aureus*, ask management if any employee has a cut or open wound on hands or arms. During the observation period try to view workers hands to see if there are noticeable cuts/sores. And observe handwashing procedures.
8. Is any of the suspect food item that would have been served on the meal date in question remaining at the establishment? If yes, set it aside-do not serve. Notify Epi and discuss if sampling would be appropriate. If yes, Epi can help coordinate the collection of food samples by MDA.
9. After appropriate sampling has occurred, or if Epi determines sampling would not be appropriate, ensure the remaining food in question is completely discarded.



Appendix 12b: Environmental Health Checklist When Responding to *Campylobacter* Illness

1. Ask management if they have received any illness complaints. If they have, and the complaints were not reported to EH, inform them that this is a violation of the food code and that all future complaints need to be reported.
2. Ask management if they are able to provide itemized receipts for the patrons who ate the suspected food item. This will help focus patron calling and help us better understand how many may have consumed the item.
3. Visit the restaurant to conduct an environmental assessment and focus on the preparation of the suspected food item. If they only make the suspected food item a couple times a week, please schedule a time to watch the preparation/cooking process from start to finish (e.g. liver pate).
 - What ingredients go into the suspect food item?
 - Are final cooking temperatures taken?
 - Do they have any temperature logs that include cook temperatures?
 - Verify the final cooking temperature of the suspected food item.
 - Any cross-contamination potential during storage or preparation?
 - Review hand-hygiene: Adequate handwashing? Bare-hand contact with RTE?
4. Verify the source of the suspected food item. Ask about any recent changes in suppliers.
5. Ask management about any recent illness among employees, as employees may have eaten the same food items and become ill. If recently ill staff are identified, find out if they ate the suspect food item.
6. Provide factsheets and education materials to management on *Campylobacter*:
[CAMPYLOBACTERIOSIS \(PDF\)](https://www.health.state.mn.us/diseases/campylobacteriosis/campy.pdf)
[\(https://www.health.state.mn.us/diseases/campylobacteriosis/campy.pdf\)](https://www.health.state.mn.us/diseases/campylobacteriosis/campy.pdf)
[Chefs, Cooks, and Caterers: Cook Chicken Liver Like It's Chicken \(It Is\) \(PDF\)](https://www.cdc.gov/restaurant-food-safety/media/pdfs/chicken-liver-infographic-p.pdf)
[\(https://www.cdc.gov/restaurant-food-safety/media/pdfs/chicken-liver-infographic-p.pdf\)](https://www.cdc.gov/restaurant-food-safety/media/pdfs/chicken-liver-infographic-p.pdf)

Additional follow-up during outbreaks:

7. If Epi feels employee interviews are warranted, interview all employees with the provided interview form. Ensure ill employees are properly excluded.
8. If the restaurant is unable to provide itemized receipts for patrons, then obtain credit card receipts, reservation lists, online reservation lists (e.g., Open Table) and/or takeout orders for the meal date in question. Provide these to Epi as soon as possible so additional patrons can be contacted.

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9. Is any of the suspect food item that would have been served on the meal date in question remaining at the establishment? If yes, set it aside-do not serve. Notify Epi and discuss if sampling would be appropriate. If yes, Epi can help coordinate the collection of food samples by MDA.
10. After appropriate sampling has occurred, or if Epi determines sampling would not be appropriate, ensure the remaining food is completely discarded.
11. Obtain restaurant menu (if different from online menu) and ask if the establishment had any specials on the date in question. Provide menu to Epi.



Appendix 12c: Environmental Health Checklist When Responding to a *Cryptosporidium* Outbreak

