OUTBREAK RESPONSE PROTOCOL: APPENDICES

PROCEDURES FOR RESPONDING TO DISEASE OUTBREAKS IN MINNESOTA

OCTOBER 2017



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Appendix 1a: Outbreak Detection

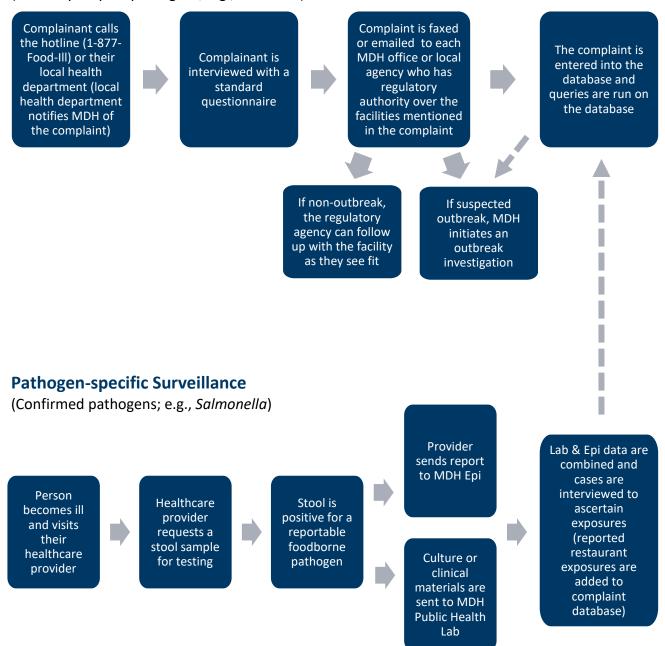


Outbreak Detection

Outbreaks are identified through two main mechanisms

Foodborne & Waterborne Illness Hotline

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



Details about Chart

Foodborne & Waterborne Illness Hotline

- 1. Complainant calls the hotline (1-877-Food-III) or their local health department (local health department notifies MDH of the complaint)
- 2. Complainant is interviewed with a standard questionnaire
- 3. Complaint is faxed or 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
- 4. 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



Selected Diseases Reportable to the Minnesota Department of Health

Reportable Diseases A-Z: Reportable Infectious Diseases (www.health.state.mn.us/divs/idepc/dtopics/reportable/disease.html)

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.)*

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

^{*} Submission of clinical materials required.

Appendix 2: Complaint Intake Form



Appendix 2: Complaint Intake Form

OUTBREAK RESPONSE PROTOCOL

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
Complaint date	E:/ Hotline call: How you got # Tennessen:
Agency: Mini	nesota Department of Health Reporter:
First Name:	Last Name: Age: Female Male
Address:	
Home phone: (Work phone: () Cell: ()
Establishment	t that the complainant suspects:
Number of per	sons exposed: Number ill: How many households with illness:
Did complaina	nt call the establishment? : □Y □N If yes, who did they speak with:
*If a retail food	product is suspected, please fill out page 4 (Retail Food Product Complaint) in addition to the 4-day food history
ILLNESS HIS	STORY Illness Onset:/ Time: Recovery:/ Time:
Vomiting □Y	Y
	Y
Diarrhea 🗆 🖰	
Diarrhea 🗆 🤉	Y
Diarrhea [] # of stools per Other sympton	Y □N Onset:/ Time: Recovery:/ Time: 24-hr. period (max): Cramps □Y □N Fever □Y □N (temp:) Bloody stools □Y □N
Diarrhea # of stools per Other sympto If yes, name as	Y □N Onset:/ Time: Recovery:/ Time: 24-hr. period (max): Cramps □Y □N Fever □Y □N (temp:) Bloody stools □Y □N ms: Visited health care provider □Y □N
# of stools per Other sympto If yes, name as Provider requ FOOD HISTO If only one person If more than one	Y = N Onset:/ Time: Recovery:/ Time: 24-hr. period (max): Cramps = Y = N Fever = Y = N (temp:) Bloody stools = Y = N ms: Visited health care provider = Y = N nd location: Date of visit:/ tested stool sample = Y = N If yes, date stool submitted:/ Hospitalized = Y = N ORY on it ill or if all ill persons live in same household, complete the entire four-day, food history. If yerson is ill and they live in different households, record only the common meals.
Diarrhea [1] # of stools per Other sympto If yes, name as Provider requ FOOD HISTO If only one perso	Y
# of stools per Other sympto If yes, name as Provider requ FOOD HISTO If only one perso If more than one Meal Time	Y
# of stools per Other sympto If yes, name as Provider requ FOOD HISTO If only one perso If more than one Meal Time	Y
# of stools per Other sympto If yes, name as Provider requ FOOD HISTO If only one perso If more than one Meal Time Brk:	Y
Diarrhea [1] # of stools per Other sympton If yes, name an Provider requ FOOD HISTO If only one perso If more than one Meal Time Brk: Lun:	Y = N Onset:/ Time: Recovery:/ Time: 24-hr. period (max): Cramps = Y = N Fever = Y = N (temp:) Bloody stools = Y = N ms: Visited health care provider = Y = N nd location: Date of visit:/ lested stool sample = Y = N If yes, date stool submitted:/ Hospitalized = Y = N DRY on it ill or if all ill persons live in same household, complete the entire four-day food history. In person is ill and they live in different households, record only the common meals. e
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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 occ	upation: Daycare exposure: Y N	
Have you been s	wimming in the past 2 weeks: Y N If yes, where	//_
Did you drink ar	y well water in the past 2 weeks: Y N If yes, where	
Any ill househol	d members in the last week: Y N If yes, who	//_
AGENCIES NO	TIFIED MDH-EHS MDH-District Office MN Dept of Ag FDA	□ USDA
- T1 A	ies:	
□ Local Agenc		

