

Horn, Patricia <tricia_horn@nps.gov>

Fwd: Legionella Environmental Assessment (Quapaw Bath & Spa)

1 message

Miller, Laura <laura_a_miller@nps.gov> To: Patricia Horn <tricia_horn@nps.gov> Thu, Apr 18, 2019 at 11:21 AM

------ Forwarded message ------From: Kesteloot, Kurt <kurt_kesteloot@nps.gov> Date: Mon, Aug 27, 2018 at 6:16 AM Subject: Re: Legionella Environmental Assessment (Quapaw Bath & Spa) To: Kostamo, David <david_kostamo@nps.gov> Cc: Laura Miller <laura_a_miller@nps.gov>, Said, Maria <maria_said@nps.gov>

Good Morning!

Thanks Maria and David.

David,

I notice #25 says the lowest recorded temperature was 109 Deg. F. That is too high. The highest temperature should be 104 Deg. F. Sid knows that. Can you please reflect that in your report when you send to the park?

Thank You and Very Respectfully,

Kurt

CDR Kurt Kesteloot, PE, BCEE, USPHS Supervisory Public Health Consultant, Midwest Region National Park Service,Office of Public Health (OPH), 601 Riverfront Drive Omaha, NE 68102 Office Phone: 1-402-661-1718 Office Fax: 1-402-661-1719 Cell Phone: 1-202-641-0055 Email: Kurt_Kesteloot@nps.gov



Attention Federal Employees Only: Please let us know how we are doing by completing a survey found at: https://www.surveymonkey.com/s/NPS-OPH-CustServ

"The NPS One Health Network: promoting and protecting the health of all species and the parks that we share."

On Fri, Aug 24, 2018 at 3:20 PM, Kostamo, David <david_kostamo@nps.gov> wrote: Hi Laura and Maria, Here (attached) is the Legionella Environmental Assessment for the Quapaw Bath and Spa. If you have any questions please contact me.

Thank you,

David

David Kostamo PE, RS, CP-FS Public Health Consultant National Park Service Midwest Region Office: (402) 661-1782 Cell: (202) 591-6449 601 Riverfront Dr. Omaha, NE 68102 david_kostamo@nps.gov



Attention Federal Employees Only: Please let us know how we are doing by completing a survey found at: https://www.surveymonkey. com/s/NPS-OPH-CustServ

Laura A. Miller Superintendent Hot Springs National Park 101 Reserve Street Hot Springs, AR 71901 501.623.2824 870.302.9250 (cell) 501.624.1037 (fax) www.nps.gov/hosp



LEGIONELLA ENVIRONMENTAL ASSESSMENT FORM

Persons completing the assessment:	Public Health	
Name: COR David Kostamo	Job Title: Consultant	Organization: <u>NPS</u>
Telephone: 402 661 1782	E-mail: david_ Kast	amo@nps.gov
Name:	Job Title:	Organization:
Telephone:	E-mail:	e 1
Assessment details:		
Facility Name: Qua Paw Bath A	Spa Date of	Assessment: 8/23/18
Facility Address: <u>413 Central Aue</u> street	- Hot Springs	AR 71901 state zip
Person(s) interviewed during assessment:		
Name: Sid Kennedy	Job Title: Maintenance	Director
Name:		
Name:		
	500 mile.	
 YES → If yes, skip to 0.3 & also complete XNO If NO, indicate type of facility (check all that a Senior living facility (e.g., retirement hom Other residential building (e.g., apartmen Hotel, motel, or resort Recreational facility (e.g., health club, wa Office building Manufacturing facility Restaurant Other Health & Beautres 	pply): e without skilled nursing care) t, condominium) ter park)	
. Total number of buildings on campus:	•	ing assessed:
. Total number of rooms that can be occupied of		
Does occupancy vary throughout the year?	D YES D NO	
If YES, seasons with lowest occupancy (check		
Winter Spring Summer F K Are any occupant rooms taken out of service		low season?
	anning apennie parta or nie yedi, e.g.	In the second
	Later Street	THE REAL PROPERTY OF
YES NO If YES, which rooms? C.Legionella Environmental Assessment Form [w	Antinophanasanasanas	