1. Pool should be closed immediately and hyperchlorinated per CDC guidelines:
 - a. If stabilizer is NOT used in the pool, hyperchlorinate to 20 parts per million (ppm) for 12.75 hours (13 hours).
 - i. See [Hyperchlorination to Kill Cryptosporidium When Chlorine Stabilizer is NOT in Water \(PDF\)](https://www.cdc.gov/model-aquatic-health-code/media/pdfs/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-not-in-the-water.pdf) (<https://www.cdc.gov/model-aquatic-health-code/media/pdfs/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-not-in-the-water.pdf>) for more information.
 - b. If stabilizer is used in the pool, and the cyanuric acid concentration is 1–15:
 - i. Raise the free chlorine to 20 ppm and maintain for 28 hours, or
 - ii. Raise the free chlorine to 30 ppm and maintain for 18 hours, or
 - iii. Raise the free chlorine to 40 ppm and maintain for 8.5 hours
 1. See [Hyperchlorination to Kill Cryptosporidium When Chlorine Stabilizer is in Water \(PDF\)](https://www.cdc.gov/model-aquatic-health-code/media/pdfs/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-in-the-water.pdf) (<https://www.cdc.gov/model-aquatic-health-code/media/pdfs/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-in-the-water.pdf>) for more information.
 - c. If the cyanuric acid concentration is more than 15 ppm, lower the concentration to 1–15 ppm by draining partially and adding fresh water without chlorine stabilizer before attempting to hyperchlorinate.
 - d. Pools must be held at the appropriate concentration for the entire length of time (e.g., 20 ppm for a full 12.75 hours) and someone should monitor the pool to ensure this level is maintained.
 - e. All pools effected should be held at this level (e.g., kiddie pool, slides, lazy river). Keep slides running, and leave toys and floaties in the pool to sanitize as well.
 - f. A 2-3-day shut-down time during hyperchlorination should be expected. Normal chlorination kills crypto naturally in 10.6 days.
 - g. Discourage the use of dechlor to bring down chlorine levels after the appropriate length of time has been reached. Dechlor doesn't work immediately, so often times more and more is dumped in until there is no chlorine left. Either let the chemical levels come down naturally or add more water to the pool before reopening.
2. Provide factsheet to operator on crypto and ask that they post signs around pool. A few examples are provided below:
 - a. [Cryptosporidiosis \(Cryptosporidium\) \(PDF\)](https://www.health.state.mn.us/diseases/cryptosporidiosis/crypto.pdf) (<https://www.health.state.mn.us/diseases/cryptosporidiosis/crypto.pdf>)

- b. [Important Notice to All Swimmers \(PDF\)](https://www.health.state.mn.us/diseases/waterborne/healthyswim.pdf)
(<https://www.health.state.mn.us/diseases/waterborne/healthyswim.pdf>)
 - c. Hyperchlorinating is only effective until the next ill swimmer enters the water. It is important to provide education.
- 3. Ask about fecal accidents in the pool and request copies of the pool logs dating back to a few weeks before the incident date (exact date can be discussed with lead Epi).
 - 4. Epi may request reservation lists to contact additional guests or ask Environmental Health to conduct interviews of all aquatic staff (this will be determined by lead epi).
 - a. Staff with crypto-like symptoms (diarrhea) should be excluded for 2 weeks after their last symptom of diarrhea.

*During a crypto investigation, MDH usually does not test the water for crypto (results take too long and if negative, it doesn't tell us that the parasite is not in the pool).



Appendix 12d: Environmental Health Checklist When Responding to a Single Hepatitis A Virus Case

1. Contact the establishment and ask management about recent employee illness including diarrhea, vomiting and jaundice
2. Make sure the ill worker has been excluded and let management know when the employee can return to work (Epi will provide the return-to-work date).
3. Ask about the ill workers work schedule. Obtain work schedule for the past 3 weeks and provide to Epi.
4. Ask about the ill workers specific job duties (do they serve beverages, handle ice, garnish plates, handle clean dishes/utensils, prep food, etc.). Determine if they handle any RTE foods with bare hands.
5. Put the symptom tracking form in place. Management should screen employees through the dates on the form. If anyone reports symptoms consistent with HepA, they should notify their inspector. The inspector should notify Epi if illness is reported.
6. Provide HepA factsheets and educational materials to management and ask that they share information on the signs and symptoms of HepA with all staff. Epi can provide sample letters or additional information, if needed. [Hepatitis A \(PDF\)](https://www.health.state.mn.us/diseases/hepatitis/a/hepafacts.pdf)
(<https://www.health.state.mn.us/diseases/hepatitis/a/hepafacts.pdf>)
7. While on site, conduct an environmental assessment:
 - a. Review the illness log
 - b. Observe hand-hygiene (e.g., no bare-hands with ready-to-eat foods and handwashing)
 - c. Are gloves available and used when required?
 - d. Are hand sinks properly stocked?
8. Provide education on the importance of good hand-hygiene, no bare hand contact with ready-to-eat foods, and illness reporting by employees (both symptoms and diagnosed illnesses)
9. Instruct the establishment to clean and sanitize properly.
 - a. The establishment should contact their chemical supplier to obtain a product that has a "Hepatitis A claim" to clean all surfaces.
 - i. If they can't find a product with a HepA claim, then a product with a norovirus claim would be sufficient.
 - ii. If they don't have a chemical supplier, they can use 2,500 ppm bleach (3/4 cup per 1 gallon) with a 5-minute contact time.
 - iii. All products must be appropriate for food contact surfaces and used for the correct contact time, per the product label.