First name	Last name: Ag	ge:
Address:	Phone:	
Illness Onset:// Tim	ie:	
Vomiting □Y □N Onset:/_	/ Time: Recovery:/ Time:	
Diamhea □Y □N Onset:/	Time: Recovery:/ Time:	
# of stools per 24-hr. period (max): _	Cramps □Y □N Fever □Y □N (temp:) Bloody stools □	Y DN
Meals in common:		Incubatio
Meal 1: location:	food/drinks:	
		_
Meal 2: location:	food/drinks:	
		_
	food/drinks:	- — -
First name;	Last name: As	ce:
First name; Address:	Last name: As	ce:
First name: Address: Tim	Last name: As Phone:	ce:
First name: Address: Tim Vomiting □Y □N Onset:	Last name: As Phone:	ce:
First name Address:/ Tim Vomiting □Y □N Onset:/_ Diarrhea □Y □N Onset:/	Last name: Ag Phone:	ee:
First name: Address:	Last name: As Phone:	ee:
First name: Address: Illness Onset:/ Tim Vomiting □Y □N Onset:/_ Diarrhea □Y □N Onset:/ # of stools per 24-hr. period (max): Other symptoms:	Last name: Ag Phone:	ee:
First name Address:	Last name: As Phone:	ge: Y IN Incubatio
First name Address:	Last name: Age	ge: Y IN Incubatio
First name: Address: Tim Vomiting □Y □N Onset:/ Diarrhea □Y □N Onset:/ # of stools per 24-hr. period (max): _ Other symptoms: Meals in common: Meal 1: location:	Last name: Age	Y IN Incubatio
First name: Address:/ Tim Vomiting □Y □N Onset:/_ Diarrhea □Y □N Onset:/ # of stools per 24-hr. period (max): Other symptoms: Meals in common: Meal 1: location: Meal 2: location:	Last name: Agent Phone:	Y IN Incubatio

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

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



SUBMITTING A STOOL SAMPLE TO MDH

YOU CAN ALSO WATCH 'HOW TO SUBMIT A STOOL SAMPLE FOR TESTING' ON YOUTUBE AT HTTP://BIT.LY/1MRME2Y (5 MINUTES LONG)



1. Please write name, collection date, and date of birth 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)



SUBMITTING A STOOL SAMPLE TO MDH

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 http://bit.ly/1mrMe2y (5 minutes long)

También puede ver el video "How to Submit a Stool Sample for Testing" en YouTube @ http://bit.ly/1mrMe2y (5 minutos)



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

Por favor, complete la porción blanca del formulario. Escriba su nombre, fecha de recolección de la muestra, y fecha de nacimineto (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.

Abra la tapa. Dentro del frasco hay una cucharita, úsela 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 segura.

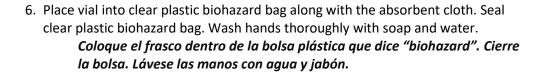




5. Remove tissue part of collection device from cardboard part. Flush tissue and throw cardboard in trash.

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







- 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 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 envio).

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



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



Appendix 5: Patron Interview Form

OUTBREAK RESPONSE PROTOCOL

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

Date of Interview://	_ Int	erviewer:		_		Tenness
		NAME CATION, MN DATE, 2015	ī			
Name:		I	Age	Sex: F M		
Street:		City:		County:		
State: Zip code:	Phone (H)		(W)_			
Race:	sian or African, Spe	cify:	Ethnic	ity: Hispanic or	Non-H	ispanic
Illness Onset://_	Time:	Recove	ry://	Tim	e:	
Vomiting □Y □N Onset: _						
Diarrhea □Y □N Onset: _						
Number of stools per 24 hour p						
Bloody stools □Y □N					e	•F
First Symptom:		0	nset Date:/_	/ Tir	me:	
Other Symptoms:		0	nset Date:/_	/ Tir	me:	
Called Provider: □Y □N	Visited Provider:	□Y □N	Office / ER Da	ate of Visit:	_/	/
Provider requested stool sample	e: □Y □N	Stool subm	itted: □Y □N	Hospitalized:	$\Box Y$	$\square N$
Are you willing to submit a st	ool sample for tes	ting?				⊒N
	-	_	_			ΙN
Meal Date://_ Meal Date://	Meal Time: Meal Time:		_		CDY C	ΞIN
Meal Date://_ Meal Date://	Meal Time: Meal Time: Meal Time: ms get multiple Y N	meal dates/tin	_		Y	N U
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Meal Date://_ Meal Date://	Meal Time: Meal Time: Meal Time: Y N Y N Y N Y N Y N Y N Y N	meal dates/tin U U U U U U	_		Y Y Y Y Y Y	N UN
Meal Date://_ Meal Date://	Meal Time: Meal Time: Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	meal dates/tin U U U U U U U U U U U U U	_		Y Y Y Y Y Y Y	N UN UN UN UN UN UN UN UN U
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Meal Date://_ Meal Date://	Meal Time: Meal Time: Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	T meal dates/tin U U U U U U U U U U U U U U U U U U	_		Y Y Y Y Y Y Y Y	N UN
Are you willing to submit a st Meal Date:/ Meal Date:/ (Some people take leftovers ho	Meal Time: Meal Time: Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	meal dates/tin U U U U U U U U U U U U U	_		Y Y Y Y Y Y Y Y	N UN

Name and relationship		Age	Onset date	
Were there other people in your part	y at the restaurant? If so, are you	a willing to pro	ride contact informat	ion for them?
Name				
Name				
Name				
Name	Phone number	er		

Appendix 6: Guidance for Writing Food and Waterborne Outbreak Reports



Guidance for Writing Food and Waterborne Outbreak Reports

Title

- Pathogen
- Establishment Name or Event
- County
- 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))
- Analytical studies conducted, including source of non-ill and proportion of controls if applicable (e.g., case-control with 3 random-dialed community controls per case, or cohort study)
- 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
- Food recalls, press releases, and/or public notices and agencies involved in those actions

Results

- Total number of interviews conducted
 - Number and percent that 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)

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, crosscontamination, 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



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.

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



Appendix 8: MDH/MDA MOU

OUTBREAK RESPONSE PROTOCOL

DocuSign Envelope ID: 9E2C9CDA-DFC8-44C9-A74B-EFEE72ACBC1A

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 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.

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 warehouse, or retail food establishment 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 food manufacturer, food warehouse, or retail food 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 instruct the person(s) to immediately contact Health through its statewide Foodborne Illness Hotline.

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, 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 of 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.

	9-A74B-EFEE72ACBC1A

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 AGREEMEN	NT.		
	This agreement between the two department Agriculture and Health and changes to			
For the	ne Department of Agriculture Food eed Safety Division (FFSD)	For the I and Mea	Department of Agriculture Dairy t Inspection Division (DMID)	7
Signa	ture SM/	Signature	Nicole Neese-	
Title	Division Director - Food and	Feed and Safety	DP015Yoand Meat Inspection Di	vision Direct
Date	12/6/2016	Date	12/7/2016	-
For the Signal Title Date	be Department of Health Lens European. Division Director-Infectious D 12/7/2016	risease Epidemio	logy Prevention and Control	

Appendix 9a: Employee Interview Norovirus (English)



