2020 Consumer Confidence Report

Water System Name: Laguna Seca Rec. 270.2009.001 & .005 Report Date: 5/10/2021

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2020 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Laguna Seca Recreation Water System a Highway 68 para asistirlo en español.

这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Laguna Seca Recreation Water System 以获得中文的帮助: Highway 68, 831.236.0784

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Laguna Seca Recreation Water System, Highway 68 o tumawag sa 831.236.0784 para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Laguna Seca Recreation Water System tại Highway 68 để được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Laguna Seca Recreation Water System ntawm Highway 68 rau kev pab hauv lus Askiv.

Type of water source(s) in use: Wells	
Name & general location of source(s): Well #1 & Well #5, Highway 68; Salir	nas, CA 93925
Drinking Water Source Assessment information: Well #1: See attached; dated	l June, 2002. Well #5: None
Time and place of regularly scheduled board meetings for public participation:	Time and place TBA
For more information, contact: <u>Rick Garcia</u>	Phone: (831) 682.8177

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (U.S. EPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

 $\boldsymbol{ppb}\!:$ parts per billion or micrograms per liter $(\mu g/L)$

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – S	TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA								
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria				
Total Coliform Bacteria (state Total Coliform Rule)	(In a month)	2*	1 positive monthly sample ^(a)	0	Naturally present in the environment				
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	Coliform or E. coli (In the north) (In the potal Coliform Rule) (In the month) (In the sample are total coliform and one of these is also		A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	orm positive, waste					
E. coli (federal Revised Total Coliform Rule)	(In the year)	0	(b)	0	Human and animal fecal waste				

⁽a) Two or more positive monthly samples is a violation of the MCL.

⁽b) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

TABLE 2	TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER									
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant		
Lead (ppb)	2019	10	1.5	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits		
Copper (ppm)	2019	10	1.5*	3	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		

	TABLE 3	- SAMPLING I	RESULTS FOR	SODIUM A	AND HARD!	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2018 & 2020	97.5	89-106	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2018 & 2020	89	86.1-91.9	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	ECTION C	OF CONTAMINA	ANTS WITH A	PRIMARY	DRINKING	WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Aluminum (ppm)	2016 & 2020	0.1	0-0.2	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic (ppb)	2020	16.5*	14-18	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppm)	2016 & 2020	0.04	0-0.08	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Cadmium (ppb)	2016 & 2020	1	0-2	5	0.04	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories, and metal refineries; runoff from waste batteries and paints
Chromium (Total) (ppb)	2016 & 2020	1	0-2	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	2018 & 2020	0.16	0.14-0.17	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha (pCi/L)	2017 & 2020	0.66	0-1.32	15	(0)	Erosion of natural deposits
Nickel (ppb)	2016 & 2020	1	0-2	100	12	Erosion of natural deposits; discharge from metal factories
Nitrate (as nitrogen, N) (ppm)	2020	0.8	0.3-1.3	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ppb)	2016 & 2020	5.5	0-11	50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Total Trihalomethanes (TTHM) (ppb)	2017 & 2020	3.3	0-6.6	80	N/A	Byproduct of drinking water disinfection
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A S	ECONDAR	<u>Y</u> DRINKIN	IG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	2018 & 2020	133.5	124-143	500	N/A	Runoff/leaching from natural deposits; seawater influence
Copper (ppm)	2008 & 2020	0.003	0-0.006	1	N/A	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Iron (ppb)	2018 & 2020	85	0-170	300	N/A	Leaching from natural deposits; industrial wastes

Manganese (ppb)	2018 & 2020	28.5	19-38	50	N/A	Leaching from natural deposits
Conductivity (umho/cm)	2020	675	660-690	1,600	N/A	Substances that form ions when in water; seawater influence
Sulfate (ppm)	2018 & 2020	18	17-19	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) (ppm)	2018 & 2020	418.5	412-425	1,000	N/A	Runoff/leaching from natural deposits
Turbidity (Units)	2008 & 2020	5.3	2.7-7.9	5	N/A	Soil runoff
Zinc (mg/L)	2008 & 2020	0.17	0.11-0.24	5.0	N/A	Runoff/leaching from natural deposits; industrial wastes
	TABLE (6 – DETECTION	N OF UNREGUI	ATED CO	NTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level		Health Effects Language

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Lead-Specific Language: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Laguna Seca Recreation Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. [OPTIONAL: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/lead.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT								
ViolationExplanationDurationActions Taken to Correct the ViolationHealth Effects Language								
*Total Coliform Bacteria	The water system failed the drinking water standard for total	July & September, 2020	Performed multiple system inspections, minor system	Coliforms are bacteria that are naturally present in the				

	coliform during the months of July & September, 2020		repairs and multiple disinfection of the system.	environment and are used as an indicator that other, potentially- harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
*Fecal coliform and E. coli	The water system failed the drinking water standard for Fecal coliform and E. coli	July, 2020	Performed system inspection and disinfection.	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