OUTBREAK PROTOCOL APPENDICES

- b. Wash, rinse, and sanitize all food contact surfaces, equipment, and utensils in the kitchen area.
 - c. Clean and sanitize the inside of the ice bin, door handles, faucet handles, tabletops, etc. (any areas where people touch).
 - d. Clean and sanitize restrooms that the ill staff member may have used.
10. If the employee worked while ill any ready-to-eat food items that would have been prepared or handled by that employee must be discarded. This includes ice from the ice machine.
11. Epi will provide guidance on whether postexposure prophylaxis (PEP) is necessary for co-workers



Appendix 12e: Environmental Health Checklist When Responding to a Single Legionnaires' Disease Case with Spa Exposure

Records review and discussions for management

1. Visit the establishment and review the pool and spa logs for the last month to see if they have been running appropriately. Provide copy of logs to Epi.
2. Have there been any complaints from patrons or staff?
3. Provide *Legionella* factsheet to management and ask that they share information on the signs and symptoms of *Legionella* with all staff. [Legionnaires' Disease \(state.mn.us\)](https://state.mn.us/legionnaires-disease)
4. Provide CDC best practices guide to management as a resource: [Controlling Legionella in Hot Tubs \(cdc.gov\)](https://www.cdc.gov/legionella/hot-tubs/).
5. If the facility is a vacation home rental, here are some additional resources that may be useful:
 - a. [Vacation Rental Owners and Managers \(cdc.gov\)](https://www.cdc.gov/legionella/hot-tubs/)
 - b. [Residential Swimming Pool and Spa Rentals \(PDF\) \(https://www.health.state.mn.us/communities/environment/recreation/pools/docs/residentialpoolfaqs.pdf\)](https://www.health.state.mn.us/communities/environment/recreation/pools/docs/residentialpoolfaqs.pdf)
6. Have there been any maintenance issues (broken pump, spa closed, etc.)? If so, what issues and when?
7. Ask management how often they clean, scrub, and refill the spa.
8. Are there any water features onsite (e.g., decorative fountains, kiddie pool spray features)? If so, how often are those cleaned and how?

Observations and spa check

9. Check the chemicals in the spa and see if they are at appropriate levels.
10. Check the walls and skimmers of the spa for any biofilm or slime build-up.
11. How is the ventilation in the pool area?
12. Remediate the spa:
 - a. Drain the spa
 - b. Scrub and clean all surfaces, including skimming devices and weirs, using water with a minimum free chlorine of 5 ppm.
 - c. Rinse all spa surfaces with fresh potable water and drain as needed.
 - d. Replace filters or filter media (if applicable).

- e. Repair parts as needed.
- f. Refill the spa and then hyperchlorinate.
 - i. Maintain chlorine at 20 ppm for a total of 10 hours.
 - ii. During the 10 hours, leave the jets off for the first hour and then run the jets for the remaining 9 hours.
- g. Flush the entire system with fresh potable water and refill.
- h. Return the spa to the routine disinfectant residual level.

Additional follow-up for establishments with more than one sporadic case within a year

- 9. Close the spa immediately.
- 10. Collect samples using the *Legionella* Sampling Instructions provided by Epi.
- 11. Follow CDC guidance to disinfect the spa. [Controlling Legionella in Hot Tubs.](#)
- 12. Additional questions to ask management:
 - a. What type of filter(s) do they use? (sand, diatomaceous earth, cartridge)
 - b. When was the filter(s) last changed?
 - c. When were the filter(s) last backwashed?
 - d. Date spa was last drained and scrubbed?
 - i. What is their normal procedure for draining and cleaning the spa? Are they physically scrubbing spa to remove biofilm?
- 13. Once samples are taken and remediation is complete, EH and Epi can discuss next steps for reopening of the spa.