Appendix 9a: Employee Interview Norovirus

OUTBREAK RESPONSE PROTOCOL

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

Suspnoro	ta ent <i>of</i> H	lealth Date of Interview://
		FACILITY NAME FACILITY LOCATION Employee Interview Form
investigation that may b	e associate and stop tra	olth (MDH) and [LOCAL PUBLIC HEALTH] are working on a foodborne illness outbreak and with the facility where you work. The purpose of the investigation is to learn the ansmission. We want to ask you questions about your work duties in food service and
health officials involved	in this outb	e to us about yourself (including test results) is considered private data. Only public break investigation will have access to the private data. Do we have your permission management staff at the facility where you work?
outbreak happened and because we won't know Will you answer some b STOOL SAMPLE: We ma	I prevent fu if you coul rief question y ask you t	to answer questions. However, your answers will help us understand how this orther transmission. If you don't answer questions, you will be excluded from work lid spread illness to others. ons? PYES NO (exclusions apply – contact epi) to provide a stool specimen. Stools will be tested for bacterial and viral pathogens at e of charge. You will be given results when they are available.
Name (last, first):		Age: Male Female Other
Signature:		or Phone Interview (verbal consent):
Address:		City:
		City: Phone:
Zip:		Phone:
Zip: lob Title/Description: _		Phone:
zip:	of the follow	Phone:
ip:	of the follow	wing symptoms since December 24?
ip: bob Title/Description: Have you had any of Nausea Vomiting	of the follow	wing symptoms since December 24?
ip:	of the follow	wing symptoms since December 24? Onset date/time://
ip:	of the follow	wing symptoms since December 24? Onset date/time:// Recovery:// Onset date/time:// Recovery://
ob Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs	of the follow	wing symptoms since December 24? Onset date/time://
ob Title/Description: Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools	of the follow	Phone: wing symptoms since December 24? Onset date/time:/
In the state of th	of the follow	wing symptoms since December 24? Onset date/time:/_/
e Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools	of the follow	Phone: wing symptoms since December 24? Onset date/time:/
In the state of th	of the follow	wing symptoms since December 24? Onset date/time:/_/
Zip:	of the follow	wing symptoms since December 24? Onset date/time:/_/
In the control of the	of the follow	wing symptoms since December 24? Onset date/time:/ Recovery:/ Onset date/time:/ Recovery:/ Duration of diarrhea: days/hours (if unsure of dates/times) Temperature: ° F Onset date/time:/
In the symptoms: Other symptoms: Other symptoms: When did you feel of the symptom to provide the symptom to pro	of the follow	wing symptoms since December 24? Onset date/time:/
Diarrhea # stools/24 hrs Bloody stools Fever First symptoms: When did you feel of the poly you willing to poly you willing to poly you willing to poly you willing to poly you visit a health	of the follow	wing symptoms since December 24? Onset date/time: Recovery: Onset date/time: days/hours (if unsure of dates/times) Temperature: ° F Onset date/time: or still feeling sick tool sample for testing?
In the polynomial of the polyn	of the follow OY ON OTHER OF THE COMPLETE	Phone:

	you work at any						
	If yes, where?						
	ve any members Vomiting (onset:				Fever 🗆 Y 🗆 N		? □ YES □ NO stool □ Y □ N
	Diarrhea (onset:			-	revei Li Lin	Blood III	SLOOP LIN
	you remember a				Пио		
	Describe (who, w	-					
	If yes, did you he						
	ve any of your co				a? □ YES □] NO	
	Describe (who, w			-			
uring <mark>J</mark>	January 6 Janua	ary 10:					
• wh	nich of these date	es did you work?	?				
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				6	7	8	9
	□Y □N 10		□Y□N			□Y □N	□Y □N
	-						
	ПУ□№						
	□Y □N		21 21	L L LN	DI DI	2. 2	
uring J	□Y □N			LT LN	LI LIN		2. 2
_		ary 10:		ar an	21 2N	2. 2	2.2
• Did	January 6 – Janua	ary 10: d prep?	□NO		GI GN		
• Did	January 6 – Janua d you do any food	ary 10: d prep?	□NO				
• Did	January 6 – Janua J you do any food Describe:	ary 10: d prep? □ YES rve any drinks, ii	□ NO	g garnish or ice?	YES O		
 Did Did Did 	January 6 – January d you do any food Describe: d you make or ser Describe: d you prepare any	ary 10: I prep? YES rve any drinks, in	□ NO	g garnish or ice?	□YES □N	10	and packaging to-
DidDidDidgo	January 6 – January 6 – January 6 – January 6 – January 6 occibe:	ary 10: d prep?	□ NO	g garnish or ice?	□YES □N	10	
DidDidDidgo	January 6 – January d you do any food Describe: d you make or ser Describe: d you prepare any	ary 10: d prep?	□ NO	g garnish or ice?	□YES □N	10	
DidDidDidgo	January 6 – January 6 – January 6 – January 6 – January 6 occibe:	ary 10: d prep?	□ NO	g garnish or ice?	□YES □N	10	
 Did Did Did go Wh 	January 6 – January 7 – Januar	ary 10: d prep?	□ NO ncluding addin pods, like salad	g garnish or ice? Is, breads, or chip	□YES □N	10	
DidDidDidgoWh	January 6 – January 6 vou do any food Describe: d you make or ser Describe: d you prepare any food)? □ YES Describe:	ary 10: d prep?	□ NO ncluding addin pods, like salad	g garnish or ice? Is, breads, or chip	□YES □N	10	
 Did Did Did go Wh 	January 6 — January 7 — Januar	ary 10: d prep?	□ NO ncluding adding pods, like salad	g garnish or ice? is, breads, or chip	YES N	IO mishing plates	
DidDidDid goWh	January 6 — January 7 — Januar	ary 10: d prep?	□ NO ncluding adding pods, like salad	g garnish or ice? Is, breads, or chip	YES N	IO mishing plates	and packaging to-

Appendix 9b: Employee Interview Norovirus (Spanish)