¥.	Average length of stay for occupants (check one):
	□ 1 night □ 2-3 nights □ 4-7 nights □ >7 nights
8.	Does the facility have emergency water systems (e.g., fire sprinklers, safety showers, eye wash stations)?
	ŹYES □ NO
	If YES, are these systems regularly tested (i.e., sprinkler head flow tests)? 🖄 YES 🗆 NO
	If YES, how often and when was the last test? <u>Sprinizler</u> System
9.	Are there any cooling towers or evaporative condensers on the facility premises?
	\Box YES \rightarrow If yes, also complete Appendix B.
	≫ <n0< th=""></n0<>
10.	Are there any whirlpool spas, hot tubs, or hydrotherapy spas on the facility premises?
	\mathbb{H} , YES \rightarrow If yes, also complete Appendix C.
	□ N0
	Are there any decorative fountains, misters, water features, etc. on the facility premises?
3	∠ YES → If yes, also complete Section D.
12.	Does the facility have centralized humidification (e.g., on air-handling units) or any room humidifiers?
	I YES ZKNO
	If YES, describe their location and operation:
3.	Has there been any recent (last 6 months) or ongoing major construction on or around the facility premises?
	☐ YES → If yes, also complete Appendix E.
	29L NO
	Has this facility been associated with a previous legionellosis cluster or outbreak?
	I YES X NO
	If YES, please describe number of cases, dates, source if found, and any interventions (immediate and long-term) to preven recurrence:
1	
	Does the facility have a water safety plan or Legionella prevention program?
	VES SELNO
	If YES, does the facility ever test for <i>Legionella</i> in water samples?
	\Box YES \rightarrow If yes, obtain copies of results \Box NO
	If YES, please describe the plan briefly here (does it include clinical disease surveillance and/or environmental Legionella surveillance?) and obtain a written copy of the program policy:
0	

	Original Construction	Later Construction (renovation, expansion)	Stories or Levels	Occupancy rate (%)*	Daily Census (yr. avg.)	Use (List all types of uses)
Building Name (List main facility building first)	Year Completed	From/To or "N/A"	Ħ	Rate (%) or "N/A"	#/day or "N/A"	e.g., occupant rooms, utilitie heating/AC plant For healthcare, specify: Outpatient = 0 Inpatient (acute) = 1 Chronic = C Intensive care = ICU Transplant = Tx
1. Que Paw Bath & Spa	1921	2008	3	N/A	NIA	Tourist Heal Spa
2.						
3.						
4,						
5.						
6.						
7.				-		

Water Supply Source

17. What is the source of the water used by the facility? (Check all that apply)

	🗵-Municipal water if YES:
	Name of supplier City of Hot Springs
	How is the municipal water disinfected? (Check one) 🌫 Chlorine 🛛 Monochloramine 🗅 Other
	Has treatment of municipal water changed in the past year? 🗇 YES 🛛 NO
	2-Non-municipal well if YES:
	How is the well water disinfected? (Check one) State Chlorine Conter Not disinfected ls the water filtered onsite? The YES CON NO
	& Other Thermal Spring Water
18	Have there been any pressure drops, boil water advisories, or water disruptions (e.g., water main break) to the facility in the past 6 months? 🖄 YES 🗆 NO
	If YES, describe what happened and which buildings or parts of buildings were affected: Pressure
	was low of a few hours on Monday August
	Was low of a few hours on Monday August 20, 2018
19.	Does the facility monitor incoming water parameters (e.g., residual disinfectant, temperature, pH)?
	\Box YES \rightarrow If yes, obtain copies of the logs 32, NO
	If YES, what is the range of disinfectant residual, temperature, and pH entering the facility?
	Premise Plumbing System
	Note: It is important to gain an understanding of where and how water flows, starting where it enters the facility and including its distribution to and through buildings to the points of use. Understand water processes, including but not limited to: heating, storage, filtration, UV irradiation, and addition of secondary disinfectants. Refer to a facility map and blueprints; <i>obtain copies of these and/or draw a diagram</i> and include with the completed assessment.
20.	Are cisterns and/or water storage holding tanks used to store potable water before it's heated?
	VES DELNO
21.	Is there a recirculation system (a system in which water flows continuously through the piping to ensure constant hot water to all endpoints) for the hot water?

YES DENO

If YES, please describe where it runs and delivery/return temperatures if they are measured:

22. Are thermostatic mixing valves used?

SK YES	D NO							
If YES, des	cribe where the	y are locate	d (ideally, i	mixing va	lves are cl	ose to the point	of use):	
Ind	ividual	tubs	that	use	City	water	USR	thermostatic
mix	ing value	s.						

