



June 25, 2021

ELECTRONIC TRANSMITTAL

Brian Whetsler Environmental Health Specialist Small Water Systems Environmental Health Services 2156 Sierra Way, Suite B San Luis Obispo, CA 93401

2020 Consumer Confidence Report System Number 4000225

Dear Mr. Whetsler:

Attached are the 2020 Consumer Confidence Report and Consumer Confidence Report Certification Form. Phillips 66, Santa Maria Refinery has a non-transient non-community water system, system number 4000225.

Please contact me should you have questions concerning this submittal at (805) 343-3241.

Sincerely,

Kristen M. Kopp

Senior Environmental & PSM Consultant

KMK:bes

Attachment

e-cc: Ms. Leslie Terry

San Luis Obispo County Health Dept. Division of Environmental Health 2156 Sierra Way, Suite B

San Luis Obispo, CA 93401

SLO County, EHS ehs@co.slo.ca.us

Ms. Carrie Zurr-Lopez
San Luis Obispo County Health Dept.
Division of Environmental Health
2156 Sierra Way, Suite B
San Luis Obispo, CA 93401

Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name:		Phillips 66							
Water System Number: 400022			4000225						
J the sy monit	une 25 stem c	ertifies that the data previous	e) to custone informat	mers (and appropriate notic ion contained in the report i	amer Confidence Report was distributed on these of availability have been given). Further, as correct and consistent with the compliance burces Control Board, Division of Drinking				
Certif	fied by	: Name:		Kristen M. Kopp					
		Signatu	ıre:	Kot m Kapp					
		Title:		Senior Environmental & PSM Consultant					
		Phone	Number:	(805) 343-3241	Date: _June 25, 2021				
		ze report deli oply and fill-i	1501	(TO) (E.O. A.D.	n, please complete this page by checking all				
		was distributery methods us		l or other direct delivery 1	methods (attach description of other direct				
	Delive		nsumer Co	onfidence Report (water sy	s described in the Guidance for Electronic stems utilizing electronic delivery methods				
\boxtimes	"Good faith" efforts were u			sed to reach non-bill payir	ng consumers. Those efforts included the				
	follo	ring methods:							
		Posting the 0	CCR at the	the following URL: www					
		Advertising Publication	the availat	bility of the CCR in news n CR in a local newspaper o	vice area (attach zip codes used) nedia (attach copy of press release) of general circulation (attach a copy of the				
	\bowtie			e, including name of newspaper and date published) Lin public places (attach a list of locations)					
		Delivery of	multiple copies of CCR to single-billed addresses serving several persons, such ts, businesses, and schools community organizations (attach a list of organizations) of the CCR in the electronic city newsletter or electronic community newsletter						
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	-			py of the article or notice)					
		W	nnouncem	nent of CCR availability vi	ia social media outlets (attach list of social				
		Other (attack	h a list of o	other methods used)					
	For sy	vstems serving	g at least i	100,000 persons: Posted C	CCR on a publicly accessible internet site at				
		llowing URL							
	For p	rivately-owne	d utilities:	Delivered the CCR to the	California Public Utilities Commission				

Consumer Confidence Report Electronic Delivery Certification

	er systems utilizing electronic distribution methods for CCR delivery must complete this page by king all items that apply and fill-in where appropriate.
	Water system mailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available website where it can be viewed (attach a copy of the mailed CCR notification). URL: www
	Water system emailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed (attach a copy of the emailed CCR notification). URL: www
\boxtimes	Water system emailed the CCR as an electronic file email attachment.
	Water system emailed the CCR text and tables inserted or embedded into the body of an email, not as an attachment (attach a copy of the emailed CCR).
	Requires prior DDW review and approval. Water system utilized other electronic delivery method
	that meets the direct delivery requirement.
The	e report is emailed to all Santa Maria Refinery workers who have computer access at this Facility, ich has a non-transient non-community water system. The CCR is also posted on bulletin boards
aro	und the Facility for those who may not have computer access.
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This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c) of the California Code of Regulations.

2020 Consumer Confidence Report

Water System Name: Phillips 66 Report Date: June 25, 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 - December 31, 2020 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Tradúzcalo ó hable con alguien que lo entienda bien. Favor de comunicarse Phillips 66, Santa Maria Refinery a (805) 343-1776 para asistirlo en español.

Santa Maria Refinery's water met all primary and secondary drinking water standards. The tables below list all the constituents that were detected and show how they compare to the State and Federal standards. The Department of Environmental Health requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. As such, some of the data, though representative of the water quality, are more than one year old. All the results are from the most recent sampling event for each listed constituent.

The samples are collected at the source (well water) and at the potable water distribution points. The distribution water is a mixture of reverse osmosis (RO) water and well water. The potable water stream goes through UV filters and activated carbon filters to the distribution system. Tables 1 and 2 show results for samples collected at various distribution points. Tables 3, 4 and 5 show results for samples collected at the source water: well #2, well #4 and well #5. Although the report includes data from the water source in Tables 3, 4 and 5, the potable water that the consumer contacts is from the potable water distribution system.