Appendix 12f: Environmental Health Checklist When Responding to a Norovirus Outbreak

1. Contact the establishment and have them begin gathering a contact list for all employees and credit card receipts, reservation lists, or takeout orders for the meal date in question. In addition, ask the following questions:
 - Has the business received any complaints? If they have and the complaints were not reported, inform them that this is a violation of the food code.
 - How many food service workers does the business employ?
2. Gather employee screening forms and copy enough interview forms. A unique form is developed by epi for each outbreak. The Tennessean warning is included on the form and must be read to each employee before the interview. Head out to restaurant as soon as possible.
3. Ask management what their illness policy is. Ask to see their illness log and assess recent employee illness.
4. Interview all employees, including management. If employees have been ill, they must be excluded for at least 72 hours after their last symptom of vomiting and diarrhea.
5. Ask ill employees if they would be willing to submit a stool sample. If so, obtain their name, address, and telephone number and coordinate with epi on getting stool kits out to employee.
6. Obtain credit card receipts, reservation lists, and/or takeout/carry out orders for meal date in question. Provide these to epi as soon as possible. These are used to interview additional patrons and determine if there is a particular food item that is contaminated.
7. Obtain restaurant menu (if different from online menu) and ask if the establishment had any specials on the date in question. Provide menu to epi as soon as possible. This is needed to interview additional patrons.
8. Put illness screening form in place so management can screen all employees before they begin their shift to ensure that they have not been recently ill.
9. Provide norovirus factsheets and educational materials to management.
10. While on site, conduct an environmental assessment. Review employee handwashing and bare-hand contact policies (e.g., minimizing bare-hands with ready-to-eat foods).
11. Wash, rinse, and disinfect all food contact surfaces, equipment, and utensils in the kitchen area. The establishment should contact their chemical supplier to obtain a product that has a “norovirus claim” to clean all surfaces. If they don’t have a chemical supplier, they can use 1,000 ppm bleach (1/3 cup per 1 gallon) with a 5-minute contact time. Most quats are ineffective against norovirus. When using a food contact sanitizer at disinfection strength

(like 1000ppm bleach), make sure to thoroughly rinse off equipment/surfaces after the 5-minute contact time has been reached.

14. It is also a good idea to clean and sanitize the inside of the ice bin, door handles, faucet handles, tabletops, etc. (any areas where people touch). If obtaining a product with a norovirus claim, management must make sure it is appropriate for food contact surfaces and read the label for proper application instructions (some products require a longer contact time and/or a rinse with potable water after disinfection). Here is the EPA list of disinfectants that are effective against norovirus: [EPA's Registered Antimicrobial Products Effective Against Norovirus \(feline calicivirus\) \[List G\]](https://www.epa.gov/pesticide-registration/epas-registered-antimicrobial-products-effective-against-norovirus-feline) (<https://www.epa.gov/pesticide-registration/epas-registered-antimicrobial-products-effective-against-norovirus-feline>)
12. If there have been employees who worked while ill or weren't excluded for an appropriate length of time and then handled/prepared food, consider discarding ready-to-eat food items that may have been contaminated. This includes ice from the ice machine.
13. If there is vomit in the establishment, the best way to prevent transmission is to physically remove it as soon as possible by scrubbing it off of the carpet/floor. Worker should wear gloves, discard all cloths/material used to clean up vomit and thoroughly wash hands after. Do not use a vacuum to clean vomit on carpeted areas. Vacuuming will aerosolize particles. You can use a steamer. More information on clean-up is linked below.
 - a. Step-by-step guide to norovirus cleanup (<https://extension.umn.edu/norovirus/norovirus-cleanup>)
 - b. How to Prevent Norovirus (<https://www.cdc.gov/norovirus/prevention/>)



Appendix 12g: Environmental Health Checklist When Responding to reports of *Pseudomonas* Dermatitis (Hot Tub Rash)

Records review & discussions for management

1. Visit the establishment and review the pool and spa logs for the last month to see if they have been running appropriately. Provide copy of logs to Epi.
2. Have there been any complaints from patrons?
3. Provide information on the symptoms, transmission, and prevention of *Pseudomonas* to management: [Hot Tub Rash \(*Pseudomonas* Dermatitis/Folliculitis\)](https://www.health.state.mn.us/diseases/pseudomonis/index.html) (<https://www.health.state.mn.us/diseases/pseudomonis/index.html>)
4. Have there been any maintenance issues (broken pump, spa closed, etc.)? If so, what issues and when? Or any staffing issues where the CPO hasn't been available?
5. Ask management how often they clean, scrub, and refill the spa.