5 | CDC Legionella Environmental Assessment Form | www.cdc.gov/legionella/outbreak-toolkh/

23. How is the hot water system configured to deliver hot water to each building?

Building name	Type of system (e.g., instantaneous heater, hot water heater with a storage tank, solar heating)	Name of system (e.g., Boiler #1, Loop #1)	Areas served (e.g., floor, rooms)	Date of installation	Total capacity (gallons)	Usual temperature setting (°F)
1. Qua Paw Bath & SPA 2	Thermal System	Thermal system	1st Floor 4 spa Pools	1921	8700 gal 6250 gal 7250 gal 5200 gal	99-10-10
3.						
4.						
5.	-		_			
6.						
7.						

143° °F	0.0			
		measured by the facility at the	points of use?	
			points of use:	
		f the temperature logs	ve measured at any solet wi	this the facility?
IT YES, Wha	t is the lowest doo	umented hot water temperatu	re measured at any point wi	thin the facility?
1070	F OF	G documented on (Month/Dat	Constant on	alog temp. recorder
		r measured by the facility at th	e points of use?	
	A Contract of the second s	the temperature logs		
		cumented cold water tempera		
	For °	C documented on (Month/Da	te/Year)//	
25-NO				
27. Are the potable	e water disinfectan	t levels (e.g., chlorine) ever me	asured by the facility at the	points of use?
S YES → If ye	s, obtain copies of	the logs	1	
If YES, how	often are they me	asured? 4 time	es per day	
If YES, list t	he range of disinfe	asured? + ime ctant residuals	mall Clr	esidual
D NO			0	
28. Does the facilit	v have a suppleme	ental disinfection system for lor	no term control of Legionella	or other microorganisms?
□ YES ≥~N			ig term control anglenome	er enner milleren gemeiner.
		and maintenance on smill on a	metal and an and an and	a of disinfection levels and
complete the ta		e and maintenance as well as r	naintenance logs and record	is of disinfection levels, and
complete the ta	1016.			
	Contractory Contractory		The second second second second second	
A STREET, SA		Type of system		Describe any maintenance
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build			Date installed	
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build supplement	ings with tal disinfection	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build	ings with tal disinfection	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build supplement	ings with tal disinfection	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Build supplement	ings with tal disinfection	(e.g., chlorine, chlorine dioxide,	Date installed	in the past year
Buildi supplement	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver)		In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)
Buildi supplement Comments/Note	ings with tal disinfection	(e.g., chlorine, chlorine dioxide, copper-silver) (either routine or emergency) o	carried out on the potable wa	In the past year (include routine and emergency)

 ∞
 30. Measured Water System Parameters (see instructions on p. 1)

Copy from tabl	e for question 23 (p. 6)	Part of system	Sampling site			Trantana	
Building name	Name of system (e.g., incoming water, Boiler #1, Loop #1)	(Central heater/ boiler≕C Proximal occupant room=P Distal occupant room=D)	(e.g., heater #1, hot water tap in room #436)	Free chlorine (ppm)	рH	Maximum measured temperature (°F)	Time to rea max tem (min)
Quapaw Bath& spa	SPA Pools Left		Leff Paol	0RP 630 3.00 mg L	9,6		-
"	risht		Right Pool	0 R P 630	9.D	-	1
(1	UPPer		upper Pool	0 R P 605	9.4	-	-
()	Center		Center Pool	0RP 635	8.8	_	1
	e.						
			and addressed as the				
	(1	-		

NIA

Note: Complete for all healthcare facilities, including but not limited to hospitals, long term care/rehab/assisted living/skilled nursing facilities, or clinics.

1. Type of healthcare facility (check all that apply):

Acute care hospital

If YES, does the facility have a solid organ or bone marrow transplant program?

- I YES I NO
- Long term care facility (i.e., nursing home, long term acute care)
- Rehabilitation facility or other skilled nursing care
- □ Assisted living facility
- Outpatient surgical center
- Other outpatient clinic (describe): _____
- 2. Number of beds: ____
- 3. Are ice machines used to provide ice for patient consumption or processing medical equipment?
 - U YES U NO
 - If YES, list manufacturer and model or catalog number:
- Has this facility experienced previous Legionnaires' disease cases that were "possibly" or "definitely" facility-acquired?
 YES D NO

If YES, describe (e.g., number of cases, dates): ____

A-1 CDC Legionella Environmental Assessment Form | Appendix A: Healthcare Facilities

APPENDIX B. COOLING TOWERS AND EVAPORATIVE CONDENSERS

NIA

Note: It is important to gain an understanding of where the cooling towers are located, how they work, and how they are maintained. Cooling towers are frequently maintained by an outside contractor, and you may need to contact them directly if facility management does not have an in-depth knowledge of these systems. Request copies of the maintenance logs.