Appendix 9b: Employee Interview Norovirus Spanish

OUTBREAK RESPONSE PROTOCOL

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

MDH Department of Health		erviewer://
FACILITY	ITY NAME Y LOCATION Interview Form	
The Minnesota Department of Health (MDH) and [LOCAL P investigation that may be associated with the facility when source of the outbreak and stop transmission. We want to any recent illness you have had.	e you work. The purpose o	f the investigation is to learn the
El Departamento de Salud de Minnesota está investigar restaurante donde Ud. trabaja. El propósito de esta inve transmisión. Queremos hacerle unas preguntas sobre su recientemente.	estigación es entender la co	usa de las enfermedades y parar la
PRIVACY: Any information you give to us about yourself (in health officials involved in this outbreak investigation will had to also share this information with management staff at the	have access to the private (data. Do we have your permission
Responder a la entrevista es totalmente voluntario y toc únicas personas que podrían tener acceso a esta inform Podemos compartir esta información con su jefe?		
VOLUMETARY: You are not required to answer questions. H	inwayar your answers will	help us understand how this
outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe	ou don't answer questions, irs. exclusions apply – contact erlo. Sin embargo, sus respi les. Si no responde a las pre	yoʻu will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del
descubrir la causa del brote y prevenir más enfermedad	ou don't answer questions, rs. exclusions apply – contact erlo. Sin embargo, sus respi les. Si no responde a las pre nitir la enfermedad a otras men. Stools will be tested	yoʻu will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del personas. for bacterial and viral pathogens a
outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe Will you answer some brief questions? Si hay preguntas que no deseo contestar, puede no hace descubrir la causa del brote y prevenir más enfermedad trabajo porque no podemos evaluar si Ud. puede transn STOOL SAMPLE: We may ask you to provide a stool specir	ou don't answer questions, irs. exclusions apply – contact of erlo. Sin emborgo, sus respi les. Si no responde a las pre nitir la enfermedad a otras men. Stools will be tested given results when they are estras de heces. Analizame	yoʻu will be excluded from work epi) uestas son importantes para guntos, Ud. va a ser excluido del personas. for bacterial and viral pathogens a e available. os el heces por patágenos
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outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe Will you answer some brief questions? Si hay preguntas que no desea contestar, puede no hace descubrir la causa del brote y prevenir más enfermedad trabajo porque no podemos evaluar si Ud. puede transn STOOL SAMPLE: We may ask you to provide a stool specif MDH. Stool kits and testing are free of charge. You will be El departamento de salud va a hacer exámenes de mun bacterianos y virales. Los exámenes de estas muestras Name (last, first): Nombre (apellido, nombre) Signature: Firma	ou don't answer questions, rs. exclusions apply – contact erlo. Sin embargo, sus respi es. Si no responde a las pre mitir la enfermedad a otras men. Stools will be tested given results when they an estras de heces. Analizama son gratis. Se le dará los re ———————————————————————————————————	you will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del personas. for bacterial and viral pathogens a e available. us el heces por patógenos sultados cuando estén disponibles. Male Female Other Hombre Mujer Otro ne Interview (verbal consent):
outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe Will you answer some brief questions? Si hay preguntas que no desea contestar, puede no hace descubrir la causa del brote y prevenir más enfermedad trabajo porque no podemos evaluar si Ud. puede transn STOOL SAMPLE: We may ask you to provide a stool specif MDH. Stool kits and testing are free of charge. You will be El departamento de salud va a hacer exámenes de mubacterianos y virales. Los exámenes de estas muestras Name (last, first): Nombre (apellido, nombre) Signature:	ou don't answer questions, irs. irs. exclusions apply – contact of erlo. Sin embargo, sus respi les. Si no responde a las pre mitir la enfermedad a otras men. Stools will be tested given results when they are estras de heces. Analizame ison gratis. Se le dará los re ———————————————————————————————————	you will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del personas. for bacterial and viral pathogens a e available. us el heces por patógenos sultados cuando estén disponibles. Male Female Other Hombre Mujer Otro ne Interview (verbal consent):
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outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe Will you answer some brief questions? Si hay preguntas que no desea contestar, puede no hace descubrir la causa del brote y prevenir más enfermedad trabajo porque no podemos evaluar si Ud. puede transn STOOL SAMPLE: We may ask you to provide a stool specif MDH. Stool kits and testing are free of charge. You will be El departamento de salud va a hacer exámenes de mun bacterianos y virales. Los exámenes de estas muestras Name (last, first): Nombre (apellido, nombre) Signature: Firma Address: Dirección	ou don't answer questions, irs. exclusions apply — contact iverlo. Sin embargo, sus respines. Si no responde a las premitir la enfermedad a otras men. Stools will be tested given results when they are estras de heces. Analizame son gratis. Se le dará los re Age: Edad or Phoi City: Ciudad	you will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del personas. for bacterial and viral pathogens a e available. us el heces por patógenos sultados cuando estén disponibles. Male Female Other Hombre Mujer Otro ne Interview (verbal consent):
outbreak happened and prevent further transmission. If yo because we won't know if you could spread illness to othe Will you answer some brief questions? Si hay preguntas que no desea contestar, puede no hace descubrir la causa del brote y prevenir más enfermedad trabajo porque no podemos evaluar si Ud. puede transn STOOL SAMPLE: We may ask you to provide a stool specii MDH. Stool kits and testing are free of charge. You will be El departamento de salud va a hacer exámenes de mus bacterianos y virales. Los exámenes de estas muestras Name (last, first): Nombre (apellido, nombre) Signature: Firma Address: Dirección Zip:	ou don't answer questions, irs. exclusions apply – contact of erlo. Sin embargo, sus respiles. Si no responde a las premitir la enfermedad a otras men. Stools will be tested given results when they are estras de heces. Analizame ison gratis. Se le dará los re Age: Edad or Phote Entre City: Ciudad Phone:	you will be excluded from work epi) uestas son importantes para guntas, Ud. va a ser excluido del personas. for bacterial and viral pathogens a e available. us el heces por patógenos sultados cuando estén disponibles. Male Female Other Hombre Mujer Otro ne Interview (verbal consent):

Nausea	□Y □N			
Vomiting		Onset date/time: /	/	Recovery://
Vómito	□Y □N	Fecha/hora comienzo		Fecha/hora que se recuperó
Cramps	□Y □N			
Colicos Diarrhea		Onset date/time:/_		Recovery://
Diarrea	□Y □N	Fecha/hora comienzo		Fecha/hora que se recuperó
# stools/24 hrs		Duration of diarrhea:	days/ho	urs (if unsure of dates/times)
Cuantas veces en		Duración de diarrea hora:		urs (i) urisure by dutes/times/
24 horas? Bloody stools				
Notó sangre en las	□Y □N			
heces?				
Fever	□Y □N		F	
Calentura/fiebre First symptom:		Temperatura		
Primer síntoma		Onset date/time:/_ Fecha/hora de comienzo	/	
Other symptoms:				
Otros síntomas				
When did you feel of Fecha que se recupe	•	recovered?//		or □ still feeling sick Todavía tiene síntomas
When did you feel of Fecha que se recupe LL EMPLOYEES Are you willing to page and the second disponible and the second you visit a health call to be a second you visit a health call to be a second you wisit a health call you wisit a algun médico page a second you wisit a health call you wisit a algun médico page you wisit a second you wisit a health call you wisit a algun médico page you wisit a second you wisit a health call you will you	orovide a st dar una mu ire provider para esta er	ool sample for testing? estra de heces para analiza for the illness?	□ YES (co	5
When did you feel of Fecha que se recupe LL EMPLOYEES Are you willing to page of the period of the	orovide a st dar una mu ire provider para esta er	ool sample for testing? estra de heces para analiza for the illness? YES nfermedad?	□ YES (co	ntact epi)
When did you feel of Fecha que se recupe LL EMPLOYEES Are you willing to page of the period of the	orovide a st dar una mu ire provider para esta er	ool sample for testing? estra de heces para analiza for the illness?	□ YES (co	ntact epi)
When did you feel of Fecha que se recupe LL EMPLOYEES Are you willing to page and the second disponible and the second feel of the second disponible and the second disponible and the second feel of the second disponible and	orovide a st dar uno mu re provider oara esta er _/ Wh ¿i	ool sample for testing? estra de heces para analiza for the illness? YES nfermedad?	□ YES (co	ntact epi)
When did you feel of Fecha que se recupe LL EMPLOYEES Are you willing to page a disponible a calcium médico page a disp	orovide a st dar una mu ire provider para esta er _/ Wh di e having dia ando tenía l	ool sample for testing? estra de heces para analiza for the illness?	□ YES (co	ntact epi)