*C	Thus I 10	II 2010	NI 4.º · ·	Carrer :
*Copper	Three Lead &	July, 2019 was	No action	Copper is an
	Copper sites were	the first MCL	required at this	essential
	over the MCL for	overage.	time. The next	nutrient, but
	Copper.		testing will be	some people who
			done in 2022.	drink water
				containing
				copper in excess
				of the action
				level over a
				relatively short
				amount of time
				may experience
				gastrointestinal
				distress. Some
				people who
				drink water
				containing
				copper in excess
				of the action
				level over many
				years may suffer
				1 *
				liver or kidney
				damage. People with Wilson's
				Disease should
				consult their
				personal doctor.
*Arsenic	Well #1 had high	Last tested	Quarterly testing	Some people
	levels since 2011	10/13/20	and public	who drink water
			notification.	containing
			Investigating	arsenic in excess
			treatment	of the MCL over
			options.	many years may
				experience skin
				damage or
				circulatory
				system
				problems, and
				may have an
				increased risk of
				getting cancer.
				8 8

Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an E. coli MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. When coliforms are found, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct one Level 1 assessment. The assessment was completed. In addition, we were required to take three corrective actions and those actions were completed.

During the past year one Level 2 assessment was required and was completed. The corrective action was also completed.

Level 2 Assessment Requirement Due to an E. coli MCL Violation

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems. When E. coli bacteria is found, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

During the past year there was one Level 2 assessments due to E. coli. The assessment was completed. There were two corrective actions taken and completed.

Drinking Water Source Assessment

Water System

LAGUNA SECA RECREATION WS

Monterey County

Transient Non-community Water System

Water Source

WELL 01

Assessment Date

June, 2002

Assessment Completed By

Monterey County

California Department of Public Health Drinking Water Field Operations Branch LPA Monterey County

District No. 57

System No. 2702009

Source No. 001

PS Code 2702009-001

Vulnerab	Vulnerability Summary Transient Non-community Water System							
District Name	Monterey County	District No. 57	County	Monterey				
System Name	LAGUNA SECA RECREATION W	/S		System	No. 2702009			
Source Name	WELL 01	Source No	001	PS Code	2702009-001			
Completed by	Monterey County		D	ate _June, 2002	2			
	According to CDPH records, this Source is Groundwater. This Assessment was done using the Transient Noncommunity Groundwater System Method.							
A source water	er assessment was conducted fo	r the WELL 01				_		
of the <u>LAGU</u>	INA SECA RECREATION WS		_ water s	ystem in <u>Ju</u>	ne, 2002	-		
The source is	considered most vulnerable to the	he following activities	not assoc	ciated				

The source is considered most vulnerable to the following activities not associated with any detected contaminants:

Military installations
Wastewater treatment plants

Discussion of Vulnerability

There have been no contaminants detected in the water supply, however the source is still considered vulnerable to activities located near the drinking water source.

The water system is proposing to build a wastewater treatment plant on site approximately 600 feet from existing well.

A copy of the complete assessment may be viewed at:

Monterey County Health Department 1270 Natividad Road Room 109 California, CA 93906

You may request a summary of the assessment be sent to you by contacting:

Sandy Ayala Environmental Health Specialist (831)755-8924 (831)755-8929 (fax) ayalasa@co.monterey.ca.us

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District Name	Monterey County	District No. 57	County	Monterey	
System Name	LAGUNA SECA RECREATION WS	S		System No	2702009
Source Name	WELL 01	Source No	001	PS Code	2702009-001
Completed by	Monterey County		D	ate _ June, 2002	

The following PCAs were identified in the assessment and are listed in priority order based on risk to the water supply. Refer to the last page for more information.

Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
Α	Military installations (VH)		7	5	3	15
Α	Wastewater treatment plants (VH)		7	5	3	15
Α	Lagoons/liquid wastes (H)		5	5	3	13

^{* =} A contaminant potentially associated with this activity has been detected in the water supply.

Explanation of Source Water Assessments and Definition of Terms

A source water assessment was recently completed for this drinking water source. The assessment identifies the vulnerability of the drinking water supply to contamination from typical human activities. The assessments are intended to facilitate and provide the basic information necessary for a local community to develop a program to protect the drinking water supply.

A summary of the complete assessment is provided here. For more information, contact the agency or individual that prepared the assessment (shown in summary). You may also contact the local Department of Public Health Drinking Water Field Operations Branch district office http://www.cdph.ca.gov/programs/Documents/DDWEM/OriginalDistrictMapCDPH.pdf).