1. List all cooling towers and evaporative condensers on the facility premises:

Name of device (e.g., CT1)	Date Installed	Manufacturer	Location of device	Distance to nearest air intake*/location of the air intake/ passive or forced	Drift eliminators used? (Y/N)	Party responsible for maintenance
the to air bandling with t						

intakes to air handling units (AHUs)

2. List details of how each cooling tower is chemically disinfected:

Name of device from Table 1 (e.g., CT1)	List type/name of bactericide(s) used	Range in which the bactericide(s) is regularly maintained (e.g., 5–10 ppm)	Schedule and method of adding bactericide (e.g., daily, weekly, as needed, automatic, by hand)	Are cooling towers turned off at any time? (e.g., seasonally) (V/N) If yes, include schedule
	N			

3. List recent (last 6 months) special (non-routine) treatments, maintenance, or repairs to cooling devices: N/15

B-2 CDC Legionella Environmental Assessment Form | Appendix B: Cooling Towers and Evaporative Condensers

	Name of device from Table 1 (e.g., CT1)	Action taken	Date	Comments
			+ +	
-				
2 n	one the cooling tower unter some from	a benaria of the south the state of the stat	1	
	YES IN NO	a branch of the potable water system inside the	acility?	
If	YES, are backflow prevention devices in YES U NO	place to ensure cooling tower water is not introc	luced into the potable water	system?
		cooling towers and evaporative condensers?		
5 0	n onunindone in any and a second			
		Idings have windows that can be opened: Drt_ncuer_opened:	these window	us (offices and building
1				
-				

APPENDIX C. WHIRLPOOL SPAS, HOT TUBS, AND HYDROTHERAPY SPAS

Note: Do NOT complete Appendix C for Jacuzzis or whirlpool baths that are filled from the tap and drained after each use. In many jurisdictions, whirlpool spas are publicly permitted and inspected by the local health authority. An environmental health specialist with expertise in pool and spa inspection should participate in assessment of spas and will be aware of local regulations and enforcement powers, as well as have access to a pool sampling kit. Request copies of the last inspection report as well as routine maintenance logs.

- 1. Who performs the spa maintenance (e.g., on-site facilities management, name of outside contractor)? 5: d Kennedy
- 2. Describe each whirlpool spa and how it is disinfected:

Spa Questions	Spa Descriptor/Location (e.g., main pool, private room #)						
Indoorjor outdoor?	1 Left	2 right	3 upper	4 Cent			
Max, bather load	•	J		1.001			
Filter type S = sand DE = diatomaceous earth, C = cartridge	DE	DE	DE	DE			
Date filter was last changed	Manual back	Jash @ 30psi	(~ every 7	-10 doys)			
Date of last filter backwash				0,			
Compensation tank present?	Expansion +	ank of clos	ed boiler :	System			
Type of disinfectant used (include chemical name, formulation, and amount used)							
Current measured disinfectant level (e.g., free chlorine, bromine) (ppm)	3.00ppm	Not tested	not tested	not tested			
Current measured pH	9.6	9.0	9.4	8.8			
Method used for adding disinfectant (e.g., automatic feeder, by hand)	Automatic chemical Pump	Same	Same	Same			
Method used for monitoring and maintaining disinfectant and pH levels (e.g., automatic controllers)	ORP	ORP	ORP Monitor	ORP			
Date last drained and scrubbed	8/21/18	8/21/18	8/21/18	8/21/18			
Was there a recent disinlectant "shock" treatment?	NO	NO	NO	NO			
Operating as designed and in good repair? If no, describe issues.	Yes	Yes	Yes	Yes			

APPENDIX D. OTHER WATER FEATURES

Note: Complete for decorative fountains, water walls, recreational misters, etc. This can also be modified for industrial use water. If SOPs and/or maintenance logs exist, request copies.