Observations and spa check

6. Check the chemicals in the spa and see if they are at appropriate levels.
7. Check the walls and skimmers of the spa for any biofilm or slime build-up.
8. If you notice slime/biofilm buildup in the skimmers/spa walls or spa logs or chemicals appear off the establishment should plan for a remediation step.
 - a. Drain the spa then scrub and clean walls, skimmers, etc.
 - b. Backwash sand filters.
 - c. Refill the spa and then hyperchlorinate.
 - i. Maintain chlorine at 20ppm for a total of 10 hours.
 - ii. During the 10 hours, leave the jets off for the first hour and then run the jets for the remaining 9 hours.
 - iii. Let the spa levels come down naturally (no dechlor) to acceptable levels before reopening.



Appendix 12h: Environmental Health Checklist When Responding to a *Salmonella* Outbreak

Employee Health

1. Determine if the establishment has an illness policy and review the details of that policy.
2. Review the employee illness log and assess recent employee illness.
3. Implement the illness-screening form so management can screen all employees before they begin their shift.
 - d. Anyone reporting illness must be excluded from work and referred to EH for re-interview.
 - e. Inform Lead Epi if this occurs.
4. Interview all employees, including management.
 - a. If an employee has been recently ill with any GI symptoms (time frame determined by Epi):
 - i. The employee is excluded until they test negative for *Salmonella* twice.
 - ii. Specimens must be collected at least 24 hours apart.
 - iii. The lead Epi can help arrange stool kit distribution.
5. Distribute stool kits to ALL employees, including management.
 - a. All employees must submit two stool samples, collected at least 24 hours apart, regardless of illness status.
 - b. Explain the stool kit requirement clearly to the PIC so he/she can facilitate follow-through with staff.
 - c. Stool kits must be returned to the Public Health Laboratory (coordinate with Epi).
 - d. Any employee who has not submitted a stool kit by the date chosen by EH/Epi will be excluded until kits are received.
 - e. Antibiotics are not recommended for most *Salmonella* infections. Taking antibiotics may prolong the duration of shedding of *Salmonella* in stool.

Customer and Menu/Food Information

6. Ask management if they have received any illness complaints.
 - a. If they have, and the complaints were not reported to EH, inform them that this is a violation of the food code and that all future complaints need to be reported.
7. Collect records to contact additional patrons from the meal date(s) in question, and provide them to the lead Epi:

- b. Credit card receipts with names
 - c. Reservation lists
 - d. Online reservation lists (ex: Open Table)
 - e. Takeout/carry out orders
 - f. Loyalty programs
8. Obtain a restaurant menu (if different from online menu), provide to Epi.
 9. Ask if the establishment had any specials on the date(s) in question.
 10. Collect a list of food suppliers.
 - a. This includes distributors, grocery stores, warehouse stores, etc.

Environmental Assessment

11. Review general cross contamination potential throughout the facility.
 - a. How does the establishment clean the kitchen areas (i.e. using a hose to spray the floors, wiping cloth bucket practices)?
 - b. How do they store food and utensils (i.e. dirty knives and utensils stored between prep tables, cutting boards with cloth underneath, raw above RTE in coolers)?
 - c. How do they prep food (i.e. same cutting boards for raw and RTE, improper handwashing between changing tasks), etc.?
12. Review food flows of particular item(s) of interest from receiving to service to determine the potential for cross contamination (by both hands and equipment).
13. Determine if the establishment maintains temperature logs and review, if available.
14. Take final cook temperatures of animal proteins.
15. Assess if “risky” foods are being served.
 - a. e.g.) Is the restaurant using raw shell eggs in any menu items: mayo, aioli, custards, desserts, hollandaise sauce, Bearnaise sauce, fancy drinks?
 - b. Any other food items of interest reported by Epi.
16. Ask if there have been any recent changes to the menu, food suppliers, or other unique events that occurred policy or practice-wise?
17. Review hand-hygiene (adequate handwashing? Bare-hand contact with RTE?).
18. Note violations and provide appropriate corrective actions.