				□ YES □ N nida?	0			
If yes, where? How often?								
¿Dond	le?			¿Cuán	seguido?			
				ith diarrhea and/o en su coso con dio			□ YES □ NO	
		/) [enzó a vomitai		amps □Y □N ólicos			stool □Y □N re en las heces?	
		/) [enzó la diarred		ools/24 hrs:) horas.)				
-		ny vomiting inc a alguien vomi		facility? 🗆 YES	□ №			
		here, when): _						
Describ	ba (quien, a	donde, cuando)						
If yes,	did you hel	p clean up the		□YES □NO	o			
If yes,		p clean up the		□YES □NO	•			
If yes, de Ayudo	did you hel ó a limpiarl of your co-	p clean up the lo?	incident?	ng and/or diarrhe	a? □YES □			
If yes, ¿Ayuda ¿Ayuda Have any ¿Ud. sabe	did you hel ó a limpiarl of your co- e si alguno d	p clean up the o? workers been i de sus compañe	incident?		a? □YES □			
If yes, ¿Ayuda ¿Ayuda Have any ¿Ud. sabe Descrit	did you hel ó a limpiarl of your co-	p clean up the lo? workers been i de sus compaña hen):	incident?	ng and/or diarrhe	a? □YES □			
If yes, ¿Ayuda ¿Ayuda Have any ¿Ud. sabe Descrit	did you hel ó a limpiarl of your co- e si alguno d be (who, w	p clean up the lo? workers been i de sus compaña hen):	incident?	ng and/or diarrhe	a? □YES □			
If yes, ¿Ayuda Have any ¿Ud. sabe Describ	did you hel ó a limpiarl of your co- e si alguno d be (who, w ba (quien, c	p clean up the o? workers been ide sus compaña hen): uando)	incident?	ng and/or diarrhe	a? □YES □			
If yes, ¿Ayudo Have any ¿Ud. sabe Describ Describ ring Which of	did you hel ó a limpiarl of your co- e si alguno o be (who, w ba (quien, c to these date:	p clean up the o? workers been i de sus compañe hen): uando) s did you work:	incident? ill with vomiti eros de trabaj	ng and/or diarrhe o ha estado enfen	a? □YES □			
If yes, ¿Ayuda Have any ¿Ud. sabe Describ Describ ring Which of ¿Del domi	did you hel ó a limpiarl of your co- e si alguno o be (who, w ba (quien, c to these date:	p clean up the o? workers been ide sus compaña hen): cuando)	incident? ill with vomiti eros de trabaj	ng and/or diarrhe o ha estado enfen	a? □YES □		SATURDAY	
If yes, ¿Ayuda Have any ¿Ud. sobe Describ Describ ring Which of: ¿Del dom:	did you hel ó a limpiarl of your co- e si alguno o be (who, w ba (quien, c to these date:	p clean up the o? workers been i de sus compañe hen): uando) s did you work: al,	incident? ill with vomiti eros de trabaj ? en cuáles fec	ng and/or diarrhe o ha estado enfen dia estado enfen has trabajó?	a? □ YES E mo con diarrea	o vómito?	SATURDAY Sabado	
If yes, ¿Ayuda Have any ¿Ud. sabe Describ Describ ring Which of: ¿Del dom:	did you hel ó a limpiarl of your co- e si alguno o be (who, w ba (quien, c to these date: ingo	p clean up the o? workers been ide sus compañe hen): uando) s did you work: al,	incident? ill with vomiti eros de trabaj en cuáles fec TUESDAY	ng and/or diarrhe o ha estado enfen has trabajó? WEDNESDAY	a? □ YES E mo con diarrea	o vómito?		
Have any ¿Ud. sabe Describ Describ ving Which of ¿Del dom	did you hel ó a limpiarl of your co- e si alguno o be (who, w ba (quien, c to these date: ingo	p clean up the o? workers been ide sus compañe hen): uando) s did you work: al,	incident? ill with vomiti eros de trabaj en cuáles fec TUESDAY	ng and/or diarrhe o ha estado enfen has trabajó? WEDNESDAY	a? □ YES E mo con diarrea	o vómito?		
Have any ¿Ud. sabe Describ Describ which of ¿Del dom	of your co- esi alguno a be (who, w ba (quien, a to these date: ingo UNDAY pmingo	p clean up the o? workers been i de sus compañe hen): cuando) s did you work: al, MONDAY Lunes	incident? ill with vomiti eros de trabaj en cuáles fec TUESDAY Martes	ng and/or diarrhe o ha estado enfer has trabajó? WEDNESDAY Miercoles	a? □YES □ mo con diarrea THURSDAY Jueves	FRIDAY Viernes	Sabado	

	sota Employee Name: ment <i>of</i> Health
Describe: Describa	
Did you make or	serve any drinks, including adding garnish or ice? YES NO bebidas, incluyendo el hielo o adorno/decoración
Describe: Describa	
go food)? 🗆 YE ¿Preparó (cortó,	any ready-to-eat foods, like salads, breads, or chips (including garnishing plates and packaging to- ES DNO manipuló) alimentos que están listo para comer/pre-hechos, como ensaladas, panes, o las papitas ado el adorno o empaquetado los alimentos pre-hechos)
Describe: Describa	
What were your ¿Cuáles fueron se	other job duties? sus otras funciones del trabajo?
Describe: Describa	
Si tiene diarrea	o vómitos, es importante que no regrese al trabajar en servicios de comida por 72 horas después de recuperarse.