Water Feature Questions	Water Feature Descriptor/Location (e.g., lobby fountain, cabana misters)				
	Wall Fountain	an and Manager and Andreas Schenhalter pro-			
Indoor or outdoor?	Indoor				
Source of water	City Water				
Operates continuously (C) or intermittently (I)	Continuously				
Presence of a heat source? (e.g., incandescent lighting)	ND				
Type of disinfectant used (include chemical name, formulation, and amount used)	chlorine				
Current measured disinfectant level (e.g., free chlorine, bromine) (ppm)	N/A Broke at time of assessment				
Current measured pH	N/A Broke at time of Assessment				
is there a maintenance protocol?	NO				
Date last cleaned	8/24/18				
Operating as designed and in good repair? If no, describe issues.	Yes				

APPENDIX E. RECENT OR ONGOING MAJOR CONSTRUCTION NONE

	Describe in general the extent of the construction:					
	Was temporary water service provided to the new construction area (i.e., separate meter)?					
	🗆 YES 🖾 NO					
	If YES, describe:					
	Has jack-hammering or pile-driving been used during the construction process?					
	I YES I NO					
	If YES, list dates and locations:					
	Have there been disruptions or changes to the existing potable water system during the construction?					
	I YES I NO					
If YE	If YES, describe:					
H	las the potable water changed in terms of taste or color during the construction process?					
	VES D NO					
lf	If YES, describe the changes including when they started and ended:					
	Is there a standard operating procedure (SOP) for shutting down, isolating, and refilling/flushing for water service areas that have been subjected to repair and/or construction interruptions?					
	TYES INO					
١f ١	If YES, briefly describe the steps used in the SOP (attach a copy if possible):					
	Was the potable water system flushed before occupying the new building space?					
	TYES INO					
	If YES, what period of time passed between flushing and when the building was occupied?					
	Complete table on next page.					

	began or restarted*	Independent=I Extension of existing system=E	(# and Ft ⁻)	(e.g., rooms, dining, recreation, utilities) For healthcare: Inpatient = 1 Outpatient = 0 Both = B Intensive Care = ICU	occupants began occupying new or remodeled building	(CI OI
				Both = B Intensive Care = ICU Transplant = Tx		



Re: Legionnaire Case CDC (Arkansas)

1 message

Miller, Laura <laura_a_miller@nps.gov>

To: Maria Said <maria_said@nps.gov>

Cc: "Kesteloot, Kurt" <kurt_kesteloot@nps.gov>, David Kostamo <david_kostamo@nps.gov>, Mark Scott <mark_scott@nps.gov>, Patricia Horn <tricia_horn@nps.gov>, Subria Spencer <subria_spencer@partner.nps.gov>

Thank you all for your rapid response and assistance in this!

Laura

On Thu, Aug 23, 2018 at 1:08 PM, Maria Said <maria_said@nps.gov> wrote:

I heard back from the state heath department re the case report form -- they cannot share specific health information, but their form only asks about whirl pools, hot tubs, spas, humidifiers, breathing machines, oxygen, or showers. If we hear of another case, they would then drill down further to try and better understand common exposure sources.

On Thu, Aug 23, 2018 at 1:45 PM Maria Said <maria_said@nps.gov> wrote:

Here is the link to the ASHRAE Guidance on Legionella I mentioned on the phone -- https://www.ashrae.org/tech nical-resources/bookstore/ansi-ashrae-standard-188-2018-legionellosis-risk-management-for-building-watersystems

The CDC includes the ASHRAE Guidance on their website, as well as some other materials - https://www.cdc.gov/legionella/resources/guidelines.html

Maria

On Thu, Aug 23, 2018 at 12:57 PM Maria Said <maria_said@nps.gov> wrote: Here is a proposed agenda -- but we can adjust however you think best. Maria

1. Introductions (Everyone)

2. Brief background on legionella (Maria)

2. Update from the park on any history with legionella, any concerns with the spa

3. Update on environmental assessment (David Kostamo) and any additional thoughts on the water system (Kurt)

3. Next steps in response (All)

On Thu, Aug 23, 2018 at 12:35 PM Kesteloot, Kurt <kurt_kesteloot@nps.gov> wrote: Hi Maria,

No worries, talk to you soon.