Cleaning, Sanitizing, Condemnation and Embargo

19. Wash, rinse, and sanitize all food contact surfaces, equipment and utensils in the kitchen area.
 - a. Standard bleach and quaternary ammonia concentrations are effective against Salmonella.

- b. Thorough cleaning of all surfaces, both food-contact and non-food-contact, is important to stop further contamination.
 - c. Consider steam cleaning surfaces that cannot be cleaned with sanitizer.
20. Embargo any remaining suspect food items from the meal date if available.
- a. Notify Epi and discuss if sampling would be appropriate. If yes, Epi can help coordinate the collection of food samples by MDA.
21. After appropriate sampling has occurred, or if Epi determines sampling would not be appropriate, ensure the remaining food in question is completely discarded.
22. Discard any ready-to-eats foods prepared by ill workers.

Communication

23. Provide Salmonella factsheet to management:
- MDH [Salmonella \(PDF\)](https://www.health.state.mn.us/diseases/salmonellosis/salmonella.pdf)
<https://www.health.state.mn.us/diseases/salmonellosis/salmonella.pdf>
24. Establish the best method for ongoing communication with both Epi and the establishment regarding:
- a. Employee stool sample results and employee exclusion.
 - b. Additional questions about food handling practices in the restaurant.
 - c. Addition questions about invoices, purchasing, and financial records.



Appendix 12i: Environmental Health Checklist When Responding to a *Vibrio* infection


1. Ask management if they have received any illness complaints. If they have, and the complaints were not reported to EH, inform them that this is a violation of the food code and that all future complaints need to be reported.
2. Identify which oysters were served on the meal date(s) in question.
3. If the case gives us permission to share their name with the establishment, request their receipt from the establishment.
4. Obtain tags and invoices for all raw oysters that would have been served on the meal date(s) in question. Make sure to cross-reference the tags and invoices to ensure they match up and correspond to the oysters that would have been served on those date(s).
5. Obtain oyster/raw seafood menu and ask if the establishment had any specials on the date in question. Provide the menu to Epi.
6. Conduct an environmental assessment and focus on oyster handling from receiving to service:
 - How are the oysters received? Any receiving temperatures taken?
 - Review storage practices: Any temperature issues observed during storage? Any comingling issues observed? Are oysters kept in live tanks?
 - Are they maintaining temperature logs for cold-holding?
 - Any bare-hand contact observed? Adequate handwashing observed?
 - Are tags and invoices kept for at least 90 days?
7. Are any oysters remaining from the same lot that would have been served on the meal date in question? If yes, set aside-do not serve. Notify Epi and discuss if sampling would be appropriate. If yes, Epi can help coordinate the collection of food samples by MDA.
8. After appropriate sampling has occurred, or if Epi determines sampling would not be appropriate, ensure the remaining oysters (from the meal date in question) are discarded.
9. Ask management about any recent illness among employees, as employees may eat oysters. If recently ill staff are identified, find out if they ate oysters and what type.
10. Provide factsheets and education materials to management on *Vibrio*:
 - [VIBRIO INFECTION \(Vibrio\) \(PDF\)](https://www.health.state.mn.us/diseases/vibrio/vibrio.pdf)
(<https://www.health.state.mn.us/diseases/vibrio/vibrio.pdf>)
 - [Vibrio and Oysters](https://www.cdc.gov/vibrio/prevention/vibrio-and-oysters.html) (<https://www.cdc.gov/vibrio/prevention/vibrio-and-oysters.html>)

Additional follow-up during outbreaks:


11. If Epi feels employee interviews are warranted, interview all employees with the provided interview form. Ensure ill employees are properly excluded.
12. Ask management if they are able to provide itemized receipts for the patrons who ate the suspected food item (e.g. Any receipt with oysters). This will help focus patron calling and help us better understand how many may have consumed the item.
13. If the restaurant is unable to provide itemized receipts for patrons, then obtain credit card receipts, reservation lists, online reservation lists (e.g. Open Table) and/or takeout orders for the meal date in question. Provide these to Epi as soon as possible so additional patrons can be contacted.