Appendix 10a: Employee Interview *Salmonella* (English)



Appendix 10a: Employee Interview Salmonella

OUTBREAK RESPONSE PROTOCOL

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

SAL	DH Minnesot Departm	ta ent <i>of</i> H	ealth	Date of Interview:// Interviewer:/
			FACILITY • LOCAT Employee Interview	
inve sour	stigation that may b	e associate and stop tra	d with the facility where you wo ansmission. We want to ask you	EALTH] are working on a foodborne illness outbreak rk. The purpose of the investigation is to learn the questions about your work duties in food service and
heal	th officials involved	in this out		test results) is considered private data. Only public tess to the private data. Do we have your permission where you work? YES NO
hap; won	pened and prevent f 't know if you could	further trar I spread illn	smission. If you don't answer qu	your answers help us understand how this outbreak estions, you will be excluded from work because we s apply – contact epi)
food Sain subi Stoo	l). You must submit nonella, you will be mit stool specimens ol kits and testing are	two stool excluded f , you will b e free of ch	samples, collected at least 24 ho rom work until two stool sample	
Nan				
-:				and the second s
-				or Phone Interview (verbal consent):
Add	ress:			City:
Add Zip:	ress:			
Add Zip:	ress:			City:
Add Zip: Job	ress: Title/Description: _			City:Phone:
Add Zip: Job	ress: Title/Description: _			City:Phone:
Add Zip:	ress: Title/Description: _ Have you had any	of the follo	wing symptoms since August 1st	City: Phone:
Add Zip:	ress:	of the follo	wing symptoms since August 1st	City: Phone:
Add Zip:	Title/Description: _ Have you had any o Nausea Vomiting	of the follo	wing symptoms since <u>August 1st</u> Onset date/time://_	City: Phone:
Add Zip:	Title/Description: _ Have you had any of Nausea Vomiting Cramps	of the follow	wing symptoms since August 1st Onset date/time://_ Onset date/time://	City:
Add Zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea	of the follow	wing symptoms since August 1st Onset date/time://_ Onset date/time://	City:
Add Zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs	of the follow of	wing symptoms since August 1st Onset date/time://_ Onset date/time://	City:
Add Zip: Job	Title/Description: Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools	of the follow of	wing symptoms since August 1st Onset date/time:// Onset date/time:// Duration of diarrhea: o	City:
Add Zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptom:	of the follow of	Onset date/time:// Onset date/time:// Duration of diarrhea: of	City:
Add Zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptom: Other symptoms:	of the follow OY ON OY ON OY ON OY ON OY ON OY ON	onset date/time:/ Onset date/time:// Onset date/time:// Duration of diarrhea: of Temperature: ° F Onset date/time://	City:
Addd Zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptom: Other symptoms: When did you feel	of the follow OY ON OY ON OY ON OY ON OY ON OY ON	Onset date/time:// Onset date/time:// Duration of diarrhea: of	City:
Addd Zip:	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptom: Other symptoms: When did you feel	of the follow OY ON OY ON OY ON OY ON OY ON OY ON Completed	wing symptoms since August 1st Onset date/time:// Onset date/time:// Duration of diarrhea: of Temperature: ° F Onset date/time:// recovered?//	City:
Addd Zip:	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptoms: Other symptoms: When did you feel MPLOYEES Did you visit a heal	of the follow OY ON OY ON OY ON OY ON OY ON OY ON Completed th care pro	wing symptoms since August 1st Onset date/time:// Onset date/time:/_/ Duration of diarrhea: of Temperature: of Onset date/time:/_/ recovered?// vider for the illness? □ YES	City: Phone: Ph
Add zip: Job	Title/Description: _ Have you had any of Nausea Vomiting Cramps Diarrhea # stools/24 hrs Bloody stools Fever First symptom: Other symptoms: _ When did you feel If yes, when? _	of the follow OY ON Completed th care pro	wing symptoms since August 1st Onset date/time:// Onset date/time:// Duration of diarrhea: of Temperature: of Onset date/time:// recovered?// vider for the illness? □ YES □ Where?	City:

Do you work at any other food service facilities? ☐ YES ☐ NO If yes, where?					Employee Na	me:	
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): WEDNESDAY THURSDAY FRIDAY SATURDAY SATURDAY SATURDAY 14 15 16 17 18 19	LL EMPLOYEES						
Have any members of your household been ill with the following symptoms since August 1st?							
Vomiting (onset: /)	If yes, where? _			Hov	v often?		
Diarrhea (onset: /)	 Have any members 	of your househo	old been ill wit	h the following s	ymptoms since	August 1st?	□ YES □ NO
Have any of your co-workers been ill with vomiting and/or diarrhea? YES NO Describe (who, when):	Vomiting (onset	:/) □]Y □N Cra	mps □Y □N	Fever □Y □N	Blood in:	stool 🗆 Y 🗆 N
Describe (who, when):	Diarrhea (onset:	:/) [∃Y □N (# stoo	ls/24 hrs:)			
which of these dates did you work? SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY 14	 Have any of your co 	o-workers been i	ll with vomitin	g and/or diarrhe	a? □YES □	ON C	
Which of these dates did you work? SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY 14	Describe (who, v	when):					
Which of these dates did you work? SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY 14							
SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY 14	uring <mark>August 14 - 19</mark> :						
14							
Y							SATURDAY
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?	_						
uring 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?							
uring 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?							
Did you do any food prep?							
Describe: What were your other job duties?	Describe:						
• What were your other job duties?	Did you make or se Describe:	rve any drinks, i	ncluding addin	g garnish or ice?	□YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)? YES	rve any drinks, in y ready-to-eat fo	ncluding addin	g garnish or ice?	□YES □ N		and packaging to
Describe:	Did you make or se Describe: Did you prepare an go food)? YES	rve any drinks, in y ready-to-eat fo	ncluding addin	g garnish or ice?	□YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)? Describe: Describe:	rve any drinks, in ny ready-to-eat fo	ncluding addin	g garnish or ice?	□YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in ny ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in ny ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)? Describe: What were your ot	rve any drinks, in ny ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)? Describe: What were your ot	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to
	Did you make or se Describe: Did you prepare an go food)?	rve any drinks, in y ready-to-eat fo NO her job duties?	oods, like salad	g garnish or ice? Is, breads, or chip	□ YES □ N		and packaging to

Appendix 10b: Employee Interview *Salmonella* (Spanish)