Thank You and Very Respectfully,

Kurt

CDR Kurt Kesteloot, PE, BCEE, USPHS Supervisory Public Health Consultant, Midwest Region National Park Service,Office of Public Health (OPH), 601 Riverfront Drive Omaha, NE 68102 Office Phone: 1-402-661-1718 Office Fax: 1-402-661-1719 Thu, Aug 23, 2018 at 2:55 PM

Cell Phone: 1-202-641-0055 Email: Kurt Kesteloot@nps.gov



Attention Federal Employees Only: Please let us know how we are doing by completing a survey found at: https://www.surveymonkey.com/s/NPS-OPH-CustServ

"The NPS One Health Network: promoting and protecting the health of all species and the parks that we share."

On Thu, Aug 23, 2018 at 11:33 AM, David Kostamo <david_kostamo@nps.gov> wrote: Sounds good. Thank you Maria. David

Sent from my iPhone

On Aug 23, 2018, at 11:30 AM, Maria Said <maria_said@nps.gov> wrote:

Sorry! I realized I made the meeting invite for 12pm central time rather than 1pm central -- I am actually free to meet at that earlier time, so if it's okay with everyone, let's keep the time listed in the calendar invite -- 12pm central, 1pm ET. Talk to you all soon. Maria

On Thu, Aug 23, 2018 at 9:50 AM Kostamo, David <david_kostamo@nps.gov> wrote: Hi Maria,

Sounds good .. talk to you then.

Thank you, David

David Kostamo PE, RS, CP-FS Public Health Consultant National Park Service Midwest Region Office: (402) 661-1782 Cell: (202) 591-6449 601 Riverfront Dr. Omaha, NE 68102 david kostamo@nps.gov



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On Thu, Aug 23, 2018 at 8:31 AM, Maria Said <maria_said@nps.gov> wrote: Hi David, I look forward to talking later this afternoon and hearing more about the park, the water system, and your environmental assessment. I just spoke with a state epidemiologist who has had a lot of experience with Legionella, and based on our conversation, there is a good argument for possibly not pursuing legionella testing at this point. I will explain the rationale more when we talk this afternoon - and we can discuss together the next best steps forward.

Maria

Sent from my iPhone

On Aug 23, 2018, at 9:13 AM, Kostamo, David <david_kostamo@nps.gov> wrote:

Good morning Kurt,

I concur on inquiring if the person had contact with other park fountains/waterfalls would be helpful (hopefully the initial report covers all the places the person visited as a few are listed). I am not aware of contact information for the individual but we may be able to obtain from the State of Arkansas Health Department.

Thank you,

David

David Kostamo PE, RS, CP-FS Public Health Consultant National Park Service Midwest Region Office: (402) 661-1782 Cell: (202) 591-6449 601 Riverfront Dr. Omaha, NE 68102 david_kostamo@nps.gov



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On Thu, Aug 23, 2018 at 6:56 AM, Kesteloot, Kurt <kurt_kesteloot@nps.gov> wrote:

Good Morning David,

I have attached the PHA pages from earlier this year that refer to water testing recommendations for the Quapaw and the rec water report. The facility agreed to test within 60 days. Today will mark 90 days from that inspection. With this recent finding and past lack of testing by this facility, I think we need to have a call with Quapaw and the park to determine steps forward. I would like to see the testing completed that was recommended and any testing needed after your assessment today.

When seeking a lab here is what CDC recommends.

Consultant Considerations | Legionella | CDC

 Laboratory expertise: For example, is the laboratory they use accredited for environmental testing? Does it participate in a proficiency testing program for Legionella? Does their laboratory perform culture for Legionella (which is particularly important following remediation to ensure adequacy of the remediation process)? What level of identification (species/serogroup) can their laboratory perform? Is their laboratory willing to save samples and isolates and share them with public health laboratories if requested during an outbreak investigation?

Thanks again for sharing the Legionella notice.

Here is another link that OSHA has for information: https://www.osha. gov/dts/osta/otm/legionnaires/sampling.html it is similar to the CDC information at: https://www.cdc.gov/legionella/health-depts/environmental-invresources.html.

Lastly, the park has several water fountains/waterfalls. Does anyone have contact information for the person that tested positive for Legionella? I think we should ask them if they drank and/or had contact with water at other locations in the park.