Example of a receipt with matching oyster tags and invoices:


Check #: 3725	6/23/18
Server: Monika H	8:34 PM
TABLE: 92/1	Guest Count: 2
1 r11 GL- Chinon, Trinch	11.00
1 [REDACTED] Manhattan	12.00
1 Oysters [REDACTED] <i>unknown type</i>	13.50
1 Crab Louie	16.00
1 Glacier Point	3.75
1 Hama Hama	3.75
1 Bay View	3.65
1 Beau Soleil	3.95
1 With seafood	
1 Moules Frites	26.00
1 Burger	16.00
1 Bearnaise	2.50
1 *r7 6oz. Cahors, Clos Siguier 2015	12.00
1 GL - Bordeaux Superior	9.00
Sub-total	133.10
Sales Tax	11.59
TOTAL	144.69

		SHELLFISH		Lillwaup, WA 98555 WA 259 SP (360) 877-5811
Original Shipper's Cert # if different than above: WA-0259-SP				
For customer use:				
First shucking:				
Last shucking:				
Type of Shellfish: Hama Hama Oysters X-small				
Quantity of Shellfish: 10 doz. Oysters				
ALL PRODUCT FROM SAME GROWING AREA Perishable Keep Refrigerated				
Harvest Date: 6/14/2018		Harvest Location: WA-Hamma Hama River HC #5		
SHIP TO: [REDACTED] 74		Product Wet-Stored at HH - Hood Canal 5		
		From: w- 6/14/2018 To: w- 6/18/2018		
THIS TAG REQUIRED TO BE ATTACHED UNTIL CONTAINER IS EMPTY AND THEREAFTER KEPT ON FILE FOR 90 DAYS				

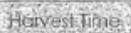


OUTBREAK PROTOCOL APPENDICES

 **HamaHamaCo.**
35846 N US HWY 101
Lilliwaup, WA 98555

Tel: 360-877-5811 Fax: 360-877-6942
accounting@hamahamaoysters.com
www.hamahamaoysters.com



Invoice
71386

Harvest time:  To Cooler:  Product Temp. at Shipping:  All product was adequately iced at time of shipment and if not, our product was maintained under temperature control at:
Ship Date: **6/21/2018**

Iced

Quantity	Item	Price Ea.	Amount
10	dz Hama Hama oysters - Xsm	14.00	140.00
10	dz Sea Nymph oysters - Xsm	14.00	140.00
7	dz Hammersley oysters - Xsm	13.00	91.00
3	dz Hammersley oysters - Xsm	13.00	39.00
10	dz Eld Inlef oysters - Xsm	13.00	130.00

PERISHABLE
KEEP
REFRIGERATED

ALASKA SHELLFISH FARMS, LLC
P.O. Box 1401 / Homer, AK 99603
(907) 299-2481

CERT
AX-5547-SS

ORIGINAL SHIPPER'S CERT. No. IF OTHER THAN ABOVE

HARVEST DATE: **JUN 18 2018** SHIPPING DATE: **JUN 19 2018**


HARVEST LOCATION: HALIBUT COVE KACHEMA BAY AK

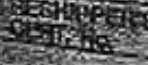
TYPE OF SHELLFISH: **GLACIER POINT OYSTERS**

PRODUCT OF USA: FARM RAISED

QUANTITY OF SHELLFISH: **300** COUNT

THIS TAG IS REQUIRED TO BE ATTACHED UNTIL CONTAINER IS EMPTY OR IS RETAGGED AND THEREAFTER KEPT ON FILE FOR 90 DAYS.

TO: 

RESHIPPING
DATE:  DATES RESHIPPED

Quantity	Description	Rate	Amount
25	dozen Glacier Point Oysters	6.00	150
1	Shipping charges Fedex overnight and packaging shipped 6/19/18 9am at 35 degrees F Fedex overnight	150.00	150



Appendix 13: Traceback Information Gathering Worksheet

This worksheet can be used as a tool for gathering product-specific information. Tasks from the list below should be selected based on what is applicable for the outbreak.