Phillips 66 is committed to keeping you informed and providing this annual review of the water supply. Employees, visitors, and other water users may communicate concerns and other issues regarding the water system to Kristen Kopp at (805) 343-3241. Any issues regarding changes to the potable water system would involve the facility managers and supervisors and be discussed in facility operations meetings.

If you need copies of this report or have any questions concerning the potable water system, please contact Kristen Kopp at (805) 343-3241 or email at <u>Kristen.M.Kopp@P66.com</u>.

Type of water source(s) in use:

Well Water

Name & general location of source(s):

Well #2, #4, and #5 are located within the Santa Maria Refinery. Well #2 is near Tank 553, Well #4 is between "F" Street and Tank 800, and Well #5 is between the Carbon Plant access road and the Maintenance contractor building.

Drinking Water Source Assessment information:

A source water assessment was conducted for Wells 02, 04 and 05 of the Phillips 66 (ConocoPhillips /Phillips 66/Tosco Refining) water system in November 2002. No contaminants have been detected in the water supply; however the source is considered most vulnerable to the following activities:

Chemical/petroleum processing/storage.

A copy of the complete assessment may be viewed at:

County of San Luis Obispo, Environmental Health Services

2156 Sierra Way, San Luis Obispo, CA 93401

You may request a summary of the assessment be sent to you by contacting Environmental Health Services at 805-781-5544.

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 (USEPA).

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.

SMCL: Secondary Maximum Contaminant Level

ND: not detectable at testing limit

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

ppb: parts per billion or micrograms per liter (μg/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. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, and 5 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 – 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 mo.) <u>0</u>	0	1 positive monthly sample ^(a)	0	Naturally present in the environment		
Fecal Coliform or <i>E. coli</i> (State Total Coliform Rule)	(In the year)	0	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	None	Human and animal fecal 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 – 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)	2018	16	4.2	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2018	16	0.120	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS							
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Sodium (ppm)	2017	82	64 - 100	none	none	Salt present in the water and is generally naturally occurring	
Hardness (ppm)	2017	547	430 - 670	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring	

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Nitrate (as nitrogen, N) (ppm)	2020	2.3	0.61 4.7	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Aluminum (ppm)	2020, 2019 & 2018	0.143	<0.020 - 0.230	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride (ppm)	2020	0.19	0.13-0.23	2.0	Ī	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A <u>SI</u>	ECONDAR	Y DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum (ppb)	2020, 2019 & 2018	143	<20-230	200	N/A	Erosion of natural deposits; residue from some surface water treatment processes
Color (Units)	2017	1.3	1.0 – 2.0	15	N/A	Naturally-occurring organic materials
Turbidity (Units, NTU)	2019, 2018 & 2017	0.667	0.18 – 1.3	5	N/A	Soil runoff
Total Dissolved Solids (TDS) (ppm)	2017	863	690 - 980	1000	N/A	Runoff/leaching from natural deposits
Specific Conductance (micromhos/cm)	2017	1165	925 - 1300	1600	N/A	Substances that form ions when in water; seawater influence
Chloride (ppm)	2017	69	41 - 120	500	N/A	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	2017	380	290 - 480	500	N/A	Runoff/leaching from natural deposits; industrial wastes
	TABLE 6	– DETECTIO	ON OF UNREGU	LATED CO	NTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	ition Level	Health Effects Language
None		n/a	-1-			n/a

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).

Secondary Drinking Water Standards listed in Table 5 are non-mandatory guidelines to assist water systems in managing their drinking water for aesthetic considerations such as taste, color and odor in drinking water. These constituents do not pose a risk to human health.

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. Santa Maria Refinery 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. 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 or at http://www.epa.gov/lead.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement & Compliance with Other Regulations

The State requires the Refinery to test the water on a regular basis and last year the potable water met all U.S. EPA and State drinking water health standards. There were no violations of a MCL, MRDL, AL, TT or Monitoring and Reporting requirement. In addition, there were no fecal indicator—positive results for Ground Water Source samples.

Bulletin Board Posting

Please post the attached information on the bulletin board in the designated area.

Discard this list and post only the attachments

Santa Maria Refinery	Requested to Post	Alternate
Administration (Bldg. 2)	Christy Taylor	Susan Wingert
Firehouse (Bldg. 41)	Donald Bowman	Designee
Coker Common (Bldg. 85)	Jesse Ruiz	Designee
Coker Control Center (Bldg. 44)	Mark Steigler	Designee
Sulfur/Utility Control (Bldg. 50)	Jesse Ruiz	Designee
Maintenance Hallway (Bldg. 12)	Vince Romero	Designee
Maintenance Lunchroom (Bldg. 12)	Jim Anderson	Designee
I & E Shop (Bldg. 14)	Bob Wynn	Designee
Brinderson (Bldg. 24)	John Guagliardo	Designee
ENV Bungalow (Bldg. 7)	James Kertis	Barbara Strasbaugh
H&S Bungalow (Bldg. 5)	Augie Rincon	Designee
Refinery Laboratory (Bldg. 4)	Michelle Moore	Designee

Carbon Plant	Requested to Post	Alternate
Administration Building (Bldg. 68)	Debbie O'Grady	Designee
Change Room (Bldg. 67)	Debbie O'Grady	Designee

Remove the previous year's posting.