Thank You and Very Respectfully,

Kurt

CDR Kurt Kesteloot, PE, BCEE, USPHS Supervisory Public Health Consultant, Midwest Region National Park Service, Office of Public Health (OPH), 601 Riverfront Drive Omaha, NE 68102 Office Phone: 1-402-661-1718 Office Fax: 1-402-661-1719 Cell Phone: 1-202-641-0055 Email: Kurt_Kesteloot@nps.gov



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On Wed, Aug 22, 2018 at 4:09 PM, Kostamo, David <david_kostamo@nps.gov> wrote: Hi Dr. Said,

HOSP (Hot Springs) park received a report (please see attached) from the CDC stating a diagnosed case of Legionnaires disease. In the report it states that one of the facilities visited by this person was the Quapaw Baths and Spa which is a concessionaire in a NPS facility. Today I met with Superintendent Laura Miller and staff. I recommended that the facility conduct some testing in response to the report. Could you provide some feedback on conducting the testing and any information about what tests would be recommended and/or who to contact for additional information and guidance. If you have any questions please contact me.

Thank you,

David

David Kostamo PE, RS, CP-FS Public Health Consultant National Park Service Midwest Region Office: (402) 661-1782 Cell: (202) 591-6449 601 Riverfront Dr. Omaha, NE 68102 david_kostamo@nps.gov



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Maria Said, MD, MHS | CDR, U.S. Public Health Service Epidemiology Branch Chief | Office of Public Health | National Park Service Address: 1849 C. Street, NW, Room 2543, Mailstop 2560 | Washington, DC 20240 Office Tel: 202-513-7151 | Email: maria_said@nps.gov Website (public): https://www.nps.gov/orgs/1878/index.htm Website (internal): https://sites.google.com/a/nps.gov/in2-protect-and-promote-health/home/ disease-surveillance-response

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Laura A. Miller Superintendent Hot Springs National Park 101 Reserve Street Hot Springs, AR 71901 501.623.2824 870.302.9250 (cell) 501.624.1037 (fax) www.nps.gov/hosp





Fwd: Legionnaire Case in Arkansas Update

1 message

Miller, Laura <laura_a_miller@nps.gov> To: Patricia Horn <tricia_horn@nps.gov>, Mark Scott <mark_scott@nps.gov> Fri, Aug 24, 2018 at 3:53 PM

FYI.

------ Forwarded message ------From: Kesteloot, Kurt <kurt_kesteloot@nps.gov> Date: Thu, Aug 23, 2018 at 2:19 PM Subject: Legionnaire Case in Arkansas Update To: Duane Bubac <Duane_Bubac@nps.gov>, Sara Newman <sara_newman@nps.gov>, Tracy Simmons <tracy_simmons@nps.gov> Cc: david kostamo <david_kostamo@nps.gov>, "Said, Maria" <maria_said@nps.gov>, "Miller, Laura" <laura a miller@nps.gov>

Good Afternoon,

We had a great discussion at noon today with Dr. Said, HOSP Management, and etc. Thank you to LCDR Kostamo for on the ground work and CDR Maria Said for further research.

We cannot confirm that Legionella was transmitted at HOSP Quawpaw. We cannot confirm if or where it happened at HOSP. There are many potential locations where a legionella environment could occur in the Park and nearby. With research from Dr. Said, it is advised that we do not do environmental testing until we have a cluster of cases. If we find out about another case, we will be able to ask more questions to determine if they are linked and where it may have happened.

Meanwhile, the NPS OPH will continue to work with HOSP on minimizing risk for Legionella and other recreational water concerns. I recommended testing for the Quapaw in May of this year and they were given 60 days to comply. We are now at 90 days and the Park is assisting them to help conduct recommended pool/spa water quality testing.

OPH will also be talking to the Park more about disinfecting the thermal water at HOSP. Currently the water temperature ranges from 143 degrees Fahrenheit to 146 degrees Fahrenheit (F). The food code requires food to be held at 135F. Thus, the park has been operating under the requirement that all thermal water that is potable must leave the spigots at 135F. There are several other areas where visitors can be exposed to aerosolized water that is non potable. We are talking about providing disinfection for those waters to help reduce risk of Legionella. It is also important to note this is the only confirmed case of Legionnaire that we have heard about for HOSP since 2010.

I will update as we find out more information and welcome any questions, comments, or concerns.

Thank You and Very Respectfully,

Kurt

CDR Kurt Kesteloot, PE, BCEE, USPHS Supervisory Public Health Consultant, Midwest Region National Park Service,Office of Public Health (OPH), 601 Riverfront Drive Omaha, NE 68102 Office Phone: 1-402-661-1718 Office Fax: 1-402-661-1719 Cell Phone: 1-202-641-0055 Email: Kurt_Kesteloot@nps.gov



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