Appendix 10b: Employee Interview Salmonella Spanish

OUTBREAK RESPONSE PROTOCOL

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

MDH Minnesota Department of Health	Date of Interview:// Interviewer:
FACILITY • L Employee Inte	
The Minnesota Department of Health (MDH) and Ramsey Cou investigation that may be associated with the facility where y source of the outbreak and stop transmission. We want to ask any recent illness you may have had.	ou work. The purpose of the investigation is to learn the
El Departamento de Salud de Minnesota está investigando restaurante donde Ud. trabaja. El propósito de esta investi transmisión. Queremos hacerle unas preguntas sobre su tra recientemente.	gación es entender la causa de las enfermedades y parar la
PRIVACY: Any information you give to us about yourself (inclu health officials involved in this outbreak investigation will hav to also share this information with management staff at the fa	e access to the private data. Do we have your permission
Responder a la entrevista es totalmente voluntario y toda l únicas personas que podrían tener acceso a esta informacio Podemos compartir esta información con su jefe?	
VOLUNTARY: You are not required to answer questions. How happened and prevent further transmission. If you don't answ won't know if you could spread illness to others. Will you answer some brief questions?	ver questions, you will be excluded from work because we
Sí hay preguntas que no desea contestar, puede no hacerlo descubrir la causa del brote y prevenir más enfermedades. trabajo porque no podemos evaluar si Ud. puede transmiti	Si no responde a las preguntas, Ud. va a ser excluido del
STOOL SAMPLE: We will be testing stool samples to see if en food). You must submit two stool samples, collected at least Salmonella, you will be excluded from work until two stool submit stool specimens, you will be excluded from work bec Stool kits and testing are free of charge. You will be given resu	24 hours apart. If you have been ill, or test positive for amples in a row test negative for Salmonella. If you don't ause we won't know if you could spread illness to others.
El departamento de salud va a hacer exámenes de heces po bacteria transmitida por la comida). Tiene que enviar dos n enfermo, o el resultado de su muestra es positivo por Salmo dos muestras negativas de Salmonella. Si no envía sus mue sabemos si Ud. podría propagar la enfermedad. Los exáme resultados cuando estén disponsibles.	nuestras de heces, tomadas 24 horas aparte. Si Ud. estuvo onella, Ud. será excluido del trabajo hasta que Ud. tenga stras de heces, será excluido del trabajo porque no
Will you submit stool samples? ☐ YES ☐ NO (exclusions a ¿Está dispuesto a enviar una muestra de heces para a	
	Employee Name:

lame (last, first):					Male Female Other
Nombre (apellido, nom	bre)		Edad		Hombre Mujer Otro
ignature:			or		w (verbal consent): 🗆
irma				Entrevista por e	el telefono
ddress:			City:_		
irección			Ciudao	f	
ip:			Phone	:	
ódigo postal			númer	o de teléfono	
ob Title/Description:					
iombre del puesto/Des		trabajo			
		ving symptoms since Augu	_		
Nausea	Γ .	do enfermo con los siguier	ites sintomas?		
Nausea	□Y □N				
Vomiting	□Y □N	Onset date/time:/_		Recovery: _	
Vómito	N	Fecha/hora con	nienzo	Fecha/hora	que se recuperó
Cramps	□Y □N				
Colicos Diarrhea		Onset date/time: /	,	Recovery:	
Diarrea	□Y □N	Fecha/hora de			que se recuperó
# stools/24 hrs		Duration of diarrhea:			
cuantas veces		Duración de diarrea hora			
en 24 horas.					
Bloody stools Sangre en heces	□Y □N				
Fever		Temperature:	° F		
Calentura/fiebre	□Y □N	Temperatura			
First symptom:	-	Onset date/time:/_	/		
Primer síntoma		Fecha/ hora de primer sí			
Other symptoms:					
Otros sintomas					
When did you fee		d recovered?/_		or □ still fe	eling sick
Cuándo se recupe	ro?			Todavía se s	iente enfermo?
L EMPLOYEES					
		vider for the illness?			sample? □Y □N
		sta enfermedad			muestra de heces?
it yes, when? _ ¿Cuándo?	//-	where? ¿Dónde?		Hospitalized ¿Fue hospitaliz	overnight? 🗆 Y 🗆 N
¿Cuanao?		¿Donae:		noche en el h	6.0
	h 6 2		Due: 0::		repriest.
 Did you work while Fue a trabajar cual 		rrhea and/or vomiting? diarrea/vómitos	□ YES □ N	0	
•			If no when did :	iou return to way	-b2
Si sí, ¿cuándo?				regresó al traba	
a. a., coomate:			2, ¿	9 20 01 11 000)	,

EMPLO	YEES				Employee Na			
		other food serv estaurantes o se		da?			☐ YES	□NO
If y	es, where? _			Hov				
Sis	í, dónde			cuár	itos veces			
				h diarrhea and/o vive en su casa c			☐ YES	□ №
		: /) [omenzó el vóm		mps □Y □N licos				
		: /)						
				g and/or diarrhe ha estado enfer				
		when):						
Qu	ién, cuándo							
ring <mark>Au</mark> g	ust 14 - 19:							
Which	of these dat	es did you work	?					
¿Del d				eve de Agosto, e				
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY		FRIDAY	SATU	RDAY
	14					19	-	_\-
\vdash	DY DN	□Y □N	□Y □N	□Y□N			ПΥ	□N
	□Y □N	□Y □N	□Y □N	□Y □N		□Y □N	□Y	⊔N
_	<mark>ust 14 - 19</mark> : semana del a	laminaa catarce	de Agosto al vi	ernes el diecinue	ove de Annstn			
		-	-	erries er dieciride	ive de Agosto			
		d prep? 🗆 YES anipuló) los alim						
				g garnish or ice?				
				s garriisir or ice: Iorno/decoraciór				
De	scribe:							
				s, breads, or chip		niching plates	and nach	 caring to
	d)? TYES		oous, like salau	s, oreaus, or crit	os (inicidonis gai	maining places	and pace	aging to
¿Prep	aró (cortó, m	anipuló) aliment		to para comer/p alimentos pre-he		o ensaladas, p	anes, o la	as papita
De	scribe:							
		her job duties? otras funciones	del trabajo?					
	is jueron sus							