Additional information about assessments can be found at: http://www.cdph.ca.gov/certlic/drinkingwater/Pages/DWSAP.aspx

Terms used in this summary:

Source Water Assessment: An assessment is an evaluation of a drinking water source to determine the "possible contaminating activities" (PCAs) to which the source is most vulnerable. The assessment includes: a delineation of protection zones around the source; an inventory of the types of PCAs within the source protection zones; and an analysis to determine the PCAs to which the source is most vulnerable. The information is compiled into a report that includes a map, calculations, checklists, and a summary of the findings.

Possible Contaminating Activity (PCA): A PCA is a current or historic human activity that is an actual or potential origin of contamination for a drinking water source. PCAs include activities that use, store, produce or dispose of chemicals that have the potential to contaminate drinking water supplies. There are 110 types of PCAs in the California DWSAP program.

PCA Risk Ranking: Each type of PCA is assigned a risk ranking (Very High, High, Moderate, or Low). The risk ranking is based on the contaminant(s) typically associated with that PCA, the likelihood of release from that type of facility based on historical experience, and the mobility of the contaminant(s).

PCA Inventory: The PCA inventory is a review using local knowledge, databases, and on-site evaluations to identify the occurrence and approximate location of PCAs in the source water zones. The inventory for the basic DWSAP assessments is a presence-absence review. If a type of PCA occurs in a zone, a "Yes" is noted in the inventory for that zone, regardless of whether there is one or many of that type of facility within the zone. If a PCA has been associated with a contaminant detected in the water supply, a notation is made in the PCA inventory.

Source Water Zones or Areas: These are areas located around and typically adjacent to a drinking water source that have been identified as initial protection areas.

For groundwater sources, there are typically three concentric circular zones around a source (Zones A, B5 and B10). The sizes of the are determined based on characteristics of the source. PCAs located in the inner Zone A are considered more of a risk to the water supply than PCAs located in the middle Zone B5. Similarly, PCAs located in Zone B5 are considered more of a risk than PCAs located in the outer Zone B10.

For surface water sources, the watershed is defined as the overall protection area, and as an option, zones are defined closer to the source. Two types of zones are typically established. Zone A is the area within and near the surface water body and its tributaries. Zone B is an area within 2,500 feet of the intake, not including areas in Zone A. For surface water sources, PCAs located in Zone A are considered a greater threat than PCAs located in Zone B. PCAs located on the watershed outside of the zones are considered to be of less risk to the water supply. If zones have not been defined, PCAs are considered to be of equal risk regardless of location on the watershed.

Physical Barrier Effectiveness (PBE): The PBE for a source is an evaluation of the ability of the source and the surrounding area to prevent the movement of contaminants into the source. The PBE is based on the construction and operation features of the source, and the characteristics of the surrounding area. A source is assigned a PBE of Low, Moderate or High, where High indicates that the physical barriers of the source and site are very effective in preventing the movement of contaminants. By design, typical groundwater sources will have Moderate PBE, while typical surface water sources will have Low PBE. This is due to the greater exposure of surface water sources to contamination.

Vulnerability Ranking: The vulnerability ranking is a summary of the PCAs identified in the assessment prioritized by the risk that they pose to the water supply. The prioritization is based on the risk associated with a PCA, the zone in which it occurs, and the PBE of the source. In the vulnerability ranking, points are assigned as follows:

PCA risk ranking	Very High = 7	High = 5	Moderate = 3	Low = 1	Unknown in any zone = 0
Zone (Groundwater)	A = 5	B5 = 3	B10 = 1		
Zone (Surface water with zones)	A = 5	B = 3	Watershed = 1		
Zone (Surface water without zones)	Watershed = 5				
Physical Barrier Effectiveness	Low = 5	Moderate = 3	High = 1		

The points for each type of PCA in each zone are totaled to give a vulnerability score, and the PCAs are ranked in order from the highest score to the lowest score. PCAs associated with detected contaminants are ranked at the top, regardless of vulnerability score. By definition, groundwater sources are not considered vulnerable to PCAs with scores less than 8, and surface water sources are not considered vulnerable to PCAs with scores less than 11. It should be noted that the vulnerability ranking scores do not have a direct quantitative value. Rather, the points are used only to relatively rank the types of PCAs for an individual source.

Note: Some of the summaries do not include a vulnerability ranking. If the assessment was done on paper and the details were not entered into the database, the vulnerability ranking is not available here. In addition, alternate methods of determining vulnerability were allowed in some cases, and the vulnerability ranking is not in the database.

Vulnerability Summary: The source is considered most vulnerable to the PCAs with the highest score, and to PCAs associated with detected contaminants. These PCAs are noted in the vulnerability summary. Further details or discussion may be provided in the vulnerability discussion.