Product of Interest:

Timeframe of Interest:

Investigational Traceback

Traceback Task	Notes
1. Establishment name and address	
Epi data (to share with industry as needed)	
2. Identify the shelf life and average daily use of the product	
3. Determine the regular suppliers or distributed for the product of interest during the time frame of interest (include manufacturer name and production facility address)	
4. Collect product identifiers (brand, food type, size, container type, lot codes, UPC, SKY, PLU, production dates, pull dates) for the product of interest	
14. Collect lot codes, sell-by dates, and/or use-by dates for these products	
15. Obtain clear digital photos of product or label, if possible.	<i>Send photos via email</i>
16. Document how the product is received (box description, fresh/frozen)	
17. Obtain invoices and inventory for the product for the time period of interest	<i>Send invoices via email</i>

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Traceback Task	Notes
18. Determine how and when the product is ordered and how often the firm receives the product (frequency, specific days of the week, etc.)	
19. Determine or estimate transportation time from supplier to point-of-service	
20. Determine the quantity in shipment in the facility (typically and for the timeframe of interest) and if inventory is taken regularly (specific day of the week, daily, etc.)	
21. Determine how much (if any) of the previous shipments is left over when new shipments are received and if first-in first-out (FIFO) rotation policy is standard and how closely it's adhered to	
22. Determine if the firm received any non-routine shipments of the product of interest	
23. Identify any on-site handling/preparation/repacking that created opportunities for cross contamination or mishandling at the facility	
24. Identify if anything affected normal handling or ordering of the implicated product	
25. If records are not available on-site, determine location where they may be stored and request needed information (by phone, fax, email, etc.)	



Appendix 14: Resources

Minnesota Department of Health (<http://www.health.state.mn.us>)

- [Foodborne Illness \(https://www.health.state.mn.us/diseases/foodborne/\)](https://www.health.state.mn.us/diseases/foodborne/)
- [Waterborne Illness \(https://www.health.state.mn.us/diseases/waterborne/\)](https://www.health.state.mn.us/diseases/waterborne/)
- [Zoonotic Diseases: Disease Transmitted from Animals to Humans \(https://www.health.state.mn.us/diseases/animal/zoo/\)](https://www.health.state.mn.us/diseases/animal/zoo/)
- [Licensing: Food, Pools, and Lodging Services \(https://www.health.state.mn.us/communities/environment/food/license/\)](https://www.health.state.mn.us/communities/environment/food/license/)

Centers for Disease Control and Prevention (<https://www.cdc.gov/nceid/divisions-offices/about-dfwed.html>)

State and Local Environmental Health Delegated Agencies

- [Licensing Jurisdiction: Food, Pools, and Lodging Services \(https://www.health.state.mn.us/communities/environment/food/license/delegation.html\)](https://www.health.state.mn.us/communities/environment/food/license/delegation.html)
- [Minnesota State and Local Food, Pools and Lodging Contacts \(PDF\) \(https://www.health.state.mn.us/communities/environment/food/docs/license/locals.pdf\)](https://www.health.state.mn.us/communities/environment/food/docs/license/locals.pdf)

Map of Field Services Epidemiologists (<https://www.health.state.mn.us/about/org/idepc/epis.html>)

Minnesota State Duty Officer

Duty Officer may have information on an outbreak/injury that was reported after hours

- Metro: 651-649-5451 (24 hour)
- Statewide: 800-422-0798 (24 hour)

Foodborne & Waterborne Illness Hotline

- [Reporting Suspected Foodborne and Waterborne Illness \(https://www.health.state.mn.us/diseases/foodborne/reporting.html\)](https://www.health.state.mn.us/diseases/foodborne/reporting.html)
 - Call to report foodborne illness
 - 651-201-5655
 - Toll-free statewide
 - 1-877-366-3455
 - 1-877-FOOD ILL

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- Submit an online [Foodborne and Waterborne Illness](https://redcap.health.state.mn.us/redcap/surveys/?s=ANAYHANDAKHDTWR4)
(<https://redcap.health.state.mn.us/redcap/surveys/?s=ANAYHANDAKHDTWR4>)
- Email
 - health.foodill@state.mn.us