Appendix 10c: Employee Interview

Waterborne



Appendix 10c: Employee Interview Waterborne

OUTBREAK RESPONSE PROTOCOL

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

		Facility Na		
	-	Employee Int		
associated with the	facility where y	ou work. The purpose of the	investigation is	outbreak investigation that may be to learn the source of the outbreak and ny recent illness you may have had.
health officials invo	lved in this outl		access to the pri	is considered private data. Only public vate data. Do we have your permission vork? ☐ YES ☐ NO
VOLUNTARY: You a	re not required	to answer questions. However	er, your answer	s help us understand how this outbreak
duties restricted) be	cause we won'	ismission. If you don't answer t know if you could spread illi ons? □ YES □ NO (exclusi	ness to others.	may be excluded from work (or your
				nen for testing. Stools will be tested for given results when they are available.
Name (last, first):_			Age:	Male Female Other
Signature:			or	Phone Interview (verbal consent): \Box
Address:			City:	
Zip:			Phone:	:
Job Title/Description	n:			
•				
		a and/or vomiting since XXX		
Vomiting	□Y □N	Onset date/time:/	-/	Recovery://
Cramps	□Y □N		,	
Diarrhea	□Y □N	Onset date/time:/		Recovery://
# stools/24		Duration of diarrhea:	days/hours (if unsure of dates/times)
Bloody stools	□Y □N			
Fever First symptom:	□Y □N	Temperature: ° F		
First symptom.		Onset date/time:/	J	-
Other sympton	ns:			
When did you f	eel completed	recovered?//		or ☐ still feeling sick
ILL EMPLOYEES				
	to provide a st	ool sample for testing?	☐ YES (contact	tepi) 🗆 NO
			` ;	Hospitalized overnight? YES NO
		Where?Where?		Submit a stool sample? YES NO
				-
	-	rrhea and/or vomiting?		
If ves. wher	1?			ou return to work?
		where else since your illness:		☐ YES ☐ NO

MDH Minnesota Department of Health		
ALL EMPLOYEES		
Do you work at any other aquatic facilities?	☐ YES	□ NO
If yes, where? How often?		
\bullet $$ Do you remember any vomiting or fecal incidents at the facility? $\! \Xi \!$	☐ YES	□ NO
Describe (who, where, when):		
If yes, did you help clean up the incident?		
If you have been ill with diarrhea, it is important that you not go swim the end of your symptoms.	iming for a	at least 2 weeks following

Appendix 11a: Employee Illness Screening Form for Norovirus



Employee Illness Screening Form for Norovirus

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

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

Appendix 11b: Employee Illness Screening Form for *Salmonella*



Employee Illness Screening Form for Salmonella

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

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

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



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:
 - a. 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.
 - b. 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 Tennessen 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 sanitize 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). Most quats are ineffective against norovirus. 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).

- 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. Vacumming will aerosolize particles. You can use a steamer. Here is a factsheet on clean-up: Help Prevent the Spread of Norovirus ("Stomach Bug") (http://www.disinfect-for-health.org/wp-

content/themes/disinfect/pdfs/NorovirusPrevent 8.5x11 English Color.pdf)

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



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 <u>Hyperchlorination to Kill Cryptosporidium When Chlorine Stabilizer is NOT in Water (www.cdc.gov/healthywater/swimming/pdf/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-not-in-the-water.pdf)</u> 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 <u>Hyperchloriniation to Kill Cryptosporidium When Chlorine Stabilizer is in Water (www.cdc.gov/healthywater/swimming/pdf/hyperchlorination-to-kill-crypto-when-chlorine-stabilizer-is-in-the-water.pdf)</u> 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. <u>Cryptosporidiosis (Cryptosporidium)</u> (www.health.state.mn.us/divs/idepc/diseases/cryptosporidiosis/crypto.pdf)

- b. <u>Important Notice to All Swimmers</u> (www.health.state.mn.us/divs/idepc/dtopics/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 13: Traceback Information Gathering Worksheet



Traceback Information Gathering Worksheet

Use interviews, observations, and records to collect information about the product of interest during the time period of interest.

Goal: Determine, with what level of certainty (definitely not, possibly, probably, definitely) specific incoming shipments received by the firm were included in outgoing shipments (or sales) during the timeframe of interest.

Product of Interest:

Timeframe of Interest:

Investigational Traceback

	Traceback Task	Notes
1.	Establishment name and address.	
2.	Epi data (to share with industry as needed).	
3.	Identify the shelf life and average daily use of the product.	
4.	Determine the regular suppliers or distributed for the product of interest during the time frame of interest (include manufacturer name and production facility address).	
5.	Collect product identifiers (brand, food type, size, container type, lot codes, UPC, SKY, PLU, production dates, pull dates) for the product of interest.	
6.	Collect lot codes, sell-by dates, and/or use-by dates for these products.	
7.	Obtain clear digital photos of product or label, if possible.	Send photos via email

	Traceback Task	Notes
8.	Document how the product is received (box description, fresh/frozen).	
9.	Obtain invoices and inventory for the product for the time period of interest.	Send invoices via email
10.	Determine how and when the product is ordered and how often the firm receives the product (frequency, specific days of the week, etc.).	
11.	Determine or estimate transportation time from supplier to point-of-service.	
12.	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.).	
13.	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.	
14.	Determine if the firm received any non-routine shipments of the product of interest.	
15.	Identify any on-site handling/preparation/repacking that created opportunities for cross contamination or mishandling at the facility.	
16.	Identify if anything affected normal handling or ordering of the implicated product.	
17.	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: Foodborne Illness Investigation Procedure



Protecting, Maintaining and Improving the Health of All Minnesotans

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



Resources

Minnesota Department of Health (www.health.state.mn.us)

- Foodborne Illness (www.health.state.mn.us/divs/idepc/dtopics/foodborne/)
- Waterborne Illness (www.health.state.mn.us/divs/idepc/dtopics/waterborne/)
- Zoonotic Diseases: Disease Transmitted from Animals to Humans (www.health.state.mn.us/divs/idepc/dtopics/zoo/)
- <u>Licensing: Food, Pools, and Lodging Services</u>
 (www.health.state.mn.us/divs/eh/food/license/)

Centers for Disease Control and Prevention (www.cdc.gov/ncezid/dfwed/)

State and Local Environmental Health Delegated Agencies

- <u>Licensing Jurisdiction: Food, Pools, and Lodging Services</u>
 (www.health.state.mn.us/divs/eh/food/license/delegation.html)
- Minnesota State and Local Food, Pools and Lodging Contacts (www.health.state.mn.us/divs/eh/food/license/locals.pdf)

Map of Field Services Epidemiologists in Greater Minnesota (www.health.state.mn.us/divs/idepc/epis.html)

Foodborne & Waterborne Illness Hotline

- Reporting Suspected Foodborne and Waterborne Illness
 (www.health.state.mn.us/divs/idepc/dtopics/foodborne/reporting.html)
- Call to report foodborne illness
 - 651-201-5655
- Toll-free statewide
 - 1-877-366-3455
 - 1-877-FOOD ILL
- Email
 - health.foodill@state.mn.us

Minnesota Department of Health
Environmental Health Division
Infectious Diseases Epidemiology, Prevention and Control Division
www.health.state.mn.us
10/2017
To obtain this information in a different format, call: 651-201-4500. Printed on recycled paper.